

AGRICULTURE

This section presents statistics on agricultural land, farms, and specific crops, livestock, dairy products, and poultry.

There were 4,300 farms in Hawaii as of 1974, with a total area of 2,300,000 acres. Both figures have declined appreciably during the past decade. The value of crop sales in 1974 was \$516 million, more than triple the total for 1964. Livestock sales amounted to \$58 million, or 63 percent more than the 1964 level. Combined crop and livestock sales ranged from \$101 million in Kauai County to \$199 million on the Big Island. Major crops in 1974 were sugar (\$442 million in sales, up 389 percent over the decade), pineapple (\$41 million, or 15 percent over the 1964 total), and vegetables and melons (\$10 million). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from \$15 million in 1964 to \$32 million in 1974, or approximately 117 percent. More than 480 farms sold \$6.3 million of flowers and nursery products in 1973, chiefly anthuriums and orchids. Important products of livestock farms as of 1974 included cattle (\$19 million in sales), milk (\$19 million), and eggs (\$11 million). Coffee sales have declined sharply during the past decade, but macadamia nuts and horticultural specialties have increased rapidly. In 1974, Hawaii produced 42 percent of the fresh market vegetables consumed locally, 34 percent of the fresh market fruits, none of the butter and oleomargarine, all of the milk, 35 percent of the red meat, 18 percent of the poultry meat, and 91 percent of the eggs.

Important sources for data on agriculture include the *United States Census of Agriculture* for 1969 and earlier years, the annual report on *Statistics of Hawaiian Agriculture* issued by the Hawaii Crop and Livestock Reporting Service, and publications of the Hawaii Agricultural Experiment Station, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. National statistics appear in Section 23 of the *Statistical Abstract of the United States: 1974*.

Table 245.—AGRICULTURAL SUMMARY, BY COUNTIES: 1969

County	Number of farms, by size (in acres)					Farm acreage (thousands)				
	All farms	1 to 9	10 to 49	50 to 259	260 and over	Total acreage	In farms of 260 or more acres	Harvested cropland	Irrigated	
State total	3,896	2,024	1,281	389	202	2,058	1,982	178.7	145.6	
Hawaii	2,241	1,066	832	227	116	1,203	1,158	64.2	9.1	
Honolulu	768	555	153	32	28	147	138	31.2	41.1	
Kauai	375	185	125	47	18	273	265	28.3	42.5	
Maui	512	218	171	83	40	435	420	55.0	52.8	
County	Average age of farm operators (yrs.)	Tenant farmers		Regular hired workers ¹	Average value of land and buildings		Market value of agricultural products sold			
		Percent of all operators	Percent of farm acreage		Per farm (\$1,000)	Per acre (dollars)	Total (\$1,000)	Average per farm (\$1,000)	Percent of farms over \$2,500	
State total	53.1	38.1	18.2	13,200	156.8	297	287,939	73.9	55.6	
Hawaii	53.6	38.9	16.7	3,752	90.0	168	85,833	38.3	52.9	
Honolulu	52.1	43.6	29.9	2,944	281.7	1,474	87,025	113.3	70.1	
Kauai	52.3	37.6	30.5	2,606	224.7	308	41,596	110.9	49.3	
Maui	52.5	26.5	10.3	3,898	212.1	250	73,485	143.5	50.0	
County	Livestock and poultry on farms (thousands)			Market value of machinery and equipment ² (\$1,000)	Quantity of crops harvested					
	Cattle and calves	Hogs and pigs	Chickens 3 mo. old and over		Coffee (1,000 lb ³)	Macadamia nuts (1,000 lb. ⁴)	Papayas (1,000 lb.)	Pineapples (1,000 tons)	Sugarcane (1,000 tons)	
State total	233	52.3	1,072	90,847	2,755	10,323	20,216	946	11,258	
Hawaii	133	6.3	149	20,634	2,737	10,197	17,174	—	4,599	
Honolulu	35	35.6	773	20,997	} 17	{ 18	910	283	1,910	
Kauai	16	3.5	45	22,921			{ 80	688	35	2,551
Maui	48	6.9	104	26,295				28	1,444	627

¹Working 150 days or more. Limited to farms with sales of \$2,500 and over.

²Limited to farms with sales of \$2,500 or more.

³Parchment.

⁴Husked unshelled.

Source: U.S. Bureau of the Census, *U.S. Census of Agriculture: 1969*, Vol. I, Part 50.

