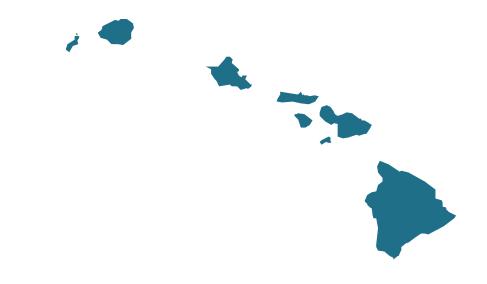
Western Pacific

- Hawai'i



Western Pacific Regional Summary

Management Context

The Western Pacific Region includes the state of Hawai'i¹. Federal fisheries in this region are managed by the Western Pacific Fishery Management Council (WPFMC) and NOAA Fisheries (NMFS) under five fishery ecosystem plans (FEPs). Fishery ecosystem plans manage marine resources from a place-based perspective rather than managing fishing activities in terms of targeted species. These FEPs replaced the Council's existing fishery management plans (FMPs) for Bottomfish and Seamount Groundfish, Coral Reef Ecosystems, Crustaceans, and Precious Corals.

Western Pacific Fishery Ecosystem Plans

- 1. American Samoa Archipelago
- 2. Hawai'i Archipelago
- 3. Mariana Archipelago
- 4. Pacific Remote Island Area
- 5. Pacific Pelagics

Of the stocks covered in these fishery ecosystem plans, the Hancock Seamount Groundfish Complex is currently considered overfished. This fishery has been closed since 1986. Bigeye tuna is currently subject to overfishing and this status is considered to be primarily due to international fishing pressure. The U.S. harvested 6% (14 million pounds) of the Pacific-wide (western-central and eastern Pacific Ocean) total of Pacific bigeye tuna landings reported in 2010. Currently, there are no catch share programs in place in this region.

In addition to management oversight provided by the WPFMC and NOAA Fisheries, pelagic fish species such as bigeye and yellowfin tunas are also managed by two regional fishery management organizations (RFMOs). The Western and Central Pacific Fisheries Commission (WCPFC) is active in the western and central Pacific Ocean and the Inter-American Tropical Tuna Commission (IATTC) is active in the eastern Pacific Ocean. Species under the purview of the WCPFC and IATTC migrate across international boundaries and require coordinated management between countries with fishing interests in the Pacific Ocean.

The annual bigeye tuna catch limit recommended by WCPFC for the U.S. longline fleet in the Western and Central Pacific Ocean is 8.3 million pounds. NMFS responded to the measure by establishing a quota of 8.3 million pounds of bigeye tuna that may be caught in the Western and Central Pacific Ocean and retained by U.S. longline vessels beginning in 2009. The fishery was closely monitored during the year. The quota in the Western Pacific ocean was reached toward the end of the year and, therefore, the Hawai'i longline fishery was only closed for three days in 2009. In the meantime, the harvest limit established by the IATTC for the U.S. longline fleet in eastern tropical Pacific

bigeye tuna is 1.1 million pounds. However, this quota is only applied to U.S. longline vessels greater than 78.7 feet in length, all other vessels are not bound by any catch limit in the Eastern tropical Pacific. 2

Commercial Fisheries

Fishermen in Hawai'i earned \$84 million from their commercial harvest in 2010, landing over 28 million pounds of finfish and shellfish. Tunas comprised 71% of this landings revenue (\$60 million) as well as 60% of total landings (17 million pounds). Swordfish (\$7.3 million), mahimahi (\$3.3 million), moonfish (\$2.6 million), and marlin (\$1.8 million) also contributed to landings revenue. Lobsters commanded the highest ex-vessel price in 2010, with an average annual price of \$12.36 per pound.

