

**The Hawaii - California Longline Limited-entry Fishery  
Quarterly Report  
1 October - 31 December, 2016<sup>1</sup>**

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This quarterly report for the period 1 October - 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.

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**Table 1.** For the period 1 October - 31 December, 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 October - 31 December, 2016	Number of vessels active	130	
Set Types	All sets	Number of trips (partial or completed)	442	
Fishing Area	All Areas	Number of sets	5,380	
		Number of hooks set	14,168,653	
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	1,710	1,697	13	0.12
Striped marlin	3,351	3,327	24	0.24
Shortbill spearfish	6,585	6,486	99	0.46
Swordfish	1,976	1,808	168	0.14
Other billfishes	272	271	1	0.02
<b>Total</b>	<b>13,894</b>	<b>13,589</b>	<b>305</b>	<b>0.98</b>
<b>Shark PMUS</b>				
Blue shark	26,283	2	26,281	1.86
Mako sharks	1,234	207	1,027	0.09
Thresher sharks	2,095	15	2,080	0.15
Oceanic whitetip shark	425	0	425	0.03
Silky shark	188	0	188	0.01
Other Sharks	231	1	230	0.02
<b>Total</b>	<b>30,456</b>	<b>225</b>	<b>30,231</b>	<b>2.15</b>
<b>Tuna PMUS</b>				
Albacore	242	240	2	0.02
Bigeye tuna	64,028	62,821	1,207	4.52
Yellowfin tuna	21,210	20,886	324	1.50
Bluefin tuna	0	0	0	0.00
Skipjack tuna	6,073	5,993	80	0.43
Other tunas	0	0	0	0.00
<b>Total</b>	<b>91,553</b>	<b>89,940</b>	<b>1,613</b>	<b>6.46</b>
<b>Other PMUS</b>				
Mahimahi	15,259	15,126	133	1.08
Moonfish	4,916	4,886	30	0.35
Wahoo	5,792	5,772	20	0.41
Oilfish	6,384	5,934	450	0.45
Pomfret	19,730	19,579	151	1.39
<b>Total</b>	<b>52,081</b>	<b>51,297</b>	<b>784</b>	<b>3.68</b>
<b>Total PMUS</b>	<b>187,984</b>	<b>155,051</b>	<b>32,933</b>	<b>13.27</b>
<b>Total Non-PMUS</b>	<b>1,829</b>	<b>110</b>	<b>1,719</b>	<b>0.13</b>
<b>Total All Species</b>	<b>189,813</b>	<b>155,161</b>	<b>34,652</b>	<b>13.40</b>

**Table 2.** For the period 1 October - 31 December, 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 October - 31 December, 2016	Number of vessels active		111
Set Types	All sets	Number of trips (partial or completed)		262
Fishing Area	Inside U.S. EEZ	Number of sets		2,156
		Number of hooks set		5,543,124
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	746	745	1	0.13
Striped marlin	1,479	1,475	4	0.27
Shortbill spearfish	2,545	2,509	36	0.46
Swordfish	395	318	77	0.07
Other billfishes	145	145	0	0.03
<b>Total</b>	<b>5,310</b>	<b>5,192</b>	<b>118</b>	<b>0.96</b>
<b>Shark PMUS</b>				
Blue shark	11,418	0	11,418	2.06
Mako sharks	428	66	362	0.08
Thresher sharks	382	6	376	0.07
Oceanic whitetip shark	140	0	140	0.03
Silky shark	107	0	107	0.02
Other Sharks	119	0	119	0.02
<b>Total</b>	<b>12,594</b>	<b>72</b>	<b>12,522</b>	<b>2.27</b>
<b>Tuna PMUS</b>				
Albacore	94	93	1	0.02
Bigeye tuna	22,130	21,600	530	3.99
Yellowfin tuna	7,047	6,886	161	1.27
Bluefin tuna	0	0	0	0.00
Skipjack tuna	1,672	1,638	34	0.30
Other tunas	0	0	0	0.00
<b>Total</b>	<b>30,943</b>	<b>30,217</b>	<b>726</b>	<b>5.58</b>
<b>Other PMUS</b>				
Mahimahi	5,064	5,041	23	0.91
Moonfish	1,042	1,039	3	0.19
Wahoo	1,707	1,700	7	0.31
Oilfish	2,158	2,035	123	0.39
Pomfret	6,677	6,616	61	1.20
<b>Total</b>	<b>16,648</b>	<b>16,431</b>	<b>217</b>	<b>3.00</b>
<b>Total PMUS</b>	<b>65,495</b>	<b>51,912</b>	<b>13,583</b>	<b>11.82</b>
<b>Total Non-PMUS</b>	<b>55</b>	<b>50</b>	<b>5</b>	<b>0.01</b>
<b>Total All Species</b>	<b>65,550</b>	<b>51,962</b>	<b>13,588</b>	<b>11.83</b>

