

ESTIMATES OF THE CATCH AND EFFORT BY FOREIGN TUNA LONGLINERS
AND BAITBOATS IN THE FISHERY CONSERVATION ZONE OF THE
CENTRAL AND WESTERN PACIFIC, 1965-77

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March 1980

TABLE OF CONTENTS

| | Page |
|---|------|
| Introduction | 1 |
| Data sources | 1 |
| Japanese tuna longline statistics by 1° square [Data Set D1] | 1 |
| Japanese tuna longline statistics by 5° square [Data Set D2] | 2 |
| Taiwanese tuna longline statistics by 5° square [Data Set D3] | 2 |
| American Samoa tuna longline statistics [Data Set D4] | 2 |
| Japanese baitboat statistics [Data Set D5] | 2 |
| Procedures and assumptions | 3 |
| Boundaries | 3 |
| Apportioning | 3 |
| Raising factors | 4 |
| Average weights | 5 |
| Accuracy | 6 |
| The catch and effort tables | 6 |
| Improving estimates | 7 |

INTRODUCTION

Since passage of the Fishery Conservation and Management Act (FCMA), there has been an increasing need for information on the fishing activity of foreign vessels in the U.S. Fishery Conservation Zone (FCZ) and other areas of U.S. interest. A knowledge of foreign catch and fishing effort is essential for analysis of management policies, for appraisal of fishery development potentials, and for planning of fishery surveillance and enforcement activities.

In the case of billfishes, foreign catches in the FCZ are made by tuna longline vessels of Japan, Taiwan, and the Republic of Korea. The vessels usually direct their effort toward tunas and catch billfishes only incidentally.¹ The primary purpose of this report is to summarize available information on the nominal effort and the catch of tunas and billfishes by these foreign longline fleets in the FCZ of the central and western Pacific during the period 1965-77. In addition, the report presents estimates of the effort and tuna catch by Japanese baitboats fishing around Hawaii, Guam, the Northern Marianas, and other U.S. possessions.

In the following section the data sources and their characteristics and limitations are described. Then the data summarization and estimation procedures are discussed. Finally, the tables of resulting catch and effort statistics are presented, and suggestions are given for improving and updating the information.

DATA SOURCES

The estimates of foreign catch and effort were based on a variety of statistical sources. In this section the sources are systematically identified and described. For reference purposes a data set name is assigned to each source (Table 1).

Japanese Tuna Longline Statistics by 1° Square [Data Set D1]

This data set consists of records of Japanese tuna longline nominal effort (hooks fished and days fished) and associated catches of tuna and billfish species (number of fish) by month and 1° square. It covers only those 1° squares in the central and western Pacific overlapping the FCZ in Hawaii, American Samoa, and Guam, and only the years 1971-75. The data are unpublished, and were made available to the National Marine Fisheries Service (NMFS) by the Fisheries Agency of Japan. The data were provided in unraised form; estimates of total catch and effort in each time-area stratum were made by multiplying the sample data by raising factors taken from appropriate issues of "Annual Report of Effort and Catch Statistics by Area on Japanese Tuna Longline Fishery" published by the Fisheries Agency of Japan.

¹Under the FCMA, the U.S. claims jurisdiction over billfishes in the FCZ, but not over tunas.

Japanese Tuna Longline Statistics by 5° Square
[Data Set D2]

This data set consists of the well-known published statistics of monthly catch and effort by Japanese tuna longliners in 5° square areas. It is available throughout the range of the Japanese fleet in the Pacific for 1962-77. The data are published in the reference cited above. The catch and effort totals for a 5° square are equal to the sum of these statistics over all 1° squares in the 5° block, i.e., data set D2 may be considered an aggregation of data set D1. The statistics are published in raised form since 1967, and unraised form for the earlier years.

Taiwanese Tuna Longline Statistics by 5° Square
[Data Set D3]

This data set contains monthly statistics on catch of tunas and billfishes (number of fish and weight of fish) and effort (hooks fished) of Taiwanese high-seas longliners by 5° square throughout the range of the fleet. Data for 1967 through 1977 are available, provided to us by the Taiwan Fisheries Bureau. Unraised sample statistics were provided by Taiwan and then raised. Annual summaries of the unraised statistics and raising factors are published by the Taiwan Fisheries Bureau in "Annual Catch Statistics of Taiwan's Tuna Longline Fishery."

American Samoa Tuna Longline Statistics
[Data Set D4]

This unpublished data set contains the catch (number of fish) and effort (hooks fished and days fished) by sampled Taiwanese, Korean, and Japanese longliners based at Pago Pago and operating primarily in the South Pacific. The statistics are extracted from logbooks of daily fishing activity submitted by vessel captains to the Office of Marine Resources of the Government of American Samoa, and are available for the period 1960 through 1976.² The logbook records give daily effort and catch by species along with the midday position of the vessel. Not all vessels submit logbooks, so raising factors are necessary to project the sample catch and effort to the entire fleet. Computation of raising factors is facilitated by a second set of data for vessels based at Pago Pago. These are the records of cannery landings made available to us by Star-Kist Samoa, Inc. and Van Camp Sea Food Co. They provide direct estimates of the tonnage of fish landed by all vessels, those appearing in the logbook statistics and those not covered in the catch and effort sampling.

