

**The Hawaii - California Longline Limited-entry Fishery
Semi-annual Report
1 July - 31 December, 2016¹**

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This semi-annual report for the period 1 July - 31 December, 2016, contains summary data summaries of fishing effort and catch statistics as reported on longline log sheets for the Hawaii - California longline limited-entry fishery. Data in this report originate from the PIFSC Information Management System (Oracle) table LLDS_REPORT_STATS_RFMO_HC, representing preliminary data received as of 15 March 2018. 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, etc.).

The following tables show fishery statistics for the stated time period, area, and set type, and includes effort (number of vessels, trips, sets, and hooks set), and 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 1,000 hooks.

¹PIFSC Data Report DR-19-014. Issued 06 March 2019
<https://doi.org/10.25923/4yw5-4q25>

Table 1. For the period 1 July - 31 December, 2016, Hawaii and California longline limited-entry fisheries semi-annual statistics for all fishing areas and all fishing categories (set types), including effort (number of vessels, trips, sets, and hooks set), and for each listed species, organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, along with the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1,000 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, 2016
Set Types All sets
Fishing Area All Areas

Number of vessels active	137
Number of trips (partial or completed)	756
Number of sets	9,669
Number of hooks set	25,425,224

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	2,702	2,679	23	0.11
Striped marlin	4,761	4,702	59	0.19
Shortbill spearfish	9,707	9,556	151	0.38
Swordfish	4,214	3,857	357	0.17
Other billfishes	511	506	5	0.02
Total	21,895	21,300	595	0.86
Shark PMUS				
Blue shark	45,476	2	45,474	1.79
Mako sharks	2,445	428	2,017	0.10
Thresher sharks	2,646	34	2,612	0.10
Oceanic whitetip shark	568	0	568	0.02
Silky shark	230	0	230	0.01
Other Sharks	447	1	446	0.02
Total	51,812	465	51,347	2.04
Tuna PMUS				
Albacore	1,344	1,341	3	0.05
Bigeye tuna	110,332	108,367	1,965	4.34
Yellowfin tuna	28,692	28,172	520	1.13
Bluefin tuna	4	4	0	0.00
Skipjack tuna	9,605	9,475	130	0.38
Other tunas	0	0	0	0.00
Total	149,977	147,359	2,618	5.90
Other PMUS				
Mahimahi	23,854	23,672	182	0.94
Moonfish	14,175	14,116	59	0.56
Wahoo	9,506	9,471	35	0.37
Oilfish	10,550	9,749	801	0.41
Pomfret	31,685	31,466	219	1.25
Total	89,770	88,474	1,296	3.53
Total PMUS	313,454	257,598	55,856	12.33
Total Non-PMUS	4,964	277	4,687	0.20
Total All Species	318,418	257,875	60,543	12.52

Table 2. For the period 1 July - 31 December, 2016, Hawaii longline limited-entry fishery semi-annual statistics for fishing within the U.S. EEZ (Main Hawaiian Islands, Northwest Hawaiian Islands, or the Pacific Remote Islands, and with all fishing categories (set types), including effort (number of vessels, trips, sets, and hooks set), and for each listed species, organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, along with the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1,000 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, 2016
Set Types All sets
Fishing Area Inside U.S. EEZ

Number of vessels active	118
Number of trips (partial or completed)	297
Number of sets	2,415
Number of hooks set	6,205,569

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	862	860	2	0.14
Striped marlin	1,536	1,532	4	0.25
Shortbill spearfish	2,747	2,708	39	0.44
Swordfish	459	361	98	0.07
Other billfishes	187	187	0	0.03
Total	5,791	5,648	143	0.93
Shark PMUS				
Blue shark	12,886	0	12,886	2.08
Mako sharks	514	70	444	0.08
Thresher sharks	423	6	417	0.07
Oceanic whitetip shark	194	0	194	0.03
Silky shark	137	0	137	0.02
Other Sharks	130	0	130	0.02
Total	14,284	76	14,208	2.30
Tuna PMUS				
Albacore	311	310	1	0.05
Bigeye tuna	23,222	22,637	585	3.74
Yellowfin tuna	8,249	8,043	206	1.33
Bluefin tuna	0	0	0	0.00
Skipjack tuna	2,353	2,302	51	0.38
Other tunas	0	0	0	0.00
Total	34,135	33,292	843	5.50
Other PMUS				
Mahimahi	5,582	5,556	26	0.90
Moonfish	1,266	1,262	4	0.20
Wahoo	1,990	1,981	9	0.32
Oilfish	2,308	2,168	140	0.37
Pomfret	7,228	7,163	65	1.16
Total	18,374	18,130	244	2.96
Total PMUS	72,584	57,146	15,438	11.70
Total Non-PMUS	334	155	179	0.05
Total All Species	72,918	57,301	15,617	11.75

Table 3. For the period 1 July - 31 December, 2016, Hawaii and California longline limited-entry fisheries 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), and for each listed species, organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, along with the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1,000 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, 2016
Set Types All sets
Fishing Area Outside U.S. EEZ

Number of vessels active	136
Number of trips (partial or completed)	659
Number of sets	7,254
Number of hooks set	19,219,655

