The Hawaii-based Longline Logbook Summary Report January–March 2008¹

Pacific Islands Fisheries Science Center Fisheries Monitoring and Analysis Program

This report summarizes data on fish catch and fishing effort of Hawaii-based longline vessels during the first quarter of 2008 (Q1-2008), based on the date gear was hauled, as reported to the National Marine Fisheries Service in Federal logbooks of daily fishing activity submitted by vessel operators. The report covers longline operations for fishing trips completed in the first quarter of 2008 and most, but not all, Q1-2008 data from trips that began late in the first quarter and continued into the second quarter of 2008. Therefore, the Q1-2008 summary statistics reported here are preliminary. When data for all first quarter longline operations are available, tables and graphs of summary statistics will be updated and published in the online version of this report at http://www.pifsc.noaa.gov/fmsd/reports.php.

During Q1-2008, 127 vessels were active in the Hawaii-based fleet, 6 more than in the Q1-2007 (Table 1, Fig. 1). They made 439 longline trips (14 more than in Q1-2007), including 394 using deep-set gear to target tuna (27 more than in Q1-2007) and 45 using shallow-set gear to target swordfish (13 less than in Q1 2007; Fig. 2). A record 10.2 million hooks were deployed in Q1-2008, 1.3 million more than in Q1-2007 (Fig. 3). The fleet fished mainly outside the U.S. Exclusive Economic Zone (EEZ) (48% of the total hooks set), followed by the EEZ of the Main Hawaiian Islands (MHI) (32%) and waters within the EEZ of the Northwestern Hawaiian Islands (NWHI) (9%). Seven percent of the hooks were deployed in the EEZ of the U.S. Pacific Remote Island Areas (PRIA, consisting of the U.S. possessions Wake Island, Jarvis Island, Howland Island, Baker Island, Kingman Reef, Palmyra Atoll, and Johnston Atoll).

In Q1-2008, the Hawaii longline fleet caught a record 45,239 bigeye tuna (Fig. 4); 51% were caught outside the U.S. EEZ, 31% in the MHI EEZ, 9% in the NWHI EEZ, and 8% in the PRIA EEZ. The bigeye tuna catch-per-unit-of-effort (CPUE) on tuna-targeted trips was 4.7 fish per 1000 hooks; exceeding the Q1-2007 CPUE of 3.9 (Fig. 5). The albacore catch and CPUE on tuna-targeted trips in Q1-2008 were 7,623 fish and 0.65 fish per 1000 hooks, respectively (Figs. 6-7). The yellowfin tuna catch (19,039 fish) in Q1-2008 established a first quarter record and the yellowfin CPUE on tuna-targeted trips (2.0 fish per 1000 hooks) was higher than average for the quarter (Figs. 8-9).

The Q1-2008 swordfish catch was 11,022 fish, 20% lower than in Q1-2007 (Fig. 10). The smaller swordfish catch is attributed mostly to fewer shallow

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¹ PIFSC Data Report DR-08-007 Issued 11 June 2008.

sets made this year. In Q1-2008, swordfish CPUE on shallow-set swordfish-targeted trips was 15.2 fish per 1000 hooks, 0.8 lower than in Q1-2007 (Fig. 11).

The Q1-2008 striped marlin catch (2,301 fish) and CPUE on tuna-targeted trips (0.23 fish per 1000 hooks) were lower than in Q1-2007 by 30% and 43%, respectively (Figs. 12-13). Conversely, the Q1-2008 blue marlin catch (810 fish) and CPUE on tuna-targeted trips (0.08 fish per 1000 hooks) were higher than in Q1-2007 by 45% and 14% (Figs. 14-15).

The fleet caught 18,809 sharks in Q1-2008, of which 572 (3%) were kept. Blue shark comprised 82% of the total shark catch (15,467 fish) (Fig. 16). Blue shark CPUE on shallow-set swordfish-targeted trips was 10.1 fish per 1000 hooks (Fig. 17).

In Q1-2008, the Hawaii longline catch of other key pelagic species included 25,931 mahimahi (Fig. 18) with a CPUE of 2.6 fish per 1000 hooks on tuna-targeted trips (Fig. 19); 1,726 moonfish (Fig. 20) with a CPUE of 0.18 fish per 1000 hooks on tuna-targeted trips (Fig. 21); 10,993 pomfret (Fig. 22) with a CPUE of 1.2 fish per 1000 hooks on tuna-targeted trips (Fig. 23); and 3,246 wahoo (Fig. 24) with a CPUE of 0.34 fish per 1000 hooks on tuna-targeted trips (Fig. 25). A high percentage of the catch of these species was kept.

The summary statistics in Table 1 are based on logbook records from all fishing areas combined and all types of longline trips—those targeting swordfish and those aimed at catching tuna. Hence, the CPUE figures in Table 1 differ from those reported above, which were calculated using data exclusively from tunatargeted trips or swordfish-targeted trips, depending on the species of interest.

In addition to longline statistics for all fishing areas combined, Q1-2008 summary catch and effort were compiled by several geographical sub-areas including: the MHI EEZ; the NWHI EEZ; the PRIA EEZ; the combined EEZ of MHI, NWHI and PRIA; and waters outside the U.S. EEZ. These statistics are presented in Tables 2-6. Q1-2008 summary statistics for the entire fishing area are also presented for each distinct trip type: shallow-set swordfish-targeted trips (Table 7) and deep-set tuna-targeted trips (Table 8).

In addition to the summary longline fishery statistics for Q1-2008, graphs of annual Hawaii longline fishing effort and catch by species for the years 1991-2007 are presented in Figs. A1-A7.

All tables and graphs provided in this report are available on the PIFSC Web site at http://www.pifsc.noaa.gov/fmsd/reports.php. The Web site also has an archive of quarterly and annual summary tables of fish catch and fishing effort from 1991 to present. The statistics in the online graphs and archived tables are updated periodically as new records are added to the database and corrections are made.

