

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: 1972*, Sections 24, 25, and 26.

**Table 222.—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 223.—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 224.—COMMERCIAL FISHING: 1928 TO 1972

Year ¹	Fishing boats	Fishermen	Commercial fish landings	
			Pounds	Value (dollars)
1928	949	1,530	11,727,803	1,410,089
1930	923	1,557	9,252,926	1,076,452
1935	881	2,078	10,898,617	901,630
1940 ¹	857	2,573	19,403,249	1,468,688
1945	561	2,431	3,591,965	994,836
1950	800	3,110	14,904,681	3,547,608
1955	572	1,858	19,245,366	3,575,254
1960	437	1,022	14,266,795	2,994,033
1961	443	941	13,730,912	2,898,380
1962	423	940	13,931,171	2,873,274
1963	366	808	10,879,389	2,566,045
1964	373	805	12,099,123	2,738,323
1965	387	717	17,192,431	3,355,553
1966	365	715	15,987,978	3,319,917
1967	397	801	12,354,658	3,147,566
1968	387	760	12,829,326	3,253,622
1969	509	1,028	11,096,116	3,378,553
1970	670	1,264	9,786,726	3,584,936
1971	738	1,373	15,176,525	4,633,877
1972	(NA)	1,544	15,577,302	5,536,385

NA Not available.

¹Years ended June 30, 1928 to 1935 and 1945 to 1972; calendar year 1940.

Source: Hawaii State Department of Land and Natural Resources, *Report to the Governor, 1971-1972*, pp. 43-44, and records.

**Table 225.—COMMERCIAL FISH LANDINGS, BY SPECIES AND ISLAND:
JULY 1, 1971 TO JUNE 30, 1972**

Island and species	Pounds caught	Value (dollars)	Value per pound (cents)
Total landings	15,577,302	5,536,385	35.5
ISLAND			
Hawaii	1,328,624	603,476	45.4
Maui	1,344,565	304,529	22.6
Lanai	8,530	4,161	48.8
Molokai	18,643	11,263	60.4
Oahu	12,561,985	4,483,349	35.7
Kauai	314,955	129,607	41.2
SPECIES¹			
Sea catch, total	15,563,349	5,528,467	35.5
Aku (Skipjack)	11,490,729	2,735,187	23.8
Ahi (Yellowfin)	884,043	564,694	63.9
Ahi (Bigeye)	566,513	672,456	118.7
Akule	455,555	209,577	46.0
Hahalalu	354,243	164,499	46.4
Stripe Marlin	236,518	148,111	62.6
Opelu	220,528	136,474	61.9
Mahimahi	192,757	114,232	59.3
Opakapaka	121,772	100,839	82.8
Pacific Blue Marlin ²	80,645	854	1.1
Crab (Kona)	69,331	93,609	135.0
Kahala	63,307	26,973	42.6
Ulaula Koae (Onaga)	59,124	91,189	154.2
Ulua	57,478	32,136	55.9
Uku	54,697	35,257	64.5
Other species	656,109	402,380	61.3
Pond catch, total	13,953	7,918	56.7

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

²Because of widely publicized danger from mercury contamination, only a small part of the total catch was sold.

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, *Commercial Fish Landings, for Fiscal Year—July, 1971 through June, 1972* (September 1972).

Table 226.—MINERAL OPERATIONS: 1909 TO 1972

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	(D)	(D)	(D)	(D)	(D)
	Value of mineral production (\$1,000)				Quantity produced (1,000 short tons)	
Year	Total	Cement	Stone	Other	Cement	Stone
1968	23,225	9,254	11,273	2,649	346	5,211
1969	29,539	10,544	16,059	2,936	390	6,534
1970	28,965	10,334	15,538	3,093	407	6,332
1971	28,108	10,627	14,441	3,040	386	6,059
1972 (prel.)	28,834	11,233	14,506	3,095	393	6,270

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1963*, MIC63(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," *Mineral Industry Surveys*, (annual preliminary and advance summary reports).