Table 246.—NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1958 TO 1974

Year	Number of farms	Area in farms ¹ (1,000 acres)	Value of sales (\$1,000)				
			Crops and livestock	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Other crops	Livestock
1958	6,800	2,610	135,233	57,000	36,400	9,907	31,926
1959	6,800	2,600	149,627	69,800	34,900	12,652	32,275
1960	6,600	2,600	148,215	67,200	34,500	12,977	33,538
1961	6,200	2,550	161,306	78,600	35,800	12,545	34,361
1962	5,700	2,500	171,270	86,800	36,200	13,992	34,278
1963	5,200	2,450	193,162	108,900	36,900	13,040	34,322
1964	5,100	2,450	176,655	90,500	35,600	14,948	35,607
1965	5,000	2,400	183,248	97,500	35,300	14,843	35,605
1966	4,900	2,400	196,107	105,200	37,400	16,105	37,402
1967	4,800	2,360	198,293	106,000	38,500	16,334	37,459
1968	4,700	2,330	203,051	111,200	35,900	18,066	37,885
1969	4,600	2,310	199,089	104,900	35,500	19,202	39,487
1970	4,500	2,300	213,667	110,600	39,500	21,919	41,648
1971	4,400	2,300	221,670	115,800	40,300	22,517	43,053
1972	4,300	2,300	232,329	117,300	43,900	24,887	46,242
1973	4,300	2,300	265,411	141,900	39,600	27,642	55,269
1974	4,300	2,300	573,780	442,300	41,100	32,401	57,979
COUNTIES: 1974							
Hawaii	2,450	1,340	198,875	165,400		15,872	17,603
Honolulu	900	152	126,050	69,800	14,700	9,385	32,165
Kauai	400	282	101,090	96,700		2,176	2,214
Maui	550	520	147,765	110,400	26,400	4,968	5,997

¹Includes land not in crop and pasture, such as farm house lots, roads, wood lots, etc.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture* (Hawaii State Department of Agriculture, annual), and records.

Table 247.—ACREAGE IN CROP AND PASTURE, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY COUNTY: 1964 AND 1974

Subject	State total		Counties, 1974			
	1964	1974	Hawaii	Kauai	Maui	Honolulu
Acreeage (1,000 acres):						
Sugarcane	233.1	224.2	98.7	45.7	46.3	33.5
Pineapples	64.9	57.0	—	—	41.5	15.5
Vegetables and melons	3.3	3.7	1.2	0.3	0.8	1.4
Fruits (excluding pineapples)	3.2	4.5	3.3	0.2	0.4	0.6
Coffee	4.7	2.9	2.9	—	—	—
Macadamia nuts	4.5	9.9	9.8	0.1	—	—
Miscellaneous crops	1.2	3.5	0.8	1.0	0.8	0.9
Number of crop farms:						
Sugar	822	527	516	5	3	3
Pineapples	87	20	—	—	18	2
Vegetables and melons	744	436	148	40	72	176
Fruits (excluding pineapples)	624	559	330	52	39	138
Coffee	860	760	760	—	—	—
Macadamia nuts	250	350	346	2	1	—
Taro	162	127	38	51	36	2
Flower and nursery	570	530	250	20	60	200
Volume of crop marketings:						
Sugar (unprocessed cane; 1,000 tons)	10,495	9,081	3,627	1,992	2,069	1,393
Pineapples (fresh equivalent; 1,000 tons)	955	704	—	—	515	189
Vegetables and melons (1,000 lb.)	53,905	58,154	19,418	2,678	17,108	18,950
Fruits (excluding pineapples; 1,000 lb.)	36,497	54,222	39,811	3,133	3,575	7,703
Coffee (parchment; 1,000 lb.)	9,947	2,800	2,800	—	—	—
Macadamia nuts (in shell; 1,000 lb.)	7,655	13,750	13,720	10	20	—
Taro (1,000 lb.)	9,275	8,835	2,110	5,350	1,335	40
Value of crop sales (\$1,000):						
Sugar (unprocessed cane)	90,500	442,300	165,400	96,700	110,400	69,800
Pineapples (fresh equivalent)	35,600	41,100	—	—	26,400	14,700
Vegetables and melons	5,114	10,017	2,865	650	2,588	3,914
Fruits (excluding pineapples)	2,152	6,554	4,752	402	338	1,062
Coffee (parchment)	3,025	1,120	1,120	—	—	—
Macadamia nuts (in shell)	1,194	3,986	3,979	7	—	—
Taro	564	900	220	535	141	4
Horticultural specialties	2,700	7,000	2,740	80	630	3,550
Forest products	100	180	144	10	14	12
Field crops (not estimated separately)	99	2,644	52	492	1,257	843

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture* (Hawaii State Department of Agriculture, annual).