Table 1. Quarterly summary report of fish catch statistics for U.S. longline vessels landing in Hawaii as derived for NMFS Western Pacific Daily Longline Fishing Log records. [PIFSC Information Management System, Longline Logbook Data, 5/29/2008 3:30:31PM]

| Rei | ort | Cove | rage |
|-----|-----|------|------|
| | | | |

Time Period 1st Quarter 2008
Fishing Area All Areas
Trip Types All Trip Types

| Number of vessels active | 127 |
|--------------------------|------------|
| Number of trips | 439 |
| Number of sets | 5,023 |
| Number of hooks set | 10,164,401 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|---|------------------|----------------|--------------------|--|
| Billfishes | - Cuugui | 110pt | 110104504 | caasia per root noons |
| | 010 | 202 | 0 | 0.00 |
| Blue marlin | 810 | 802 | 8 | 0.08 |
| Striped marlin | 2,301 | 2,277 | 24 | 0.23 |
| Shortbill spearfish Swordfish | 7,227 | 7,176 | 51 | 0.71 |
| | 11,022 102 | 10,116 | 906 | 1.08 |
| Other billfishes | | 100 | 2 | 0.01 |
| Total | 21,462 | 20,471 | 991 | 2.11 |
| Sharks | | | | |
| Blue shark | 15,467 | 47 | 15,420 | 1.52 |
| Mako sharks | 1,039 | 340 | 699 | 0.10 |
| Thresher sharks | 1,699 | 153 | 1,546 | 0.17 |
| Oceanic whitetip shark | 407 | 17 | 390 | 0.04 |
| Silky shark | 49 | 1 | 48 | 0.00 |
| Other sharks | 148 | 14 | 134 | 0.01 |
| Total | 18,809 | 572 | 18,237 | 1.85 |
| Tunas | | | | |
| Albacore | 7,623 | 7,065 | 558 | 0.75 |
| Bigeye tuna | 45,239 | 43,886 | 1,353 | 4.45 |
| Yellowfin | 19,039 | 17,639 | 1,400 | 1.87 |
| Bluefin tuna | 1 | 1 | | 0.00 |
| Skipjack tuna | 8,858 | 7,780 | 1,078 | 0.87 |
| Other tunas | 4 | 3 | 1 | 0.00 |
| Total | 80,764 | 76,374 | 4,390 | 7.95 |
| Other PMUS | , | , | , | |
| Mahimahi | 25,931 | 25,385 | 546 | 2.55 |
| Moonfish | 1,726 | 1,720 | 6 | 0.17 |
| Wahoo | 3,246 | 3,230 | 16 | 0.32 |
| Oilfish | 8,340 | 8,090 | 250 | 0.82 |
| Pomfret | 10,993 | 10,948 | 45 | 1.08 |
| Total | 50,236 | 49,373 | 863 | 4.94 |
| Total PMUS | 171,271 | 146,790 | 24,481 | 16.85 |
| Total Non-PMUS | 1,136 | 402 | 734 | 0.11 |
| Total All Species | 172,407 | 147,192 | 25,215 | 16.96 |

Table 2. Quarterly summary report of fish catch statistics for U.S. longline vessels landing in Hawaii as derived for NMFS Western Pacific Daily Longline Fishing Log records. [PIFSC Information Management System, Longline Logbook Data, 5/29/2008 3:36:36PM]

Time Period 1st Quarter 2008

Fishing Area Main Hawaiian Islands EEZ

| Number of vessels active | 98 |
|--------------------------|-----------|
| Number of trips | 242 |
| Number of sets | 1,474 |
| Number of hooks set | 3,242,031 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|---|------------------|----------------|--------------------|--|
| Billfishes | | | | |
| Blue marlin | 115 | 114 | 1 | 0.04 |
| Striped marlin | 908 | 906 | 2 | 0.28 |
| Shortbill spearfish | 2,592 | 2,586 | 6 | 0.80 |
| Swordfish | 91 | 85 | 6 | 0.03 |
| Other billfishes | 30 | 30 | | 0.01 |
| Total | 3,736 | 3,721 | 15 | 1.15 |
| Sharks | | | | |
| Blue shark | 2,546 | 8 | 2,538 | 0.79 |
| Mako sharks | 256 | 156 | 100 | 0.08 |
| Thresher sharks | 405 | 81 | 324 | 0.12 |
| Oceanic whitetip shark | 46 | 6 | 40 | 0.01 |
| Other sharks | 18 | 5 | 13 | 0.01 |
| Total | 3,271 | 256 | 3,015 | 1.01 |
| Γunas | | | | |
| Albacore | 677 | 676 | 1 | 0.21 |
| Bigeye tuna | 13,980 | 13,370 | 610 | 4.31 |
| Yellowfin | 7,861 | 7,087 | 774 | 2.42 |
| Bluefin tuna | 1 | 1 | | 0.00 |
| Skipjack tuna | 2,962 | 2,627 | 335 | 0.91 |
| Total | 25,481 | 23,761 | 1,720 | 7.86 |
| Other PMUS | | | | |
| Mahimahi | 7,542 | 7,394 | 148 | 2.33 |
| Moonfish | 591 | 590 | 1 | 0.18 |
| Wahoo | 465 | 460 | 5 | 0.14 |
| Oilfish | 2,868 | 2,835 | 33 | 0.88 |
| Pomfret | 2,260 | 2,253 | 7 | 0.70 |
| Total | 13,726 | 13,532 | 194 | 4.23 |
| Total PMUS | 46,214 | 41,270 | 4,944 | 14.25 |
| Total Non-PMUS | 599 | 249 | 350 | 0.18 |
| Total All Species | 46,813 | 41,519 | 5,294 | 14.44 |

Table 3. Quarterly summary report of fish catch statistics for U.S. longline vessels landing in Hawaii as derived for NMFS Western Pacific Daily Longline Fishing Log records. [PIFSC Information Management System, Longline Logbook Data, 5/29/2008 3:42:43PM]

Time Period 1st Quarter 2008

Fishing Area Northwestern Hawaiian Islands EEZ

| Number of vessels active | 59 |
|--------------------------|---------|
| Number of trips | 85 |
| Number of sets | 432 |
| Number of hooks set | 953,242 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|---|---------------------------------------|----------------|--------------------|--|
| Billfishes | · · · · · · · · · · · · · · · · · · · | | | |
| Blue marlin | 43 | 43 | | 0.05 |
| Striped marlin | 290 | 287 | 3 | 0.30 |
| Shortbill spearfish | 799 | 792 | 7 | 0.84 |
| Swordfish | 48 | 32 | 16 | 0.05 |
| Other billfishes | 9 | 9 | | 0.01 |
| Total | 1,189 | 1,163 | 26 | 1.25 |
| Sharks | | | | |
| Blue shark | 1,497 | 1 | 1,496 | 1.57 |
| Mako sharks | 82 | 48 | 34 | 0.09 |
| Thresher sharks | 58 | 4 | 54 | 0.06 |
| Oceanic whitetip shark | 17 | 2 | 15 | 0.02 |
| Silky shark | 1 | | 1 | 0.00 |
| Other sharks | 22 | 2 | 20 | 0.02 |
| Total | 1,677 | 57 | 1,620 | 1.76 |
| Tunas | | | | |
| Albacore | 477 | 477 | | 0.50 |
| Bigeye tuna | 4,157 | 4,065 | 92 | 4.36 |
| Yellowfin | 4,981 | 4,673 | 308 | 5.23 |
| Skipjack tuna | 975 | 909 | 66 | 1.02 |
| Total | 10,590 | 10,124 | 466 | 11.11 |
| Other PMUS | | | | |
| Mahimahi | 3,106 | 3,047 | 59 | 3.26 |
| Moonfish | 191 | 190 | 1 | 0.20 |
| Wahoo | 142 | 141 | 1 | 0.15 |
| Oilfish | 1,021 | 1,015 | 6 | 1.07 |
| Pomfret | 583 | 582 | 1 | 0.61 |
| Total | 5,043 | 4,975 | 68 | 5.29 |
| Total PMUS | 18,499 | 16,319 | 2,180 | 19.41 |
| Total Non-PMUS | 38 | 29 | 9 | 0.04 |
| Total All Species | 18,537 | 16,348 | 2,189 | 19.45 |

