

The Hawaii-based Longline Logbook Summary Report January–December 2013¹

Pacific Islands Fisheries Science Center
Fisheries Monitoring Branch

This annual report summarizes data on fish catch and fishing effort by Hawaii-based longline vessels for calendar year 2013. Results are based on the date gear was hauled, as reported by vessel operators to the National Marine Fisheries Service in federal logbooks of daily fishing activity. The report covers all longline operations completed in 2013.

During 2013, 135 vessels were active in the Hawaii-based fleet, six more vessels than in 2012 (Table 1, Fig. 1); participation in the fishery has trended upward slightly since 2010. Longline fishers made 1,441 longline trips in 2013 (2 less than in 2012), including 1,383 using deep-set gear to target tuna (up 23 trips from 2012) and 58 using shallow-set gear to target swordfish (down 25 trips) (Table 1, Fig. 2). The Hawaii-based longline fishery deployed a record 48 million hooks in 2013, up 2.5 million hooks from 2012 (Table 1, Fig. 3). The number of hooks has been on an increasing trend, almost tripling since 1994 when the Hawaii longline limited entry program replaced the 1991-94 longline entry moratorium. A growing proportion of hooks are being set outside the U.S. Exclusive Economic Zone (EEZ) — 70% of the total hooks set in 2013. The remainder were deployed in the main Hawaiian Islands EEZ (20%), Northwestern Hawaiian Islands EEZ (7%), and in the EEZ of the Pacific Remote Island Areas (PRIA, consisting of U.S. possessions Wake Island, Jarvis Island, Howland Island, Baker Island, Kingman Reef, Palmyra Atoll, and Johnston Atoll) (3%).

In 2013, the Hawaii longline fleet caught a record 192,814 bigeye tuna (Table 1, Fig. 4), 20% more than in 2012. The trend of bigeye tuna catch has been upward, more than quadrupling since the first year of logbook monitoring in 1991. The albacore catch decreased to 15,086 fish in 2013; down 51% from 2012 and well below the record catch in 1997. The catch of yellowfin tuna also decreased by 31% in 2013 to 19,220 fish.

The 2013 swordfish catch was 14,989 fish (Table 1, Fig. 5); 16% lower than the 2012 catch. The catch of striped marlin was 12,923 fish in 2013, a 38% increase compared to 2012. The catch of blue marlin in 2013 was 4,011 fish, up 18% from 2012. The catch of swordfish has trended downward from 2007. Although striped marlin and blue marlin catches were considerably higher in 2013 than the previous year, increases of this magnitude were consistent with the observed range of inter-annual variation over the 22-year period of logbook records.

In 2013, the Hawaii longline fleet caught 63,895 sharks and kept just 1% of them (Table 1, Fig. 6). Blue shark comprised 82% of the total shark catch (52,155 fish). The fleet also caught 3,729 mako sharks and a 6,550 thresher sharks. Catches of mako and thresher sharks have trended upward, whereas those of blue shark have been relatively steady during the last eleven years (Fig. 6).

¹ PIFSC Data Report DR-14-016
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In 2013, the Hawaii longline catch of other key pelagic species included 80,357 mahimahi, record numbers of pomfret (78,719 fish) and moonfish (23,417 fish) and 33,556 oilfish, and 14,266 wahoo (Table 1, Fig. 7). Catches of mahimahi, moonfish, pomfrets, and oilfish (not shown in graph) have trended higher while the catches ono have remained relatively stable.

The longline logbook statistics reported above refer to all fishing areas combined. Summary catch and effort for 2013 were also 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. Summary statistics for the entire fishing area in 2013 are also presented for each distinct trip type: swordfish-targeted trips using shallow-set gear (Table 7) and tuna-targeted trips deploying deep-set gear (Table 8).

This report is available in both PDF and HTML formats on the PIFSC website at <http://www.pifsc.noaa.gov/fmb/reports.php>. The website site also provides quarterly and yearly charts and an archive of quarterly and annual summary tables of fish catch and fishing effort from 1991 to the 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. Annual summary report of fishing effort and 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, 9/12/2014 7:38:00AM].

| Report Coverage | | Number of vessels active | |
|-----------------|----------------|--------------------------|------------|
| Time Period | 2013 | | 135 |
| Fishing Area | All Areas | Number of trips | 1,441 |
| Trip Types | All Trip Types | Number of sets | 19,734 |
| | | Number of hooks set | 47,979,451 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|--|----------------|----------------|-----------------|-------------------------------------|
| Billfishes | | | | |
| Blue marlin | 4,011 | 3,977 | 34 | 0.08 |
| Striped marlin | 12,923 | 12,823 | 100 | 0.27 |
| Shortbill spearfish | 15,034 | 14,962 | 72 | 0.31 |
| Swordfish | 14,989 | 13,492 | 1,497 | 0.31 |
| Other billfishes | 467 | 453 | 14 | 0.01 |
| Total | 47,424 | 45,707 | 1,717 | 0.99 |
| Sharks | | | | |
| Blue shark | 52,155 | 22 | 52,133 | 1.09 |
| Mako sharks | 3,729 | 582 | 3,147 | 0.08 |
| Thresher sharks | 6,550 | 72 | 6,478 | 0.14 |
| Oceanic whitetip shark | 487 | 3 | 484 | 0.01 |
| Silky shark | 271 | 1 | 270 | 0.01 |
| Other sharks | 703 | 3 | 700 | 0.01 |
| Total | 63,895 | 683 | 63,212 | 1.33 |
| Tunas | | | | |
| Albacore | 15,086 | 14,934 | 152 | 0.31 |
| Bigeye tuna | 192,814 | 189,594 | 3,220 | 4.02 |
| Yellowfin tuna | 19,220 | 19,025 | 195 | 0.40 |
| Bluefin tuna | 7 | 7 | 0 | 0.00 |
| Skipjack tuna | 32,183 | 31,768 | 415 | 0.67 |
| Other tunas | 20 | 6 | 14 | 0.00 |
| Total | 259,330 | 255,334 | 3,996 | 5.41 |
| Other PMUS | | | | |
| Mahimahi | 80,357 | 79,656 | 701 | 1.67 |
| Moonfish | 23,417 | 23,229 | 188 | 0.49 |
| Wahoo | 14,266 | 14,208 | 58 | 0.30 |
| Oilfish | 33,566 | 32,649 | 917 | 0.70 |
| Pomfret | 78,719 | 78,263 | 456 | 1.64 |
| Total | 230,325 | 228,005 | 2,320 | 4.80 |
| Total PMUS | 600,974 | 529,729 | 71,245 | 12.53 |
| Total Non-PMUS | 5,252 | 1,185 | 4,067 | 0.11 |
| Total All Species | 606,226 | 530,914 | 75,312 | 12.64 |

