

**The Hawaii - California Longline Limited-entry Fishery
Quarterly Report
1 July - 30 September, 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 quarterly report for the period 1 July - 30 September, 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.

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Table 1. For the period 1 July - 30 September, 2016, Hawaii and California longline limited-entry fisheries quarterly 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 - 30 September, 2016
 Set Types All sets
 Fishing Area All Areas

Number of vessels active	133
Number of trips (partial or completed)	375
Number of sets	4,289
Number of hooks set	11,256,571

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	992	982	10	0.09
Striped marlin	1,410	1,375	35	0.13
Shortbill spearfish	3,122	3,070	52	0.28
Swordfish	2,238	2,049	189	0.20
Other billfishes	239	235	4	0.02
Total	8,001	7,711	290	0.71
Shark PMUS				
Blue shark	19,193	0	19,193	1.71
Mako sharks	1,211	221	990	0.11
Thresher sharks	551	19	532	0.05
Oceanic whitetip shark	143	0	143	0.01
Silky shark	42	0	42	0.00
Other Sharks	216	0	216	0.02
Total	21,356	240	21,116	1.90
Tuna PMUS				
Albacore	1,102	1,101	1	0.10
Bigeye tuna	46,304	45,546	758	4.11
Yellowfin tuna	7,482	7,286	196	0.66
Bluefin tuna	4	4	0	0.00
Skipjack tuna	3,532	3,482	50	0.31
Other tunas	0	0	0	0.00
Total	58,424	57,419	1,005	5.19
Other PMUS				
Mahimahi	8,595	8,546	49	0.76
Moonfish	9,259	9,230	29	0.82
Wahoo	3,714	3,699	15	0.33
Oilfish	4,166	3,815	351	0.37
Pomfret	11,955	11,887	68	1.06
Total	37,689	37,177	512	3.35
Total PMUS	125,470	102,547	22,923	11.15
Total Non-PMUS	3,135	167	2,968	0.28
Total All Species	128,605	102,714	25,891	11.42

Table 2. For the period 1 July - 30 September, 2016, Hawaii longline limited-entry fishery quarterly 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 - 30 September, 2016
 Set Types All sets
 Fishing Area Inside U.S. EEZ

Number of vessels active	46
Number of trips (partial or completed)	57
Number of sets	259
Number of hooks set	662,445

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	116	115	1	0.18
Striped marlin	57	57	0	0.09
Shortbill spearfish	202	199	3	0.30
Swordfish	64	43	21	0.10
Other billfishes	42	42	0	0.06
Total	481	456	25	0.73
Shark PMUS				
Blue shark	1,468	0	1,468	2.22
Mako sharks	86	4	82	0.13
Thresher sharks	41	0	41	0.06
Oceanic whitetip shark	54	0	54	0.08
Silky shark	30	0	30	0.05
Other Sharks	11	0	11	0.02
Total	1,690	4	1,686	2.55
Tuna PMUS				
Albacore	217	217	0	0.33
Bigeye tuna	1,092	1,037	55	1.65
Yellowfin tuna	1,202	1,157	45	1.81
Bluefin tuna	0	0	0	0.00
Skipjack tuna	681	664	17	1.03
Other tunas	0	0	0	0.00
Total	3,192	3,075	117	4.82
Other PMUS				
Mahimahi	518	515	3	0.78
Moonfish	224	223	1	0.34
Wahoo	283	281	2	0.43
Oilfish	150	133	17	0.23
Pomfret	551	547	4	0.83
Total	1,726	1,699	27	2.61
Total PMUS	7,089	5,234	1,855	10.70
Total Non-PMUS	279	105	174	0.42
Total All Species	7,368	5,339	2,029	11.12

Table 3. For the period 1 July - 30 September, 2016, Hawaii and California longline limited-entry fisheries 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), 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 - 30 September, 2016
 Set Types All sets
 Fishing Area Outside U.S. EEZ

Number of vessels active	133
Number of trips (partial or completed)	354
Number of sets	4,030
Number of hooks set	10,594,126

