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Section 20

FORESTRY, FISHERIES, AND MINING

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

Important sources of data on these subjects are the *United States Census of Mineral Industries* and *Mineral Industry Surveys*, U.S. Census Bureau's *2022 Economic Census*, U.S. Census Bureau *Geographic Area Series*, Mining, and reports and records of the Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources and Division of Forestry and Wildlife. *Historical Statistics of Hawaii*, Section 14, summarizes the data for earlier periods.

**Table 20.01-- FOREST AND NATURAL AREA ACREAGE, BY ISLAND:
JUNE 30, 2024**

Island	Conservation district forest land		Natural areas	
	Forest reserve land 1/	Private forest land 2/	Number of areas	Acres
State total	670,226	227,479	23	127,578
Hawaii	457,918	100,800	9	97,232
Maui	68,118	30,099	5	19,653
Kahoolawe	-	-	-	-
Lanai	-	6,952	-	-
Molokai	12,327	23,573	2	3,003
Oahu	45,518	26,168	5	2,514
Kauai	86,345	39,887	2	5,176
Niihau	-	-	-	-

1/ State-owned and privately-owned lands under surrender agreement in forest reserve system.

2/ Private forest land within conservation district. The majority of these lands were previously in the forest reserve system. The alien forest classification was excluded starting in 2018. Maui Island removed the alien forest classification in 2020. Therefore, data after 2018 may not be comparable to previous years.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife records.

Table 20.02-- WOODLAND ON FARMS 2012, 2017, 2022, AND BY COUNTY, 2022

[Acres]

Use	2012	2017	2022				
			State total	Hawaii	Honolulu	Kauai	Maui
Total	92,734	88,813	87,099	51,717	4,587	7,721	23,074
Pastured	23,766	18,797	17,857	11,278	2,014	90	4,475
Not pastured	68,968	70,016	69,242	40,439	2,573	7,631	18,599

Source: U.S. Department of Agriculture, *2017 Census of Agriculture, Hawaii*, (April 2019) p. 229. *2022 Census of Agriculture, Hawaii*, (February 2024) p. 233 <<https://www.nass.usda.gov/AgCensus/>> accessed April 23, 2024.

**Table 20.03-- FOREST AND BRUSHLAND FIRES, BY CAUSE OF FIRE:
2020 TO 2023**

[Components may not sum to total due to rounding]

Cause of fire	Number of fires				Acres burned			
	2020	2021	2022	2023	2020	2021	2022	2023
State total	7	13	19	14	5,275	46,045	19,533	6,037
Lightning	-	1	1	1	-	(2/)	1	1,500
Campfire	2	2	2	-	4,303	5	3	-
Smoking	-	1	-	-	-	250	-	-
Debris burning	-	-	1	1	-	-	(2/)	30
Arson	-	-	2	-	-	-	(2/)	-
Equipment	-	1	2	2	-	43,026	16,802	2,882
Railroads	-	-	-	-	-	-	-	-
Children	-	-	-	-	-	-	-	-
Miscellaneous	5	8	11	10	972	2,763	2,728	1,625

1/ Components may not sum to total due to rounding.

2/ Rounds down to zero.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, Fire Management Program, records.

Table 20.04-- COMMERCIAL FISHING: 2003 TO 2024

[Fiscal year ending June 30. Represents the total sea catches of all licensed commercial fishermen. Excludes pond catches. The Aquaculture and Development Program, Department of Agriculture, surveys pond-harvest market information. Information is collected from a fish-dealer reporting system. Only total pounds landed reported by commercial fishermen is available]

Year	Number of commercial fishermen	Pounds landed of commercial fish
2003	3,310	24,758,321
2004	3,244	23,301,663
2005	3,062	30,580,972
2006	3,187	28,904,852
2007	3,090	29,529,632
2008	3,177	34,503,241
2009	3,179	28,961,235
2010	3,486	29,791,203
2011	3,337	32,418,627
2012	3,662	31,179,051
2013	3,972	32,518,856
2014	3,921	34,736,450
2015	3,885	37,048,277
2016	3,759	37,531,011
2017	3,720	36,246,690
2018	3,685	37,499,036
2019	3,500	34,594,544
2020	3,429	30,460,726
2021	3,146	29,109,892
2022	3,175	1/ 28,645,643
2023	3,206	1/ 28,823,959
2024	3,131	24,030,430

1/ Revised from previous *Data Book*.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings for Fiscal Year* (annual); and records.