Japanese Baitboat Statistics
[Data Set D5]

This data set consists of catch and effort records of the Japanese baitboat fleet operating in the central and western Pacific. Catch (in metric tons) and nominal effort (vessel days) are published annually by

²Data for 1977 and 1978 are available, but are incomplete, so catch and effort estimates are possible only through 1976.

the Fisheries Agency of Japan in "Annual Report of Effort and Catch Statistics by Area, Japanese Skipjack Baitboat Fishery." The published records are given by 1° square and 10-day interval. In our analysis we used summaries by month and 1° square for the years 1970-77. On the average, the baitboat statistics cover about 80% of the actual catch and effort, so we raised the statistics by a factor of 1.25.

PROCEDURES AND ASSUMPTIONS

Boundaries

Figure 1 shows the boundaries we used for computing catch and effort within the FCZ around the Hawaiian Islands, American Samoa, Guam, the Northern Mariana Islands, and the various minor U.S. possessions, e.g., Wake Island, Johnston Atoll, Howland Island, Baker Island, Kingman Reef, Palmyra Island, and Jarvis Island. Boundaries are essentially as given in the Federal Register (vol. 42(44)-7 March 1977; vol. 43(7)-11 January 1978), except that we included Kingman Reef as a U.S. territory, and we assumed straight-line closures around parts of Jarvis Island, Howland Island, and Baker Island. Similarly, we drew a provisional boundary (dashed line) around the northern and northeastern part of the American Samoa FCZ (including Swains Island) and assumed a median-line separation between American Samoa and the Tokelau Islands.

The provisional boundaries drawn here were adopted to provide a basis for catch computations only. They are not to be construed as legal limits, nor do they prejudice any U.S. position regarding disputed claims or jurisdictional conflicts in the Pacific.

In addition to computing catches of tunas and billfishes and nominal effort within each of the 200-mile zones, or within the entire FCZ areas, we also computed these statistics for other more restricted zones around Hawaii, American Samoa, Guam, and the Northern Mariana Islands (Figures 2, 3, and 4). The boundaries adopted in these cases were selected primarily for illustrative purposes, and are not intended to reflect any preference with respect to fishery management policy. For the Hawaiian Islands, the chain was split into the main Hawaiian Islands and the Northwestern Hawaiian Islands (NWHI), with the dividing line at 161°W longitude (between Niihau Island and Nihoa Island). Catches and effort were computed within 50 miles, 100 miles, and 200 miles of the islands in each sector (Figure 2).

In the case of Guam, the Northern Mariana Islands, and American Samoa, a 50-mile zone was drawn and catches and effort were estimated for these zones as well as for the entire FCZ (Figures 3 and 4).

Apportioning

Estimates of nominal effort and the catch of tunas and billfishes were made by adding up the appropriate statistics for all 1° squares or 5° squares, or parts thereof, falling within the boundaries of the area of interest. In instances where the boundary of an area cut through a square, the distribution of catch and effort within the square was assumed to be homogeneous, and a part of the square's catch and effort was added to the area totals according to the proportion of the square falling within the area boundaries.

One-degree square statistics (D5) were used to estimate effort and catch of Japanese baitboat vessels around the Hawaiian Islands, Guam, and the Northern Marianas, and other U.S. possessions. One-degree square data were also used for Japanese longline catch and effort around Hawaii and Guam during 1971-75 (D1), and for all of the American Samoa longline catch and effort estimates (D4). In every other case 5° square statistics were used.

Raising Factors

The tuna longline fishery statistical systems of Japan and Taiwan are sampling systems, which means that there is not a complete enumeration or accounting of the catch and effort. Instead, only a sample of the logbooks from vessels operating in the Pacific is covered. The sample catch and effort statistics must be expanded to produce estimates of total catch and effort, using raising factors. Sampling coverage for Japanese tuna longline vessels is relatively high (Table 2). Coverage is proportional to size of the vessel for Japan-based boats. The raising factors for Japanese statistics are available only on an annual and Pacific-wide basis.

In the case of Taiwanese longliners, raising factors are available monthly (Table 3), but for all sizes of vessels combined and for the entire Pacific until 1977. Beginning in 1977, factors were computed by month and 5° square. Coverage of Taiwanese vessels is very low, being generally less than 20%.

For vessels based at Pago Pago, coverage is variable. From 50 to 95% of the vessels landing at Pago Pago submit logbooks containing detailed statistics on catch and effort. Since 1970 Korean vessels have been covered more completely than longliners from Taiwan, and for vessels of both flags the coverage rate has decreased considerably from the levels maintained during the 1960's.