Table 2. Annual summary report of fishing effort and 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, 9/12/2014 7:38:00AM].

| Report Coverage | | Number of vessels active | | 132 |
|-----------------|---------------------------|--------------------------|--|-----------|
| Time Period | 2013 | Number of trips | | 637 |
| Fishing Area | Main Hawaiian Islands EEZ | Number of sets | | 3,960 |
| Trip Types | All Trip Types | Number of hooks set | | 9,642,200 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|--|----------------|---------------|-----------------|-------------------------------------|
| Billfishes | | | | |
| Blue marlin | 889 | 873 | 16 | 0.09 |
| Striped marlin | 3,865 | 3,820 | 45 | 0.40 |
| Shortbill spearfish | 3,769 | 3,752 | 17 | 0.39 |
| Swordfish | 905 | 673 | 232 | 0.09 |
| Other billfishes | 134 | 131 | 3 | 0.01 |
| Total | 9,562 | 9,249 | 313 | 0.99 |
| Sharks | | | | |
| Blue shark | 12,415 | 21 | 12,394 | 1.29 |
| Mako sharks | 502 | 129 | 373 | 0.05 |
| Thresher sharks | 667 | 27 | 640 | 0.07 |
| Oceanic whitetip shark | 116 | 2 | 114 | 0.01 |
| Silky shark | 16 | 1 | 15 | 0.00 |
| Other sharks | 100 | 1 | 99 | 0.01 |
| Total | 13,816 | 181 | 13,635 | 1.43 |
| Tunas | | | | |
| Albacore | 1,590 | 1,583 | 7 | 0.16 |
| Bigeye tuna | 34,892 | 34,364 | 528 | 3.62 |
| Yellowfin tuna | 5,391 | 5,318 | 73 | 0.56 |
| Bluefin tuna | 0 | 0 | 0 | 0.00 |
| Skipjack tuna | 7,496 | 7,428 | 68 | 0.78 |
| Other tunas | 5 | 5 | 0 | 0.00 |
| Total | 49,374 | 48,698 | 676 | 5.12 |
| Other PMUS | | | | |
| Mahimahi | 13,587 | 13,511 | 76 | 1.41 |
| Moonfish | 1,983 | 1,975 | 8 | 0.21 |
| Wahoo | 2,213 | 2,204 | 9 | 0.23 |
| Oilfish | 7,965 | 7,788 | 177 | 0.83 |
| Pomfret | 8,410 | 8,323 | 87 | 0.87 |
| Total | 34,158 | 33,801 | 357 | 3.54 |
| Total PMUS | 106,910 | 91,929 | 14,981 | 11.09 |
| Total Non-PMUS | 1,867 | 733 | 1,134 | 0.19 |
| Total All Species | 108,777 | 92,662 | 16,115 | 11.28 |

Table 3. Annual summary report of fishing effort and 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, 9/12/2014 7:38:00AM].

| Report Coverage | | Number of vessels active | |
|-----------------|-----------------------------------|--------------------------|-----------|
| Time Period | 2013 | | 95 |
| Fishing Area | Northwestern Hawaiian Islands EEZ | Number of trips | 204 |
| Trip Types | All Trip Types | Number of sets | 1,427 |
| | | Number of hooks set | 3,377,447 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|--|---------------|---------------|-----------------|-------------------------------------|
| Billfishes | | | | |
| Blue marlin | 335 | 334 | 1 | 0.10 |
| Striped marlin | 2,069 | 2,047 | 22 | 0.61 |
| Shortbill spearfish | 1,696 | 1,685 | 11 | 0.50 |
| Swordfish | 1,526 | 1,423 | 103 | 0.45 |
| Other billfishes | 61 | 61 | 0 | 0.02 |
| Total | 5,687 | 5,550 | 137 | 1.68 |
| Sharks | | | | |
| Blue shark | 7,201 | 0 | 7,201 | 2.13 |
| Mako sharks | 281 | 42 | 239 | 0.08 |
| Thresher sharks | 304 | 7 | 297 | 0.09 |
| Oceanic whitetip shark | 48 | 0 | 48 | 0.01 |
| Silky shark | 4 | 0 | 4 | 0.00 |
| Other sharks | 39 | 0 | 39 | 0.01 |
| Total | 7,877 | 49 | 7,828 | 2.33 |
| Tunas | | | | |
| Albacore | 1,898 | 1,891 | 7 | 0.56 |
| Bigeye tuna | 14,247 | 13,785 | 462 | 4.22 |
| Yellowfin tuna | 2,394 | 2,341 | 53 | 0.71 |
| Bluefin tuna | 0 | 0 | 0 | 0.00 |
| Skipjack tuna | 2,979 | 2,955 | 24 | 0.88 |
| Other tunas | 0 | 0 | 0 | 0.00 |
| Total | 21,518 | 20,972 | 546 | 6.37 |
| Other PMUS | | | | |
| Mahimahi | 4,761 | 4,725 | 36 | 1.41 |
| Moonfish | 976 | 976 | 0 | 0.29 |
| Wahoo | 705 | 701 | 4 | 0.21 |
| Oilfish | 2,688 | 2,640 | 48 | 0.80 |
| Pomfret | 2,595 | 2,565 | 30 | 0.77 |
| Total | 11,725 | 11,607 | 118 | 3.47 |
| Total PMUS | 46,807 | 38,178 | 8,629 | 13.86 |
| Total Non-PMUS | 138 | 47 | 91 | 0.04 |
| Total All Species | 46,945 | 38,225 | 8,720 | 13.90 |

Table 4. Annual summary report of fishing effort and 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, 9/12/2014 7:38:00AM].

