

**The Hawaii - California Pelagic Longline Vessels
Quarterly Report
1 October–31 December 2022¹**

Fisheries Research and Monitoring Division (FRMD)
Pacific Islands Fisheries Science Center (PIFSC), NOAA Fisheries
NOAA Inouye Regional Center
1845 Wasp Boulevard, Building 176, Honolulu, HI 96818

The Hawaii - California pelagic longline logbook report for the fourth quarter of 2022 (1 October–31 December; PIFSC 2023) contains summary data of fishing effort and catch statistics as reported from electronic or paper longline log sheets submitted by Hawaii and California-based pelagic longline fishers. Catch and effort statistics are based on date of longline haul. Vessel and trips statistics can cross over two summary periods (i.e., years, semi-annual or quarters) and are counted in both summary periods. For example, a trip total is for "partial and complete" trips within a time period and these statistics are not additive since partial trips are counted in the present time period when the trip began and again in the following period when the trip ended (i.e., sum of four quarters or two semi-annual reports is not the total for the year).

Catch and effort summaries in this report were based on RFMO standards and business rules. Longline catch and effort statistics in this report consists of U.S. longline fisheries in the North Pacific Ocean, attributions from CNMI, Guam and American Samoa in the North Pacific Ocean. Longline vessels operating from California were also included in this report to satisfy RFMO data reporting and NOAA confidentiality standards.

Tables 1-5 show fishery statistics for the stated time period, area, and shallow sets (<15 hooks between floats) or deep sets (≥ 15 hooks between floats). The longline effort includes number of vessels, trips, sets, and hooks set. Fish species were organized into pelagic management unit species (PMUS) groups of billfish, shark, tuna and other PMUS. Each table includes the number of fish caught, kept and released. The catch per unit effort (CPUE) is measured as the number of fish caught per 1000 hooks.

References:

Pacific Islands Fisheries Science Center, 2023: Hawaii Longline Logbook,
<https://www.fisheries.noaa.gov/inport/item/2721>

Southwest Fisheries Science Center, 2023: California Pelagic Longline Fishery,
<https://www.fisheries.noaa.gov/inport/item/12906>

¹Data reported by fishers in electronic and paper logs were queried for the fourth quarter of 2022 (1 October–31 December) from the Pacific Islands Fishery Science Center Information Management System oracle database from table LLDS_REPORT_STATS_RFMO_HC.

Table 1. Hawaii and California-based pelagic longline vessels quarterly statistics for all fishing areas and all fishing categories (set types), including effort (number of vessels, trips, sets, and hooks set). For each listed species, organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set). Data Source: PIFSC Information Management System, Longline Logbook Data.

Report Coverage				
Time Period	1 October-31 December 2022	Number of vessels active	138	
Set Types	All sets	Number of trips (partial or completed)	467	
Fishing Area	All Areas	Number of sets	5,929	
		Number of hooks set	17,207,974	
Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	2,031	2,020	11	0.12
Striped marlin	3,486	3,414	72	0.20
Shortbill spearfish	3,534	3,493	41	0.21
Swordfish	2,384	2,323	61	0.14
Other billfishes	111	106	5	0.01
Total	11,546	11,356	190	0.67
Shark PMUS				
Blue shark	19,935	0	19,935	1.16
Mako sharks	585	5	580	0.03
Thresher sharks	1,002	4	998	0.06
Oceanic whitetip shark	74	0	74	0.00
Silky shark	44	0	44	0.00
Total	21,640	9	21,631	1.26
Tuna PMUS				
Albacore	2,400	2,380	20	0.14
Bigeye tuna	50,903	50,061	842	2.96
Yellowfin tuna	25,489	24,991	498	1.48
Bluefin tuna	6	5	1	0.00
Skipjack tuna	1,674	1,663	11	0.10
Other tunas	0	0	0	0.00
Total	80,472	79,100	1,372	4.68
Other PMUS				
Mahimahi	13,139	12,980	159	0.76
Moonfish	1,118	1,114	4	0.06
Wahoo	3,311	3,290	21	0.19
Oilfish	2,631	2,192	439	0.15
Pomfret	7,871	7,783	88	0.46
Total	28,070	27,359	711	1.63
Total PMUS	141,728	117,824	23,904	8.24
Non-PMUS Sharks	47	1	46	0.00
Total Non-PMUS	2,095	10	2,085	0.12
Total All Species	143,823	117,834	25,989	8.36

Table 2. Hawaii and California-based pelagic longline vessels quarterly statistics for fishing within the U.S. EEZ (main Hawaiian Islands, Northwestern Hawaiian Islands, or the Pacific Remote Islands, and with all fishing categories (set types), including effort (number of vessels, trips, sets, and hooks set). For each listed species, organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set). Data Source: PIFSC Information Management System, Longline Logbook Data.

