

**The Hawaii - California Pelagic Longline Vessels
Semi-annual Report
1 July-31 December 2021**

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This semi-annual report for the 1 July-31 December 2021 period contains summary data of fishing effort and catch statistics as reported on longline log sheets for the Hawaii - California pelagic longline vessels. Data in this report originate from the PIFSC Information Management System (Oracle) table `LLDS_REPORT_STATS_PRELIM_HC`, representing RFMO data received as of 15 September 2022. Catch and effort statistics are based on date of longline haul. When a statistic (number of vessels, trips) involves dates of haul in two summary periods (i.e., years, semi-annual, quarters), the item is counted in both summary periods. Thus, a trip total is for “partial and completed” trips. As such, these statistics are not additive (i.e., sum of four quarters is not the total for the year).

The following tables show fishery statistics for the stated time period, area, and set type, and include 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), measured as the number of fish caught per 1000 hooks.

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. Some vessels operating in California had Hawaii limited-entry permits.

References:

Pacific Islands Fisheries Science Center, 2022: Hawaii Longline Logbook,
<https://www.fisheries.noaa.gov/inport/item/2721>

Southwest Fisheries Science Center, 2022: California Pelagic Longline Fishery,
<https://www.fisheries.noaa.gov/inport/item/12906>

Table 1. Hawaii and California-based pelagic longline vessels semi-annual 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		Number of vessels active		
Time Period	1 July-31 December 2021	144		
Set Types	All sets	863		
Fishing Area	All Areas	11,008		
		32,502,964		

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	3,224	3,189	35	0.10
Striped marlin	5,223	5,156	67	0.16
Shortbill spearfish	4,568	4,425	143	0.14
Swordfish	2,458	2,381	77	0.08
Other billfishes	470	464	6	0.01
Total	15,943	15,615	328	0.49
Shark PMUS				
Blue shark	53,259	0	53,259	1.64
Mako sharks	1,672	20	1,652	0.05
Thresher sharks	2,615	8	2,607	0.08
Oceanic whitetip shark	204	0	204	0.01
Silky shark	141	0	141	0.00
Total	57,891	28	57,863	1.78
Tuna PMUS				
Albacore	7,817	7,641	176	0.24
Bigeye tuna	85,176	83,354	1,822	2.62
Yellowfin tuna	45,646	44,033	1,613	1.40
Bluefin tuna	4	4	0	0.00
Skipjack tuna	4,037	4,004	33	0.12
Other tunas	0	0	0	0.00
Total	142,680	139,036	3,644	4.39
Other PMUS				
Mahimahi	20,215	20,031	184	0.62
Moonfish	4,310	4,306	4	0.13
Wahoo	14,814	14,750	64	0.46
Oilfish	4,954	4,070	884	0.15
Pomfret	17,310	17,049	261	0.53
Total	61,603	60,206	1,397	1.90
Total PMUS	278,117	214,885	63,232	8.56
Non-PMUS Sharks	128	0	128	0.00
Total Non-PMUS	4,377	59	4,318	0.13
Total All Species	282,494	214,944	67,550	8.69

Table 2. Hawaii and California-based pelagic longline vessels semi-annual 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		
Time Period	1 July-31 December 2021	127		
Set Types	All sets	Number of trips (partial or completed) 428		
Fishing Area	Inside U.S. EEZ	Number of sets 2,907		
		Number of hooks set 8,500,577		

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	1,048	1,039	9	0.12
Striped marlin	1,804	1,780	24	0.21
Shortbill spearfish	1,224	1,213	11	0.14
Swordfish	303	292	11	0.04
Other billfishes	109	109	0	0.01
Total	4,488	4,433	55	0.53
Shark PMUS				
Blue shark	11,818	0	11,818	1.39
Mako sharks	264	0	264	0.03
Thresher sharks	436	2	434	0.05
Oceanic whitetip shark	62	0	62	0.01
Silky shark	27	0	27	0.00
Total	12,607	2	12,605	1.48
Tuna PMUS				
Albacore	291	286	5	0.03
Bigeye tuna	17,514	16,966	548	2.06
Yellowfin tuna	12,667	12,153	514	1.49
Bluefin tuna	1	1	0	0.00
Skipjack tuna	1,205	1,193	12	0.14
Other tunas	0	0	0	0.00
Total	31,678	30,599	1,079	3.73
Other PMUS				
Mahimahi	2,903	2,857	46	0.34
Moonfish	236	236	0	0.03
Wahoo	3,135	3,127	8	0.37
Oilfish	1,585	1,337	248	0.19
Pomfret	3,663	3,588	75	0.43
Total	11,522	11,145	377	1.36
Total PMUS	60,295	46,179	14,116	7.09
Non-PMUS Sharks	29	0	29	0.00
Total Non-PMUS	1,434	35	1,399	0.17
Total All Species	61,729	46,214	15,515	7.26

Table 3. Hawaii and California-based pelagic longline vessels semi-annual 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		Number of vessels active		
Time Period	1 July-31 December 2021	143		
Set Types	All sets	723		
Fishing Area	Outside U.S. EEZ	8,101		
		24,002,387		

