

**The Hawaii - California Longline Limited-entry Fishery  
Quarterly Report  
1 April - 30 June, 2016<sup>1</sup>**

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This quarterly report for the period 1 April - 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.

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<sup>1</sup>PIFSC Data Report DR-19-016. Issued 06 March 2019  
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**Table 1.** For the period 1 April - 30 June, 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 April - 30 June, 2016  
Set Types All sets  
Fishing Area All Areas

Number of vessels active	138
Number of trips (partial or completed)	433
Number of sets	5,120
Number of hooks set	13,089,327

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
<b>PMUS</b>				
<b>Billfish PMUS</b>				
Blue marlin	2,142	2,129	13	0.16
Striped marlin	2,721	2,641	80	0.21
Shortbill spearfish	5,850	5,753	97	0.45
Swordfish	5,207	4,888	319	0.40
Other billfishes	194	194	0	0.01
<b>Total</b>	<b>16,114</b>	<b>15,605</b>	<b>509</b>	<b>1.23</b>
<b>Shark PMUS</b>				
Blue shark	18,632	0	18,632	1.42
Mako sharks	1,452	174	1,278	0.11
Thresher sharks	3,532	10	3,522	0.27
Oceanic whitetip shark	324	0	324	0.02
Silky shark	77	0	77	0.01
Other Sharks	351	1	350	0.03
<b>Total</b>	<b>24,368</b>	<b>185</b>	<b>24,183</b>	<b>1.86</b>
<b>Tuna PMUS</b>				
Albacore	5,402	5,393	9	0.41
Bigeye tuna	49,290	48,599	691	3.77
Yellowfin tuna	5,749	5,627	122	0.44
Bluefin tuna	1	0	1	0.00
Skipjack tuna	10,568	10,304	264	0.81
Other tunas	5	5	0	0.00
<b>Total</b>	<b>71,015</b>	<b>69,928</b>	<b>1,087</b>	<b>5.43</b>
<b>Other PMUS</b>				
Mahimahi	5,074	5,044	30	0.39
Moonfish	5,324	5,306	18	0.41
Wahoo	10,284	10,255	29	0.79
Oilfish	8,177	7,153	1,024	0.62
Pomfret	24,625	24,542	83	1.88
<b>Total</b>	<b>53,484</b>	<b>52,300</b>	<b>1,184</b>	<b>4.09</b>
<b>Total PMUS</b>	<b>164,981</b>	<b>138,018</b>	<b>26,963</b>	<b>12.60</b>
<b>Total Non-PMUS</b>	<b>1,199</b>	<b>475</b>	<b>724</b>	<b>0.09</b>
<b>Total All Species</b>	<b>166,180</b>	<b>138,493</b>	<b>27,687</b>	<b>12.70</b>

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

Number of vessels active	97
Number of trips (partial or completed)	185
Number of sets	1,146
Number of hooks set	2,806,243

