

**The Hawaii - California Longline Limited-entry Fishery
Semi-annual Report
1 January - 30 June, 2016¹**

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

This semi-annual report for the period 1 January - 30 June, 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-19-013. Issued 06 Mar 2019
<https://doi.org/10.25923/s6hp-e224>

Table 1. For the period 1 January - 30 June, 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 January - 30 June, 2016
 Set Types All sets
 Fishing Area All Areas

Number of vessels active	140
Number of trips (partial or completed)	827
Number of sets	10,449
Number of hooks set	26,491,335

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	3,654	3,600	54	0.14
Striped marlin	7,156	7,027	129	0.27
Shortbill spearfish	14,480	14,292	188	0.55
Swordfish	10,634	9,957	677	0.40
Other billfishes	363	357	6	0.01
Total	36,287	35,233	1,054	1.37
Shark PMUS				
Blue shark	38,012	4	38,008	1.43
Mako sharks	2,937	412	2,525	0.11
Thresher sharks	7,970	13	7,957	0.30
Oceanic whitetip shark	565	0	565	0.02
Silky shark	121	0	121	0.00
Other Sharks	517	2	515	0.02
Total	50,122	431	49,691	1.89
Tuna PMUS				
Albacore	8,568	8,550	18	0.32
Bigeye tuna	111,758	109,841	1,917	4.22
Yellowfin tuna	18,079	17,764	315	0.68
Bluefin tuna	1	0	1	0.00
Skipjack tuna	21,276	20,859	417	0.80
Other tunas	6	6	0	0.00
Total	159,688	157,020	2,668	6.03
Other PMUS				
Mahimahi	25,774	25,647	127	0.97
Moonfish	10,448	10,394	54	0.39
Wahoo	20,750	20,680	70	0.78
Oilfish	17,851	15,793	2,058	0.67
Pomfret	50,023	49,862	161	1.89
Total	124,846	122,376	2,470	4.71
Total PMUS	370,943	315,060	55,883	14.00
Total Non-PMUS	1,857	769	1,088	0.07
Total All Species	372,800	315,829	56,971	14.07

Table 2. For the period 1 January - 30 June, 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 January - 30 June, 2016
 Set Types All sets
 Fishing Area Inside U.S. EEZ

Number of vessels active	120
Number of trips (partial or completed)	409
Number of sets	2,580
Number of hooks set	6,459,819

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	1,022	1,001	21	0.16
Striped marlin	2,455	2,445	10	0.38
Shortbill spearfish	4,484	4,464	20	0.69
Swordfish	1,946	1,812	134	0.30
Other billfishes	87	87	0	0.01
Total	9,994	9,809	185	1.55
Shark PMUS				
Blue shark	8,759	0	8,759	1.36
Mako sharks	648	110	538	0.10
Thresher sharks	1,052	2	1,050	0.16
Oceanic whitetip shark	201	0	201	0.03
Silky shark	28	0	28	0.00
Other Sharks	110	0	110	0.02
Total	10,798	112	10,686	1.67
Tuna PMUS				
Albacore	1,350	1,348	2	0.21
Bigeye tuna	22,050	21,560	490	3.41
Yellowfin tuna	5,438	5,354	84	0.84
Bluefin tuna	0	0	0	0.00
Skipjack tuna	6,548	6,370	178	1.01
Other tunas	0	0	0	0.00
Total	35,386	34,632	754	5.48
Other PMUS				
Mahimahi	3,580	3,558	22	0.55
Moonfish	1,053	1,045	8	0.16
Wahoo	3,802	3,790	12	0.59
Oilfish	4,125	3,543	582	0.64
Pomfret	8,582	8,552	30	1.33
Total	21,142	20,488	654	3.27
Total PMUS	77,320	65,041	12,279	11.97
Total Non-PMUS	618	525	93	0.10
Total All Species	77,938	65,566	12,372	12.07

Table 3. For the period 1 January - 30 June, 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 January - 30 June, 2016
 Set Types All sets
 Fishing Area Outside U.S. EEZ

Number of vessels active	140
Number of trips (partial or completed)	741
Number of sets	7,869
Number of hooks set	20,031,516