In our initial analyses we computed raising factors for American Samoa as the product of (1) estimated average weight, taken from Taiwanese longline data for the area, and (2) ratio of landings by all vessels to landings by those vessels included in the logbook sampling. However, when these factors were applied to the sampled numerical catches the resulting estimates of total catch in weight were in most cases less than the recorded total cannery landings. This could happen if our average weight estimates were too low, or the proportion of the catch actually landed and recorded in cannery records was greater for sampled longliners [those submitting logbooks] than for other vessels, or the logbook catch data for sampled vessels was incomplete. Since no detailed information was available for evaluating these possible sources of error, we carried out the catch and effort estimation in a different manner. First we adjusted the billfish landings during each quarter to account for billfish which were landed at one of the canneries but did not appear in the statistics available to us. This adjustment was made assuming the ratio of billfish landings to tuna landings was the same at the two canneries. It was done separately for each vessel nationality. Next, the adjusted landings were multiplied by other correction factors to convert from dressed weights to round weights. These correction factors were 1.15 for yellowfin tuna, 1.16 for bigeye tuna, 1.2 for billfishes, and 1.0 for albacore and wahoo. Then, final correction factors were

computed by year, species (except billfishes were combined), nationality, and cannery as the ratios of total landings (adjusted as indicated above) to the corresponding total numbers of fish caught by the sampled vessels. These final factors were multiplied by the individual monthly catches in 1° cells (D4) and, after apportioning in the manner described above, the products were summed within each zone of interest. This procedure was followed for billfishes, albacore, yellowfin, bigeye, and wahoo. Thus for these species we assumed the total adjusted cannery landings were accurate and accounted for all fish caught. The remaining species are skipjack and bluefin tunas. These are very minor constituents of the catch and are neglected in the canneries' summary statistics. Therefore, for these species we estimated total catches in weight by simply multiplying the observed catches in number of fish by estimated average weights of 6.0 kg (skipjack tuna) and 52.6 kg (bluefin tuna).

The cannery statistics should account for virtually all tuna and billfish taken by the longliners based at Pago Pago, although small amounts which are not landed there may go unrecorded.

Adjustment factors were also used to estimate the total nominal fishing effort by American Samoa longliners. These were computed by nation, cannery, and year as the ratio of total vessel days of fishing by all vessels covered in the statistics of cannery landings to the number of vessel days fished by longliners appearing in the logbook sampling.

As mentioned in an earlier section, a raising factor of 1.25 was used to expand the sample Japanese baitboat catch and effort statistics.

Average Weights

The basic longline catch statistics of data sets D1, D2, D3, and D4 are expressed in number of fish taken. (Weight of catch is also reported by Taiwanese longliners (data set D3), but this information was available to us only in aggregate form.)

Longline catches in weight for Hawaii, Guam, the Northern Marianas, and minor U.S. possessions were estimated by multiplying catch in number by appropriate values of average weight. The average weight statistics came from two sources:

- (1) Average weights for catches in the Hawaiian FCZ and around Johnston Atoll were based on annual statistics from the Hawaiian domestic longline fleet, provided by the United Fishing Agency, Ltd. of Honolulu, Hawaii and the Hawaii Division of Fish and Game (Table 4).
- (2) The average weights of tunas and billfishes taken elsewhere by longliners of Taiwan and Japan were estimated from data obtained from the Fisheries Agency of Japan and from publications of the Taiwan Fisheries Bureau (Table 5).

Accuracy

Assuming the basic statistics we used are correct, the accuracy and reliability of our catch and effort estimates depend on two main conditions: (1) homogeneity of catch and effort distribution within the smallest space-time stratum under consideration, and (2) uniformity of sample coverage in time and space.

The first condition does not generally hold, as may be demonstrated by comparing estimates based on 5° square data with corresponding estimates based on 1° square statistics. A 5° breakdown of catch and effort statistics is simply too coarse for an accurate, detailed spatial analysis of fishing activity within the FCZ. Estimates based solely on 5° square data should therefore be viewed circumspectly.

Even greater problems are created by departures from the second condition. The use of a common ocean-wide raising factor may be perfectly adequate for ocean-wide estimates, but may lead to serious distortion in estimates of catch and fishing effort in small subareas of the ocean. Steps have recently been taken by the Taiwan Fisheries Bureau to improve their sampling system so that individual raising factors are available by month and 5° square.

Considering these factors, it is obvious that one cannot put a great deal of confidence in some of the catch and effort estimates. Nevertheless, these estimates are the best currently available.³

THE CATCH AND EFFORT TABLES

The estimated nominal effort and catch statistics are presented in Tables 6 through 91. Catches are stated in metric tons (mt). Effort is given in vessel days. In the case of Taiwan longline effort outside the American Samoa area, the effort figures were estimated by dividing the number of hooks fished by 2,000, which is approximately the average number of hooks fished per vessel day. In other cases effort was computed directly. An asterisk in the effort section denotes effort greater than zero but less than 1 vessel day. An asterisk in the catch columns means some fish were caught but less than 1 mt.

