

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 the Big Island. Over 46,800 acres had been planted in eucalyptus and other species of trees by 1971. The volume of sawtimber reported in 1968 was 789 million board feet. Primary forest products harvested in 1969 had a value of \$331,000.

The commercial fish catch in 1971 exceeded 15 million pounds and had a value of \$4.6 million. *Aku* (Skipjack) accounted for almost half of the total value.

The value of mineral production reached \$28 million in 1971, 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: 1971*, Sections 24, 25, and 26.

**Table 183.—AREA OF FOREST LAND, 1961, AND PLANTED FOREST, 1971
AND VOLUME OF SAWTIMBER, 1968, BY ISLAND**

Island	Forest land area, 1961 (1,000 acres)		Area of planted forest, to 1971 (acres) ³	Volume of sawtimber, 1968 (1,000 board feet) ⁴
	Total ¹	Commercial ²		
State total	1,981.6	1,088.9	46,849	788,931
Niihau	28.0	—	—	—
Kauai	223.0	136.7	4,849	37,316
Oahu	210.6	97.1	7,145	49,652
Molokai	82.9	23.6	2,781	4,204
Lanai	28.2	2.1	512	2,920
Kahoolawe	11.7	—	—	—
Maui	263.6	120.4	10,351	105,560
Hawaii	1,133.6	709.0	21,211	589,279

¹Includes commercial (1,088.9), unproductive (807.3), and productive-reserved (85.4).

²Includes Federal military (8.6), State (487.3), County (0.4), farmer-owned (365.9), and miscellaneous private (266.7).

³Chiefly Robusta Eucalyptus, other Eucalyptus, other hardwoods, and conifers.

⁴Includes Ohia (377,555), Koa (120,908), 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), and records.

Table 184.—PRIMARY FOREST PRODUCTS HARVESTED: 1958 TO 1969

Subject	Total	Sawlogs	Craftwood	Veneer logs	Fuelwood	Posts	Treefern
Production¹:							
1958	—	405	510	—	1,300	65.0	100
1960	—	850	100	30	1,500	37.0	115
1963	—		913	—	847	22.0	118
1967 ²	—	3,925	196	—	720	7.1	143
1969	—	1,650	422	1,056	1,720	10.1	55
Average unit value (\$):							
1958	—	100	240	—	14.50	0.83	0.35
1960	—	70	200	300	30.00	0.60	0.38
1963	—		160	—	22.43	1.05	0.33
1967	—	40	300	—	38.89	1.69	0.52
1969	—	52	230	47	31.40	1.58	0.49
Total value (\$1,000):							
1958	269	40	121	—	19	54	35
1960	197	57	20	9	45	22	44
1963	230		149	—	19	23	39
1967	334	161	58	—	28	12	75
1969	331	86	98	50	54	16	27

¹Sawlogs, craftwood, and veneer logs in 1,000 board feet, fuelwood in cords, posts in 1,000 pieces, and treefern in 1,000 cubic feet.
 Source: U.S. Department of Agriculture, Pacific Southwest Forest and Range Experiment Station, *Forest Products Harvested in Hawaii—1969*, Research Note PSW-239 (1971), p.2.