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	2,632	2,599	33	0.13
Striped marlin	4,701	4,582	119	0.23
Shortbill spearfish	9,996	9,828	168	0.50
Swordfish	8,688	8,145	543	0.43
Other billfishes	276	270	6	0.01
Total	26,293	25,424	869	1.31
Shark PMUS				
Blue shark	29,253	4	29,249	1.46
Mako sharks	2,289	302	1,987	0.11
Thresher sharks	6,918	11	6,907	0.35
Oceanic whitetip shark	364	0	364	0.02
Silky shark	93	0	93	0.00
Other Sharks	407	2	405	0.02
Total	39,324	319	39,005	1.96
Tuna PMUS				
Albacore	7,218	7,202	16	0.36
Bigeye tuna	89,708	88,281	1,427	4.48
Yellowfin tuna	12,641	12,410	231	0.63
Bluefin tuna	1	0	1	0.00
Skipjack tuna	14,728	14,489	239	0.74
Other tunas	6	6	0	0.00
Total	124,302	122,388	1,914	6.21
Other PMUS				
Mahimahi	22,194	22,089	105	1.11
Moonfish	9,395	9,349	46	0.47
Wahoo	16,948	16,890	58	0.85
Oilfish	13,726	12,250	1,476	0.69
Pomfret	41,441	41,310	131	2.07
Total	103,704	101,888	1,816	5.18
Total PMUS	293,623	250,019	43,604	14.66
Total Non-PMUS	1,239	244	995	0.06
Total All Species	294,862	250,263	44,599	14.72

Table 4. For the period 1 January - 30 June, 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 January - 30 June, 2016
 Set Types Shallow sets
 Fishing Area All Areas

Number of vessels active	12
Number of trips (partial or completed)	32
Number of sets	539
Number of hooks set	569,361

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	92	88	4	0.16
Striped marlin	254	228	26	0.45
Shortbill spearfish	147	120	27	0.26
Swordfish	7,316	6,719	597	12.85
Other billfishes	7	7	0	0.01
Total	7,816	7,162	654	13.73
Shark PMUS				
Blue shark	6,830	0	6,830	12.00
Mako sharks	641	63	578	1.13
Thresher sharks	49	0	49	0.09
Oceanic whitetip shark	19	0	19	0.03
Silky shark	0	0	0	0.00
Other Sharks	34	0	34	0.06
Total	7,573	63	7,510	13.30
Tuna PMUS				
Albacore	47	45	2	0.08
Bigeye tuna	823	783	40	1.45
Yellowfin tuna	239	229	10	0.42
Bluefin tuna	0	0	0	0.00
Skipjack tuna	17	15	2	0.03
Other tunas	0	0	0	0.00
Total	1,126	1,072	54	1.98
Other PMUS				
Mahimahi	822	794	28	1.44
Moonfish	128	105	23	0.22
Wahoo	34	33	1	0.06
Oilfish	407	216	191	0.71
Pomfret	13	11	2	0.02
Total	1,404	1,159	245	2.47
Total PMUS	17,919	9,456	8,463	31.47
Total Non-PMUS	0	0	0	0.00
Total All Species	17,919	9,456	8,463	31.47

Table 5. For the period 1 January - 30 June, 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 January - 30 June, 2016
 Set Types Deep sets
 Fishing Area All Areas

Number of vessels active	139
Number of trips (partial or completed)	795
Number of sets	9,910
Number of hooks set	25,921,974

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	3,562	3,512	50	0.14
Striped marlin	6,902	6,799	103	0.27
Shortbill spearfish	14,333	14,172	161	0.55
Swordfish	3,318	3,238	80	0.13
Other billfishes	356	350	6	0.01
Total	28,471	28,071	400	1.10
Shark PMUS				
Blue shark	31,182	4	31,178	1.20
Mako sharks	2,296	349	1,947	0.09
Thresher sharks	7,921	13	7,908	0.31
Oceanic whitetip shark	546	0	546	0.02
Silky shark	121	0	121	0.00
Other Sharks	483	2	481	0.02
Total	42,549	368	42,181	1.64
Tuna PMUS				
Albacore	8,521	8,505	16	0.33
Bigeye tuna	110,935	109,058	1,877	4.28
Yellowfin tuna	17,840	17,535	305	0.69
Bluefin tuna	1	0	1	0.00
Skipjack tuna	21,259	20,844	415	0.82
Other tunas	6	6	0	0.00
Total	158,562	155,948	2,614	6.12
Other PMUS				
Mahimahi	24,952	24,853	99	0.96
Moonfish	10,320	10,289	31	0.40
Wahoo	20,716	20,647	69	0.80
Oilfish	17,444	15,577	1,867	0.67
Pomfret	50,010	49,851	159	1.93
Total	123,442	121,217	2,225	4.76
Total PMUS	353,024	305,604	47,420	13.62
Total Non-PMUS	1,857	769	1,088	0.07
Total All Species	354,881	306,373	48,508	13.69