Table 4. Quarterly summary report of fish catch statistics for U.S. longline vessels landing in Hawaii as derived for NMFS Western Pacific Daily Longline Fishing Log records. [PIFSC Information Management System, Longline Logbook Data, 5/29/2008 3:48:44PM]

Time Period 1st Quarter 2008

Fishing Area Pacific Remote Island Areas (PRIA) EEZ

| Number of vessels active | 40 |
|--------------------------|---------|
| Number of trips | 49 |
| Number of sets | 303 |
| Number of hooks set | 703,098 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|---|------------------|----------------|--------------------|--|
| Billfishes | | | | |
| Blue marlin | 154 | 152 | 2 | 0.22 |
| Striped marlin | 144 | 142 | 2 | 0.20 |
| Shortbill spearfish | 351 | 349 | 2 | 0.50 |
| Swordfish | 61 | 58 | 3 | 0.09 |
| Other billfishes | 15 | 15 | | 0.02 |
| Total | 725 | 716 | 9 | 1.03 |
| Sharks | | | | |
| Blue shark | 931 | 5 | 926 | 1.32 |
| Mako sharks | 33 | 15 | 18 | 0.05 |
| Thresher sharks | 147 | 7 | 140 | 0.21 |
| Oceanic whitetip shark | 270 | 2 | 268 | 0.38 |
| Silky shark | 45 | | 45 | 0.06 |
| Other sharks | 14 | | 14 | 0.02 |
| Total | 1,440 | 29 | 1,411 | 2.05 |
| Гunas | | | | |
| Albacore | 1,607 | 1,605 | 2 | 2.29 |
| Bigeye tuna | 3,829 | 3,719 | 110 | 5.45 |
| Yellowfin | 1,221 | 1,178 | 43 | 1.74 |
| Skipjack tuna | 838 | 789 | 49 | 1.19 |
| Other tunas | 1 | 1 | | 0.00 |
| Total | 7,496 | 7,292 | 204 | 10.66 |
| Other PMUS | | | | |
| Mahimahi | 1,302 | 1,290 | 12 | 1.85 |
| Moonfish | 74 | 74 | | 0.11 |
| Wahoo | 632 | 629 | 3 | 0.90 |
| Oilfish | 443 | 441 | 2 | 0.63 |
| Pomfret | 602 | 598 | 4 | 0.86 |
| Total | 3,053 | 3,032 | 21 | 4.34 |
| Γotal PMUS | 12,714 | 11,069 | 1,645 | 18.08 |
| Γotal Non-PMUS | 11 | 7 | 4 | 0.02 |
| Total All Species | 12,725 | 11,076 | 1,649 | 18.10 |

Table 5. Quarterly summary report of fish catch statistics for U.S. longline vessels landing in Hawaii as derived for NMFS Western Pacific Daily Longline Fishing Log records. [PIFSC Information Management System, Longline Logbook Data, 5/29/2008 3:54:51PM]

Time Period 1st Quarter 2008

Fishing Area Hawaiian Islands EEZ + PRIA EEZ

| Number of vessels active | 107 |
|--------------------------|-----------|
| Number of trips | 311 |
| Number of sets | 2,209 |
| Number of hooks set | 4.898.371 |

| Pelagic Management Unit | Number | Number | Number | CPUE - Number |
|-------------------------|--------|--------|----------|-----------------------|
| Species (PMUS) | Caught | Kept | Released | Caught per 1000 hooks |
| Billfishes | | | | |
| Blue marlin | 312 | 309 | 3 | 0.06 |
| Striped marlin | 1,342 | 1,335 | 7 | 0.27 |
| Shortbill spearfish | 3,742 | 3,727 | 15 | 0.76 |
| Swordfish | 200 | 175 | 25 | 0.04 |
| Other billfishes | 54 | 54 | | 0.01 |
| Total | 5,650 | 5,600 | 50 | 1.15 |
| Sharks | | | | |
| Blue shark | 4,974 | 14 | 4,960 | 1.02 |
| Mako sharks | 371 | 219 | 152 | 0.08 |
| Thresher sharks | 610 | 92 | 518 | 0.12 |
| Oceanic whitetip shark | 333 | 10 | 323 | 0.07 |
| Silky shark | 46 | | 46 | 0.01 |
| Other sharks | 54 | 7 | 47 | 0.01 |
| Total | 6,388 | 342 | 6,046 | 1.30 |
| Гunas | | | | |
| Albacore | 2,761 | 2,758 | 3 | 0.56 |
| Bigeye tuna | 21,966 | 21,154 | 812 | 4.48 |
| Yellowfin | 14,063 | 12,938 | 1,125 | 2.87 |
| Bluefin tuna | 1 | 1 | | 0.00 |
| Skipjack tuna | 4,775 | 4,325 | 450 | 0.97 |
| Other tunas | 1 | 1 | | 0.00 |
| Total | 43,567 | 41,177 | 2,390 | 8.89 |
| Other PMUS | | | | |
| Mahimahi | 11,950 | 11,731 | 219 | 2.44 |
| Moonfish | 856 | 854 | 2 | 0.17 |
| Wahoo | 1,239 | 1,230 | 9 | 0.25 |
| Oilfish | 4,332 | 4,291 | 41 | 0.88 |
| Pomfret | 3,445 | 3,433 | 12 | 0.70 |
| Total | 21,822 | 21,539 | 283 | 4.45 |
| Total PMUS | 77,427 | 68,658 | 8,769 | 15.81 |
| Total Non-PMUS | 648 | 285 | 363 | 0.13 |
| Total All Species | 78,075 | 68,943 | 9,132 | 15.94 |

Table 6. Quarterly summary report of fish catch statistics for U.S. longline vessels landing in Hawaii as derived for NMFS Western Pacific Daily Longline Fishing Log records. [PIFSC Information Management System, Longline Logbook Data, 5/29/2008 4:01:02PM]