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	2,176	2,150	26	0.09
Striped marlin	3,419	3,376	43	0.14
Shortbill spearfish	3,344	3,212	132	0.14
Swordfish	2,155	2,089	66	0.09
Other billfishes	361	355	6	0.02
Total	11,455	11,182	273	0.48
Shark PMUS				
Blue shark	41,441	0	41,441	1.73
Mako sharks	1,408	20	1,388	0.06
Thresher sharks	2,179	6	2,173	0.09
Oceanic whitetip shark	142	0	142	0.01
Silky shark	114	0	114	0.00
Total	45,284	26	45,258	1.89
Tuna PMUS				
Albacore	7,526	7,355	171	0.31
Bigeye tuna	67,662	66,388	1,274	2.82
Yellowfin tuna	32,979	31,880	1,099	1.37
Bluefin tuna	3	3	0	0.00
Skipjack tuna	2,832	2,811	21	0.12
Other tunas	0	0	0	0.00
Total	111,002	108,437	2,565	4.62
Other PMUS				
Mahimahi	17,312	17,174	138	0.72
Moonfish	4,074	4,070	4	0.17
Wahoo	11,679	11,623	56	0.49
Oilfish	3,369	2,733	636	0.14
Pomfret	13,647	13,461	186	0.57
Total	50,081	49,061	1,020	2.09
Total PMUS	217,822	168,706	49,116	9.08
Non-PMUS Sharks	99	0	99	0.00
Total Non-PMUS	2,943	24	2,919	0.12
Total All Species	220,765	168,730	52,035	9.20

Table 4. Hawaii and California-based pelagic longline vessels semi-annual 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

Time Period 1 July-31 December 2021
 Set Types Shallow sets
 Fishing Area All Areas

Number of vessels active	6
Number of trips (partial or completed)	8
Number of sets	77
Number of hooks set	98,824

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	0	0	0	0.00
Striped marlin	13	13	0	0.13
Shortbill spearfish	1	1	0	0.01
Swordfish	798	777	21	8.07
Other billfishes	1	1	0	0.01
Total	813	792	21	8.23
Shark PMUS				
Blue shark	891	0	891	9.02
Mako sharks	214	0	214	2.17
Thresher sharks	0	0	0	0.00
Oceanic whitetip shark	0	0	0	0.00
Silky shark	0	0	0	0.00
Total	1,105	0	1,105	11.18
Tuna PMUS				
Albacore	258	258	0	2.61
Bigeye tuna	99	99	0	1.00
Yellowfin tuna	61	57	4	0.62
Bluefin tuna	0	0	0	0.00
Skipjack tuna	0	0	0	0.00
Other tunas	0	0	0	0.00
Total	418	414	4	4.23
Other PMUS				
Mahimahi	7	7	0	0.07
Moonfish	3	3	0	0.03
Wahoo	2	2	0	0.02
Oilfish	3	2	1	0.03
Pomfret	0	0	0	0.00
Total	15	14	1	0.15
Total PMUS	2,351	1,220	1,131	23.79
Non-PMUS Sharks	0	0	0	0.00
Total Non-PMUS	0	0	0	0.00
Total All Species	2,351	1,220	1,131	23.79

Table 5. Hawaii and California-based pelagic longline vessels semi-annual 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 July-31 December 2021
 Set Types Deep sets
 Fishing Area All Areas

Number of vessels active	144
Number of trips (partial or completed)	855
Number of sets	10,931
Number of hooks set	32,404,140

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	3,224	3,189	35	0.10
Striped marlin	5,210	5,143	67	0.16
Shortbill spearfish	4,567	4,424	143	0.14
Swordfish	1,660	1,604	56	0.05
Other billfishes	469	463	6	0.01
Total	15,130	14,823	307	0.47
Shark PMUS				
Blue shark	52,368	0	52,368	1.62
Mako sharks	1,458	20	1,438	0.04
Thresher sharks	2,615	8	2,607	0.08
Oceanic whitetip shark	204	0	204	0.01
Silky shark	141	0	141	0.00
Total	56,786	28	56,758	1.75
Tuna PMUS				
Albacore	7,559	7,383	176	0.23
Bigeye tuna	85,077	83,255	1,822	2.63
Yellowfin tuna	45,585	43,976	1,609	1.41
Bluefin tuna	4	4	0	0.00
Skipjack tuna	4,037	4,004	33	0.12
Other tunas	0	0	0	0.00
Total	142,262	138,622	3,640	4.39
Other PMUS				
Mahimahi	20,208	20,024	184	0.62
Moonfish	4,307	4,303	4	0.13
Wahoo	14,812	14,748	64	0.46
Oilfish	4,951	4,068	883	0.15
Pomfret	17,310	17,049	261	0.53
Total	61,588	60,192	1,396	1.90
Total PMUS	275,766	213,665	62,101	8.51
Non-PMUS Sharks	128	0	128	0.00
Total Non-PMUS	4,377	59	4,318	0.14
Total All Species	280,143	213,724	66,419	8.65