Key Western Pacific Commercial Species

- Lobsters
- Scad
- Mahimahi
- Snappers
- Marlin
- Swordfish
- Moonfish
- Tunas
- Pomfret
- Wahoo

Economic Impacts³

In 2010, the Western Pacific's seafood industry generated \$664 million in sales impacts, \$201 million in income impacts, and approximately 8,200 full- and part-time jobs. Importers contributed the most to sales (40% of the total), while the retail sector contributed the most to employment impacts (41%), income impacts (37%), and valued added impacts (33%). In contrast, the retail sector contributed most to income (37%) and employment impacts (41% of total jobs) with \$74 million in income and 3,400 jobs. The commercial harvest sector generated 2,900 jobs, \$146 million in sales, \$53 million in income, and \$77 million in value added impacts.

Landings Revenue

Landings revenue for finfish and shellfish totaled over \$84 million in 2010, a 75% increase from total revenue generated in 2001. When adjusted for inflation, real landings revenues increased 35%. Landings revenue in 2010 increased 18% (13% increase in real terms) from the 2009 level (\$71 million). Finfish and other catch contributed nearly 100% of total revenue in 2010 (\$84 million), a 75% increase from 2001 (36% increase in real terms). Revenue earned from shellfish landings decreased 29% (a 45% decrease in real terms) from \$241,000 in 2001 to \$172,000 in 2010. Landings revenue in 2010 was dominated by tunas which contributed \$60 million or 71% of total landings revenue. On average, tunas contributed 69% to total revenue over the 10 year time period. The largest increases in landings revenue from 2001 to 2010 were for swordfish (439% or 317% in real terms) and pomfret (301% or 211% in real terms).

¹The Western Pacific Region also includes the U.S. territories of American Samoa, Guam, and the Commonwealth of the Northern Mariana Islands. However, due to data availability, only information from Hawai'i is reported here.

²Under the Tuna Conventions Act of 1950 (64 Stat. 777) as amended (16 U.S.C., 951-961), NMFS must publish regulations that carry out IATTC recommendations and resolutions that have been approved by the Department of State.

³The NMFS Commercial Fishing Industry Input/Output Model was used to generate the impact estimates (see NMFS Commercial Fishing & Seafood Industry Input/Output Model, available at: www.st.nmfs.noaa.gov/documents/commercial_seafood_impacts_2007-2009.pdf)

Regional Summary Western Pacific

Landings

In 2010, Hawai'ian commercial fishermen landed 28 million pounds of finfish and shellfish, a 20% increase from 2001 landings totals. This was a 4.3% increase compared to landings in 2009 (27 million pounds). Finfish and other catch accounted for nearly 100% of total landings annually. Shellfish landings decreased 8.6% from 24,000 pounds landed in 2001 to 22,000 pounds in 2010 and also decreased 0% from 2009 to 2010.

Commercial Fisheries Facts

Landings revenue

- On average, the key species or species groups account for 96% of total revenue, (\$81 million) generated in the Western Pacific Region.
- Tunas contributed more than any other species or species group, averaging \$46 million in landings revenue from 2001 to 2010.
- Swordfish had the largest one-year increase in landings revenue over the 10 year time period, increasing 534% from \$1.2 million in 2004 to \$7.8 million in 2005.
- Swordfish had the largest one-year decrease in landings revenue over the 10 year time period, decreasing 50% from \$1.4 million in 2002 to \$691,000 in 2003.

Landings

- Key species or species groups contributed an average of 94% annually to total landings between 2001 and 2010.
- Tunas, contributed the most to landings in the region, averaging 16 million pounds from 2001 to 2010.
- Swordfish had the largest one-year increase in landings over the 10 year time period, increasing 561% from 520,000 in 2004 pounds to 3.4 million pounds in 2005.
- Swordfish had the largest one-year decrease in landings over the 10 year time period, decreasing 56% from 703,000 pounds in 2002 to 306,000 pounds in 2003.

Prices

- <u>Lobsters</u> had the highest average annual ex-vessel price per pound (\$11.76) over the time period, followed by snappers (\$4.43), and tunas (\$2.88).
- Marlin had the lowest average annual ex-vessel price per pound (\$1.20) over the time period, followed by moonfish (\$1.54), and pomfret (\$2.05).
- Marlin had the largest one-year increase in ex-vessel price over the 10 year time period, increasing 58% from \$0.85 per pound in 2003 to \$1.34 in 2004.
- Marlin had the largest decrease in ex-vessel price over the 10 year time period, decreasing 37% from \$1.34 per pound in 2002 to \$0.85 in 2003.