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
<b>PMUS</b>				
<b>Billfish PMUS</b>				
Blue marlin	588	583	5	0.21
Striped marlin	581	575	6	0.21
Shortbill spearfish	1,840	1,829	11	0.66
Swordfish	1,653	1,524	129	0.59
Other billfishes	43	43	0	0.02
<b>Total</b>	<b>4,705</b>	<b>4,554</b>	<b>151</b>	<b>1.68</b>
<b>Shark PMUS</b>				
Blue shark	4,079	0	4,079	1.45
Mako sharks	300	28	272	0.11
Thresher sharks	609	0	609	0.22
Oceanic whitetip shark	105	0	105	0.04
Silky shark	21	0	21	0.01
Other Sharks	71	0	71	0.03
<b>Total</b>	<b>5,185</b>	<b>28</b>	<b>5,157</b>	<b>1.85</b>
<b>Tuna PMUS</b>				
Albacore	865	865	0	0.31
Bigeye tuna	7,872	7,701	171	2.81
Yellowfin tuna	1,878	1,836	42	0.67
Bluefin tuna	0	0	0	0.00
Skipjack tuna	4,364	4,219	145	1.56
Other tunas	0	0	0	0.00
<b>Total</b>	<b>14,979</b>	<b>14,621</b>	<b>358</b>	<b>5.34</b>
<b>Other PMUS</b>				
Mahimahi	620	608	12	0.22
Moonfish	485	478	7	0.17
Wahoo	2,234	2,233	1	0.80
Oilfish	1,582	1,320	262	0.56
Pomfret	4,243	4,232	11	1.51
<b>Total</b>	<b>9,164</b>	<b>8,871</b>	<b>293</b>	<b>3.27</b>
<b>Total PMUS</b>	<b>34,033</b>	<b>28,074</b>	<b>5,959</b>	<b>12.13</b>
<b>Total Non-PMUS</b>	<b>324</b>	<b>321</b>	<b>3</b>	<b>0.12</b>
<b>Total All Species</b>	<b>34,357</b>	<b>28,395</b>	<b>5,962</b>	<b>12.24</b>

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

Number of vessels active	138
Number of trips (partial or completed)	400
Number of sets	3,974
Number of hooks set	10,283,084

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
<b>PMUS</b>				
<b>Billfish PMUS</b>				
Blue marlin	1,554	1,546	8	0.15
Striped marlin	2,140	2,066	74	0.21
Shortbill spearfish	4,010	3,924	86	0.39
Swordfish	3,554	3,364	190	0.35
Other billfishes	151	151	0	0.01
<b>Total</b>	<b>11,409</b>	<b>11,051</b>	<b>358</b>	<b>1.11</b>
<b>Shark PMUS</b>				
Blue shark	14,553	0	14,553	1.42
Mako sharks	1,152	146	1,006	0.11
Thresher sharks	2,923	10	2,913	0.28
Oceanic whitetip shark	219	0	219	0.02
Silky shark	56	0	56	0.01
Other Sharks	280	1	279	0.03
<b>Total</b>	<b>19,183</b>	<b>157</b>	<b>19,026</b>	<b>1.87</b>
<b>Tuna PMUS</b>				
Albacore	4,537	4,528	9	0.44
Bigeye tuna	41,418	40,898	520	4.03
Yellowfin tuna	3,871	3,791	80	0.38
Bluefin tuna	1	0	1	0.00
Skipjack tuna	6,204	6,085	119	0.60
Other tunas	5	5	0	0.00
<b>Total</b>	<b>56,036</b>	<b>55,307</b>	<b>729</b>	<b>5.45</b>
<b>Other PMUS</b>				
Mahimahi	4,454	4,436	18	0.43
Moonfish	4,839	4,828	11	0.47
Wahoo	8,050	8,022	28	0.78
Oilfish	6,595	5,833	762	0.64
Pomfret	20,382	20,310	72	1.98
<b>Total</b>	<b>44,320</b>	<b>43,429</b>	<b>891</b>	<b>4.31</b>
<b>Total PMUS</b>	<b>130,948</b>	<b>109,944</b>	<b>21,004</b>	<b>12.73</b>
<b>Total Non-PMUS</b>	<b>875</b>	<b>154</b>	<b>721</b>	<b>0.09</b>
<b>Total All Species</b>	<b>131,823</b>	<b>110,098</b>	<b>21,725</b>	<b>12.82</b>

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

Number of vessels active	10
Number of trips (partial or completed)	18
Number of sets	236
Number of hooks set	251,582

