

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 1981, with a total area of 2.0 million acres. Both figures have declined during the past decade. The value of crop sales in 1981 was \$401 million, or 125 percent higher than the total for 1971. Livestock sales amounted to \$88 million, or 105 percent more than the 1971 level. Combined crop and livestock sales ranged from \$58 million in Kauai County to \$163 million on the Big Island. Major crops were sugar (\$207 million in sales, up 79 percent over the decade), pineapple (\$90 million, or 123 percent over the 1971 total), flowers and nursery products (\$30 million, or 560 percent more than in 1971), and macadamia nuts (\$26 million, up 641 percent). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from \$23 million in 1971 to \$104 million in 1981, or approximately 362 percent. About 680 farms sold \$30 million of flowers and nursery products in 1981, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1981 included cattle (\$28 million in sales), milk (\$30 million), and eggs (\$15 million). In 1981, Hawaii produced 40 percent of the fresh market vegetables consumed locally, 25 percent of the fresh market fruits, 30 percent of the beef and veal, 28 percent of the chickens, none of the rice, and 88 percent of the eggs.

Aquaculture has been growing in importance in recent years. Freshwater prawn production amounted to 240,000 pounds in 1981, with a value of more than \$1 million. Seven 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 \$38 million worth of marijuana in 1981, 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: 1981.

Table 444.-- 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 ^{1/}	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

^{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, Vol. I, Part 11 (1981), pp. 1, 2, 5, and 6.

Table 445.-- AGRICULTURAL SUMMARY, BY COUNTIES: 1978

Subject	State total	Hawaii	Hono- lulu	Kauai	Maui
Number of farms by size					
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
Farm acreage					
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
Other characteristics					
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 <u>1/</u>	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.

1/ 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 446.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1971 TO 1981

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
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	441,253	217,600	69,409	75,780	78,464
1980 ..	4,300	1,970	634,101	385,100	76,596	91,181	81,224
1981 ..	4,300	1,965	489,435	207,400	89,745	104,103	88,187

1/ Data for 1974 and later years based on revised farm 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 447.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1971 TO 1981

Geographic area and year	Number of farms ^{1/}	Farm acreage ^{2/} (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:							
1971	4,400	2,300	221,692	115,800	40,300	22,539	43,053
1980	4,300	1,970	634,101	385,100	76,596	91,181	81,224
1981	4,300	1,965	489,435	207,400	89,745	104,103	88,187
Hawaii Co.:							
1971	2,450	1,340	69,203	43,700	-	11,711	13,792
1980	2,500	1,150	215,640	137,500	-	55,669	22,471
1981	2,500	1,150	162,936	76,000	-	63,885	23,051
Maui Co.:							
1971	600	526	62,023	27,400	26,200	3,057	5,366
1980	500	420	159,302	100,800	36,404	12,014	10,084
1981	500	420	115,295	50,600	39,915	13,175	11,605
Oahu:							
1971	930	152	61,366	20,600	12,800	5,968	21,998
1980	1,000	125	165,131	63,200	40,192	18,802	42,937
1981	1,000	125	153,631	34,200	49,830	21,314	48,287
Kauai Co.:							
1971	420	282	29,100	24,100	1,300	1,803	1,897
1980	300	275	94,028	83,600	(3/)	4,696	5,732
1981	300	275	57,573	46,600	(3/)	5,729	5,244

^{1/} Farm definition revised in 1979.

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

^{3/} Less than \$50,000.