Tunas contributed more to the Western Pacific's total landings than any other species or group with 16.7 million pounds landed in 2010. This was a 9.3% increase from 2001 total landings of tunas (15.3 million pounds). Swordfish followed with 3.2 million pounds landed in 2010. Swordfish landings experienced dramatic changes from 2001 to 2010. From 2000 to 2001, landings

decreased 91% from 6.4 million pounds to 559,000 pounds when the Hawai'i longline fishery was largely closed to protect sea turtles. A few years later (2004-2005), landings increased 561% from 520,000 pounds to 3.4 million pounds. Swordfish landings between 2001 and 2004 averaged approximately a half million pounds, while in between 2005 and 2010 the average was 3 million pounds.

Prices

Overall, the 2010 ex-vessel price for eight of the key species or species groups were above their ten year average annual price. Mahimahi (dolphin) had a lower price per pound (\$2.17) in 2010 relative to its annual average (\$2.28) over the time period, the price per pound for moonfish was \$1.42, which was \$0.12 less than the ten year average, and the ex-vessel price for swordfish in 2010 was \$0.171 more than the ten year average. Relative to ex-vessel prices in 2009, swordfish (23%) experienced a double digit increase in 2010. Double digit decreases between 2009 and 2010 occurred in , and declining %, and % respectively. In real terms, lobsters, mahimahi, scad, and NA experienced declines in ex-vessel prices between 2009 and 2010.

Recreational Fisheries

In 2010, there were 475,000 recreational anglers who fished in the state of Hawai'i. These anglers took 2.4 million fishing trips and of these, 80% were shore-based trips. Scads (bigeye and mackerel) was the most caught species group with 840,000 fish caught in 2010. Almost all of these fish were harvested by anglers rather than released. The most released species or species group was trevallys and other jacks (47%). All others were harvested at least 81% of the time in 2010.

Economic Impacts and Expenditures¹

In 2010, approximately 7,200 jobs in the Western Pacific were generated by recreational fishing activities and over \$780 million was spent by anglers who fished in the region. Most of these employment impacts were generated by industries that provided services to anglers who fished from shore (1,149) or a private boat (388). These fishing trip modes also generated the most in trip-related expenditures: \$85 million for shore-based fishing trips (67% of total trip expenditures) and \$35 million for private boat trips (27% of total trip expenditures). Only 7.3% of total trip-related expenditures in the Western Pacific came from non-resident anglers.

In addition to employment impacts generated by recreational fishing activities, other economic impacts include sales impacts and the contribution of recreational fishing activities to gross domestic product (value added impacts). For-hire fishing trips generated \$9.4 million in sales impacts (6.4% of total trip-related sales) and \$5.2 million in value added impacts (6.7% of total trip-related value added impacts) in 2010. Private boat trips contributed \$41 million in sales (28%) and \$21 million (27%) in value added impacts. Shore-based fishing trips contributed \$98 million in trip-related sales (66%) and \$52 million in trip-related value added impacts (66%).

¹Expenditures and economic impacts from recreational fishing activities were generated using the NMFS Recreational Economic Impact Model (see Marine Angler Expenditures in the United States, 2006, available at: http://www.st.nmfs.noaa.gov/st5/publication/AnglerExpenditureReport/AnglerExpendituresReport_ALL.pdf)

Western Pacific Regional Summary

Anglers spent almost \$653 million on durable equipment in 2010, contributing 84% to total expenditures in the region (trip and durable equipment combined). Fishermen spent more on fishing tackle (\$253 million) than any other durable good. Expenditures related to other equipment (\$148 million), vehicle expenses (\$145 million), and boat expenses (\$79 million) followed in size of expenditures.