Time Period 1st Quarter 2008
Fishing Area Outside U.S. EEZ
Trip Types All Trip Types

| Number of vessels active | 122 |
|--------------------------|-----------|
| Number of trips | 325 |
| Number of sets | 2,814 |
| Number of hooks set | 5,266,030 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|---|------------------|----------------|--------------------|--|
| Billfishes | | | | <i>8</i> . F |
| Blue marlin | 498 | 493 | 5 | 0.09 |
| Striped marlin | 959 | 942 | 17 | 0.18 |
| Shortbill spearfish | 3,485 | 3,449 | 36 | 0.66 |
| Swordfish | 10,822 | 9,941 | 881 | 2.06 |
| Other billfishes | 48 | 46 | 2 | 0.01 |
| Total | 15,812 | 14,871 | 941 | 3.00 |
| Sharks | 13,012 | 11,071 | , | 2.00 |
| Blue shark | 10,493 | 33 | 10,460 | 1.99 |
| Mako sharks | 668 | 121 | 547 | 0.13 |
| Thresher sharks | 1,089 | 61 | 1,028 | 0.21 |
| Oceanic whitetip shark | 74 | 7 | 67 | 0.01 |
| Silky shark | 3 | 1 | 2 | 0.00 |
| Other sharks | 94 | 7 | 87 | 0.02 |
| Total | 12,421 | 230 | 12,191 | 2.36 |
| Tunas | , | | , | _,_, |
| Albacore | 4,862 | 4,307 | 555 | 0.92 |
| Bigeye tuna | 23,273 | 22,732 | 541 | 4.42 |
| Yellowfin | 4,976 | 4,701 | 275 | 0.94 |
| Skipjack tuna | 4,083 | 3,455 | 628 | 0.78 |
| Other tunas | 3 | 2 | 1 | 0.00 |
| Total | 37,197 | 35,197 | 2,000 | 7.06 |
| Other PMUS | - , - | , - | , | |
| Mahimahi | 13,981 | 13,654 | 327 | 2.65 |
| Moonfish | 870 | 866 | 4 | 0.17 |
| Wahoo | 2,007 | 2,000 | 7 | 0.38 |
| Oilfish | 4,008 | 3,799 | 209 | 0.76 |
| Pomfret | 7,548 | 7,515 | 33 | 1.43 |
| Total | 28,414 | 27,834 | 580 | 5.40 |
| Total PMUS | 93,844 | 78,132 | 15,712 | 17.82 |
| Total Non-PMUS | 488 | 117 | 371 | 0.09 |
| Total All Species | 94,332 | 78,249 | 16,083 | 17.91 |

Table 7. Quarterly summary report of fish catch statistics for U.S. longline vessels landing in Hawaii as derived for NMFS Western Pacific Daily Longline Fishing Log records. [PIFSC Information Management System, Longline Logbook Data, 5/29/2008 4:07:11PM]

Time Period 1st Quarter 2008
Fishing Area All Areas
Trip Types Swordfish Targeted Trips

| Number of vessels active | 24 |
|--------------------------|---------|
| Number of trips | 45 |
| Number of sets | 744 |
| Number of hooks set | 690,413 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|---|------------------|----------------|--------------------|--|
| Billfishes | | • | | |
| Blue marlin | 15 | 12 | 3 | 0.02 |
| Striped marlin | 121 | 112 | 9 | 0.18 |
| Shortbill spearfish | 47 | 46 | 1 | 0.07 |
| Swordfish | 10,522 | 9,681 | 841 | 15.24 |
| Other billfishes | 22 | 21 | 1 | 0.03 |
| Total | 10,727 | 9,872 | 855 | 15.54 |
| Sharks | , | , | | |
| Blue shark | 6,941 | 11 | 6,930 | 10.05 |
| Mako sharks | 444 | 27 | 417 | 0.64 |
| Thresher sharks | 111 | 3 | 108 | 0.16 |
| Other sharks | 5 | | 5 | 0.01 |
| Total | 7,501 | 41 | 7,460 | 10.86 |
| Гunas | , | | , | |
| Albacore | 1,467 | 918 | 549 | 2.12 |
| Bigeye tuna | 712 | 634 | 78 | 1.03 |
| Yellowfin | 131 | 108 | 23 | 0.19 |
| Skipjack tuna | 75 | 57 | 18 | 0.11 |
| Other tunas | 1 | | 1 | 0.00 |
| Total | 2,386 | 1,717 | 669 | 3.46 |
| Other PMUS | | | | |
| Mahimahi | 1,121 | 968 | 153 | 1.62 |
| Moonfish | 16 | 14 | 2 | 0.02 |
| Wahoo | 20 | 20 | | 0.03 |
| Oilfish | 643 | 450 | 193 | 0.93 |
| Pomfret | 44 | 36 | 8 | 0.06 |
| Total | 1,844 | 1,488 | 356 | 2.67 |
| Total PMUS | 22,458 | 13,118 | 9,340 | 32.53 |
| Total Non-PMUS | 5 | 3 | 2 | 0.01 |
| Total All Species | 22,463 | 13,121 | 9,342 | 32.54 |

Table 8. Quarterly summary report of fish catch statistics for U.S. longline vessels landing in Hawaii as derived for NMFS Western Pacific Daily Longline Fishing Log records. [PIFSC Information Management System, Longline Logbook Data, 5/29/2008 4:13:41PM]

Time Period 1st Quarter 2008
Fishing Area All Areas
Trip Types Tuna Targeted Trips

| Number of vessels active | 113 |
|--------------------------|-----------|
| Number of trips | 394 |
| Number of sets | 4,279 |
| Number of hooks set | 9.473.988 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|---|------------------|----------------|--------------------|--|
| Billfishes | | | | |
| Blue marlin | 795 | 790 | 5 | 0.08 |
| Striped marlin | 2,180 | 2,165 | 15 | 0.23 |
| Shortbill spearfish | 7,180 | 7,130 | 50 | 0.76 |
| Swordfish | 500 | 435 | 65 | 0.05 |
| Other billfishes | 80 | 79 | 1 | 0.01 |
| Total | 10,735 | 10,599 | 136 | 1.13 |
| Sharks | | | | |
| Blue shark | 8,526 | 36 | 8,490 | 0.90 |
| Mako sharks | 595 | 313 | 282 | 0.06 |
| Thresher sharks | 1,588 | 150 | 1,438 | 0.17 |
| Oceanic whitetip shark | 407 | 17 | 390 | 0.04 |
| Silky shark | 49 | 1 | 48 | 0.01 |
| Other sharks | 143 | 14 | 129 | 0.02 |
| Total | 11,308 | 531 | 10,777 | 1.19 |
| Tunas | | | | |
| Albacore | 6,156 | 6,147 | 9 | 0.65 |
| Bigeye tuna | 44,527 | 43,252 | 1,275 | 4.70 |
| Yellowfin | 18,908 | 17,531 | 1,377 | 2.00 |
| Bluefin tuna | 1 | 1 | | 0.00 |
| Skipjack tuna | 8,783 | 7,723 | 1,060 | 0.93 |
| Other tunas | 3 | 3 | | 0.00 |
| Total | 78,378 | 74,657 | 3,721 | 8.27 |
| Other PMUS | | | | |
| Mahimahi | 24,810 | 24,417 | 393 | 2.62 |
| Moonfish | 1,710 | 1,706 | 4 | 0.18 |
| Wahoo | 3,226 | 3,210 | 16 | 0.34 |
| Oilfish | 7,697 | 7,640 | 57 | 0.81 |
| Pomfret | 10,949 | 10,912 | 37 | 1.16 |
| Total | 48,392 | 47,885 | 507 | 5.11 |
| Total PMUS | 148,813 | 133,672 | 15,141 | 15.71 |
| Total Non-PMUS | 1,131 | 399 | 732 | 0.12 |
| Total All Species | 149,944 | 134,071 | 15,873 | 15.83 |