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

Table 448.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1971 TO 1981

Subject	1971	1980	1981
Acreeage in crop (1,000 acres):			
Sugarcane	232.3	217.7	216.1
Pineapples (land used for pineapple)	60.9	43.0	41.0
Vegetables and melons (harvested acreage) ..	2.9	3.9	4.2
Fruits, excluding pineapples	3.3	5.2	5.4
Coffee	3.4	1.9	1.8
Macadamia nuts	9.2	13.2	13.7
Miscellaneous crops	4.1	6.4	8.0
Number of crop farms:			
Sugar	612	330	320
Pineapples	36	18	18
Vegetables and melons	419	585	583
Fruits (excluding pineapples)	419	692	657
Coffee	750	650	625
Macadamia nuts	295	466	465
Taro	128	122	123
Flowers and nursery products	450	640	680
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	10,685	9,214	8,831
Pineapples, fresh equivalent (1,000 tons) ..	942	657	636
Vegetables and melons (1,000 lb.)	50,058	70,710	73,330
Fruits, excluding pineapples (1,000 lb.) ...	31,348	67,800	80,220
Coffee, parchment (1,000 lb.)	2,930	1,440	2,240
Macadamia nuts, in shell (1,000 lb.)	14,448	33,390	33,360
Taro (1,000 lb.)	8,840	6,400	6,100
Value of crop sales (\$1,000):			
Sugar (unprocessed cane)	115,800	385,100	207,400
Pineapples (fresh equivalent)	40,300	76,596	89,745
Vegetables and melons	7,131	18,552	21,669
Fruits (excluding pineapples)	3,847	12,982	15,429
Coffee (parchment)	1,014	2,304	4,480
Macadamia nuts (in shell)	3,569	24,174	26,454
Taro	787	1,280	1,305
Field crops (not estimated separately)	1,527	4,101	5,017
Flowers and nursery products	4,484	27,688	29,599

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

Table 449.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1981

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreege in crop (1,000 acres):				
Sugarcane	90.5	47.1	32.7	45.8
Pineapples (land used for pineapple)	-	30.0	11.0	(1/)
Vegetables and melons (harvested acreage)	1.5	1.4	1.2	0.1
Fruits, excluding pineapples	3.7	0.1	0.8	0.8
Coffee	1.8	-	-	-
Macadamia nuts	12.5	(D)	(D)	(D)
Miscellaneous crops	1.1	4.9	1.4	0.6
Number of crop farms:				
Sugar	309	3	3	5
Pineapples	-	13	2	3
Vegetables and melons	216	75	244	48
Fruits (excluding pineapples)	392	33	155	77
Coffee	625	-	-	-
Macadamia nuts	460	2	1	2
Taro	40	30	3	50
Flowers and nursery products	330	85	240	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	3,507	2,038	1,337	1,949
Pineapples, fresh equivalent (1,000 tons)	-	466	170	(2/)
Vegetables and melons (1,000 lb.)	32,040	25,640	14,060	1,590
Fruits, excluding pineapples (1,000 lb.)	61,860	1,480	6,020	10,860
Coffee, parchment (1,000 lb.)	2,240	-	-	-
Macadamia nuts, in shell (1,000 lb.)	33,240	(D)	(D)	(D)
Taro (1,000 lb.)	450	(D)	(D)	4,450
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	76,000	50,600	34,200	46,600
Pineapples (fresh equivalent)	-	39,915	49,830	(3/)
Vegetables and melons	8,827	6,352	5,895	595
Fruits (excluding pineapples)	11,434	291	1,609	2,095
Coffee (parchment)	4,480	-	-	-
Macadamia nuts (in shell)	26,355	(D)	(D)	(D)
Taro	104	(D)	(D)	934
Field crops (not estimated separately) ...	56	2,292	1,367	1,302
Flowers and nursery products	12,496	3,979	12,384	740

D Withheld to avoid disclosure of individual operations.

NA Not available.

1/ Less than 500 acres.

2/ Less than 500 tons.

3/ Less than \$50,000.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1981.