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	876	867	9	0.08
Striped marlin	1,353	1,318	35	0.13
Shortbill spearfish	2,920	2,871	49	0.28
Swordfish	2,174	2,006	168	0.21
Other billfishes	197	193	4	0.02
Total	7,520	7,255	265	0.71
Shark PMUS				
Blue shark	17,725	0	17,725	1.67
Mako sharks	1,125	217	908	0.11
Thresher sharks	510	19	491	0.05
Oceanic whitetip shark	89	0	89	0.01
Silky shark	12	0	12	0.00
Other Sharks	205	0	205	0.02
Total	19,666	236	19,430	1.86
Tuna PMUS				
Albacore	885	884	1	0.08
Bigeye tuna	45,212	44,509	703	4.27
Yellowfin tuna	6,280	6,129	151	0.59
Bluefin tuna	4	4	0	0.00
Skipjack tuna	2,851	2,818	33	0.27
Other tunas	0	0	0	0.00
Total	55,232	54,344	888	5.21
Other PMUS				
Mahimahi	8,077	8,031	46	0.76
Moonfish	9,035	9,007	28	0.85
Wahoo	3,431	3,418	13	0.32
Oilfish	4,016	3,682	334	0.38
Pomfret	11,404	11,340	64	1.08
Total	35,963	35,478	485	3.39
Total PMUS	118,381	97,313	21,068	11.17
Total Non-PMUS	2,856	62	2,794	0.27
Total All Species	121,237	97,375	23,862	11.44

Table 4. For the period 1 July - 30 September, 2016, Hawaii and California longline limited-entry fisheries quarterly 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 - 30 September, 2016
 Set Types Shallow sets
 Fishing Area All Areas

Number of vessels active	5
Number of trips (partial or completed)	6
Number of sets	96
Number of hooks set	111,924

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	0.03
Striped marlin	70	68	2	0.63
Shortbill spearfish	12	12	0	0.11
Swordfish	1,299	1,231	68	11.61
Other billfishes	0	0	0	0.00
Total	1,384	1,314	70	12.37
Shark PMUS				
Blue shark	2,389	0	2,389	21.34
Mako sharks	51	23	28	0.46
Thresher sharks	21	1	20	0.19
Oceanic whitetip shark	3	0	3	0.03
Silky shark	0	0	0	0.00
Other Sharks	1	0	1	0.01
Total	2,465	24	2,441	22.02
Tuna PMUS				
Albacore	2	2	0	0.02
Bigeye tuna	42	21	21	0.38
Yellowfin tuna	48	47	1	0.43
Bluefin tuna	0	0	0	0.00
Skipjack tuna	2	2	0	0.02
Other tunas	0	0	0	0.00
Total	94	72	22	0.84
Other PMUS				
Mahimahi	312	312	0	2.79
Moonfish	1	1	0	0.01
Wahoo	5	5	0	0.04
Oilfish	100	59	41	0.89
Pomfret	1	0	1	0.01
Total	419	377	42	3.74
Total PMUS	4,362	1,787	2,575	38.97
Total Non-PMUS	1	0	1	0.01
Total All Species	4,363	1,787	2,576	38.98

Table 5. For the period 1 July - 30 September, 2016, Hawaii and California longline limited-entry fisheries quarterly 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 - 30 September, 2016
 Set Types Deep sets
 Fishing Area All Areas

Number of vessels active	133
Number of trips (partial or completed)	369
Number of sets	4,193
Number of hooks set	11,144,647

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
PMUS				
Billfish PMUS				
Blue marlin	989	979	10	0.09
Striped marlin	1,340	1,307	33	0.12
Shortbill spearfish	3,110	3,058	52	0.28
Swordfish	939	818	121	0.08
Other billfishes	239	235	4	0.02
Total	6,617	6,397	220	0.59
Shark PMUS				
Blue shark	16,804	0	16,804	1.51
Mako sharks	1,160	198	962	0.10
Thresher sharks	530	18	512	0.05
Oceanic whitetip shark	140	0	140	0.01
Silky shark	42	0	42	0.00
Other Sharks	215	0	215	0.02
Total	18,891	216	18,675	1.70
Tuna PMUS				
Albacore	1,100	1,099	1	0.10
Bigeye tuna	46,262	45,525	737	4.15
Yellowfin tuna	7,434	7,239	195	0.67
Bluefin tuna	4	4	0	0.00
Skipjack tuna	3,530	3,480	50	0.32
Other tunas	0	0	0	0.00
Total	58,330	57,347	983	5.23
Other PMUS				
Mahimahi	8,283	8,234	49	0.74
Moonfish	9,258	9,229	29	0.83
Wahoo	3,709	3,694	15	0.33
Oilfish	4,066	3,756	310	0.36
Pomfret	11,954	11,887	67	1.07
Total	37,270	36,800	470	3.34
Total PMUS	121,108	100,760	20,348	10.87
Total Non-PMUS	3,134	167	2,967	0.28
Total All Species	124,242	100,927	23,315	11.15