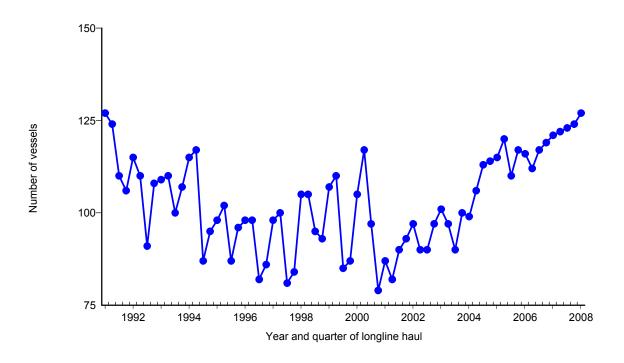


Figure 1. Number of active longline vessels based and landing in Hawaii, by quarter, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:36:22AM]

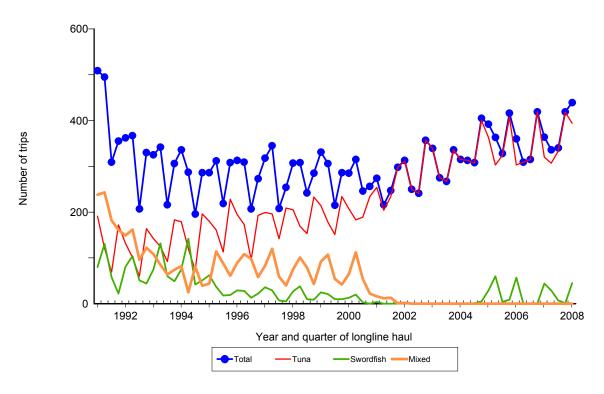


Figure 2. Number of fishing trips by longline vessels based and landing in Hawaii, by quarter and trip type, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:36:22AM]

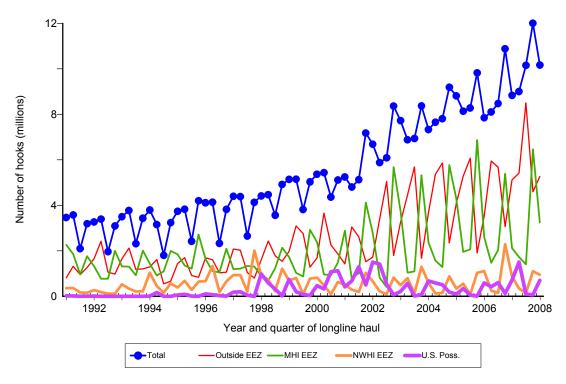


Figure 3. Number of hooks set by longline vessels based and landing in Hawaii, by quarter and fishing area, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:36:34AM]

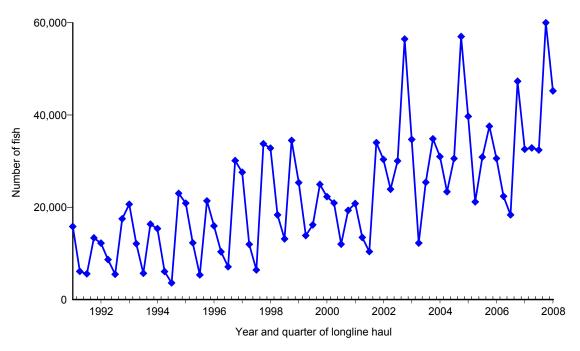


Figure 4. Quarterly catch of bigeye tuna by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:37:16AM]

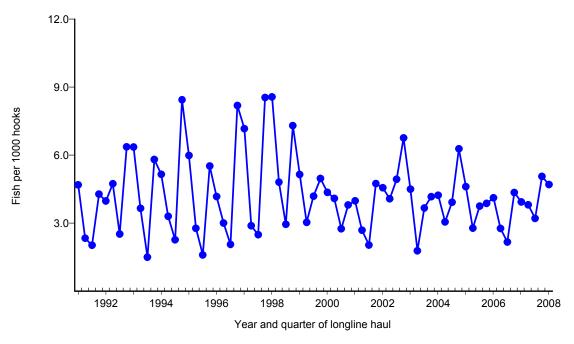


Figure 5. Quarterly CPUE of bigeye tuna (fish per 1000 hooks) on tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:37:16AM]

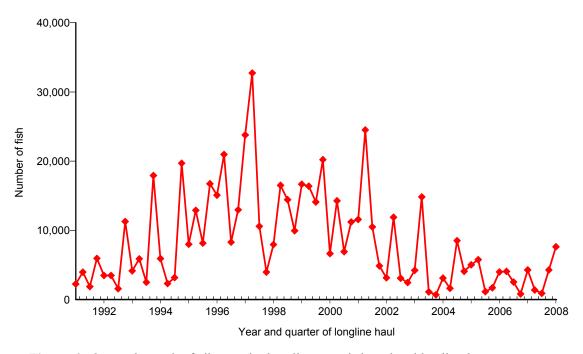


Figure 6. Quarterly catch of albacore by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:37:48AM]

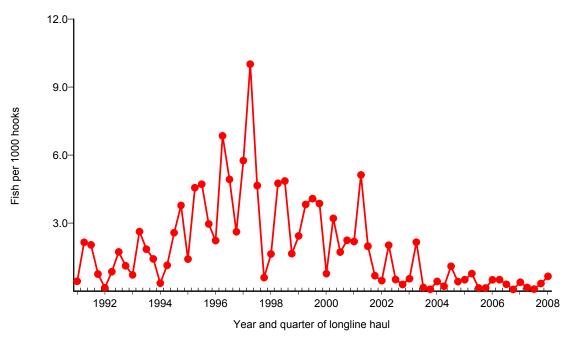


Figure 7. Quarterly CPUE of albacore (fish per 1000 hooks) on tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:37:48AM]