**Table 3.** For the period 1 October - 31 December, 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 October - 31 December, 2016	Number of vessels active		127
Set Types	All sets	Number of trips (partial or completed)		343
Fishing Area	Outside U.S. EEZ	Number of sets		3,224
		Number of hooks set		8,625,529
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	964	952	12	0.11
Striped marlin	1,872	1,852	20	0.22
Shortbill spearfish	4,040	3,977	63	0.47
Swordfish	1,581	1,490	91	0.18
Other billfishes	127	126	1	0.01
<b>Total</b>	<b>8,584</b>	<b>8,397</b>	<b>187</b>	<b>1.00</b>
<b>Shark PMUS</b>				
Blue shark	14,865	2	14,863	1.72
Mako sharks	806	141	665	0.09
Thresher sharks	1,713	9	1,704	0.20
Oceanic whitetip shark	285	0	285	0.03
Silky shark	81	0	81	0.01
Other Sharks	112	1	111	0.01
<b>Total</b>	<b>17,862</b>	<b>153</b>	<b>17,709</b>	<b>2.07</b>
<b>Tuna PMUS</b>				
Albacore	148	147	1	0.02
Bigeye tuna	41,898	41,221	677	4.86
Yellowfin tuna	14,163	14,000	163	1.64
Bluefin tuna	0	0	0	0.00
Skipjack tuna	4,401	4,355	46	0.51
Other tunas	0	0	0	0.00
<b>Total</b>	<b>60,610</b>	<b>59,723</b>	<b>887</b>	<b>7.03</b>
<b>Other PMUS</b>				
Mahimahi	10,195	10,085	110	1.18
Moonfish	3,874	3,847	27	0.45
Wahoo	4,085	4,072	13	0.47
Oilfish	4,226	3,899	327	0.49
Pomfret	13,053	12,963	90	1.51
<b>Total</b>	<b>35,433</b>	<b>34,866</b>	<b>567</b>	<b>4.11</b>
<b>Total PMUS</b>	<b>122,489</b>	<b>103,139</b>	<b>19,350</b>	<b>14.20</b>
<b>Total Non-PMUS</b>	<b>1,774</b>	<b>60</b>	<b>1,714</b>	<b>0.21</b>
<b>Total All Species</b>	<b>124,263</b>	<b>103,199</b>	<b>21,064</b>	<b>14.41</b>