³A similar report has been released by the South Pacific Commission, Noumea, New Caledonia. See: Klawe, W. L. 1978. Estimates of catches of tunas and billfishes by the Japanese, Korean, and Taiwanese longliners from within the 200-mile economic zone of the member countries of the South Pacific Commission; SPC Occasional Paper No. 10

Longline catch estimates are presented for the following species:

| | |
|---------------------------|--------------------------------|
| albacore | <u>Thunnus alalunga</u> |
| yellowfin tuna | <u>T. albacares</u> |
| bigeye tuna | <u>T. obesus</u> |
| bluefin tuna ⁴ | <u>T. thynnus</u> |
| skipjack tuna | <u>Katsuwonus pelamis</u> |
| blue marlin | <u>Makaira nigricans</u> |
| black marlin | <u>M. indica</u> |
| striped marlin | <u>Tetrapturus audax</u> |
| swordfish | <u>Xiphias gladius</u> |
| sailfish | <u>Istiophorus platypterus</u> |
| shortbill spearfish | <u>T. angustirostris</u> |

In addition, catches of wahoo, Acanthocybium solandri, are given for the longline vessels based at Pago Pago. Note that all tables of longline catches give a combined estimate of the catch of sailfish and shortbill spearfish, since these species are not separated in the records submitted by either Japanese or Taiwanese longline fishermen, or in the logbook records of foreign vessels based at American Samoa.

The Japanese baitboat catch estimates are given for albacore, yellowfin, bigeye, bluefin, and skipjack. In addition, catches of frigate tuna, Auxis thazard, and miscellaneous species (others) are estimated.

IMPROVING ESTIMATES

We have identified several possible shortcomings in the estimates of catch and effort within specified geographical areas. The estimates may be improved by (1) using more detailed longline statistics than the usual 5° square summaries which are now generally available. In the case of longline vessels based at Pago Pago daily fishing logs are available to us. But the official, published longline statistics of Taiwan, Japan, and Korea are only by 5° square. More detailed Japanese data are available in unpublished form; (2) using more detailed raising factors, instead of the Pacific-wide factors now employed. Taiwan has taken steps to refine this aspect of their longline catch estimation--it would be useful if other nations also instituted such improvements; (3) using more accurate statistics on average weight. Temporal and spatial variation should be taken into account, and better size statistics should be sought from unpublished sources; (4) a more complete analysis of the American Samoa-based fishery. The estimates given here reflect only the landings reported by the two tuna canneries operating in Pago Pago. The records available to us do not take into account small amounts of fish landed and sold through other channels. A more extensive study of American Samoa fishery statistics should be undertaken so that a complete accounting can be made of all fish caught or landed in that area of the FCZ.

⁴In the case of vessels based at American Samoa, the negligible bluefin catch is mostly southern bluefin tuna (T. maccoyii) taken in the southern extremity of the South Pacific albacore grounds.

The estimates reported here do not present a complete picture of foreign tuna and billfish catches in the FCZ, since except for American Samoa-based vessels no Korean statistics were considered. Korean tuna longliners (mostly sashimi boats) are known to fish in all areas of the FCZ, and while extensive catch and effort data are available, we are not yet able to answer key questions about appropriate raising factors, sampling procedures, and reliability. Until such considerations can be dealt with, we will refrain from using the Korean longline statistics.

In addition to problems with the Korean longline statistics we have been unable to evaluate possible Korean baitboat catches in the FCZ. No information is available to us on this subject.

Mention should be made of fishing inside the Hawaii FCZ by longline vessels based in American Samoa. Such catches, mainly by Korean boats, are minor, but the frequency of such visits has been increasing in recent years. Information on this subject is being compiled for publication in a separate report.

A comment is also needed concerning the possibility that some small catch in the American Samoa FCZ is made by longliners not based in Pago Pago and therefore not monitored in the American Samoa logbook system. Catches by Japanese vessels can be ruled out, since Japanese Government statistics show no effort in that area by her vessels since 1971. But the question remains unanswered for Taiwan and Korea.

Finally, the published catch and effort records examined in this analysis do not cover any Japanese baitboats or longliners under 20 gross tons, or any Taiwanese longliners under 50 gross tons. This is of no consequence except around Guam and the Northern Marianas, where some small Taiwan-based Taiwanese longliners and small Japanese longliners may be operating. Also neglected are any Japanese purse seine catches of tunas in this area; however, these are negligible, as most purse seine activity is south of this region.