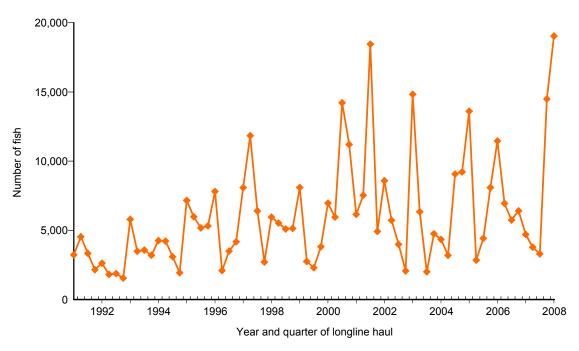


Figure 8. Quarterly catch of yellowfin tuna by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:38:27AM]

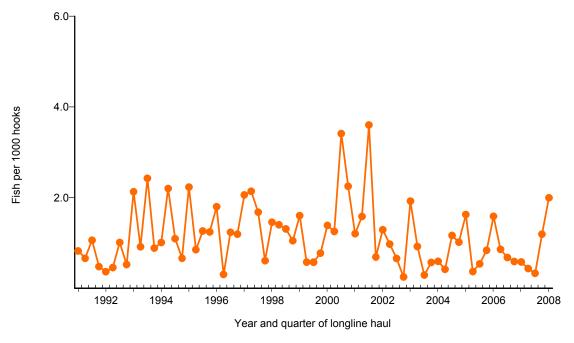


Figure 9. Quarterly CPUE of yellowfin tuna (fish per 1000 hooks) on tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:38:27AM]

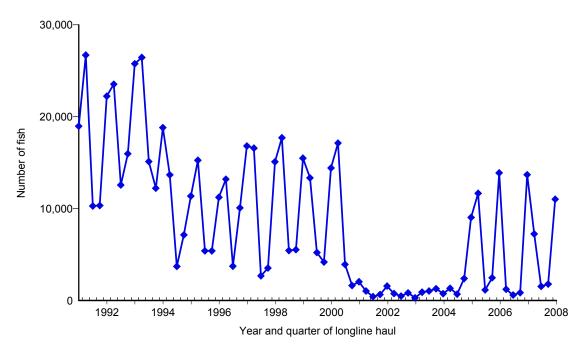


Figure 10. Quarterly catch of swordfish by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:39:06AM]

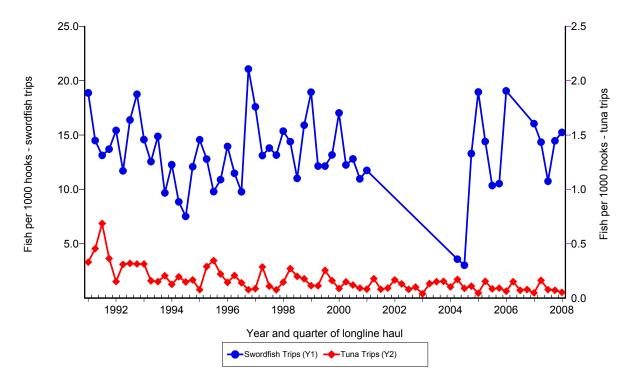


Figure 11. Quarterly CPUE of swordfish (fish per 1000 hooks) on swordfish trips and tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:39:06AM]

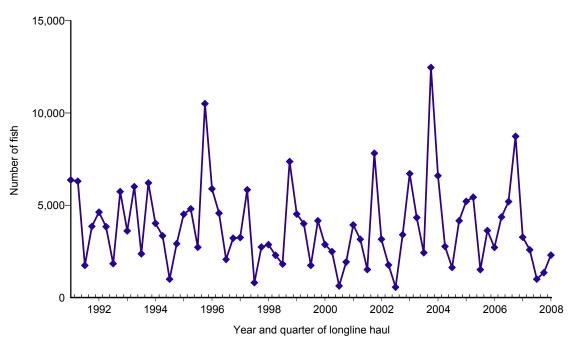


Figure 12. Quarterly catch of striped marlin by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:39:46AM]

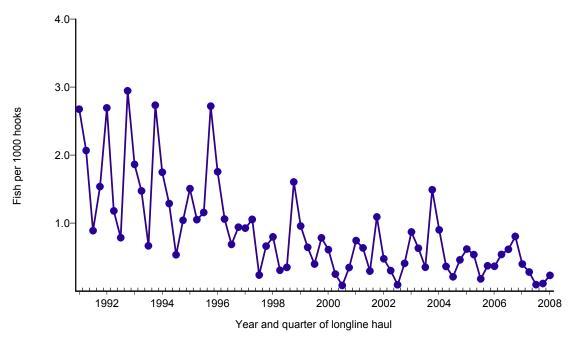


Figure 13. Quarterly CPUE of striped marlin (fish per 1000 hooks) on tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:39:46AM]

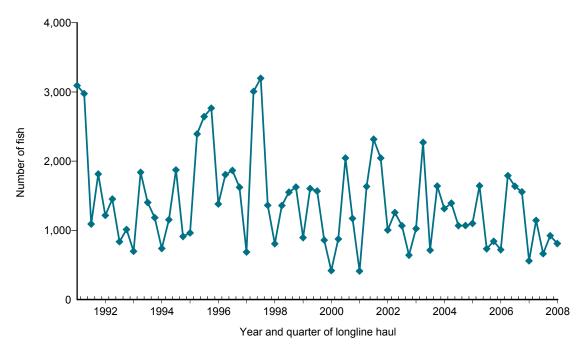


Figure 14. Quarterly catch of blue marlin by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:40:25AM]

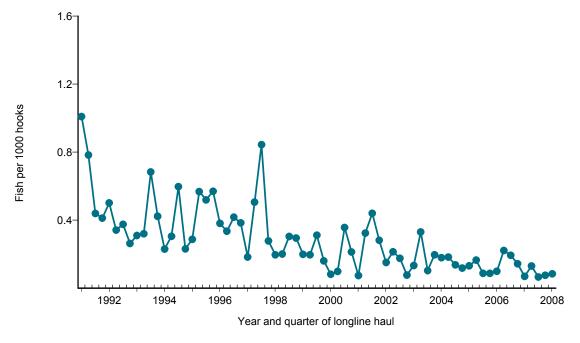


Figure 15. Quarterly CPUE of blue marlin (fish per 1000 hooks) on tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:40:25AM]

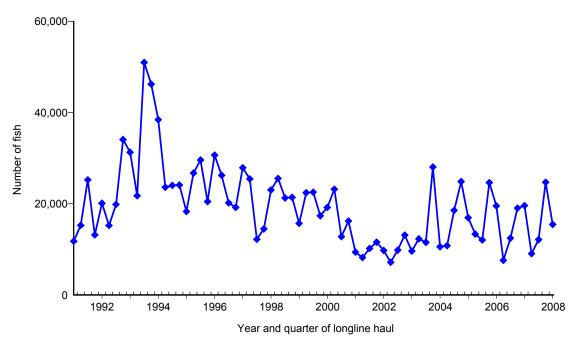


Figure 16. Quarterly catch of blue shark by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:41:04AM]