Table 20.05-- COMMERCIAL FISH CATCH, BY SPECIES: 2021 TO 2024

[Fiscal year ending June 30. Measured in pounds landed, excludes pond catches]

Species	2021	2022	2023	2024
Total catch	29,109,892	1/ 28,645,643	1/ 28,823,959	24,030,430
Tunas	21,849,994	1/ 21,541,333	1/ 21,155,810	18,226,749
Aku (Skipjack)	624,287	1/ 412,284	1/ 397,434	381,592
Tombo	205,066	1/ 415,454	1/ 355,219	784,450
Bigeye (Ahi)	15,053,213	1/ 14,388,688	1/ 13,499,302	10,342,327
Yellowfin (Ahi)	5,961,583	1/ 6,318,509	1/ 6,896,550	6,710,436
Billfishes	3,456,168	1/ 3,695,228	1/ 4,244,612	2,790,480
Blue marlin	1,184,744	1/ 1,210,062	1/ 1,181,232	792,641
Shortnose spearfish	289,288	1/ 278,138	1/ 364,541	365,725
Striped marlin	656,221	523,288	1/ 668,021	401,270
Swordfish	1,301,237	1/ 1,649,654	1/ 1,996,824	1,194,777
Miscellaneous pelagic species	2,856,646	1/ 2,513,754	1/ 2,422,275	2,215,105
Mahimahi	678,660	1/ 679,953	1/ 843,412	810,961
Monchong	419,259	1/ 397,207	1/ 365,477	278,707
Ono	1,015,147	1/ 858,262	1/ 739,636	831,210
Opah	609,683	406,864	326,127	230,075
Walu	130,463	167,206	1/ 146,106	63,077
Deep bottom fishes	272,729	1/ 297,003	1/ 337,548	230,344
Ehu	28,418	1/ 30,588	1/ 27,561	14,942
Hapuupuu	4,045	1/ 4,193	1/ 3,680	3,179
Opakapaka	57,160	1/ 81,950	1/ 98,684	72,386
Uku	54,655	1/ 55,572	1/ 52,762	36,510
Ulaula (Onaga)	43,255	1/ 47,687	1/ 48,222	34,640
Akule/Opelu	357,070	1/ 326,612	1/ 334,322	292,491
Akule	279,387	1/ 231,854	1/ 261,673	187,408
Opelu	71,841	1/ 85,216	1/ 63,495	104,358
Jacks	20,260	1/ 14,834	1/ 20,526	11,768
Inshore fishes	238,999	1/ 197,769	1/ 235,477	199,544
Sharks	4,989	5,290	4,381	2,037
Mako	1,656	2,540	736	920
Lobsters	2,308	1/ 1,862	1/ 1,931	3,087
Crabs	11,591	1/ 18,247	1/ 22,624	13,468
Shells	(NA)	(NA)	(NA)	(NA)
Shrimps	(1/)	3,741	22,027	(2/)
Seaweeds	1,137	1/ 2,500	1/ 2,390	2,646
Unclassified / miscellaneous	38,001	1/ 29,970	1/ 22,426	45,357

NA Not available.

1/ Revised from previous *Data book*.

2/ Withheld to preserve confidentiality; low level of fishermen reporting.

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

Table 20.06-- COMMERCIAL SEA LANDINGS, BY ISLAND: 2021 TO 2024

[Fiscal year ending June 30. Measured in pounds landed]

Island	2021	2022	2023	2024
State total	29,109,892	1/ 28,645,643	1/ 28,823,959	24,030,430
Hawaii	1,792,760	1/ 1,880,074	1/ 1,904,996	1,492,055
Maui	386,230	1/ 474,104	1/ 467,072	368,273
Lanai	5,849	1/ 5,937	5,695	4,923
Molokai	11,281	1/ 14,708	1/ 33,914	26,225
Oahu	26,429,801	1/ 25,713,498	1/ 25,858,341	21,722,991
Kauai and Niihau	483,972	1/ 557,322	1/ 553,941	415,962

1/ Revised from previous *Data book*.

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

**Table 20.07-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD:
2021 TO 2024**

[Fiscal year ending June 30. Measured in pounds landed]

Fishing method	2021	2022	2023	2024
All methods	29,109,892	1/ 28,645,643	1/ 28,823,959	24,030,430
Aku pole and line	(2/)	(2/)	(2/)	(2/)
Longline	25,380,601	24,597,315	24,632,387	20,751,075
Handline	1,532,865	1/ 1,644,387	1/ 1,951,590	1,288,877
Trolling	1,595,467	1/ 1,886,159	1/ 1,621,467	1,484,173
Net	367,908	1/ 311,716	1/ 361,311	300,091
Trap	32,954	1/ 36,109	1/ 53,062	45,886
All other methods	200,098	1/ 169,958	1/ 204,142	160,327

1/ Revised from previous *Data book*.

2/ Due to low level of fishermen reporting and to preserve confidentiality, data are combined with "All other methods."

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

Table 20.08-- MINERAL INDUSTRIES (NAICS 21): 1992 TO 2022

[Includes establishments with payroll. Statistics in 1992 are based on the Standard Industrial Classification (SIC) system used in the Economic Census. Statistics in 1997 and on are based on the North American Industry Classification System (NAICS) which replaced the SIC system]

Subject	1992	1997	2002	2007	2012	2017	2022
Number of establishments	7	7	8	8	7	(D)	(D)
With 20 employees or more	4	2	1	4	1	(D)	(D)
All employees							
Number (1,000) 1/	0.2	0.1	0.1	0.2	(2/)	(2/)	(2/)
Annual payroll (million dollars)	9.4	5.6	7.3	9.6	(D)	(D)	(D)
Production, development, and exploration workers							
Number (1,000) 1/	0.2	0.1	0.1	0.1	(D)	(D)	(D)
Annual hours (millions)	0.4	0.2	0.2	0.3	(D)	(D)	0.3
Annual wages (million dollars)	8.1	4.7	5.1	7.9	(D)	(D)	(D)
Value added (million dollars)	27.3	22.0	20.7	49.0	(D)	(D)	(D)
Total cost of supplies (million dollars)	11.3	(D)	6.6	12.9	(D)	(D)	(D)
Total value of shipments and receipts for services (million dollars)	33.7	33.3	25.6	55.4	(D)	(D)	(D)
Capital expenditures (million dollars)	4.8	(D)	1.7	6.4	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

1/ For pay period including March 12.