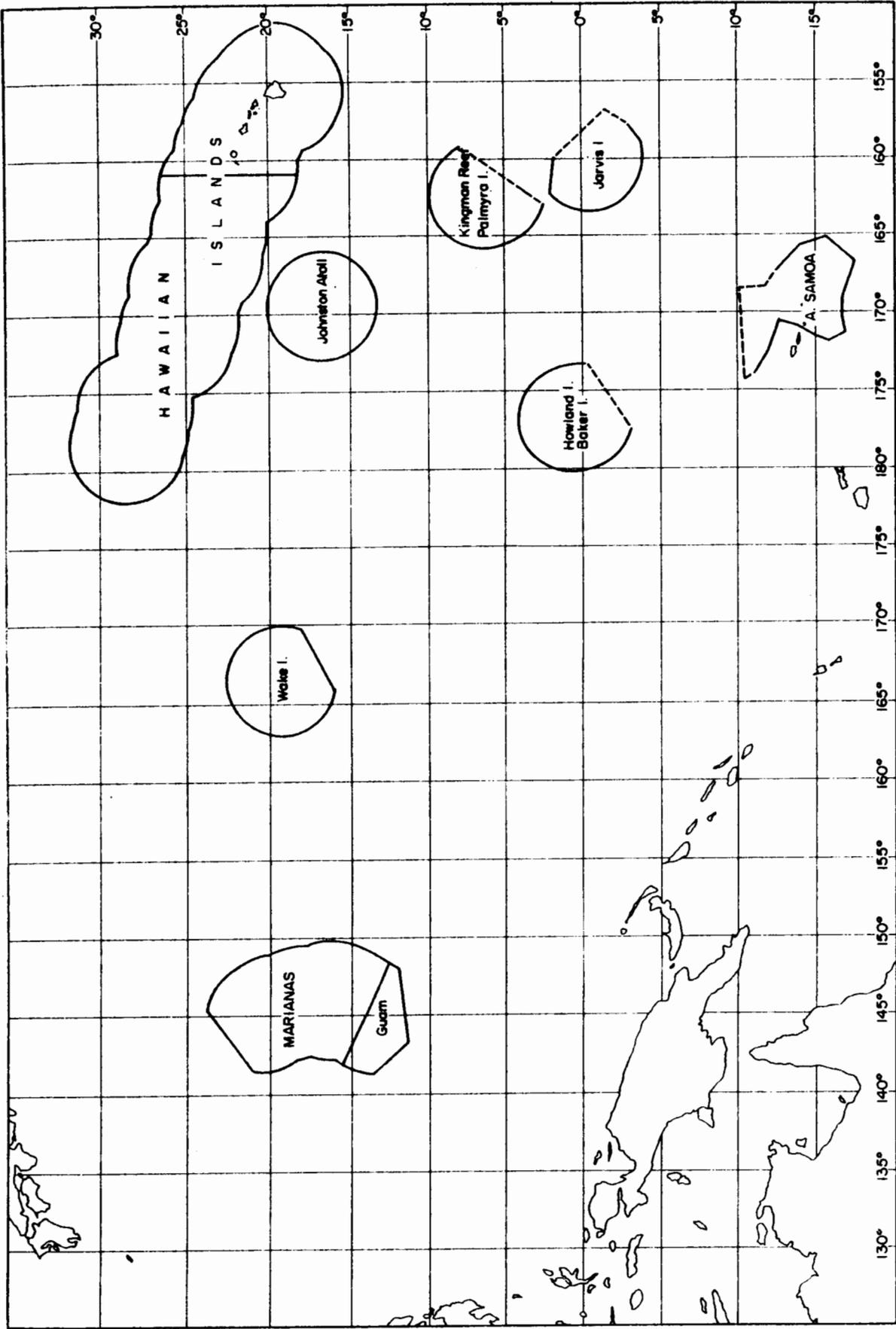


Figure 1.--Boundaries of the Fishery Conservation Zone around Hawaii, American Samoa, Guam, the Northern Mariana Islands, and other U.S. possessions. [See text for explanation.]