| Report Coverage | | Number of vessels active | | 63 |
|-----------------|--|--------------------------|--|-----------|
| Time Period | 2013 | Number of trips | | 93 |
| Fishing Area | Pacific Remote Island Areas (PRIA) EEZ | Number of sets | | 480 |
| Trip Types | All Trip Types | Number of hooks set | | 1,217,002 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|--|---------------|---------------|-----------------|-------------------------------------|
| Billfishes | | | | |
| Blue marlin | 203 | 202 | 1 | 0.17 |
| Striped marlin | 174 | 174 | 0 | 0.14 |
| Shortbill spearfish | 493 | 489 | 4 | 0.41 |
| Swordfish | 113 | 109 | 4 | 0.09 |
| Other billfishes | 33 | 33 | 0 | 0.03 |
| Total | 1,016 | 1,007 | 9 | 0.83 |
| Sharks | | | | |
| Blue shark | 1,296 | 0 | 1,296 | 1.06 |
| Mako sharks | 82 | 9 | 73 | 0.07 |
| Thresher sharks | 248 | 1 | 247 | 0.20 |
| Oceanic whitetip shark | 159 | 0 | 159 | 0.13 |
| Silky shark | 226 | 0 | 226 | 0.19 |
| Other sharks | 317 | 0 | 317 | 0.26 |
| Total | 2,328 | 10 | 2,318 | 1.91 |
| Tunas | | | | |
| Albacore | 1,478 | 1,467 | 11 | 1.21 |
| Bigeye tuna | 4,548 | 4,459 | 89 | 3.74 |
| Yellowfin tuna | 958 | 933 | 25 | 0.79 |
| Bluefin tuna | 0 | 0 | 0 | 0.00 |
| Skipjack tuna | 1,153 | 1,124 | 29 | 0.95 |
| Other tunas | 0 | 0 | 0 | 0.00 |
| Total | 8,137 | 7,983 | 154 | 6.69 |
| Other PMUS | | | | |
| Mahimahi | 1,001 | 999 | 2 | 0.82 |
| Moonfish | 120 | 118 | 2 | 0.10 |
| Wahoo | 800 | 790 | 10 | 0.66 |
| Oilfish | 865 | 852 | 13 | 0.71 |
| Pomfret | 2,569 | 2,526 | 43 | 2.11 |
| Total | 5,355 | 5,285 | 70 | 4.40 |
| Total PMUS | 16,836 | 14,285 | 2,551 | 13.83 |
| Total Non-PMUS | 135 | 10 | 125 | 0.11 |
| Total All Species | 16,971 | 14,295 | 2,676 | 13.94 |

Table 5. Annual summary report of fishing effort and 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, 9/12/2014 7:38:00AM].

| Report Coverage | | Number of vessels active | | 135 | |
|-----------------|---------------------------------|--------------------------|--|------------|--|
| Time Period | 2013 | Number of trips | | 793 | |
| Fishing Area | Hawaiian Islands EEZ + PRIA EEZ | Number of sets | | 5,867 | |
| Trip Types | All Trip Types | Number of hooks set | | 14,236,649 | |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|--|----------------|----------------|-----------------|-------------------------------------|
| Billfishes | | | | |
| Blue marlin | 1,427 | 1,409 | 18 | 0.10 |
| Striped marlin | 6,108 | 6,041 | 67 | 0.43 |
| Shortbill spearfish | 5,958 | 5,926 | 32 | 0.42 |
| Swordfish | 2,544 | 2,205 | 339 | 0.18 |
| Other billfishes | 228 | 225 | 3 | 0.02 |
| Total | 16,265 | 15,806 | 459 | 1.14 |
| Sharks | | | | |
| Blue shark | 20,912 | 21 | 20,891 | 1.47 |
| Mako sharks | 865 | 180 | 685 | 0.06 |
| Thresher sharks | 1,219 | 35 | 1,184 | 0.09 |
| Oceanic whitetip shark | 323 | 2 | 321 | 0.02 |
| Silky shark | 246 | 1 | 245 | 0.02 |
| Other sharks | 456 | 1 | 455 | 0.03 |
| Total | 24,021 | 240 | 23,781 | 1.69 |
| Tunas | | | | |
| Albacore | 4,966 | 4,941 | 25 | 0.35 |
| Bigeye tuna | 53,687 | 52,608 | 1,079 | 3.77 |
| Yellowfin tuna | 8,743 | 8,592 | 151 | 0.61 |
| Bluefin tuna | 0 | 0 | 0 | 0.00 |
| Skipjack tuna | 11,628 | 11,507 | 121 | 0.82 |
| Other tunas | 5 | 5 | 0 | 0.00 |
| Total | 79,029 | 77,653 | 1,376 | 5.55 |
| Other PMUS | | | | |
| Mahimahi | 19,349 | 19,235 | 114 | 1.36 |
| Moonfish | 3,079 | 3,069 | 10 | 0.22 |
| Wahoo | 3,718 | 3,695 | 23 | 0.26 |
| Oilfish | 11,518 | 11,280 | 238 | 0.81 |
| Pomfret | 13,574 | 13,414 | 160 | 0.95 |
| Total | 51,238 | 50,693 | 545 | 3.60 |
| Total PMUS | 170,553 | 144,392 | 26,161 | 11.98 |
| Total Non-PMUS | 2,140 | 790 | 1,350 | 0.15 |
| Total All Species | 172,693 | 145,182 | 27,511 | 12.13 |

Table 6. Annual summary report of fishing effort and 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, 9/12/2014 7:38:00AM].