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	1,840	1,819	21	0.10
Striped marlin	3,225	3,170	55	0.17
Shortbill spearfish	6,960	6,848	112	0.36
Swordfish	3,755	3,496	259	0.20
Other billfishes	324	319	5	0.02
Total	16,104	15,652	452	0.84
Shark PMUS				
Blue shark	32,590	2	32,588	1.70
Mako sharks	1,931	358	1,573	0.10
Thresher sharks	2,223	28	2,195	0.12
Oceanic whitetip shark	374	0	374	0.02
Silky shark	93	0	93	0.00
Other Sharks	317	1	316	0.02
Total	37,528	389	37,139	1.95
Tuna PMUS				
Albacore	1,033	1,031	2	0.05
Bigeye tuna	87,110	85,730	1,380	4.53
Yellowfin tuna	20,443	20,129	314	1.06
Bluefin tuna	4	4	0	0.00
Skipjack tuna	7,252	7,173	79	0.38
Other tunas	0	0	0	0.00
Total	115,842	114,067	1,775	6.03
Other PMUS				
Mahimahi	18,272	18,116	156	0.95
Moonfish	12,909	12,854	55	0.67
Wahoo	7,516	7,490	26	0.39
Oilfish	8,242	7,581	661	0.43
Pomfret	24,457	24,303	154	1.27
Total	71,396	70,344	1,052	3.71
Total PMUS	240,870	200,452	40,418	12.53
Total Non-PMUS	4,630	122	4,508	0.24
Total All Species	245,500	200,574	44,926	12.77

Table 4. For the period 1 July - 31 December, 2016, Hawaii and California longline limited-entry fisheries semi-annual statistics for all fishing areas and with shallow set type, including effort (number of vessels, trips, sets, and hooks set), and for each listed species, organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, along with the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1,000 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, 2016
Set Types Shallow sets
Fishing Area All Areas

Number of vessels active	8
Number of trips (partial or completed)	14
Number of sets	188
Number of hooks set	216,524

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	3	3	0	0.01
Striped marlin	75	69	6	0.35
Shortbill spearfish	13	12	1	0.06
Swordfish	2,414	2,292	122	11.15
Other billfishes	0	0	0	0.00
Total	2,505	2,376	129	11.57
Shark PMUS				
Blue shark	4,044	0	4,044	18.68
Mako sharks	254	49	205	1.17
Thresher sharks	39	1	38	0.18
Oceanic whitetip shark	3	0	3	0.01
Silky shark	0	0	0	0.00
Other Sharks	23	0	23	0.11
Total	4,363	50	4,313	20.15
Tuna PMUS				
Albacore	12	11	1	0.06
Bigeye tuna	118	86	32	0.54
Yellowfin tuna	62	56	6	0.29
Bluefin tuna	0	0	0	0.00
Skipjack tuna	3	3	0	0.01
Other tunas	0	0	0	0.00
Total	195	156	39	0.90
Other PMUS				
Mahimahi	312	312	0	1.44
Moonfish	143	120	23	0.66
Wahoo	5	5	0	0.02
Oilfish	168	84	84	0.78
Pomfret	5	4	1	0.02
Total	633	525	108	2.92
Total PMUS	7,696	3,107	4,589	35.54
Total Non-PMUS	1	0	1	0.00
Total All Species	7,697	3,107	4,590	35.55

Table 5. For the period 1 July - 31 December, 2016, Hawaii and California longline limited-entry fisheries semi-annual statistics for all fishing areas and with deep set type, including effort (number of vessels, trips, sets, and hooks set), and for each listed species, organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, along with the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1,000 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, 2016
Set Types Deep sets
Fishing Area All Areas

Number of vessels active	137
Number of trips (partial or completed)	742
Number of sets	9,481
Number of hooks set	25,208,700

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	2,699	2,676	23	0.11
Striped marlin	4,686	4,633	53	0.19
Shortbill spearfish	9,694	9,544	150	0.38
Swordfish	1,800	1,565	235	0.07
Other billfishes	511	506	5	0.02
Total	19,390	18,924	466	0.77
Shark PMUS				
Blue shark	41,432	2	41,430	1.64
Mako sharks	2,191	379	1,812	0.09
Thresher sharks	2,607	33	2,574	0.10
Oceanic whitetip shark	565	0	565	0.02
Silky shark	230	0	230	0.01
Other Sharks	424	1	423	0.02
Total	47,449	415	47,034	1.88
Tuna PMUS				
Albacore	1,332	1,330	2	0.05
Bigeye tuna	110,214	108,281	1,933	4.37
Yellowfin tuna	28,630	28,116	514	1.14
Bluefin tuna	4	4	0	0.00
Skipjack tuna	9,602	9,472	130	0.38
Other tunas	0	0	0	0.00
Total	149,782	147,203	2,579	5.94
Other PMUS				
Mahimahi	23,542	23,360	182	0.93
Moonfish	14,032	13,996	36	0.56
Wahoo	9,501	9,466	35	0.38
Oilfish	10,382	9,665	717	0.41
Pomfret	31,680	31,462	218	1.26
Total	89,137	87,949	1,188	3.54
Total PMUS	305,758	254,491	51,267	12.13
Total Non-PMUS	4,963	277	4,686	0.20
Total All Species	310,721	254,768	55,953	12.33