Table 248.—VEGETABLES, MELONS, FRUITS, NUTS, AND TARO: 1974

Crop ¹	Acreage harvested	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Vegetables and melons:					
Sheep beans	100	10.0	1,000	43.8	438
Head cabbage	400	27.5	11,000	11.0	1,212
Sweet corn	483	2.9	1,391	19.1	266
Cucumbers	190	19.5	3,700	18.0	665
Chinese cabbage	264	21.4	5,653	9.2	520
Daikon	221	13.1	2,890	9.7	280
Green onions	85	11.4	965	43.4	419
Lettuce (head, semi-head)	450	12.4	5,600	17.0	952
Dry onions	91	13.2	1,197	21.0	251
Eggplant	44	24.2	1,064	25.6	272
Potatoes	295	15.8	4,650	6.7	310
Tomatoes	200	24.5	4,900	27.1	1,328
Watermelons	220	7.4	1,625	18.5	301
Watercress	37	52.8	1,954	23.6	461
Fruits:					
Bananas	610	10.8	6,600	13.1	865
Papayas ²	1,690	22.0	37,224	(³)	4,788
Macadamia nuts	5,760	2.4	13,750	29.0	3,986
Taro	460	(NA)	8,835	10.2	900

NA Not available.

¹Data shown for crops with sales in excess of \$250,000.

²Fresh weight basis.

³Fresh market, 13.9; processed, 3.1.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture, 1974* (Hawaii State Department of Agriculture, 1975).

**Table 249.—NUMBER OF LIVESTOCK FARMS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES, BY COUNTY: 1964 AND 1974**

Subject	State total		Counties, 1974			
	1964	1974	Hawaii	Kauai	Maui	Honolulu
Number of livestock farms:						
Cattle (incl. beef and dairy)	1,580	960	400	160	260	140
Hogs	1,040	580	105	60	125	290
Milk	210	100	35	10	25	30
Eggs	660	80	35	10	10	25
Broilers	39	15	—	2	1	12
Honey	42	20	3	4	4	9
Volume of livestock:						
Beef (1,000 lb. dressed weight)	26,242	28,070	17,512	2,035	6,286	2,237
Pork (1,000 lb. dressed weight)	8,624	7,953	1,235	379	1,421	4,918
Milk (million lb.)	131.0	137.4	(D)	(D)	(D)	114.3
Eggs (million)	187	207	20.2	7.1	10.7	168.8
Broilers and chickens (1,000 lb. ¹)	5,255	5,853	97	208	40	5,508
Honey (1,000 lb.)	315	320	185	41	70	24
Value of livestock sales (\$1,000):						
Cattle ²	9,703	18,536	11,513	1,263	4,190	1,390
Hogs ²	3,485	5,822	843	310	1,121	3,548
Milk	11,599	19,387	(D)	(D)	(D)	15,611
Eggs	8,462	11,385	1,324	487	627	8,947
Broilers and chickens	2,221	2,807	28	127	16	2,636
Others	137	222	119	27	43	33

D Withheld to avoid disclosure of individual operations.

¹Ready-to-cook weight.

²Excluded interfarm sales.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture* (Hawaii State Department of Agriculture, annual).

Table 250.—FLOWERS AND NURSERY PRODUCTS, BY ISLAND: 1972 TO 1974

Area and year	Number of farms	Area					Wholesale value (\$1,000)	Out-of-state sales (\$1,000)
		Total (acres)	Greenhouse (1,000 square feet)	Artificial shade structure (1,000 square feet)	Natural shade area (acres)	Open field (acres)		
State total:								
1972	446	757	172	6,665	123	477	5,244	3,074
1973	486	778	385	7,067	136	470	6,674	3,678
1974	465	876	577	8,074	131	547	8,211	4,359
Islands, 1974:								
Hawaii	222	476	361	5,978	111	220	3,036	(NA)
Kauai	19	16	2	55	2	13	122	(NA)
Mauui	54	69	49	93	2	64	981	(NA)
Oahu	170	315	165	1,948	16	250	4,072	(NA)

Footnotes and source follow table 251.

Table 251.—FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1974

Kind of flower	Number of farms	Number of flowers sold		Wholesale value (\$1,000)
		Unit	Number	
Cut flowers:				
Anthuriums	154	1,000 dozens	1,130	1,690
Birds of paradise	31	Do.	62	118
Carnations	6	Do.	41	59
Chrysanthemums, exc. pompon	8	Do.	23	62
Gingers	21	Do.	(NA)	84
Roses	5	Do.	359	317
Lilies and miscellaneous	26	Do.	(NA)	102
Chrysanthemums, pompon	20	1,000 bunches	360	214
Cut orchids:				
Cattleyas	36	1,000 flowers	73	39
Cymbidiums	17	Do.	707	219
Vanda hybrids and others	36	Do.	(NA)	58
Dendrobiums, sprays	29	1,000 dozens	16	60
Lei flowers:				
Carnations	17	Million flowers	28.2	576
Vandas Miss Joaquin	31	Do.	48.0	430
Plumerias	13	Do.	32.2	369
Tuberoses	5	Do.	9.8	143
Pikake	8	1,000 strands	123	112
Cut foliage:				
Ti leaves	30	Million leaves	15.8	193
Crotons, lycopodiums, and other greens	18	Do.	11.5	78
Potted plants:				
Chrysanthemums	12	1,000 pots	94	160
Orchids	61	Do.	171	398
Potted foliage	26	Do.	(NA)	284
Other potted plants	61	Do.	(NA)	459
Ornamentals and trees	74	Do.	(NA)	1,059
Other nursery products ¹	15	Do.	(NA)	928

NA Not available.