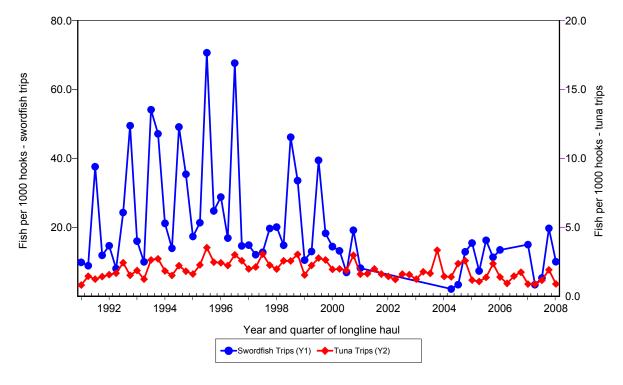


Figure 17. Quarterly CPUE of blue shark (fish per 1000 hooks) on swordfish trips and tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:41:04AM]

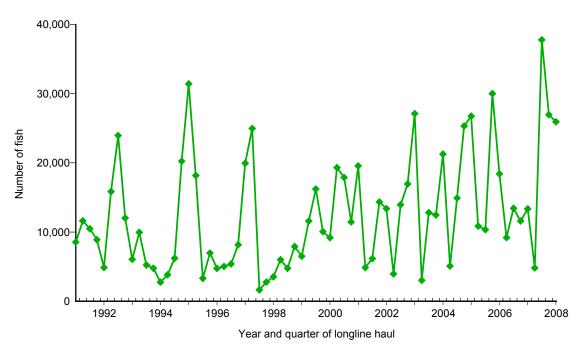


Figure 18. Quarterly catch of mahimahi by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:41:45AM]

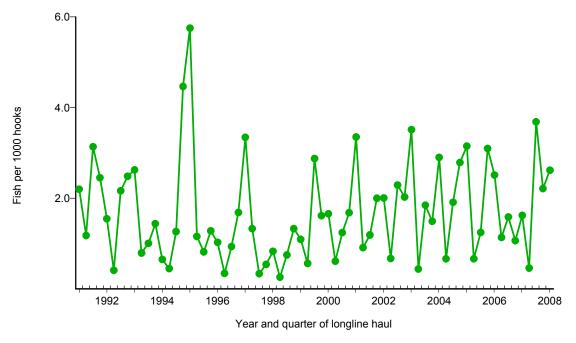


Figure 19. Quarterly CPUE of mahimahi (fish per 1000 hooks) on tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:41:45AM]

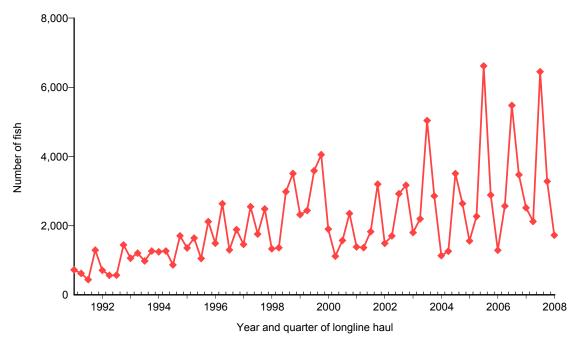


Figure 20. Quarterly catch of moonfish by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:42:26AM]

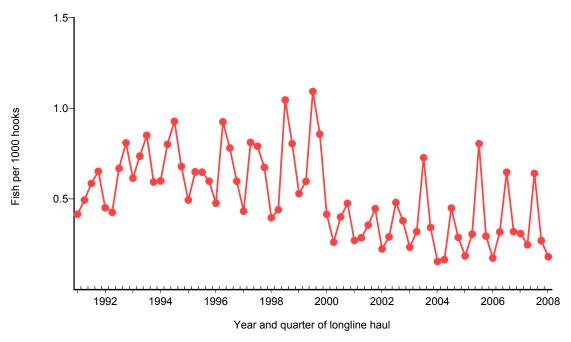


Figure 21. Quarterly CPUE of moonfish (fish per 1000 hooks) on tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:42:26AM]

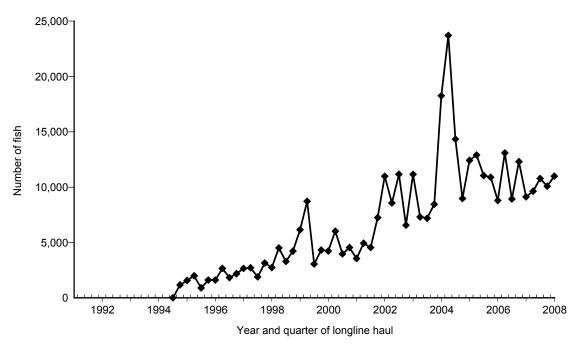


Figure 22. Quarterly catch of pomfret by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:43:06AM]

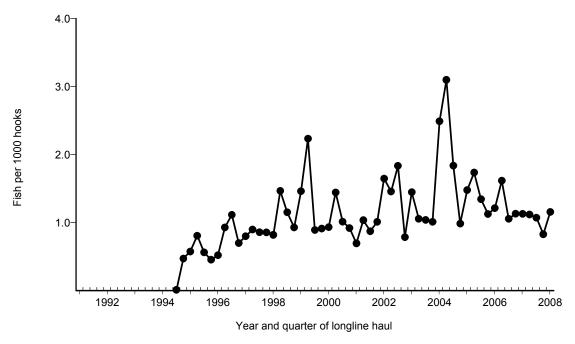


Figure 23. Quarterly CPUE of pomfret (fish per 1000 hooks) on tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:43:06AM]

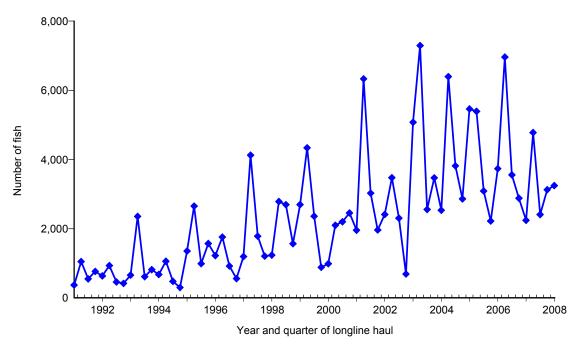


Figure 24. Quarterly catch of wahoo by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:43:46AM]