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
<b>PMUS</b>				
<b>Billfish PMUS</b>				
Blue marlin	90	88	2	0.36
Striped marlin	211	204	7	0.84
Shortbill spearfish	88	82	6	0.35
Swordfish	3,039	2,743	296	12.08
Other billfishes	7	7	0	0.03
<b>Total</b>	<b>3,435</b>	<b>3,124</b>	<b>311</b>	<b>13.65</b>
<b>Shark PMUS</b>				
Blue shark	2,393	0	2,393	9.51
Mako sharks	171	17	154	0.68
Thresher sharks	14	0	14	0.06
Oceanic whitetip shark	19	0	19	0.08
Silky shark	0	0	0	0.00
Other Sharks	5	0	5	0.02
<b>Total</b>	<b>2,602</b>	<b>17</b>	<b>2,585</b>	<b>10.34</b>
<b>Tuna PMUS</b>				
Albacore	7	7	0	0.03
Bigeye tuna	106	105	1	0.42
Yellowfin tuna	127	124	3	0.50
Bluefin tuna	0	0	0	0.00
Skipjack tuna	10	9	1	0.04
Other tunas	0	0	0	0.00
<b>Total</b>	<b>250</b>	<b>245</b>	<b>5</b>	<b>0.99</b>
<b>Other PMUS</b>				
Mahimahi	453	440	13	1.80
Moonfish	8	8	0	0.03
Wahoo	30	29	1	0.12
Oilfish	248	89	159	0.99
Pomfret	4	4	0	0.02
<b>Total</b>	<b>743</b>	<b>570</b>	<b>173</b>	<b>2.95</b>
<b>Total PMUS</b>	<b>7,030</b>	<b>3,956</b>	<b>3,074</b>	<b>27.94</b>
<b>Total Non-PMUS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>
<b>Total All Species</b>	<b>7,030</b>	<b>3,956</b>	<b>3,074</b>	<b>27.94</b>

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

Number of vessels active	135
Number of trips (partial or completed)	415
Number of sets	4,884
Number of hooks set	12,837,745

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 hooks
<b>PMUS</b>				
<b>Billfish PMUS</b>				
Blue marlin	2,052	2,041	11	0.16
Striped marlin	2,510	2,437	73	0.20
Shortbill spearfish	5,762	5,671	91	0.45
Swordfish	2,168	2,145	23	0.17
Other billfishes	187	187	0	0.01
<b>Total</b>	<b>12,679</b>	<b>12,481</b>	<b>198</b>	<b>0.99</b>
<b>Shark PMUS</b>				
Blue shark	16,239	0	16,239	1.26
Mako sharks	1,281	157	1,124	0.10
Thresher sharks	3,518	10	3,508	0.27
Oceanic whitetip shark	305	0	305	0.02
Silky shark	77	0	77	0.01
Other Sharks	346	1	345	0.03
<b>Total</b>	<b>21,766</b>	<b>168</b>	<b>21,598</b>	<b>1.70</b>
<b>Tuna PMUS</b>				
Albacore	5,395	5,386	9	0.42
Bigeye tuna	49,184	48,494	690	3.83
Yellowfin tuna	5,622	5,503	119	0.44
Bluefin tuna	1	0	1	0.00
Skipjack tuna	10,558	10,295	263	0.82
Other tunas	5	5	0	0.00
<b>Total</b>	<b>70,765</b>	<b>69,683</b>	<b>1,082</b>	<b>5.51</b>
<b>Other PMUS</b>				
Mahimahi	4,621	4,604	17	0.36
Moonfish	5,316	5,298	18	0.41
Wahoo	10,254	10,226	28	0.80
Oilfish	7,929	7,064	865	0.62
Pomfret	24,621	24,538	83	1.92
<b>Total</b>	<b>52,741</b>	<b>51,730</b>	<b>1,011</b>	<b>4.11</b>
<b>Total PMUS</b>	<b>157,951</b>	<b>134,062</b>	<b>23,889</b>	<b>12.30</b>
<b>Total Non-PMUS</b>	<b>1,199</b>	<b>475</b>	<b>724</b>	<b>0.09</b>
<b>Total All Species</b>	<b>159,150</b>	<b>134,537</b>	<b>24,613</b>	<b>12.40</b>