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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, 2007 Economic Census, 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. Comparable national statistics are reported in the Statistical Abstract of the United States: 2012, Sections 18.

Table 20.01-- FOREST AND NATURAL AREA ACREAGE, BY ISLAND:JUNE 30, 2011

	Conservation dis	strict forest land	Natural areas		
Island	Forest reserve land 1/	Private forest land 2/	Number of areas	Acres	
State total	642,388	328,742	20	123,432	
Hawaii	444,155	106,745	8	94,954	
Maui	68,220	53,180	5	18,543	
Kahoolawe	-	-	-	-	
anai	-	6,150	-	-	
Molokai	11,690	-	2	2,950	
Jahu	32,136	88,817	3	1,770	
Kauai	86,187	73,850	2	5,215	
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.

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

Table 20.02-- WOODLAND ON FARMS, 1997, 2002, AND 2007, AND BY COUNTY, 2007

[Acres]

			2007						
Use	1997	2002	State total	Hawaii	Honolulu	Kauai	Maui		
Total	108,704	117,685	79,041	46,137	5,646	5,660	21,598		
Pastured Not pastured	31,844 76,860	41,467 76,218	22,570 56,471	12,791 33,346	(D) (D)	103 5,557	(D) (D)		

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Department of Agriculture, 2002 Census of Agriculture, Hawaii, (June 2004), p. 195. 2007 Census of Agriculture, Hawaii, (February 2009), p. 240.

	Number of Fires				Acres burned	i
Cause of Fire	2009	2010	2011	2009	2010	2011
State total	8	11	2	8,079.1	3,521.9	1,228.0
Lightning Campfire Smoking Debris burning	- - -	1 2 - 2	- - -		900.0 2.1 - -	- - -
Arson Equipment Railroads Children Miscellaneous	- - - 8	2 - - 6	- 1 - 1	- - - 8,079.1	1,487.0 - - 1,132.8	1,153.0 - - 75.0

Table 20.03-- FOREST AND BRUSHLAND FIRES, BY CAUSE OF FIRE:2009 TO 2011

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, Fire Management Program, *Annual Wildfire Summary Report* http://www.wildahinet.com/fmp/firedata.htm accessed May 10, 2012 and records.

Table 20.04-- COMMERCIAL FISHING: 2003 TO 2011

[Fiscal year ending June 30. Represents the total sea catches of all licensed commercial fishers. Excludes pond catches, The Aquaculture and Development Program, Department of Agriculture, surveys pond harvest market information]

	Commercial fish catch					
Number of commercial fishermen	Pounds landed	Pounds sold	Value to primary producers (dollars)			
3.434	24.054.939	(1/)	(1/)			
	22,230,489	• •	(1/)			
3,248	24,876,316	· · ·	(1/)			
3,137	24,636,892		(1/)			
3,220	26,563,127	(1/)	(1/)			
3,196	33,310,542	(1/)	(1/)			
3,557	28,065,282	(1/)	(1/)			
3,373	29,164,222	(1/)	(1/)			
3,691	31,455,425	(1/)	(1/)			
	commercial fishermen 3,434 2,971 3,248 3,137 3,220 3,196 3,557 3,373	Number of commercial fishermenPounds landed3,43424,054,9392,97122,230,4893,24824,876,3163,13724,636,8923,22026,563,1273,19633,310,5423,55728,065,2823,37329,164,222	Number of commercial fishermen Pounds landed Pounds sold 3,434 24,054,939 (1/) 2,971 22,230,489 (1/) 3,248 24,876,316 (1/) 3,137 24,636,892 (1/) 3,220 26,563,127 (1/) 3,196 33,310,542 (1/) 3,557 28,065,282 (1/) 3,373 29,164,222 (1/)			

1/ Due to revisions to the commercial fishing report forms in October 2002, licensed commercial fishers no longer report ex-vessel landing values. The latter information is collected from a fish dealer reporting system. The Division of Aquatic Resources is developing an application to integrate the fishing and fish dealer reporting systems to summarize landings with ex-vessel landing value information. Therefore, only total landings reported by commercial fishers are available at this time.

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: 2009 TO 2011

Species	2009	2010	2011
Total catch	28,065,282	29,164,222	31,455,425
Tunas	15,528,812	17,066,495	18,801,218
Aku (skipjack)	1,034,769	842,972	439,044
Tombo	491,422	982,317	1,213,205
Bigeye (ahi)	11,164,105	12,293,460	13,766,508
Yellowfin (ahi)	2,818,856	2,910,195	3,371,689
Billfishes	6,176,962	4,913,195	5,062,601
Blue marlin	1,164,743	1,060,700	1,021,614
Shortnose spearfish	274,264	242,253	502,072
Striped marlin	794,885	406,315	774,696
Swordfish	3,920,161	3,173,909	2,725,657
Miscellaneous pelagic species	4,459,253	5,209,892	5,510,850
Mahimahi	952,326	1,469,554	2,001,806
Monchong	675,165	621,885	454,445
Ono	740,747	725,930	781,064
Opah	1,576,650	1,808,524	1,596,252
Walu	492,139	563,637	631,777
Deep bottom fishes	491,348	396,800	474,381
Ehu	27,551	24,882	24,522
Нариирии	23,434	11,110	8,212
Opakapaka	146,302	109,557	147,096
Uku	124,545	125,142	126,294
Ulaula (onaga)	85,488	59,408	67,755
Akule/opelu	622,556	724,968	738,696
Akule	316,555	408,846	452,710
Opelu	305,982	316,074	282,068
Jacks	43,324	43,035	46,046
Inshore fishes	304,680	396,073	470,252
Sharks	312,163	259,992	214,001
Mako	236,311	207,366	167,119
Lobsters	18,467	23,182	11,640
Crabs	43,142	54,636	41,522
Shells	(NA)	(NA)	(NA)
Shrimps	(1/)	(1/)	(1/)
Seaweeds	7,684	12,028	13,573
Unclassified / miscellaneous	56,891	63,926	70,645