Table 450.-- VEGETABLES, FRUITS, COFFEE, NUTS, AND TARO: 1981

Crop <u>1/</u>	Acreage har- vested <u>2/</u>	Yield per acre (1,000 lb.)	Produc- tion (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Vegetables:					
Snap beans	130	10.0	1,300	76.1	989
Chinese Cabbage	310	21.6	6,700	14.5	972
Head Cabbage	510	25.0	12,800	14.0	1,792
Celery	65	43.4	2,820	20.1	567
Cucumbers	250	20.0	5,000	25.3	1,265
Eggplant	60	35.7	1,580	35.7	564
Ginger Root	64	44.7	2,860	76.2	2,179
Lettuce (Head, Semi-Head)	680	15.0	10,200	22.7	2,315
Dry Onions	120	16.5	1,980	51.4	1,018
Green Onions	75	9.9	740	76.5	566
Watercress	30	...	1,130	63.3	715
Tomatoes	280	29.5	8,300	35.3	2,930
Fruits:					
Bananas	650	9.2	6,000	25.7	1,542
Guavas	620	...	6,520	11.0	717
Papayas	2,110	30.1	63,600	19.3	12,267
Macadamia nuts (1981-1982)	10,000	3.3	33,360	79.3	26,454
Coffee (1981-1982)	1,700	1.3	2,240	200.0	4,480
Taro	340	...	6,100	21.4	1,305

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, 1981 pp. 33-69.

Table 451.-- LIVESTOCK INVENTORY: 1971, 1980, AND 1981

[In thousands.]

Type of livestock	1971	1980	1981
All cattle and calves <u>1/</u>	245	220	228
Milk cows <u>1/</u>	13	13	13
Hogs and pigs <u>2/</u>	62	57	55
Chickens (excluding broilers) <u>2/</u> ..	1,405	1,314	1,242
Bee colonies	4	7	7

1/ As of following January 1.

2/ As of December 1.

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

Table 452.-- LIVESTOCK INVENTORY, BY GEOGRAPHIC AREAS: 1981-1982

[In thousands.]

Type of livestock	Hawaii County	Maui County	Oahu	Kauai County
All cattle and calves <u>1/</u>	132.3	46.0	32.7	17.0
Milk cows <u>1/</u>	1.7	1.1	9.5	0.4
Hogs and pigs <u>2/</u>	4.8	10.9	34.5	5.2
Chickens (excluding broilers) <u>2/</u> .	(D)	(D)	1,083	(D)

D Withheld to avoid disclosure of individual operations.

1/ As of January 1, 1982.

2/ As of December 1, 1981.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1981, pp. 72, 81, and 86.

Table 453.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES: 1971 TO 1981

Subject	1971	1980	1981
Number of livestock operations, Dec. 31:			
Cattle <u>1/</u>	1,000	800	750
Hogs	540	650	650
Milk	100	70	70
Eggs	100	60	55
Broilers	22	10	10
Honey	19	27	28
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) <u>2/</u>	33,965	28,809	28,699
Pork (dressed weight; 1,000 lb.)	8,447	8,012	8,708
Milk (million lb.)	131.6	149.4	147.9
Eggs (million)	210	220.5	221.3
Broilers and chickens (1,000 lb. <u>3/</u>)	5,745	7,890	9,046
Honey (1,000 lb.)	276	861	875
Value of livestock sales (\$1,000):			
Cattle <u>4/</u>	15,772	28,074	28,438
Hogs <u>4/</u>	4,460	7,457	8,382
Milk	13,226	27,071	30,320
Eggs	7,438	13,910	15,159
Broilers and chickens	2,051	4,181	5,307
Other	106	531	581

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 454.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1981

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle <u>1/</u>	350	190	70	140
Hogs	70	110	355	115
Milk	24	17	24	5
Eggs	23	5	23	4
Broilers	-	-	8	2
Honey	3	5	8	12
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) <u>2/</u>	18,212	6,321	1,824	2,342
Pork (dressed weight; 1,000 lb.)	947	2,090	4,967	704
Milk (million lb.)	(D)	(D)	116.6	(D)
Eggs (million)	(D)	(D)	192.7	(D)
Broilers and chickens (1,000 lb. <u>3/</u>)	(D)	(D)	8,684	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000):				
Cattle <u>4/</u>	18,092	6,398	1,653	2,295
Hogs <u>4/</u>	954	2,146	4,536	746
Milk	(D)	(D)	24,136	(D)
Eggs	(D)	(D)	12,837	(D)
Broilers and chickens	(D)	(D)	5,077	(D)
Other	379	91	48	63

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 1981.