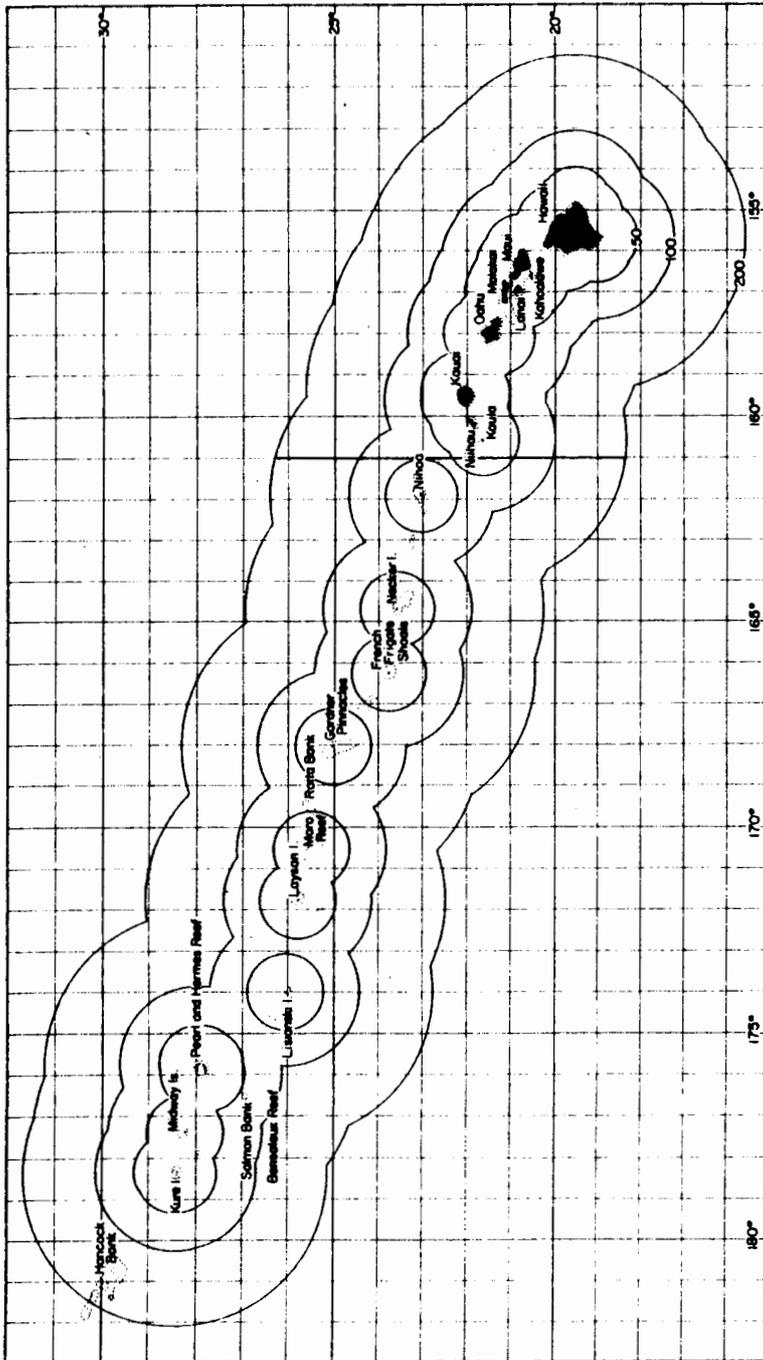


Figure 2.--The 50-, 100-, and 200-mile zones around the Hawaiian Islands.