Economic impacts from durable equipment expenditures in 2010 include almost 5,600 jobs, \$652 million in sales impacts, and \$316 million in value added impacts.

Key Western Pacific Recreational Species

- Blue marlin
- Dolphinfish
- Goatfishes
- Trevallys and other jacks
- Bigeye and mackerel scad
- Skipjack tuna
- Smallmouth bonefish
- Snappers
- Wahoo
- Yellowfin tuna

Participation¹

In 2010, there were 475,000 recreational anglers who fished in Hawai'i. This was an 7.8% increase from 2003 (440,000 anglers) and a 93% increase from 2009 (246,000 anglers). In 2010, non-resident anglers made up 62% of total anglers (293,000 anglers). There was a 63% increase in non-resident anglers from 2003 (180,000 anglers) and a 177% increase from 2009 (106,000 anglers). In terms of resident anglers, there were 182,000 resident anglers who fished in Hawai'i in 2010, which was a 30% decrease from 2003 and a 30% increase from 2009.

Fishing Trips¹

Anglers who fished in Hawai'i took approximately 2.39 million fishing trips in 2010. This was a 0.5% decrease from the 2.4 million fishing trips taken in 2003. From 2009 to 2010, there was a 11% increase in the number of trips taken (2.2 million trips) in 2009.

Harvest and Release¹

Of Hawai'i's key species and species groups, bigeye and mackerel scad, snappers, and yellowfin tuna were most frequently caught by recreational fishermen. In 2010, 840,000 bigeye and mackerel scad, 365,000 snappers, and 303,000 yellowfin tuna were caught by anglers in Hawai'i. Blue marlin (100% harvested), dolphinfish (100%), and yellowfin tuna (100%) were more often harvested than released, while trevallys and other jacks were released more often (47%) than any of the other key species or species groups.

Recreational Fishing Facts

Participation

- An average of 372,000 anglers fished in the Western Pacific annually from 2003 to 2010.
- In 2010, in-state residents made up 38% of total anglers in this region. These anglers averaged 52% of total anglers annually over the eight year time period.

Fishing trips

- In the Western Pacific, an average of <u>2.5 million fishing</u> trips were taken annually from 2003 to <u>2010</u>.
- Private or rental boat and shore-based accounted for 484,000 and 1.9 million fishing trips, respectively in 2010.

Harvest and release

- The bigeye and mackerel scad species group was the most commonly caught key species or species group, averaging 890,000 fish caught over the 10 year time period. Of these, 0.23% were released rather than harvested.
- Of the ten commonly caught key species or species groups none were released more often than harvested over this time period. The species or species group that was most commonly released was trevallys and other jacks (42% released).
- Species or species groups that were harvested 100% of the time included wahoo, dolphinfish, and bigeye and mackerel scad
- Between 2009 and 2010, snappers experienced the largest annual increase in catch (113%), and goatfishes had the largest decrease (60%).

Between 2003 and 2010 four of Hawai'i's key species or groups experienced increases in catch totals: smallmouth bonefish (133%), yellowfin tuna (61%), dolphinfish (49%), and snappers (47%). Over the same time period, the largest decreases were experienced by: blue marlin (67%), goatfishes (64%), and wahoo (61%).

In the short term, the largest increases in catch were experienced by snappers (113%) and smallmouth bonefish (74%) from 2009 to 2010. Decreases over the same time period occurred in four of the species or species groups, the largest of which were experienced by goatfishes (60%) and blue marlin (60%).

Marine Economy²

In 2009, over 32,000 establishments employed approximately 488,000 full- and part-time employees in Hawai'i. Annual payroll totaled \$18 billion, employee compensation totaled \$37 billion, and gross product by state totaled \$65 billion. Gross state product, annual payroll, and employee compensation increased 54%, 40%, and 51%, respectively between 2001 and 2009. The commercial fishing location quotient (CFLQ) for Hawai'i was 5.26. Between 2002 and 2009 the CFLQ for Hawai'i decreased 28% from 7.26 to 5.26. Despite these declines, Hawai'i's level of commercial fishing-related employment was still greater than the national

 $^{^{1}\}mbox{Due}$ to data availability, the time period 2003 to max(years) is discussed in this section

²Information for 2009 is reported in this section; 2010 data were not available for this report.