| Report Coverage | | Number of vessels active | |
|-----------------|------------------|--------------------------|------------|
| Time Period | 2013 | | 132 |
| Fishing Area | Outside U.S. EEZ | Number of trips | 1,216 |
| Trip Types | All Trip Types | Number of sets | 13,867 |
| | | Number of hooks set | 33,742,802 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|--|----------------|----------------|-----------------|-------------------------------------|
| Billfishes | | | | |
| Blue marlin | 2,584 | 2,568 | 16 | 0.08 |
| Striped marlin | 6,815 | 6,782 | 33 | 0.20 |
| Shortbill spearfish | 9,076 | 9,036 | 40 | 0.27 |
| Swordfish | 12,445 | 11,287 | 1,158 | 0.37 |
| Other billfishes | 239 | 228 | 11 | 0.01 |
| Total | 31,159 | 29,901 | 1,258 | 0.92 |
| Sharks | | | | |
| Blue shark | 31,243 | 1 | 31,242 | 0.93 |
| Mako sharks | 2,864 | 402 | 2,462 | 0.08 |
| Thresher sharks | 5,331 | 37 | 5,294 | 0.16 |
| Oceanic whitetip shark | 164 | 1 | 163 | 0.00 |
| Silky shark | 25 | 0 | 25 | 0.00 |
| Other sharks | 247 | 2 | 245 | 0.01 |
| Total | 39,874 | 443 | 39,431 | 1.18 |
| Tunas | | | | |
| Albacore | 10,120 | 9,993 | 127 | 0.30 |
| Bigeye tuna | 139,127 | 136,986 | 2,141 | 4.12 |
| Yellowfin tuna | 10,477 | 10,433 | 44 | 0.31 |
| Bluefin tuna | 7 | 7 | 0 | 0.00 |
| Skipjack tuna | 20,555 | 20,261 | 294 | 0.61 |
| Other tunas | 15 | 1 | 14 | 0.00 |
| Total | 180,301 | 177,681 | 2,620 | 5.34 |
| Other PMUS | | | | |
| Mahimahi | 61,008 | 60,421 | 587 | 1.81 |
| Moonfish | 20,338 | 20,160 | 178 | 0.60 |
| Wahoo | 10,548 | 10,513 | 35 | 0.31 |
| Oilfish | 22,048 | 21,369 | 679 | 0.65 |
| Pomfret | 65,145 | 64,849 | 296 | 1.93 |
| Total | 179,087 | 177,312 | 1,775 | 5.31 |
| Total PMUS | 430,421 | 385,337 | 45,084 | 12.76 |
| Total Non-PMUS | 3,112 | 395 | 2,717 | 0.09 |
| Total All Species | 433,533 | 385,732 | 47,801 | 12.85 |

Table 7. Annual summary report of fishing effort and 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, 9/12/2014 7:38:00AM].

| Report Coverage | | Number of vessels active | | 15 |
|-----------------|--------------------------|--------------------------|--|-----------|
| Time Period | 2013 | Number of trips | | 58 |
| Fishing Area | All Areas | Number of sets | | 962 |
| Trip Types | Swordfish Targeted Trips | Number of hooks set | | 1,060,341 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|--|---------------|---------------|-----------------|-------------------------------------|
| Billfishes | | | | |
| Blue marlin | 63 | 62 | 1 | 0.06 |
| Striped marlin | 390 | 378 | 12 | 0.37 |
| Shortbill spearfish | 116 | 107 | 9 | 0.11 |
| Swordfish | 10,729 | 9,795 | 934 | 10.12 |
| Other billfishes | 8 | 8 | 0 | 0.01 |
| Total | 11,306 | 10,350 | 956 | 10.66 |
| Sharks | | | | |
| Blue shark | 5,149 | 0 | 5,149 | 4.86 |
| Mako sharks | 1,033 | 86 | 947 | 0.97 |
| Thresher sharks | 50 | 0 | 50 | 0.05 |
| Oceanic whitetip shark | 29 | 0 | 29 | 0.03 |
| Silky shark | 0 | 0 | 0 | 0.00 |
| Other sharks | 18 | 0 | 18 | 0.02 |
| Total | 6,279 | 86 | 6,193 | 5.92 |
| Tunas | | | | |
| Albacore | 561 | 469 | 92 | 0.53 |
| Bigeye tuna | 452 | 419 | 33 | 0.43 |
| Yellowfin tuna | 202 | 202 | 0 | 0.19 |
| Bluefin tuna | 3 | 3 | 0 | 0.00 |
| Skipjack tuna | 17 | 16 | 1 | 0.02 |
| Other tunas | 0 | 0 | 0 | 0.00 |
| Total | 1,235 | 1,109 | 126 | 1.16 |
| Other PMUS | | | | |
| Mahimahi | 3,674 | 3,518 | 156 | 3.46 |
| Moonfish | 241 | 147 | 94 | 0.23 |
| Wahoo | 30 | 23 | 7 | 0.03 |
| Oilfish | 1,083 | 700 | 383 | 1.02 |
| Pomfret | 132 | 87 | 45 | 0.12 |
| Total | 5,160 | 4,475 | 685 | 4.87 |
| Total PMUS | 23,980 | 16,020 | 7,960 | 22.62 |
| Total Non-PMUS | 16 | 2 | 14 | 0.02 |
| Total All Species | 23,996 | 16,022 | 7,974 | 22.63 |

Table 8. Annual summary report of fishing effort and 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, 9/12/2014 7:38:00AM].

| Report Coverage | | Number of vessels active | |
|-----------------|---------------------|--------------------------|------------|
| Time Period | 2013 | | 135 |
| Fishing Area | All Areas | Number of trips | 1,383 |
| Trip Types | Tuna Targeted Trips | Number of sets | 18,772 |
| | | Number of hooks set | 46,919,110 |

