

SECTION 19

Forests, Fisheries, and Mining

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.1 million acres of commercial forest in the State, most of it on Hawaii Island. More than 44,000 acres had been planted in eucalyptus and other species of trees by 1968. The volume of sawtimber reported in that year was 789 million board feet. Primary forest products harvested in 1967 had a value of \$334,000.

The commercial fish catch in 1969 exceeded 9.7 million pounds and had a value of \$3.5 million. *Aku* (Skipjack) accounted for almost half of the total value.

The value of mineral production reached \$29 million in 1969, most of it in cement and stone.

Important sources of data on these subjects are the United States Census of Agriculture, United States Census of Mineral Industries, and reports of the Hawaii State Department of Land and Natural Resources Fish and Game Division and Forestry Division. Comparable Mainland statistics are reported in the *Statistical Abstract of the United States: 1969*, Sections 24, 25 and 26.

Table 112. -- AREA OF FOREST LAND, 1961, AND PLANTED FOREST, 1968, AND VOLUME OF SAWTIMBER, 1968, BY ISLAND

Island	Forest land area, 1961 (1,000 acres)		Area of planted forest, to 1968 (acres) ³	Volume of sawtimber, 1968 (1,000 board feet) ⁴
	Total ¹	Commercial ²		
State total.....	1,981.6	1,088.9	44,513	788,931
Niihau	28.0	--	--	--
Kauai.....	223.0	136.7	4,548	37,316
Oahu	210.6	97.1	7,099	49,652
Molokai	82.9	23.6	2,716	4,204
Lanai	28.2	2.1	512	2,920
Kahoolawe	11.7	--	--	--
Maui	263.6	120.4	10,229	105,560
Hawaii.....	1,133.6	709.0	19,409	589,279

1. Includes commercial (1,088.9), unproductive (807.3), and productive-reserved (85.4).
 2. Includes Federal military (8.6), State (487.3), County (0.4), farmer-owned (365.9), and miscellaneous private (266.7).
 3. Chiefly *Robusta Eucalyptus* (10,866), other *Eucalyptus* (7,384), other hardwoods (11,515), and conifers (5,182).
 4. Includes *Ohia* (377,555), *Koa* (120,903), *Eucalyptus* (252,648), other hardwoods (19,778), and conifers (18,042).
- Source: Hawaii State Department of Land and Natural Resources, Forestry Division, Facts About Hawaii's Forests (1969).

Table 113. -- PRIMARY FOREST PRODUCTS HARVESTED: 1958 TO 1967

Primary forest product	Production ¹			Value (\$1,000)		
	1958	1963	1967	1958	1963	1967
Total	--	--	--	269	230	334
Sawlogs	405	913	3,925	40	149	161
Craftwood	510		196	121		58
Fuelwood	1,300	847	720	19	19	28
Posts	65	22	7.1	54	23	12
Tree fern	100	118	143.5	35	39	75

1. Sawlogs and craftwood in 1,000 board feet, fuelwood in cords, posts in 1,000 pieces and tree fern in 1,000 cubic feet.
- Source: U. S. Department of Agriculture, Pacific Southwest Forest and Range Experiment Station, Forest Products Harvested in Hawaii—1967, Res. Note PSW-179.

Table 114. -- COMMERCIAL FISH LANDINGS: 1950 TO 1969
(Includes both sea and pond catch)

Calendar year	Pounds caught	Pounds sold	Value (dollars)	Value per pound (cents)
1950	16,217,546	16,163,613	3,556,332	22.0
1955	15,457,444	15,396,173	3,164,742	20.6
1960	11,136,020	11,103,934	2,705,152	24.4
1961	14,450,334	14,430,654	2,903,181	20.1
1962	13,169,717	13,125,616	2,819,331	21.5
1963	11,756,645	11,707,788	2,682,049	22.9
1964	12,702,696	12,658,664	2,849,371	22.5
1965	19,601,705	19,545,636	3,603,058	18.4
1966	13,037,479	12,974,097	3,128,534	24.1
1967	11,859,136	11,786,073	3,076,198	26.1
1968	13,014,062	12,908,570	3,449,621	26.7
1969 ¹	9,728,134	9,586,966	3,501,209	36.5

1. Total catch for the year ended June 30, 1969 was 11,096,116 pounds (11,078,312 sea catch and 17,804 pond catch) with a value of \$3,378,553 (\$3,368,882 sea catch and \$9,671 pond catch). Ocean species with a value in excess of \$100,000 were aku (skipjack) (\$1,404,317), ahi (bigeye) (\$555,944), ahi (yellowfin) (\$194,407), stripe marlin (\$184,010), akule (\$155,482), hahalalu (\$145,683), and opelu (\$100,952). The chief pond catch was awa (\$4,756).

Source: Hawaii State Department of Land and Natural Resources, 1968-1969 Annual Report to the Governor, p. 42, and Division of Fish and Game, records.

Table 115. -- MINERAL OPERATIONS: 1909 TO 1969

Year	Establishments	All employees		Value of shipments and receipts (\$1,000)		Value added in mining (\$1,000)	Capital expenditures (\$1,000)
		Total	Payroll (\$1,000)	Total ¹	Mineral industries only		
1963	49	339	1,758	7,462	6,525	5,677	520
1958	24	445	1,820	6,207	5,847	4,887	704
1954	13	171	598	1,778	(NA)	1,266	193
1919	5	151	95	251	(NA)	202	(NA)
1909	6	43	14	21	(NA)	16	(NA)

Year	Value of mineral production (\$1,000)				Quantity produced	
	Total	Cement	Stone	Other	Cement ²	Stone ³
1969 (est.)	29,116	10,312	15,877	2,927	2,059	6,292
1968	23,225	9,254	11,273	2,698	1,841	5,211
1967	16,936	7,360	7,207	2,369	1,395	4,100

NA Not available.

1. Including operations in manufacturing (5 establishments in 1963).

2. Thousand 376-pound barrels.

3. Thousand short tons.

Source: U. S. Bureau of the Census, Census of Mineral Industries, 1963. Area Statistics: Hawaii, MIC63 (2)-10, table 1, and U. S. Bureau of Mines, "The Mineral Industry of Hawaii in 1969," Mineral Industry Surveys, December 1969.