 $^{^{1}}$ The CFLQ for the U.S. is 1.0. This provides a national baseline from which state CFLQs can be compared.

Regional Summary Western Pacific

baseline. 1

Seafood Sales and Processing

There were seven nonemployer firms engaged in seafood product preparation and packaging in 2009. Annual receipts for this industry increased 209% from \$231,000 in 2001 to \$713,000 in 2009 (a 149% increase in real terms). The number of employer establishments engaged in this industry decreased to one establishment in 2009. Employee and annual payroll totals were not available. In 2009, there were 38 seafood wholesale establishments that employed 538 full- and part-time workers with an annual payroll of \$19 million. The number of employees decreased 34% and the annual payroll increased 10% (a 12% decrease in real terms) from 2001 to 2009. Similarly to employment, the number of establishments decreased 25%.

Nonemployer firms involved in seafood retailremained unchanged between 2001 and 2009 with34 firms. Annual receipt totals

increased 43% (a 15% increase in real terms) to \$3.6 million in 2009. Similarly, employer establishments involved in this industry decreased 7.4% to 25 in 2009. These establishments employed 158 workers with an annual payroll of \$3.6 million. Employee and annual payroll numbers also decreased

Transport, Support, and Marine Operations

Data were largely unavailable for the transport, support, and marine operations sector. According to the available information, the marine cargo handling had the highest numbers of establishments in 2009 (11 establishments). The marine cargo handling sector had the largest payroll (\$88 million) and the largest number of employees was also in the marine cargo handling sector (1,075). The largest increase in number of establishments between 2001 and 2009 was in the navigational services to shipping sector (120%) and the greatest decrease occurred in the coastal and Great Lakes freight transportation sector (55%).

Hawaii Commercial Fisheries

2010 Economic Impacts of the Hawaii Seafood Industry (thousands of dollars)

,											
		With Imports		Without Imports							
	Jobs	Sales	Value Added	Jobs	Sales	Value Added					
Total Impacts	8,206	664,361	295,289	6,221	334,187	179,740					
Commercial Harvesters	2,945	146,365	76,733	2,945	146,365	76,733					
Seafood Processors & Dealers	484	42,094	21,490	342	29,693	15,159					
Importers	962	264,561	80,650	0	0	0					
Seafood Wholesalers & Distributors	460	43,320	20,212	259	24,340	11,357					
Retail	3,355	168,021	96,204	2,676	133,788	76,492					

Total Landings Revenue and Landings Revenue of Key Species/Species Groups (thousands of dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Total revenue	48,080	52,384	52,755	57,679	71,040	66,120	75,705	85,120	71,168	84,023
Finfish & other	47,839	52,078	52,493	57,274	70,677	66,013	75,531	84,753	70,985	83,851
Shellfish	241	306	262	406	364	106	174	367	183	172
Lobsters	98	122	68	91	111	61	93	120	136	116
Mahimahi (dolphin)	2,262	2,630	2,940	4,909	3,597	3,640	3,482	3,182	2,850	3,300
Marlin	2,139	2,010	1,986	2,472	2,512	2,558	2,028	2,072	2,141	1,756
Moonfish (opah)	999	1,219	1,509	1,343	1,897	1,873	2,170	2,197	2,408	2,591
Pomfret	386	675	777	1,316	1,440	1,311	1,460	1,665	1,379	1,549
Scad	882	1,067	1,105	944	839	1,020	1,099	896	555	1,251
Snappers	1,965	2,009	2,035	2,201	2,005	1,756	1,680	1,710	1,844	1,637
Swordfish	1,354	1,371	691	1,225	7,768	5,125	7,726	7,176	7,334	7,302
Tunas	34,491	37,598	37,381	38,484	46,071	44,085	51,148	60,874	47,674	59,756
Wahoo	1,657	1,452	1,919	2,201	2,253	2,329	2,087	2,235	1,672	1,745