| Pelagic Management Unit Species (PMUS) | Number Caught | Number Kept | Number Released | CPUE - Number Caught per 1000 hooks |
|--|----------------|----------------|-----------------|-------------------------------------|
| Billfishes | | | | |
| Blue marlin | 3,948 | 3,915 | 33 | 0.08 |
| Striped marlin | 12,533 | 12,445 | 88 | 0.27 |
| Shortbill spearfish | 14,918 | 14,855 | 63 | 0.32 |
| Swordfish | 4,260 | 3,697 | 563 | 0.09 |
| Other billfishes | 459 | 445 | 14 | 0.01 |
| Total | 36,118 | 35,357 | 761 | 0.77 |
| Sharks | | | | |
| Blue shark | 47,006 | 22 | 46,984 | 1.00 |
| Mako sharks | 2,696 | 496 | 2,200 | 0.06 |
| Thresher sharks | 6,500 | 72 | 6,428 | 0.14 |
| Oceanic whitetip shark | 458 | 3 | 455 | 0.01 |
| Silky shark | 271 | 1 | 270 | 0.01 |
| Other sharks | 685 | 3 | 682 | 0.01 |
| Total | 57,616 | 597 | 57,019 | 1.23 |
| Tunas | | | | |
| Albacore | 14,525 | 14,465 | 60 | 0.31 |
| Bigeye tuna | 192,362 | 189,175 | 3,187 | 4.10 |
| Yellowfin tuna | 19,018 | 18,823 | 195 | 0.41 |
| Bluefin tuna | 4 | 4 | 0 | 0.00 |
| Skipjack tuna | 32,166 | 31,752 | 414 | 0.69 |
| Other tunas | 20 | 6 | 14 | 0.00 |
| Total | 258,095 | 254,225 | 3,870 | 5.50 |
| Other PMUS | | | | |
| Mahimahi | 76,683 | 76,138 | 545 | 1.63 |
| Moonfish | 23,176 | 23,082 | 94 | 0.49 |
| Wahoo | 14,236 | 14,185 | 51 | 0.30 |
| Oilfish | 32,483 | 31,949 | 534 | 0.69 |
| Pomfret | 78,587 | 78,176 | 411 | 1.67 |
| Total | 225,165 | 223,530 | 1,635 | 4.80 |
| Total PMUS | 576,994 | 513,709 | 63,285 | 12.30 |
| Total Non-PMUS | 5,236 | 1,183 | 4,053 | 0.11 |
| Total All Species | 582,230 | 514,892 | 67,338 | 12.41 |

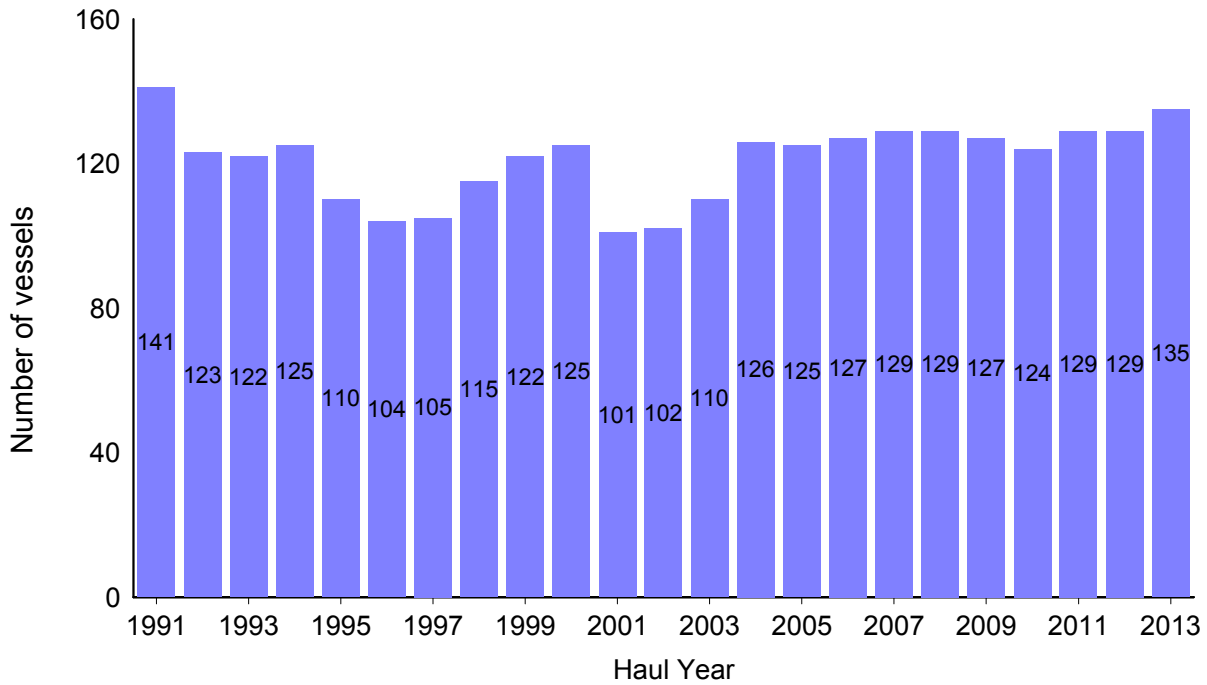


Figure 1. Number of active longline vessels based in Hawaii, 1991-2013. [PIFSC IMS, Longline Logbook Data, 10/23/2014 3:21:49PM].