Report Coverage		Number of vessels active			113
Time Period	1 October-31 December 2022	Number of trips (partial or completed)	247		
Set Types	All sets	Number of sets	1,705		
Fishing Area	Inside U.S. EEZ	Number of hooks set	4,990,997		
Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks	
PMUS					
Billfish PMUS					
Blue marlin	553	552	1	0.11	
Striped marlin	1,164	1,149	15	0.23	
Shortbill spearfish	1,025	1,014	11	0.21	
Swordfish	141	138	3	0.03	
Other billfishes	28	28	0	0.01	
Total	2,911	2,881	30	0.58	
Shark PMUS					
Blue shark	5,784	0	5,784	1.16	
Mako sharks	71	0	71	0.01	
Thresher sharks	180	1	179	0.04	
Oceanic whitetip shark	27	0	27	0.01	
Silky shark	26	0	26	0.01	
Total	6,088	1	6,087	1.22	
Tuna PMUS					
Albacore	400	400	0	0.08	
Bigeye tuna	10,543	10,463	80	2.11	
Yellowfin tuna	7,422	7,311	111	1.49	
Bluefin tuna	4	4	0	0.00	
Skipjack tuna	568	567	1	0.11	
Other tunas	0	0	0	0.00	
Total	18,937	18,745	192	3.79	
Other PMUS					
Mahimahi	3,713	3,638	75	0.74	
Moonfish	127	127	0	0.03	
Wahoo	707	706	1	0.14	
Oilfish	784	713	71	0.16	
Pomfret	1,990	1,979	11	0.40	
Total	7,321	7,163	158	1.47	
Total PMUS	35,257	28,790	6,467	7.06	
Non-PMUS Sharks	13	0	13	0.00	
Total Non-PMUS	462	3	459	0.09	
Total All Species	35,719	28,793	6,926	7.16	

Table 3. Hawaii and California-based pelagic longline vessels quarterly statistics for fishing outside the U.S. EEZ and with all fishing categories (set types), including effort (number of vessels, trips, sets, and hooks set). For each listed species, organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set). Data Source: PIFSC Information Management System, Longline Logbook Data.

Report Coverage				
Time Period	1 October-31 December 2022	Number of vessels active	137	
Set Types	All sets	Number of trips (partial or completed)	404	
Fishing Area	Outside U.S. EEZ	Number of sets	4,224	
		Number of hooks set	12,216,977	
Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	1,478	1,468	10	0.12
Striped marlin	2,322	2,265	57	0.19
Shortbill spearfish	2,509	2,479	30	0.21
Swordfish	2,243	2,185	58	0.18
Other billfishes	83	78	5	0.01
Total	8,635	8,475	160	0.71
Shark PMUS				
Blue shark	14,151	0	14,151	1.16
Mako sharks	514	5	509	0.04
Thresher sharks	822	3	819	0.07
Oceanic whitetip shark	47	0	47	0.00
Silky shark	18	0	18	0.00
Total	15,552	8	15,544	1.27
Tuna PMUS				
Albacore	2,000	1,980	20	0.16
Bigeye tuna	40,360	39,598	762	3.30
Yellowfin tuna	18,067	17,680	387	1.48
Bluefin tuna	2	1	1	0.00
Skipjack tuna	1,106	1,096	10	0.09
Other tunas	0	0	0	0.00
Total	61,535	60,355	1,180	5.04
Other PMUS				
Mahimahi	9,426	9,342	84	0.77
Moonfish	991	987	4	0.08
Wahoo	2,604	2,584	20	0.21
Oilfish	1,847	1,479	368	0.15
Pomfret	5,881	5,804	77	0.48
Total	20,749	20,196	553	1.70
Total PMUS	106,471	89,034	17,437	8.72
Non-PMUS Sharks	34	1	33	0.00
Total Non-PMUS	1,633	7	1,626	0.13
Total All Species	108,104	89,041	19,063	8.85

Table 4. Hawaii and California-based pelagic longline vessels quarterly statistics for all fishing areas and with shallow set type, including effort (number of vessels, trips, sets, and hooks set). For each listed species, organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set). Data Source: PIFSC Information Management System, Longline Logbook Data.