Total Landings and Landings of Key Species/Species Groups (thousands of pounds)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Total landings	23,484	23,968	23,740	24,456	28,140	25,659	28,938	30,682	26,906	28,069
Finfish & other	23,460	23,937	23,711	24,426	28,113	25,644	28,916	30,653	26,884	28,047
Shellfish	24	31	28	31	26	15	22	29	22	22
Lobsters	8	10	6	8	10	6	8	10	11	9
Mahimahi (dolphin)	1,245	1,376	1,326	2,225	1,440	1,342	1,388	1,252	1,287	1,518
Marlin	2,220	1,497	2,337	1,844	2,190	2,389	1,376	1,951	1,678	1,220
Moonfish (opah)	765	912	1,095	786	1,086	1,071	1,226	1,313	1,884	1,824
Pomfret	272	490	459	766	646	576	593	672	627	593
Scad	505	571	630	478	398	442	463	320	205	460
Snappers	526	499	501	508	436	377	376	376	386	314
Swordfish	559	703	306	520	3,439	2,514	3,643	3,835	3,881	3,153
Tunas	15,288	15,871	14,421	14,965	16,118	14,631	17,589	18,303	14,589	16,704
Wahoo	906	660	990	852	818	891	715	853	605	600

Average Annual Price of Key Species/Species Groups (dollars per pound)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Lobsters	12.61	12.66	11.88	11.08	10.99	9.66	11.84	12.14	12.37	12.36
Mahimahi (dolphin)	1.82	1.91	2.22	2.21	2.50	2.71	2.51	2.54	2.21	2.17
Marlin	0.96	1.34	0.85	1.34	1.15	1.07	1.47	1.06	1.28	1.44
Moonfish (opah)	1.31	1.34	1.38	1.71	1.75	1.75	1.77	1.67	1.28	1.42
Pomfret	1.42	1.38	1.69	1.72	2.23	2.28	2.46	2.48	2.20	2.61
Scad	1.75	1.87	1.75	1.97	2.11	2.30	2.37	2.80	2.71	2.72
Snappers	3.73	4.02	4.06	4.33	4.59	4.64	4.44	4.54	4.78	5.20
Swordfish	2.42	1.95	2.26	2.36	2.26	2.04	2.12	1.87	1.89	2.32
Tunas	2.26	2.37	2.59	2.57	2.86	3.01	2.91	3.33	3.27	3.58
Wahoo	1.83	2.20	1.94	2.58	2.75	2.61	2.92	2.62	2.76	2.91

2010 Economic Impacts of Recreational Fishing Expenditures (thousands of dollars)

	Jobs	Sales	Income	Value Added
Trip Impacts by Fishing Mode:				
For-Hire	98	9,432	3,053	5,186
Private Boat	388	40,917	12,304	20,923
Shore	1,149	98,158	32,305	51,819
Total Durable Equipment Impacts	5,609	651,859	215,231	315,686
Total State Trip and Durable Equipment Economic Impacts	7,244	800,366	262,893	393,613

2010 Angler Trip & Durable Expenditures (thousands of dollars)

Fishing Mode	Trip Expen	ditures	Equipment	Durable Expenditures
	Non-Residents	Residents	Fishing Tackle	253,372
For-Hire	6,820	29	Other Equipment	148,474
Private Boat	838	34,006	Boat Expenses	78,731
Shore	1,626	83,868	Vehicle Expenses	145,194
Total Trip Expenditures	9,284	117,903	Second Home Expenses	27,202
			Total Durable Equipment Expenditures	652,972
Total State Trip and Dura	ble Equipment Exp	enditures		780,159

Recreational Anglers by Residential Area (thousands of anglers)¹

	2001	2002	2002	2004	2005	2006	2007	2000	2000	2010
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Coastal			261	223	204	173	170	192	140	182
Non-Coastal			NA^2	NA^1						
Out of State			180	183	166	224	146	137	106	293
Total Anglers			440	407	370	396	317	329	246	475