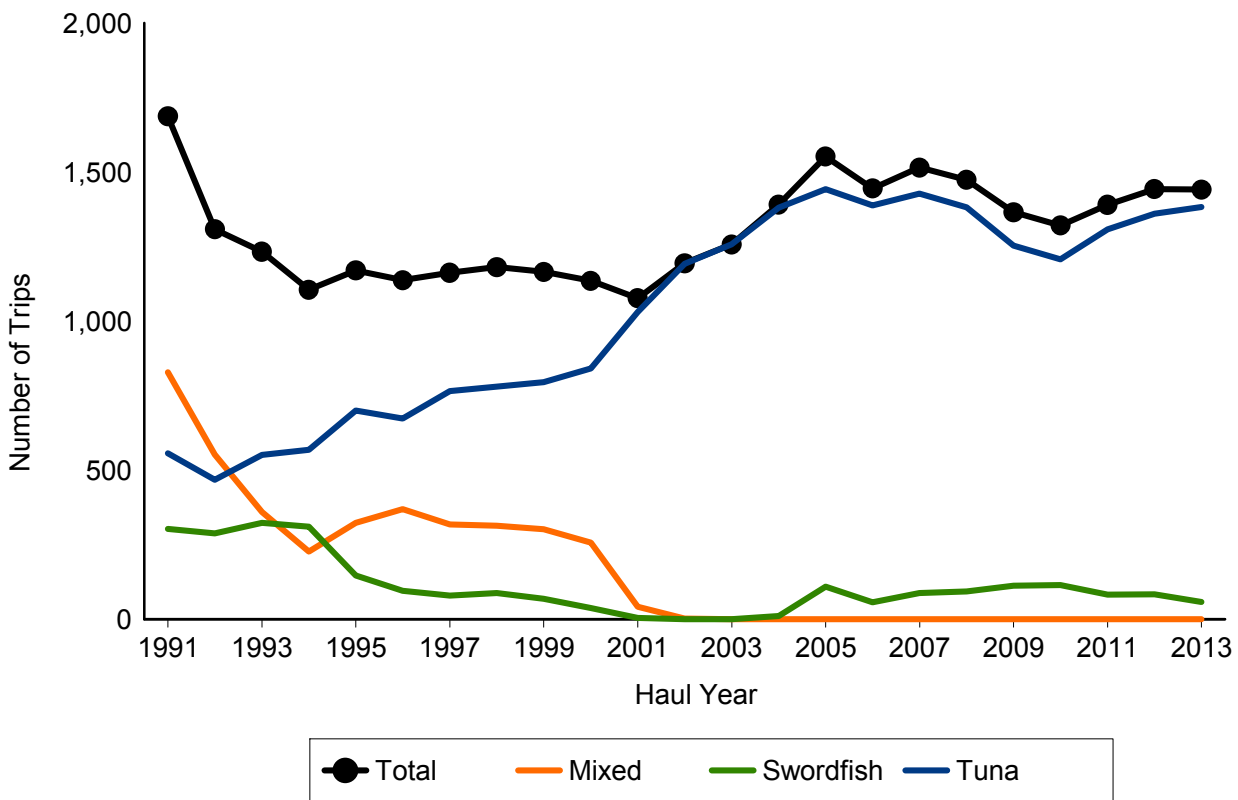


Figure 2. Number of fishing trips by longline vessels based in Hawaii, by trip type, 1991-2013. [PIFSC IMS, Longline Logbook Data, 10/23/2014 3:21:49PM].

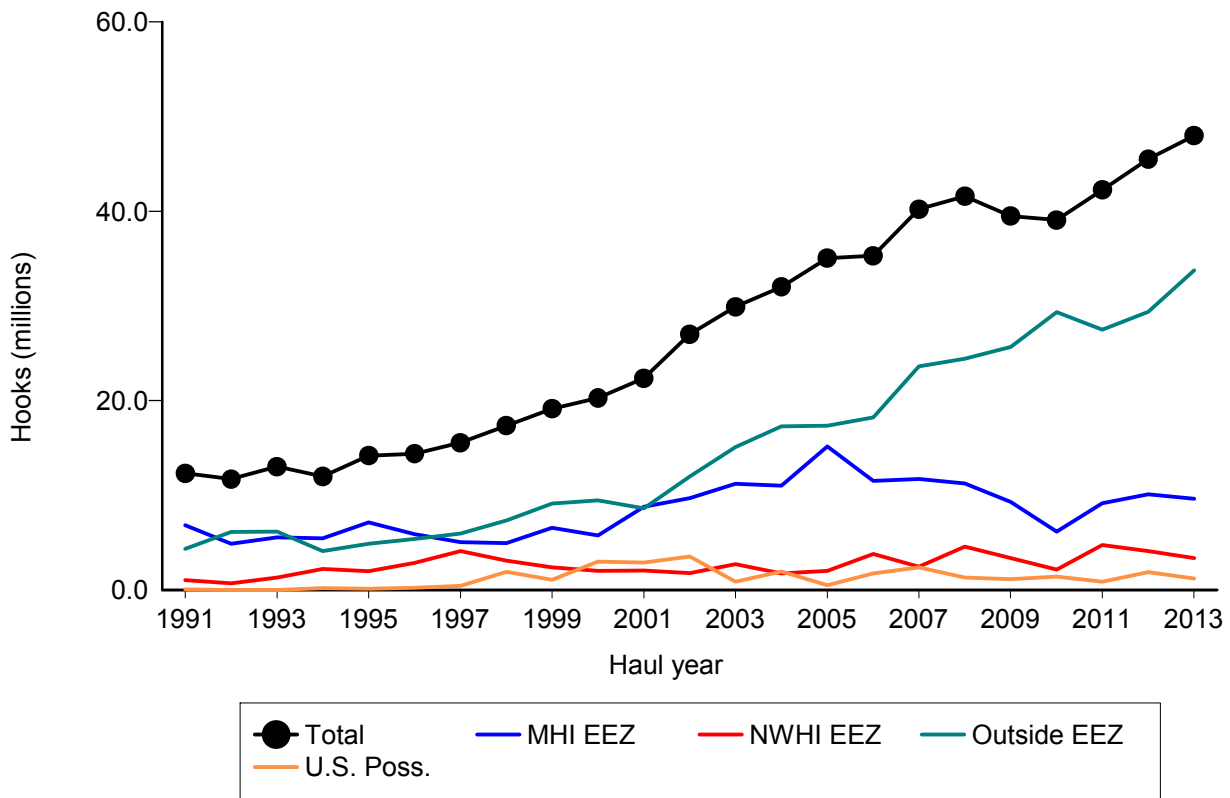


Figure 3. Number of hooks set by longline vessels based in Hawaii, by fishing area, 1991-2013. [PIFSC IMS, Longline Logbook Data, 10/23/2014 3:22:16PM]