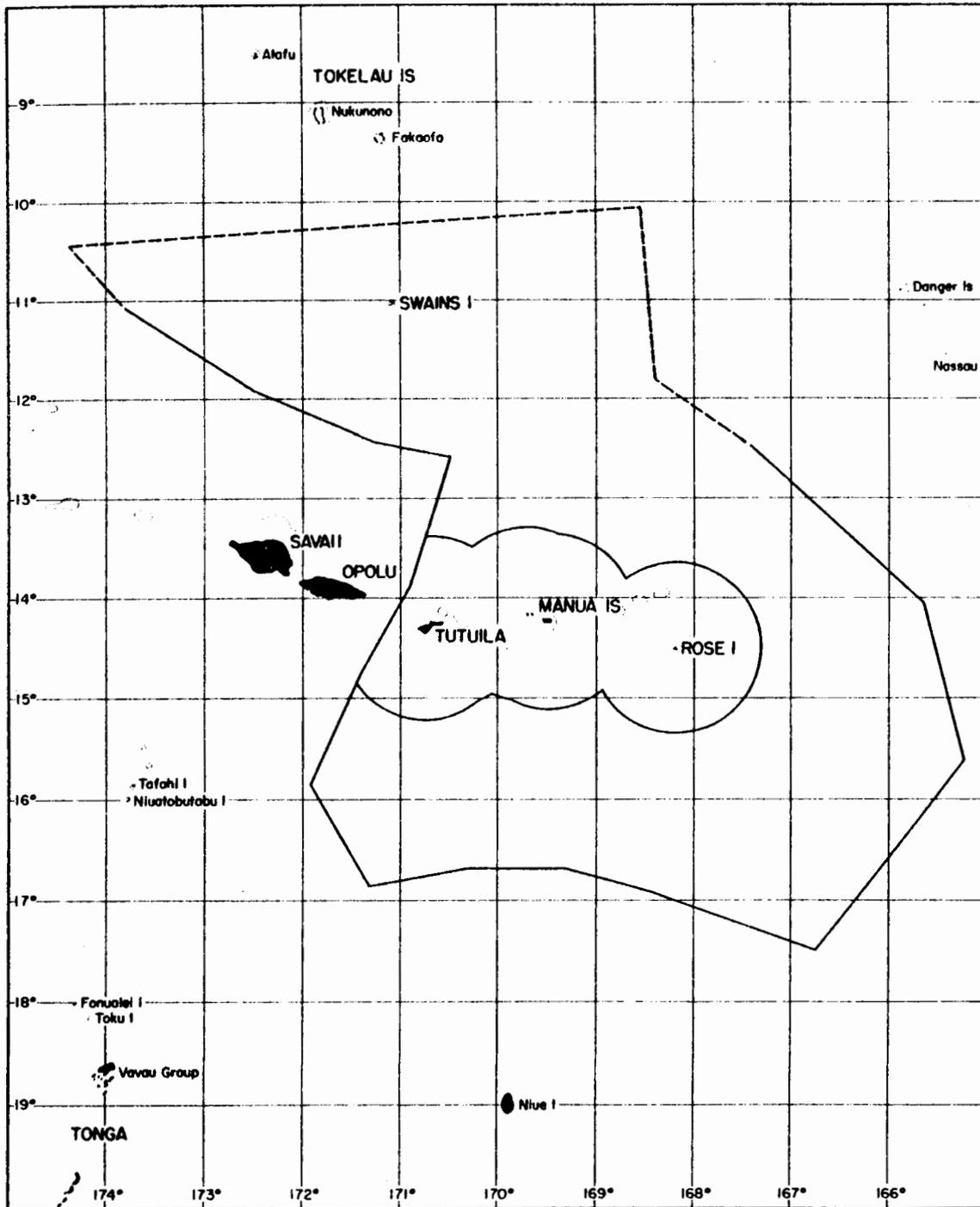


Figure 3.--The 50-mile limits and the Fishery Conservation Zone around American Samoa.

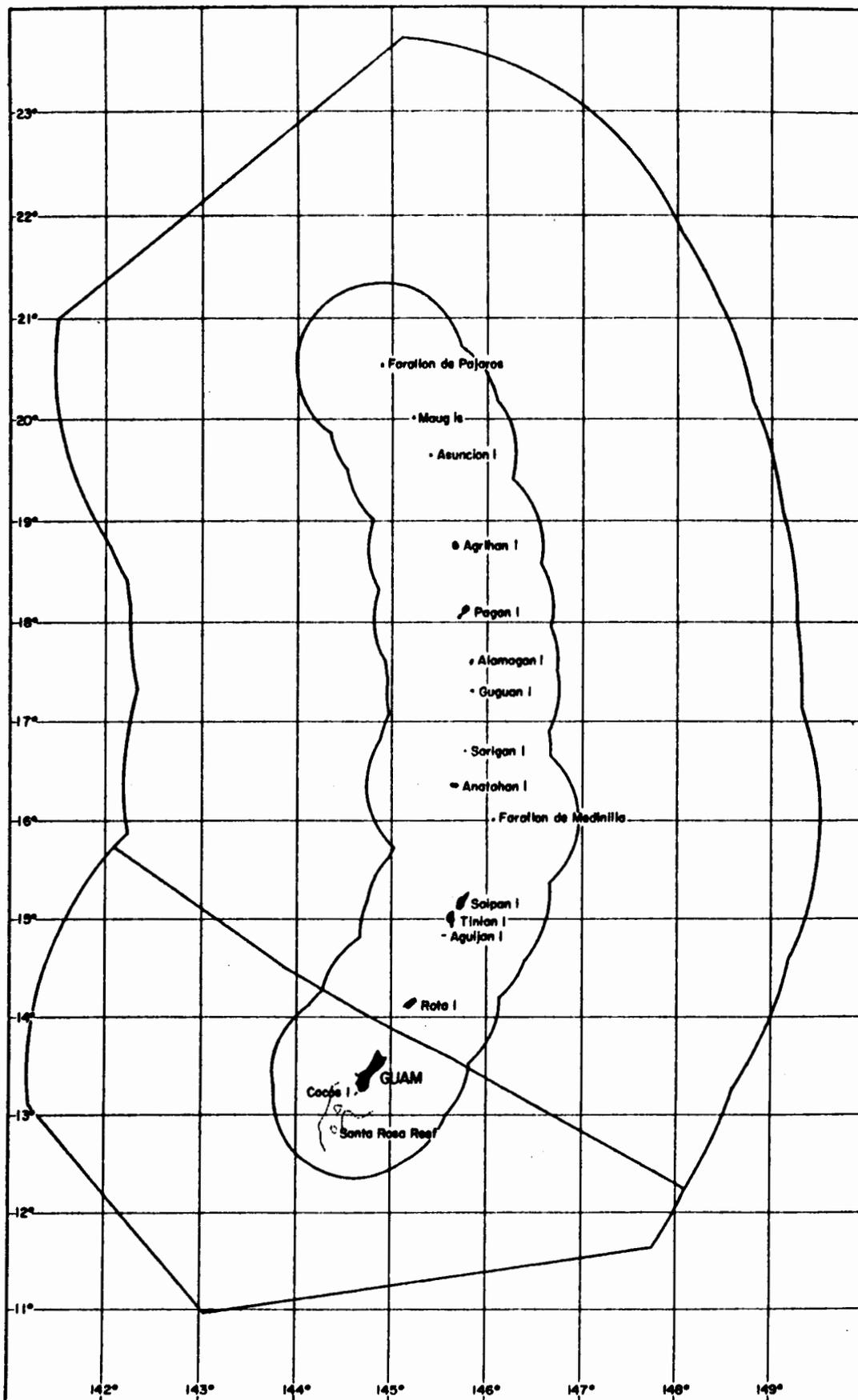


Figure 4.--The 50-mile limits and the Fishery Conservation Zone around Guam and the Northern Mariana Islands.