Recreational Fishing Effort by Mode (thousands of angler-trips)^{1,3}

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Private			509	709	578	570	475	564	441	484
Shore			1,893	2,162	1,892	2,074	2,102	1,966	1,722	1,907
Total Trips			2,402	2,871	2,470	2,644	2,577	2,531	2,163	2,390

Harvest (H) and Release (R) of Key Species Species Groups (thousands of fish)^{1,4}

		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Blue marlin	Н	1		4	5	19	3	2	11	3	1
Diue mariin	R	(1)		(1)	(1)	(1)	(1)	1	(1)	(1)	(1)
Dolphinfish	Н	4		109	225	178	219	136	184	103	164
(mahimahi)	R	(1)		1	(1)	1	(1)	(1)	(1)	(1)	(1)
$Goatfishes^5$	Н	25		794	715	447	813	298	468	713	270
Goathshes	R	7		10	17	8	16	9	6	7	18
Jacks (trevallys	Н	15		125	331	257	210	169	277	123	140
and other jacks $)^6$	R	(1)		171	146	182	210	130	120	85	126
Scads (bigeye and	Н	21		1,951	179	726	812	1,089	402	1,102	840
mackerel)	R	(1)		2	(1)	14	(1)	(1)	(1)	(1)	(1)
Skipjack tuna	Н	24		440	420	302	201	228	568	230	289
Skipjack tulia	R	(1)		1	6	1	1	5	2	(1)	(1)
Smallmouth	Н	1		25	61	25	63	20	50	37	55
bonefish	R	(1)		4	9	12	2	13	4	2	13
Snappers ⁷	Н	13		233	236	223	177	104	138	147	340
Shappers	R	14		16	19	57	36	40	7	24	25
Wahoo	Н	1		105	97	54	62	57	78	61	41
vvailoo	R	(1)		(1)	(1)	(1)	(1)	1	(1)	(1)	(1)
Yellowfin tuna	Н	2		184	268	231	124	273	461	198	302
i enowini tuna	R	(1)		5	(1)	9	1	2	(1)	1	1

¹Participation (number of anglers), effort (number of trips), and catch (number of fish harvested or released) data were not available for 2001 and 2002.

 $^{^2\}mathrm{NA}=\mathrm{not}$ applicable because all Hawaii residents are considered coastal county residents

³Effort data (number of trips) for for-hire boat trips were not available and effort data were not available for 2001 or 2002.

⁴In this table, '(1)' = 0.999 thousand fish and '1' = 1,000-1,499 thousand fish.

⁵Goatfishes include yellowstripe, yellowfin, pfulgers, bandtail, doublebar, diespot, whitesaddle, manybar, blue, and 'Goastfish famil/genus'

⁶Trevallys & other jacks includes bluefin trevally, giant trevally, bigeye trevally, black trevally, African pompano, greater amberjack, island jack, and other species in the jack family.

⁷Snappers include bluestip, blacktail, ruby, longtailed, pink, VonSiebolds, Binghams, green jobfish, ironjaw, and smalltooth jobfish.

Hawaii's State Economy (% of national total)

	Establishments	Employees	Annual Payroll (million \$)	Employee Compensation (million \$)	Gross State Product (million \$)	Commercial Location Quotient
2001	30,175 (0.43%)	441,856 (0.38%)	12,684 (0.32%)	24,655 (0.41%)	42,401 (0.41%)	ND^{23}
2009	32,372 (0.44%)	488,403 (0.43%)	17,743 (0.37%)	37,217 (0.47%)	65,428 (0.48%)	5.26
% change	7.28%	10.5%	39.9%	51%	54.3%	

Seafood Sales & Processing - Nonemployer Firms (thousands of dollars)