¹Includes ornamental plants, trees, bedding plants and potted foliage.

Source of tables 250 and 251: Hawaii Crop and Livestock Reporting Service, *Hawaii Flowers and Nursery Products* (August 12, 1975).

Table 252.—MARKET SUPPLY OF SPECIFIED FOODS: 1964 TO 1974
(Eggs in 1,000 dozens; other foods in 1,000 pounds)

Year and source	Fresh market vegetables	Melons	Miscellaneous crops ¹	Fresh market fruits ²	Butter and oleomargarine	Milk ³	Red meat ⁴	Poultry meat ⁵	Eggs, shell
1964, total	100,493	8,534	57,068	48,838	7,201	131,000	80,882	17,028	16,555
Inshipments	50,413	6,794	57,068	24,175	7,201	—	45,948	11,773	972
From Hawaii	50,080	1,740	—	24,663	—	131,000	34,934	5,255	15,583
Percent	49.8	20.4	0	50.5	0	100.0	43.2	30.9	94.1
1973, total	126,164	10,257	72,853	55,074	7,476	136,400	97,114	31,116	18,504
Inshipments	70,115	6,017	72,853	34,856	7,476	—	58,064	25,085	1,204
From Hawaii	56,049	4,240	—	20,218	—	136,400	39,050	6,031	17,300
Percent	44.4	41.3	0	36.7	0	100.0	40.2	19.4	93.5
1974, total	129,122	9,939	61,320	62,483	(NA)	137,400	102,453	31,740	18,933
Inshipments	74,396	8,314	61,320	41,071	(NA)	—	66,430	25,885	1,633
From Hawaii	54,726	1,625	—	21,412	(NA)	137,400	36,023	5,855	17,300
Percent	42.4	16.3	0	34.3	(NA)	100.0	35.2	18.4	91.4

NA Not available.

¹Chiefly rice (59,510 in 1974).

²Excludes pineapple, fruits not estimated separately, and papaya outshipments to Mainland.

³Amount sold; excludes milk consumed on farms.

⁴Dressed weight.

⁵Ready-to-cook.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture* (Hawaii State Department of Agriculture, annual)

Table 253.—LAND USE PRODUCTIVITY RATINGS FOR MAJOR ISLANDS: 1968

Island and land use	Agricultural productivity rating (acres)					
	Total ¹	A (very good)	B (good)	C (moderate)	D (poor)	E (very poor)
Six Islands	4,050,176	68,037	128,833	312,558	783,817	2,668,515
Island:						
Kauai	354,112	10,038	30,276	28,458	30,525	249,276
Oahu	388,928	24,584	32,286	21,986	19,728	228,218
Molokai	167,104	702	—	4,519	40,405	120,309
Lanai	89,280	—	—	4,849	20,219	63,777
Maui	466,432	32,713	20,067	38,467	99,806	268,726
Hawaii	2,584,320	—	46,204	214,279	573,134	1,738,209
Land use:						
Pineapple	69,276	—	16,204	22,131	29,038	1,903
Sugar cane	262,377	65,776	71,354	82,760	40,230	2,257
Diversified agriculture	33,569	2,261	6,497	14,218	6,205	4,388
Grassland grazing	492,905	—	22,905	116,641	175,186	178,173
Wooded grazing	657,629	—	4,313	37,776	175,767	439,773
Idle agricultural land	13,585	—	994	3,139	4,545	4,907
Forest	289,039	—	1,729	7,864	58,877	220,569
Forest reserve	1,190,954	—	1,603	14,596	237,389	937,366
Recreation	17,248	—	798	657	4,630	11,163
Game management	87,585	—	—	2,302	17,565	67,718
National park	229,423	—	—	5,191	26,554	197,678
Military	38,048	—	1,637	3,280	3,624	29,507
Undeveloped subdivision	76,814	—	799	2,003	4,198	69,814
Pali and barren land	503,308	—	—	—	9	503,299
Quarry	1,462	}				
Water	8,063					
Urban: military	17,658					
Urban: civilian	61,233					
			Not rated for productivity			

¹Includes quarry, water, and urban, which were not rated for productivity.

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.