**Table 4.** For the period 1 October - 31 December, 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 October - 31 December, 2016	Number of vessels active		4
Set Types	Shallow sets	Number of trips (partial or completed)		8
Fishing Area	All Areas	Number of sets		92
		Number of hooks set		104,600
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	0	0	0	0.00
Striped marlin	5	1	4	0.05
Shortbill spearfish	1	0	1	0.01
Swordfish	1,115	1,061	54	10.66
Other billfishes	0	0	0	0.00
<b>Total</b>	<b>1,121</b>	<b>1,062</b>	<b>59</b>	<b>10.72</b>
<b>Shark PMUS</b>				
Blue shark	1,655	0	1,655	15.82
Mako sharks	203	26	177	1.94
Thresher sharks	18	0	18	0.17
Oceanic whitetip shark	0	0	0	0.00
Silky shark	0	0	0	0.00
Other Sharks	22	0	22	0.21
<b>Total</b>	<b>1,898</b>	<b>26</b>	<b>1,872</b>	<b>18.15</b>
<b>Tuna PMUS</b>				
Albacore	10	9	1	0.10
Bigeye tuna	76	65	11	0.73
Yellowfin tuna	14	9	5	0.13
Bluefin tuna	0	0	0	0.00
Skipjack tuna	1	1	0	0.01
Other tunas	0	0	0	0.00
<b>Total</b>	<b>101</b>	<b>84</b>	<b>17</b>	<b>0.97</b>
<b>Other PMUS</b>				
Mahimahi	0	0	0	0.00
Moonfish	142	119	23	1.36
Wahoo	0	0	0	0.00
Oilfish	68	25	43	0.65
Pomfret	4	4	0	0.04
<b>Total</b>	<b>214</b>	<b>148</b>	<b>66</b>	<b>2.05</b>
<b>Total PMUS</b>	<b>3,334</b>	<b>1,320</b>	<b>2,014</b>	<b>31.87</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>3,334</b>	<b>1,320</b>	<b>2,014</b>	<b>31.87</b>

**Table 5.** For the period 1 October - 31 December, 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 October - 31 December, 2016	Number of vessels active		129
Set Types	Deep sets	Number of trips (partial or completed)		434
Fishing Area	All Areas	Number of sets		5,288
		Number of hooks set		14,064,053
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	1,710	1,697	13	0.12
Striped marlin	3,346	3,326	20	0.24
Shortbill spearfish	6,584	6,486	98	0.47
Swordfish	861	747	114	0.06
Other billfishes	272	271	1	0.02
<b>Total</b>	<b>12,773</b>	<b>12,527</b>	<b>246</b>	<b>0.91</b>
<b>Shark PMUS</b>				
Blue shark	24,628	2	24,626	1.75
Mako sharks	1,031	181	850	0.07
Thresher sharks	2,077	15	2,062	0.15
Oceanic whitetip shark	425	0	425	0.03
Silky shark	188	0	188	0.01
Other Sharks	209	1	208	0.01
<b>Total</b>	<b>28,558</b>	<b>199</b>	<b>28,359</b>	<b>2.03</b>
<b>Tuna PMUS</b>				
Albacore	232	231	1	0.02
Bigeye tuna	63,952	62,756	1,196	4.55
Yellowfin tuna	21,196	20,877	319	1.51
Bluefin tuna	0	0	0	0.00
Skipjack tuna	6,072	5,992	80	0.43
Other tunas	0	0	0	0.00
<b>Total</b>	<b>91,452</b>	<b>89,856</b>	<b>1,596</b>	<b>6.50</b>
<b>Other PMUS</b>				
Mahimahi	15,259	15,126	133	1.08
Moonfish	4,774	4,767	7	0.34
Wahoo	5,792	5,772	20	0.41
Oilfish	6,316	5,909	407	0.45
Pomfret	19,726	19,575	151	1.40
<b>Total</b>	<b>51,867</b>	<b>51,149</b>	<b>718</b>	<b>3.69</b>
<b>Total PMUS</b>	<b>184,650</b>	<b>153,731</b>	<b>30,919</b>	<b>13.13</b>
<b>Total Non-PMUS</b>	<b>1,829</b>	<b>110</b>	<b>1,719</b>	<b>0.13</b>
<b>Total All Species</b>	<b>186,479</b>	<b>153,841</b>	<b>32,638</b>	<b>13.26</b>