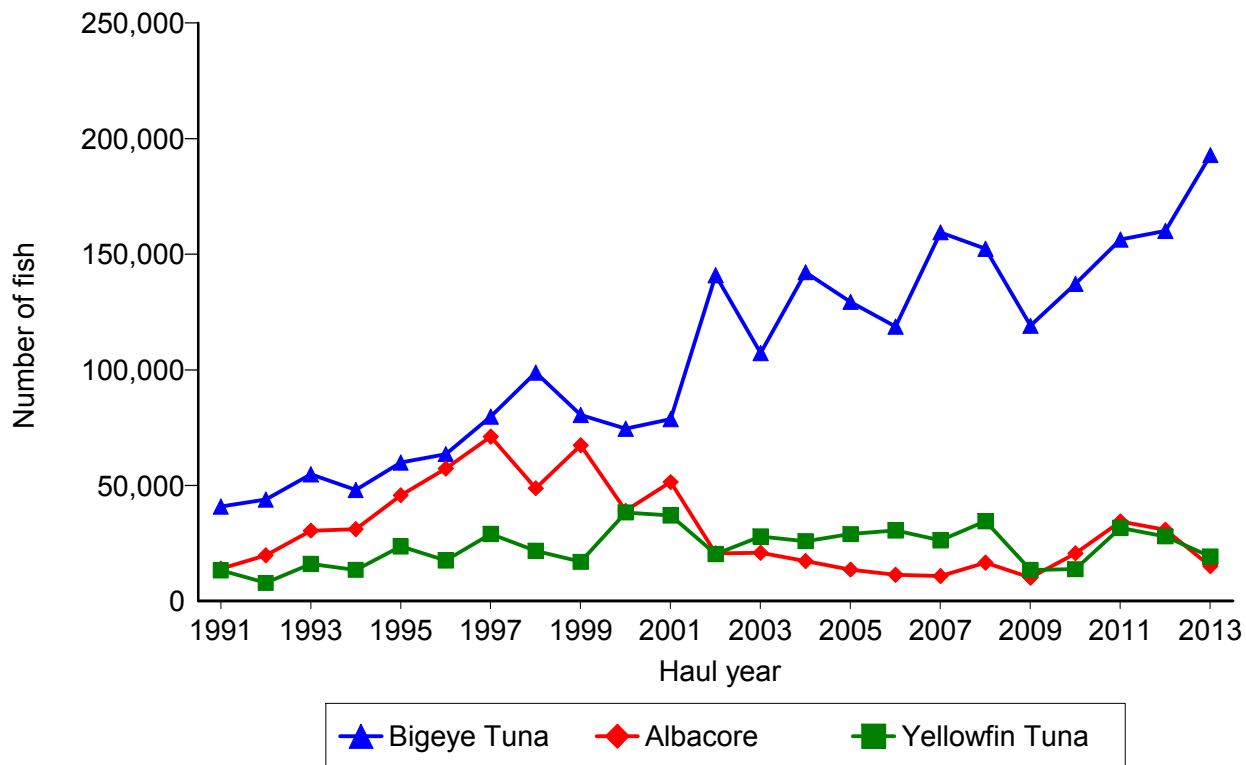


Figure 4. Annual catch of albacore, bigeye tuna, and yellowfin tuna by longline vessels based in Hawaii, 1991-2013 10/23/2014 3:22:41PM]

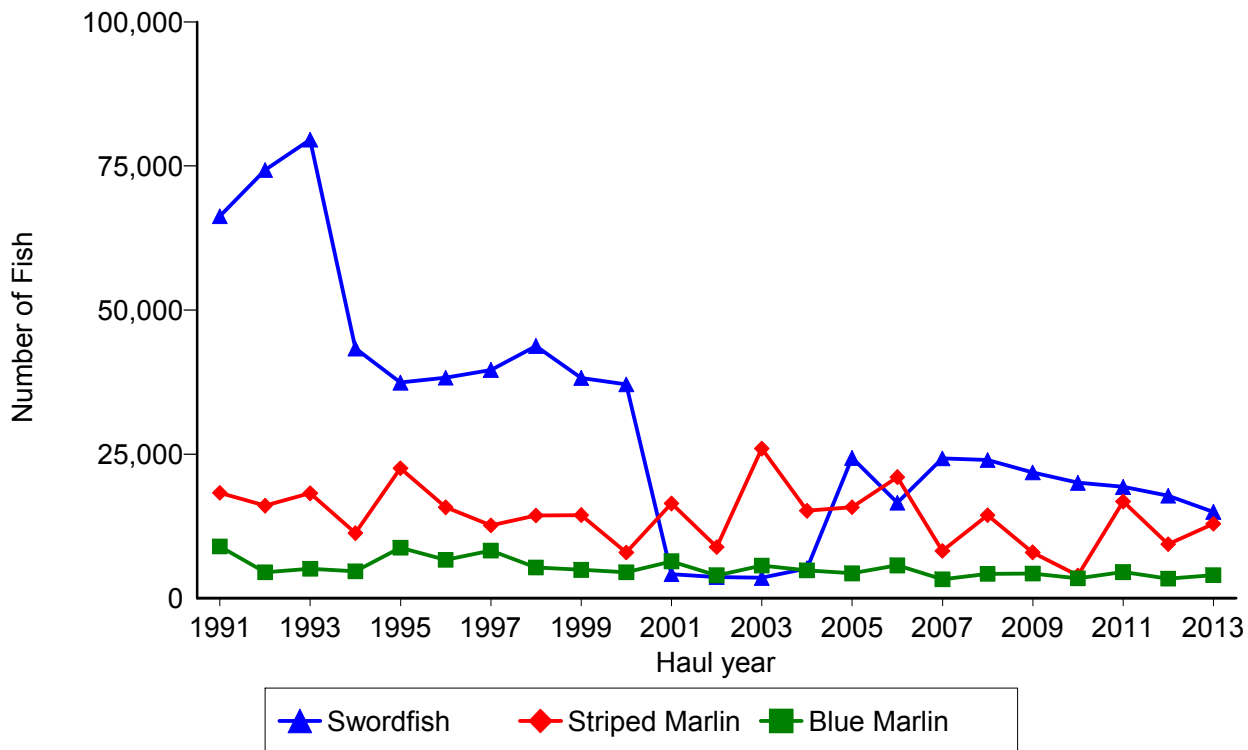


Figure 5. Annual catch of blue marlin, striped marlin, and swordfish by longline vessels based in Hawaii, 1991-2013. [PIFSC IMS, Longline Logbook Data, 10/23/2014 3:22:41PM]