		2001	2002	2003	2004	2005	2006	2007	2008	2009
Seafood product	Firms	7	7	9	11	5	11	10	9	7
prep. & packaging	Receipts	231	1,566	1,034	1,309	409	1,011	1,023	1,020	713
Seafood Sales,	Firms	34	0	36	33	29	31	41	37	34
retail	Receipts	2,497	ND^2	4,753	2,875	3,487	3,627	4,353	4,394	3,559

Seafood Sales & Processing - Employer Establishments (thousands of dollars)

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		2001	2002	2003	2004	2005	2006	2007	2008	2009
Seafood product prep. & packaging	Establishments	3	4	4	4	3	3	1	1	1
	Employees	ND^2	86	ND^2						
prep. & packaging	Payroll	ND^2	2,584	ND^2						
Seafood sales,	Establishments	51	44	33	36	32	33	36	37	38
wholesale	Employees	812	525	654	404	485	462	550	695	538
Wilolesale	Payroll	17,656	15,203	12,653	13,949	15,163	16,786	18,932	20,665	19,347
Seafood sales,	Establishments	27	29	31	31	29	27	25	25	25
retail	Employees	235	229	317	321	326	315	393	173	158
retaii	Payroll	3,773	3,737	5,187	5,038	5,007	5,564	7,209	3,674	3,559

Transport, Support, & Marine Operations - Employer Establishments (thousands of dollars)

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Coastal & Great Lakes freight transportation	Establishments	11	11	10	11	13	13	11	5	5
	Employees	463	ND^2	ND^2	ND^2	ND^2	543	557	478	475
	Payroll	25,782	ND^2	ND^2	ND^2	ND^2	36,941	36,635	34,544	34,367
Deep sea freight transportation	Establishments	2	2	1	NA^4	NA^3	NA^3	NA^3	1	NA^3
	Employees	ND^2	ND^2	ND^2	NA^3	NA^3	NA^3	NA^3	ND^2	NA^3
	Payroll	ND^2	ND^2	ND^2	NA^3	NA^3	NA^3	NA^3	ND^2	NA^3
Deep sea passenger transportation	Establishments	1	1	1	1	2	2	1	1	1
	Employees	ND^2								
	Payroll	ND^2								
Marinas	Establishments	7	8	11	11	10	9	11	9	10
	Employees	ND^2	56	177	178	181	152	167	156	164
	Payroll	ND^2	1,414	3,285	3,439	3,354	3,719	4,151	4,317	4,368
Marine cargo handling	Establishments	6	7	8	8	8	7	8	11	11
	Employees	426	756	ND^2	ND^2	694	ND^2	1,048	1,098	1,075
	Payroll	24,920	49,975	ND^2	ND^2	53,061	ND^2	87,770	89,104	87,833
Navigational services to shipping	Establishments	5	7	7	6	6	6	8	11	11
	Employees	103	ND^2	ND^2	ND^2	ND^2	ND^2	ND^2	105	120
	Payroll	5,926	ND^2	ND^2	ND^2	ND^2	ND^2	3,340	5,846	5,258
Port & harbor operations	Establishments	2	2	2	2	2	2	2	4	3
	Employees	ND^2								
	Payroll	ND^2	3,218	2,031						
Ship & boat building	Establishments	17	16	14	17	16	14	13	14	13
	Employees	ND^2	ND^2	480	589	ND^2	545	ND^2	ND^2	ND^2
	Payroll	ND^2	ND^2	22,053	20,908	ND^2	23,134	ND^2	ND^2	ND^2

 $^{^{1}}$ The U.S. Commercial Fishing Location Quotient (CFLQ) of 1.0 represents the national baseline from which state CFLQs can be compared.

 $^{^2\}mathrm{ND} = \mathrm{these} \ \mathrm{data} \ \mathrm{are} \ \mathrm{confidential} \ \mathrm{thus} \ \mathrm{not} \ \mathrm{disclosable}$

 $^{{}^3\}mathrm{ND} = \mathrm{these}$ data are confidential thus not disclosable

 $^{{}^4{\}rm NA}={\rm these}$ data are not available