Table 455.-- FLOWERS AND NURSERY PRODUCTS, 1979 TO 1981, AND BY ISLANDS, 1981

Island and year	Number of farms	Area					Wholesale value (\$1,000)
		Total (acres)	Greenhouse (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1979	580	1,312	1,625	16,950	116	770	20,778
1980	640	1,477	1,753	19,567	130	858	27,668
1981	680	1,605	2,072	23,068	133	895	29,599
Islands, 1981:							
Hawaii ...	330	900	1,202	18,529	116	331	12,496
Kauai	25	27	38	63	6	19	740
Maui	85	278	280	734	-	255	3,979
Oahu	240	400	552	3,742	11	290	12,384

Source: Hawaii Agricultural Reporting Service, "Flower Industry Has Another Record Year in 1981," Hawaii Flowers & Nursery Products, Annual Summary (June 24, 1982).

Table 456.-- FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1981

Kind of flower	Number of farms	Number of flowers sold		Wholesale value (\$1,000)
		Unit	Number	
Cut flowers:				
Anthuriums	235	1,000 dozens	2,104	5,295
Birds of paradise	30	1,000 dozens	28	77
Carnations	10	1,000 dozens	53	114
Chrysanthemums, pompon	16	1,000 bunches	471	590
Chrysanthemums, other	3	1,000 dozens	11	43
Gingers	55	(NA)	(NA)	168
Proteas, pincushion	14	1,000 stems	518	183
Proteas, other	12	1,000 stems	164	137
Roses	6	1,000 dozens	452	1,032
Others	68	(NA)	(NA)	542
Cut orchids:				
Cattleyas	31	1,000 flowers	63	63
Cymbidiums	16	1,000 flowers	420	199
Dendrobiums, sprays	51	1,000 dozens	83	431
Others	13	(NA)	(NA)	10
Lei flowers:				
Carnations	24	Million flowers	40.3	1,338
Vanda Miss Joaquim	31	Million flowers	57.1	815
Plumerias	20	Million flowers	17.8	291
Tuberoses	6	Million flowers	30.8	668
Dendrobiums	25	Million flowers	8.5	244
Pikake	15	1,000 strands	140	180
Cut foliage:				
Ti leaves	57	Million leaves	10.1	266
Other greens	32	(NA)	(NA)	252
Potted plants:				
Anthuriums	21	1,000 pots	98	128
Chrysanthemums	11	1,000 pots	205	689
Orchids	166	1,000 pots	618	2,642
Poinsettias	25	1,000 pots	136	430
Potted foliage	94	(NA)	(NA)	7,268
Other potted plants	83	(NA)	(NA)	1,565
Ornamentals and trees	72	(NA)	(NA)	851
Unfinished flower and foliage stock ..	42	(NA)	(NA)	1,300
Other nursery products	99	(NA)	(NA)	1,788

NA Not available.

Source: Hawaii Agricultural Reporting Service, "Flower Industry Has Another Record Year in 1981," Hawaii Flowers & Nursery Products, Annual Summary. (June 24, 1982).