2/ 100 to 249 employees.

Source: U.S. Census Bureau, *1992 Census of Mineral Industries, Geographic Area Series, Pacific States*, MIC92-A-9 (May 1996), Hawaii table 1; *1997 Economic Census, Mining, Geographic Area Series, Hawaii*, EC97N21A-HI (May 2000), table 1; *2002 Economic Census, Mining, Geographic Area Series, Hawaii*, EC02-21A-HI (April 2005), table 1; 2007 Economic Census, Sector 21: EC0721A2: *Mining: Geographic Area Series: Detailed Statistics for the State or Offshore Areas: 2007*; 2012 Economic Census, Sector 21: EC1221A2: *Mining: Geographic Area Series: Detailed Statistics for the State or Offshore Areas: 2012*; 2017 Economic Census, Table ECNTYPE2017 <<https://data.census.gov/>> accessed October 21, 2020; and 2022 Economic Census, Table ECNBASIC2022 <data.census.gov> accessed June 12, 2025.

Table 20.09-- NONFUEL MINERAL PRODUCTION: 2015 TO 2023

[Production as measured by mine shipments, sales, or marketable production (including consumption by producers). Data are rounded to no more than three significant digits; may not add to totals shown]

Minerals	2015	2016	2017	2018	2019	2020	2021	2022	2023
Quantity (1,000 metric tons)									
Gemstones	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sand and gravel, construction	459	357	1/ 173	1/ 120	131	112	158	293	68
Stone, crushed	5,150	5,260	5,070	4,680	5,770	5,880	5,850	5,570	626
Value (\$1,000)									
Total	111,403	112,789	116,352	111,050	128,753	143,999	143,052	152,500	169,000
Gemstones	103	69	12	12	12	(NA)	(NA)	(NA)	(NA)
Sand and gravel, construction	10,300	7,720	1/ 5,340	1/ 4,050	4,650	2,930	4,040	9,500	22,200
Stone, crushed	101,000	105,000	111,000	107,000	124,000	141,000	139,000	143,000	147,000

NA Not available.

1/ Revised from previous *Data Book*.

Source: U.S. Geological Survey, *2019 Minerals Yearbook*, Statistical Summary [Table-Release only] (April 2023) <<https://www.usgs.gov/centers/nmic/statistical-summary>> accessed June 17, 2024; and USGS, *Aggregates Time Series Data by State, Type, and End Use* (April 2024) <<https://www.usgs.gov/media/files/usgs-aggregates-time-series-data-state-type-and-end-use>> accessed June 17, 2025.

Table 20.10--CRUSHED STONE SOLD OR USED: 2015 TO 2023

[Quantity, value, and unit value totals are a result of calculations based on all crushed stone sold or used in the state. Components may not add to total because of rounding]

Type	2015	2016	2017	2018	2019	2020	2021	2022	2023
Quantity (1,000 metric tons)	5,150	5,260	5,070	4,680	5,770	5,880	5,850	5,570	6,260
Traprock	4,760	4,780	4,600	4,210	5,470	5,370	5,460	5,160	5,380
Volcanic cinder and scoria	32	35	44	39	28	23	108	98	(NA)
Miscellaneous stone	356	443	425	429	275	401	281	315	(NA)
Value (\$1,000)	101,000	105,000	111,000	107,000	124,000	141,000	139,000	143,000	147,000
Traprock	93,800	95,800	101,000	97,400	117,000	128,000	128,000	131,000	125,000
Volcanic cinder and scoria	628	676	932	840	650	614	2,920	2,560	(NA)
Miscellaneous stone	6,810	8,490	8,500	8,530	6,450	10,900	7,640	9,420	(NA)
Unit value (dollars)	19.66	19.95	21.83	22.81	21.50	24.01	23.76	25.59	23.41
Traprock	19.71	20.03	22.00	23.12	21.39	23.82	23.52	25.31	23.27
Volcanic cinder and scoria	19.63	19.48	21.26	21.83	23.15	27.12	27.06	26.27	(NA)
Miscellaneous stone	19.13	19.17	20.02	19.89	23.42	27.05	27.21	29.89	(NA)

NA Not available.

Source: USGS, *Aggregates Time Series Data by State, Type, and End Use* (April 2025) <<https://www.usgs.gov/media/files/usgs-aggregates-time-series-data-state-type-and-end-use>> accessed June 9, 2025.