Table 185.—COMMERCIAL FISHING: 1928 TO 1971

Year ended June 30	Fishermen	Fishing boats	Commercial fish landings	
			Pounds	Value (dollars)
1928	1,530	949	11,727,803	1,410,089
1929	1,488	790	8,633,169	1,215,796
1930	1,557	923	9,252,926	1,076,452
1931	1,534	814	10,262,442	849,593
1932	1,860	974	8,874,831	955,492
1933	1,991	976	11,392,570	792,357
1934	2,105	909	13,605,200	861,883
1935	2,078	881	10,898,617	901,630
1936	2,966	1,021	10,952,576	899,557
1937 ¹	2,670	999	19,175,509	1,501,273
1938 ¹	2,898	995	15,504,453	1,291,485
1939 ¹	3,123	995	14,261,445	1,209,778
1940 ¹	2,573	857	19,403,249	1,468,688
1941 ¹	2,648	778	8,224,805	1,037,101
1942 ¹	1,353	233	572,918	182,750
1943 ¹	1,941	341	2,124,949	568,980
1944	2,539	503	2,806,551	724,383
1945	2,431	561	3,591,965	994,836
1946	3,396	757	9,990,572	2,621,820
1947	3,532	803	11,151,445	3,556,445
1948	2,998	1,035	14,243,229	4,171,409
1949	3,111	845	15,368,223	4,172,425
1950	3,110	800	14,904,681	3,547,608
1951	2,478	759	19,219,884	3,963,614
1952	2,124	584	15,827,771	3,561,395
1953	2,035	612	17,399,338	3,766,012
1954	1,924	619	18,878,208	3,655,579
1955	1,858	572	19,245,366	3,575,254
1956	1,662	625	15,171,714	3,070,359
1957	1,444	529	14,927,110	3,041,598
1958	1,245	533	10,568,761	2,512,121
1959	1,112	508	13,178,933	2,841,168
1960	1,022	437	14,266,795	2,994,033
1961	941	443	13,730,912	2,898,380
1962	940	423	13,931,171	2,873,274
1963	808	366	10,879,389	2,566,045
1964	805	373	12,099,123	2,738,323
1965	717	387	17,192,431	3,355,553
1966	715	365	15,987,978	3,319,917
1967	801	397	12,354,658	3,147,566
1968	760	387	12,829,326	3,253,622
1969	1,028	509	11,096,116	3,378,553
1970	1,264	670	9,786,726	3,584,936
1971	1,373	738	15,176,525	4,633,877

¹Year ended December 31.

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, records.

Table 186.—COMMERCIAL FISH LANDINGS, BY SPECIES AND ISLAND: 1971
(Year ended June 30)

Island and species	Pounds	Value (dollars)	Value per pound (cents)
Total landings	15,176,525	4,633,877	30.5
ISLAND			
Hawaii	1,143,966	437,589	38.3
Maui	1,161,475	229,905	19.8
Lanai	6,179	2,897	46.9
Molokai	9,628	4,366	45.3
Oahu	12,495,869	3,826,445	30.6
Kauai	359,408	132,675	36.9
SPECIES ¹			
Sea catch, total	15,159,262	4,624,112	30.5
Aku (Skipjack)	11,449,345	2,309,990	20.2
Ahi (Yellowfin)	773,314	504,557	65.2
Akule	608,472	236,555	38.9
Ahi (Bigeye)	377,839	438,105	116.0
Pacific Blue Marlin	240,888	79,952	33.2
Stripe Marlin	238,271	153,883	64.6
Hahalalu	237,213	103,541	43.6
Opelu	200,924	117,115	58.3
Kahala	77,807	32,854	42.2
Mahimahi	76,596	54,780	71.5
Ulua	64,922	35,232	54.3
Opakapaka	63,132	50,174	79.5
Crab (Kona)	43,576	56,902	130.6
Ulaula Koae (Onaga)	39,744	61,143	153.8
Other species	667,219	389,329	58.4
Pond catch, total	17,263	9,765	56.6

¹Shown separately for all species over 50,000 pounds or \$50,000.

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, *Commercial Fish Landings, for Fiscal Year—July, 1970 through June, 1971.*

Table 187.—MINERAL OPERATIONS: 1909 TO 1971

Kind of operation and year	Establishments	Employees	Payroll (\$1,000)	Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
Mineral industries only:						
1958	20	421	1,724	4,550	5,847	704
1963	44	315	1,658	4,909	6,525	520
1967	12	200	1,600	5,000	5,500	1,800
Including operations in mfrs:						
1909	6	43	14	16	21	(NA)
1919	5	151	95	202	251	(NA)
1954	13	171	598	1,266	1,778	193
1958	24	445	1,820	4,887	6,207	704
1963	49	339	1,758	5,677	7,462	520
1967	18	(W)	(W)	(W)	(W)	(W)
	Value of mineral production (\$1,000)				Quantity produced	
Year	Total	Cement	Stone	Other	Cement (1,000 376-lb. barrels)	Stone (1,000 short tons)
1968	23,225	9,254	11,273	2,649	1,841	5,211
1969	29,539	10,544	16,059	2,936	2,075	6,534
1970	28,965	10,334	15,538	3,093	2,162	6,332
1971 (prel.)	28,166	10,143	14,910	3,113	2,016	5,952

W Withheld to avoid disclosing figures for individual companies.

NA Not available.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1963*, MIC 63(2)-10, table 1, and *Census of Mineral Industries, 1967*, MIC67(2)-10, table 1; U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1970," *Mineral Industry Surveys*, December 1970, and "The Mineral Industry of Hawaii in 1971," *Mineral Industry Surveys*, December 27, 1971.