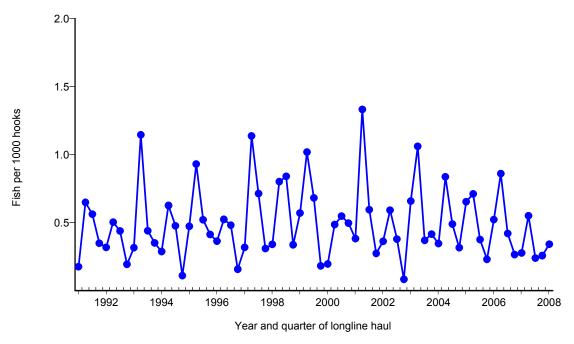


Figure 25. Quarterly CPUE of wahoo (fish per 1000 hooks) on tuna trips by longline vessels based and landing in Hawaii, 1991-2008. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:43:46AM]

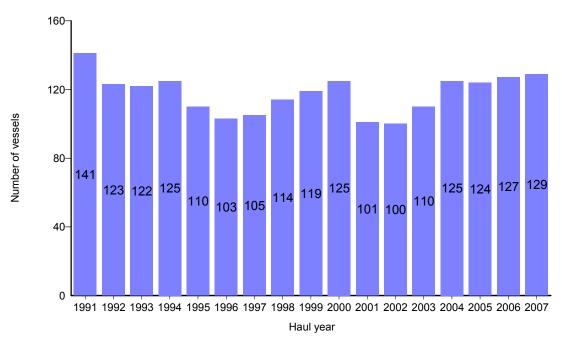


Figure A1. Number of active longline vessels based and landing in Hawaii, by year, 1991-2007. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:36:22AM]

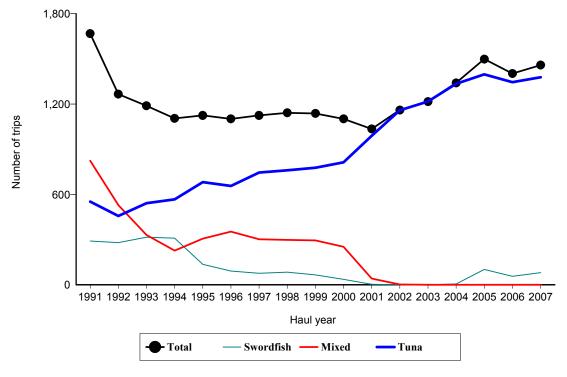


Figure A2. Number of fishing trips by longline vessels based and landing in Hawaii, by year and trip type, 1991-2007. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:36:22AM]

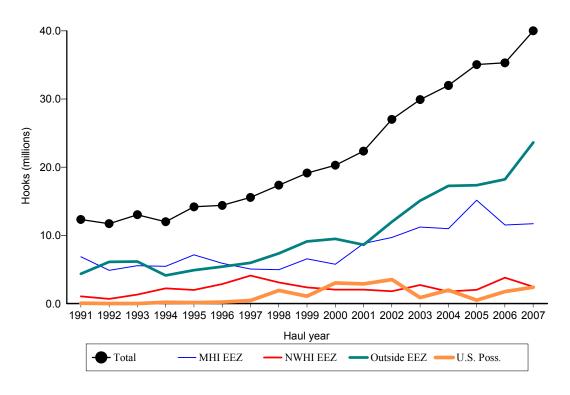


Figure A3. Number of hooks set by longline vessels based and landing in Hawaii, by year and fishing area, 1991-2007. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:44:30AM]

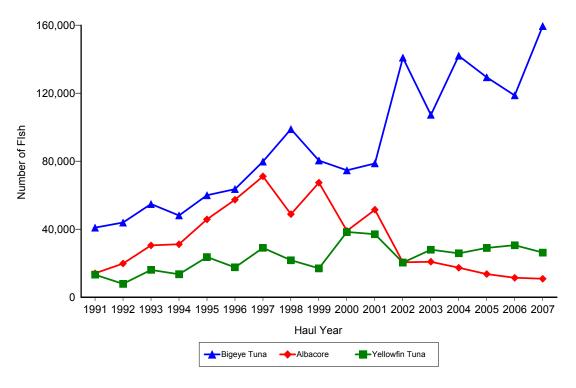


Figure A4. Annual catch of albacore, bigeye tuna, and yellowfin tuna by longline vessels based and landing in Hawaii, 1991-2007. 6/2/2008 10:36:22AM]

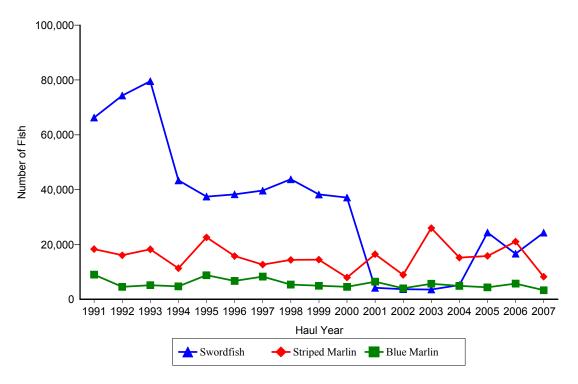


Figure A5. Annual catch of blue marlin, striped marlin, and swordfish by longline vessels based and landing in Hawaii, 1991-2007. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:36:22AM]

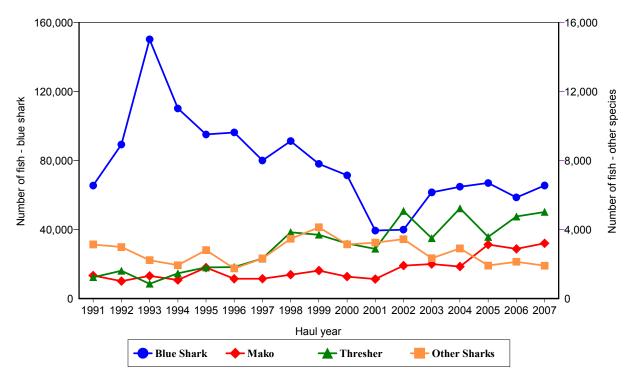


Figure A6. Annual catch of blue shark, mako shark, thresher shark, and other sharks by longline vessels based and landing in Hawaii, 1991-2007. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:36:22AM]

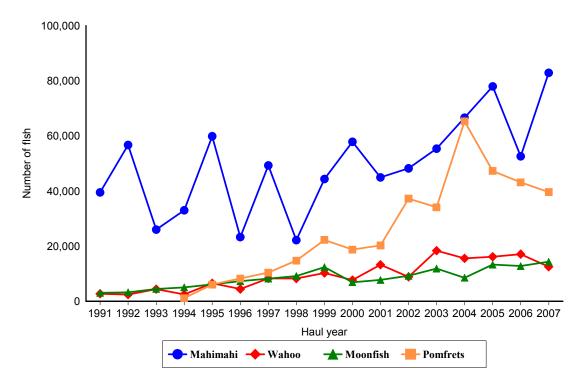


Figure A7. Annual catch of mahimahi, moonfish, pomfret, and wahoo by longline vessels based and landing in Hawaii, 1991-2007. [PIFSC IMS, Longline Logbook Data, 6/2/2008 10:36:22AM]