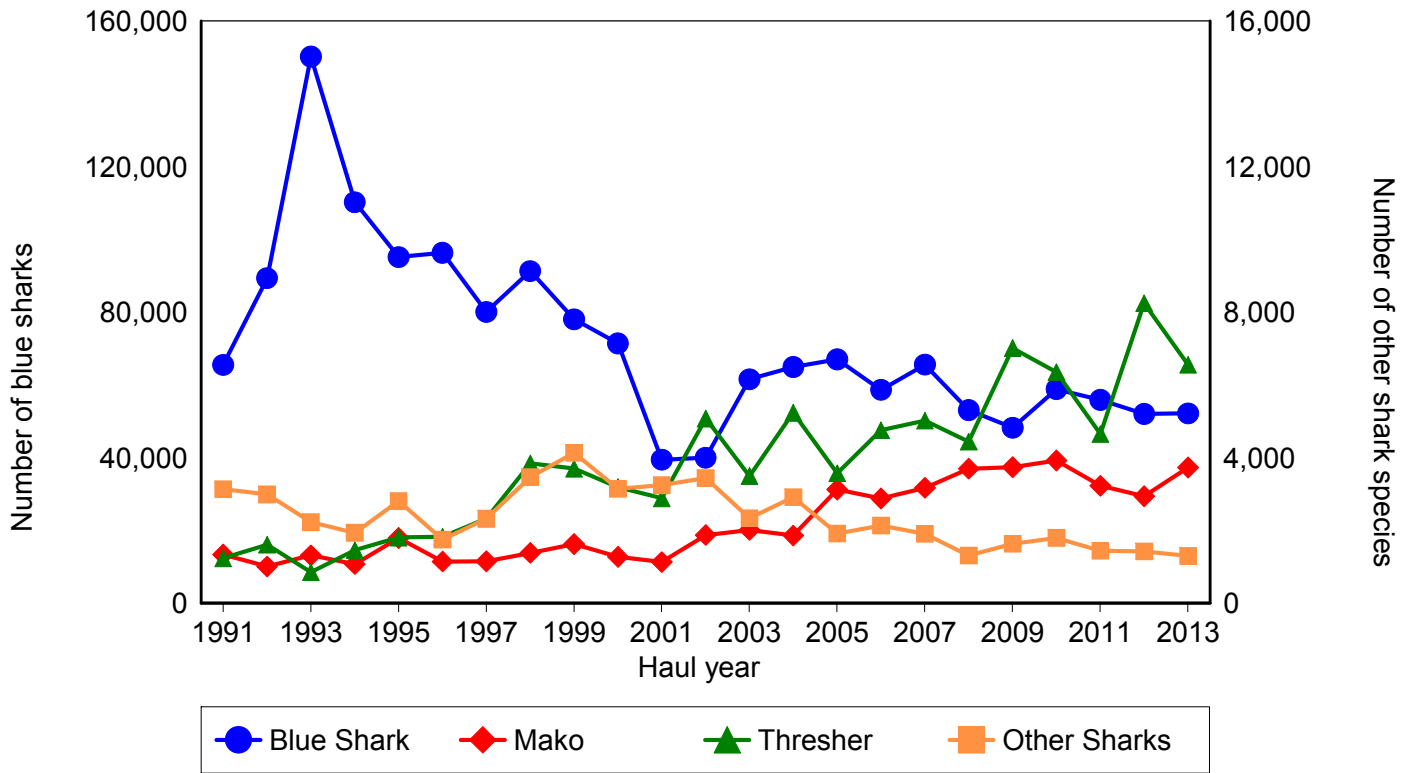


Figure 6. Annual catch of blue shark, mako shark, thresher shark, and other sharks by longline vessels based in Hawaii, 1991-2013. [PIFSC IMS, Longline Logbook Data, 10/23/2014 3:22:41PM]

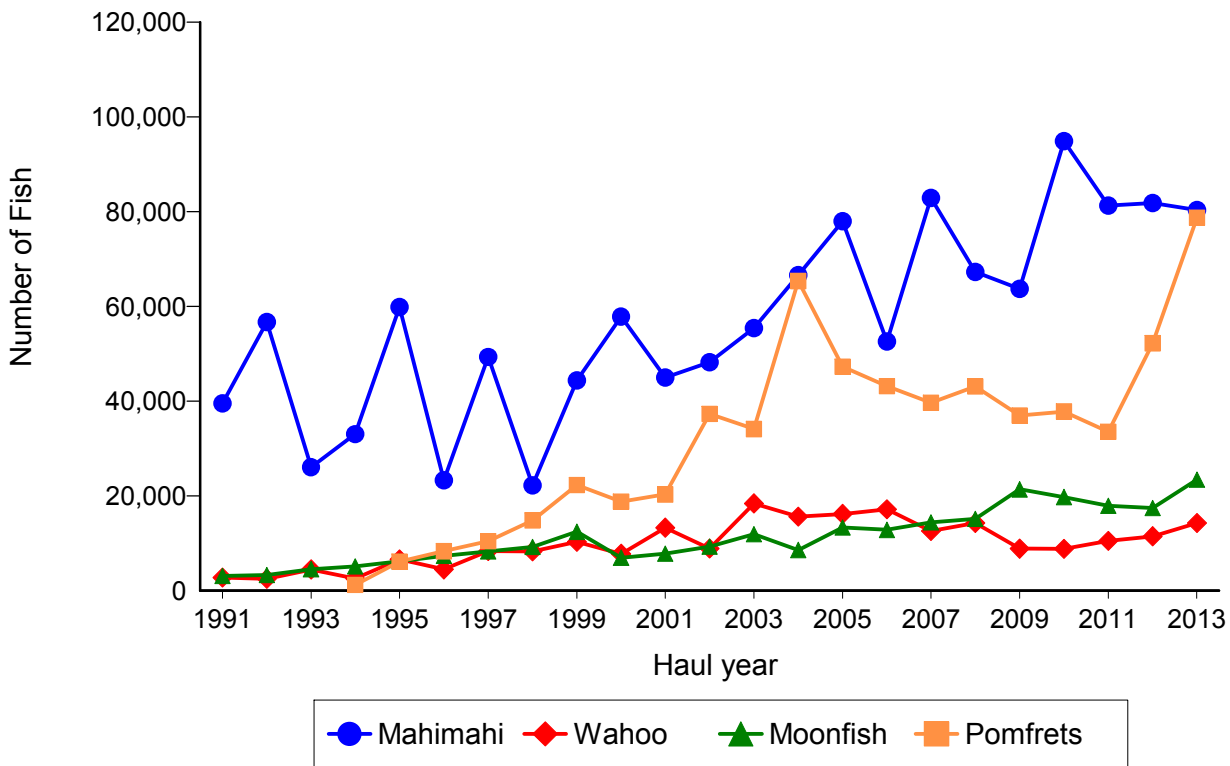


Figure 7. Annual catch of mahimahi, moonfish, pomfret, and wahoo by longline vessels based in Hawaii, 1991-2013. [PIFSC IMS, Longline Logbook Data, 10/23/2014 3:22:41PM]