Report Coverage		Number of vessels active 15		
Time Period	1 October-31 December 2022			
Set Types	Shallow sets			
Fishing Area	All Areas			
Number of trips (partial or completed) 23				
Number of sets 211				
Number of hooks set 270,038				
Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	5	5	0	0.02
Striped marlin	13	11	2	0.05
Shortbill spearfish	2	2	0	0.01
Swordfish	1,767	1,724	43	6.54
Other billfishes	0	0	0	0.00
Total	1,787	1,742	45	6.62
Shark PMUS				
Blue shark	2,075	0	2,075	7.68
Mako sharks	256	0	256	0.95
Thresher sharks	2	0	2	0.01
Oceanic whitetip shark	0	0	0	0.00
Silky shark	0	0	0	0.00
Total	2,333	0	2,333	8.64
Tuna PMUS				
Albacore	914	897	17	3.38
Bigeye tuna	165	164	1	0.61
Yellowfin tuna	308	298	10	1.14
Bluefin tuna	0	0	0	0.00
Skipjack tuna	3	3	0	0.01
Other tunas	0	0	0	0.00
Total	1,390	1,362	28	5.15
Other PMUS				
Mahimahi	28	28	0	0.10
Moonfish	26	24	2	0.10
Wahoo	2	2	0	0.01
Oilfish	37	18	19	0.14
Pomfret	0	0	0	0.00
Total	93	72	21	0.34
Total PMUS	5,603	3,176	2,427	20.75
Non-PMUS Sharks	0	0	0	0.00
Total Non-PMUS	0	0	0	0.00
Total All Species	5,603	3,176	2,427	20.75

Table 5. Hawaii and California-based pelagic longline vessels quarterly statistics for all fishing areas and with deep set type, including effort (number of vessels, trips, sets, and hooks set). For each listed species, organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set). Data Source: PIFSC Information Management System, Longline Logbook Data.

Report Coverage				
Time Period	1 October-31 December 2022	Number of vessels active		138
Set Types	Deep sets	Number of trips (partial or completed)		444
Fishing Area	All Areas	Number of sets		5,718
		Number of hooks set		16,937,936
Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	2,026	2,015	11	0.12
Striped marlin	3,473	3,403	70	0.21
Shortbill spearfish	3,532	3,491	41	0.21
Swordfish	617	599	18	0.04
Other billfishes	111	106	5	0.01
Total	9,759	9,614	145	0.58
Shark PMUS				
Blue shark	17,860	0	17,860	1.05
Mako sharks	329	5	324	0.02
Thresher sharks	1,000	4	996	0.06
Oceanic whitetip shark	74	0	74	0.00
Silky shark	44	0	44	0.00
Total	19,307	9	19,298	1.14
Tuna PMUS				
Albacore	1,486	1,483	3	0.09
Bigeye tuna	50,738	49,897	841	3.00
Yellowfin tuna	25,181	24,693	488	1.49
Bluefin tuna	6	5	1	0.00
Skipjack tuna	1,671	1,660	11	0.10
Other tunas	0	0	0	0.00
Total	79,082	77,738	1,344	4.67
Other PMUS				
Mahimahi	13,111	12,952	159	0.77
Moonfish	1,092	1,090	2	0.06
Wahoo	3,309	3,288	21	0.20
Oilfish	2,594	2,174	420	0.15
Pomfret	7,871	7,783	88	0.46
Total	27,977	27,287	690	1.65
Total PMUS	136,125	114,648	21,477	8.04
Non-PMUS Sharks	47	1	46	0.00
Total Non-PMUS	2,095	10	2,085	0.12
Total All Species	138,220	114,658	23,562	8.16