Table 457.-- MARKET SUPPLY OF SPECIFIED FOODS: 1971 TO 1981

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					
1971	48,440	31,329	17,111	58.2	35.3
1980	80,586	61,926	18,660	76.4	23.2
1981	82,439	61,556	20,883	77.3	25.3
Fresh market melons:					
1971	6,810	4,215	2,595	8.2	38.1
1980	13,244	11,894	1,350	12.6	10.2
1981	14,155	12,545	1,610	13.3	11.4
Fresh market vegetables:					
1971	112,373	69,510	42,863	135.0	38.1
1980	173,424	105,414	68,010	164.4	39.2
1981	175,427	105,052	70,375	164.6	40.1
Beef and veal: <u>3/</u>					
1971	67,185	33,220	<u>4/</u> 33,965	80.7	50.6
1980	94,359	65,550	<u>4/</u> 28,809	89.4	30.5
1981	94,792	66,093	<u>4/</u> 28,699	88.9	30.3
Pork: <u>3/</u>					
1971	24,028	15,581	8,447	28.9	35.2
1980	34,830	26,818	8,012	33.0	23.0
1981	34,632	25,924	8,708	32.5	25.1
Chickens: <u>5/</u>					
1971	24,095	18,350	5,745	28.9	23.8
1980	33,345	25,455	7,890	31.6	23.7
1981	32,896	23,850	9,046	30.9	27.5
Eggs:					
1971	18,287	787	17,500	22.0	95.7
1980	20,771	2,371	18,400	19.7	88.6
1981	20,864	2,464	18,400	19.6	88.2

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. After 1971 total supply was estimated and mainland inshipments derived.

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

5/ Ready-to-cook weight. After 1972, total supply was estimated and mainland inshipments derived.

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

Table 458.-- AGRICULTURAL PRODUCTIVITY RATING AND ESTIMATED ANNUAL
INLAND SOIL LOSS FOR MAJOR ISLANDS

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.

Table 459.-- FRESHWATER PRAWN FARMS, BY TYPE OF OPERATION AND ISLAND: DECEMBER 31, 1979 TO 1981

Operation and island	1979	1980	1981
All prawn farms	19	24	21
Type of operation:			
Full-time	7	8	8
Part-time	12	16	13
Island:			
Hawaii	-	4	4
Molokai	1	1	1
Oahu	17	16	13
Kauai	1	3	3

Source follows next table.

Table 460.-- FRESHWATER PRAWN ACREAGE, PRODUCTION, AND VALUE: 1970 TO 1981

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	275	205.0	787.3	3.84
1980	310	300.0	1,125.0	3.75
1981	260	240.0	1,031.0	4.30

1/ As of December 31.

2/ Data not available for production and value.

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.

Table 461.-- AQUACULTURE ACREAGE, PRODUCTION, AND VALUE, BY TYPE,
1976 TO 1981

Subject and year	All types	Fresh-water prawns	Hawaiian fish-ponds	Post-larvae <u>1/</u>	Other species <u>2/</u>
Acreage:					
1976	235	26	192		17
1977	246	33	192		31
1978	320	107	192		31
1979	493	275	192	1	25
1980	575	310	205	2	58
1981	547	260	199	2	86
Production (1,000 lbs.): <u>3/</u>					
1976	94.0	43.3	19.7	...	31.0
1977	122.6	54.9	20.1	...	47.6
1978	178.5	110.2	23.3	...	45.0
1979	246.4	205.0	20.0	...	16.4
1980	320.0	300.0	20.0	...	31.0
1981	338.5	240.0	23.1	...	75.4
Value (\$1,000):					
1976	210.0	151.6	18.5		39.9
1977	280.6	206.0	24.7		49.9
1978	524.7	420.0	32.7		72.0
1979 <u>4/</u>	1,531.3	787.3	22.0	500.0	222.0
1980	1,655.0	1,125.0	20.0	450.0	60.0
1981	1,868.5	1,031.0	23.0	610.0	204.5

1/ Juvenile freshwater prawns and marine shrimp.

2/ Oysters, brine shrimp, carp and Chinese catfish, catfish, koi, tilapia, tropical fish and aquarium plants, and trout.

3/ Excludes items not sold by weight: post-larvae, brine shrimp, koi, tropical fish, and aquarium plants.

4/ Value of post-larvae estimated.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, information submitted July 16, 1982.