[Fiscal year ending June 30, pounds landed, excludes pond catches. Due to revisions to the commercial fishing report forms in 2002, data may not be comparable to previous years]

1/ Due to low level of fishermen reporting and to preserve confidentiality, data for these species are pooled under miscellaneous.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii–Fiscal Years 2009-2011* and records.

Table 20.06-- COMMERCIAL SEA LANDINGS, BY ISLAND: 2009 TO 2011

Island	2009	2010	2011
State total	28,065,282	29,164,222	31,455,425
Hawaii	2,266,356	2,867,404	2,674,953
Maui	680,341	679,976	734,809
Lanai	19,135	13,634	13,108
Molokai	43,434	34,119	39,497
Oahu	24,410,059	24,774,566	27,232,594
Kauai and Niihau	645,957	794,523	760,464

[Fiscal year ending June 30, pounds landed]

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

Table 20.07-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD:2009 TO 2011

Fishing method	2009	2010	2011	
All methods	28,065,282	29,164,222	31,455,425	
Aku pole and line	646,795	(1/)	(1/)	
Longline	21,819,806	22,369,598	24,795,513	
Handline	1,710,456	2,096,754	2,127,947	
Trolling	2,864,895	2,989,823	2,853,215	
Net	508,328	603,915	649,912	
Trap	58,601	82,978	89,234	
All other methods	456,401	1,021,154	939,604	

[Fiscal year ending June 30, pounds landed]

1/ Due to low level of fishermen reporting and to preserve confidentiality, data for these species are pooled under all other methods.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 2009-2011* and records.

Table 20.08-- MINERAL INDUSTRIES (NAICS 21): 1982 TO 2007

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

Subject	1982	1987	1992	1997	2002	2007
Number of establishments With 20 employees or more	12 4	9 4	7 4	7 2	8 1	8 4
All employees Number (1,000) 1/ Annual payroll (million dollars)	0.2 3.8	0.2 7.4	0.2 9.4	0.1 5.6	0.1 7.3	0.2 9.6
Production, development, and exploration workers Number (1,000) 1/ Annual hours (millions) Annual wages (million dollars)	0.1 0.2 2.6	0.2 0.4 5.7	0.2 0.4 8.1	0.1 0.2 4.7	0.1 0.2 5.1	0.1 0.3 7.9
Value added (million dollars)	9.7	23.5	27.3	22.0	20.7	49.0
Total cost of supplies (million dollars)	5.9	10.4	11.3	(D)	6.6	12.9
Total value of shipments and receipts for services (million dollars)	12.8	31.1	33.7	33.3	25.6	55.4
Capital expenditures (million dollars)	2.7	2.8	4.8	(D)	1.7	6.4

D Withheld to avoid disclosing data for individual companies.

1/ For pay period including March 12.

Source: U.S. Census Bureau, *1987 Census of Mineral Industries, Geographic Area Series, Pacific States,* MIC87-A-9 (October 1990), Hawaii table 1; *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 (May 2005), table 1; 2007 Economic Census, Sector 21: EC0721A2: Mining: Geographic Area Series: Detailed Statistics for the State or Offshore Areas: 2007 <http://factfinder.census.gov/servlet/IBQTable?_bm=y&-geo_id=04000US15&-fds_name=EC0700A1&-ds_ name=EC0721A2&-_lang=en> accessed May 26, 2010.

Table 20.09-- NONFUEL MINERAL PRODUCTION: 2006 TO 2008

[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	2006	2007	2008
QUANTITY (1,000 METRIC TONS)			
Gemstones Sand and gravel (construction) Stone (crushed)	(NA) 1,230 1/ 8,980	(NA) 1,570 8,800	(NA) 1,410 7,540
VALUE (\$1,000)			
Total	1/ 154,000	161,000	162,000
Gemstones Sand and gravel (construction) Stone (crushed)	107 15,900 1/ 138,000	151 20,400 141,000	151 25,600 136,000

NA Not available.

1/ Revised from previous Data Book.

Source: U.S. Geological Survey, Minerals Information, "2008 Minerals Yearbook, Hawaii 2008 [Advance Release]" (February 2011) http://minerals.er.usgs.gov/minerals/pubs/state/hi.html accessed June 6, 2011.