Table 1.--Description of data sets.

| Data set | Type of data | Nationality available | Year available | Spatial and temporal detail | Source of data |
|----------|--|-----------------------|----------------|---|---|
| D1 | Sample catch (number of fish) by species; nominal effort (hooks, vessel days) | Japan | 1971-75 | 1° square, by month, size of vessel, bait type | Fisheries Agency of Japan (Unpublished) |
| D2 | Catch (number of fish) by species; nominal effort (hooks, vessel days) | Japan | 1962-77 | 5° square, by month, size of vessel, bait type | "Annual Report of Effort and Catch Statistics by Area on Japanese Tuna Longline Fishery," published by Fisheries Agency of Japan |
| D3 | Catch (number of fish) by species; nominal effort (hooks) | Taiwan | 1967-77 | 5° square, by month | "Annual Catch Statistics of Taiwan's Tuna Longline Fishery," published by Taiwan Fisheries Bureau |
| D4 | Catch (number of fish) by species; nominal effort (hooks, vessel days) | Japan, Taiwan, Korea | 1960-76 | By midday position for each sampled vessel based at Pago Pago | Office of Marine Resources, Government of American Samoa (Unpublished) |
| | Landings (pounds) at Pago Pago by species (tuna), or combined (billfish); nominal effort (vessel days) | | 1954-76 | By month | Van Camp Sea Food Co., Star-Kist Samoa, Inc. (Unpublished) |
| D5 | Sample catch (metric tons) by species; nominal effort (vessel days) | Japan | 1969-77 | 1° square, by 10-day interval, effort by vessel tonnage class | "Annual Report of Effort and Catch Statistics by Area, Japanese Skipjack Baitboat Fishery," published by Fisheries Agency of Japan. |

Table 2.--Hundreds of vessel days of nominal effort (top figures) and appropriate raising factors (bottom figures) for Japanese tuna longline vessels, 1965-77.

| Year | Japan-based vessels (gross tons) | | | | Motherships with catcher boats | Foreign-based vessels (Pacific) |
|------|-------------------------------------|---------------|-------------|---------------------|-----------------------------------|---------------------------------------|
| | 20-50 | 50-100 | 100-200 | >200 | | |
| 1965 | 718 1.41 | - 442 1.99 | - 1.99 | 425 1.24 | 22 1.27 | 101 2.01 |
| 1966 | 621 1.27 | - 515 1.81 | - 1.81 | 473 1.18 | 9 1.17 | 90 1.30 |
| 1967 | 745 1.68 | 266 2.10 | 196 1.44 | 395 1.19 | 7 1.14 | 105 1.94 |
| 1968 | 616 1.74 | 242 2.02 | 209 1.50 | 417 1.26 | 7 1.16 | 59 1.51 |
| 1969 | 579 2.10 | 278 1.93 | 237 1.67 | 472 1.16 | 18 1.21 | 30 2.34 |
| 1970 | 395 1.73 | 292 1.74 | 205 1.39 | 527 1.02 | 16 1.08 | 29 2.45 |
| 1971 | 316 2.12 | 344 1.81 | 198 1.48 | 519 1.22 | 3 1.63 | 22 5.70 |
| 1972 | 211 2.43 | 385 2.04 | 178 1.47 | 613 1.18 1.23 | 1 1.75 | 15 1.30 |
| 1973 | 151 2.24 | 463 1.95 | 157 1.72 | 682 1.13 1.44 | 4 1.13 | 4 1.75 |
| 1974 | 124 2.25 | 594 1.84 | 124 1.47 | 628 1.16 1.28 | 1 1.20 | 0 -- |
| 1975 | 98 1.84 | 612 1.71 | 93 1.42 | 509 1.13 1.32 | 2 1.00 | 0 -- |
| 1976 | 95 1.35 | 663 1.25 | 118 1.10 | 735 1.13 1.10 | 3 1.00 | 0 -- |
| 1977 | 80 1.23 | 675 1.20 | 112 1.24 | 700 1.04 1.02 | 1 1.00 | 0 -- |

¹Upper raising factor is for vessels landing in Shizuoka and Kochi Prefectures. Lower factor is for other vessels.

Table 3.--Raising factors for Taiwan's tuna longline statistics
(Pacific Ocean).

| | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
|-----------|------|------|------|------|------|------|------|-------|-------|-------|
| January | 9.09 | 3.48 | 6.21 | 4.27 | 2.36 | 4.40 | 4.36 | 7.15 | 16.37 | 9.53 |
| February | 9.09 | 3.48 | 6.21 | 4.53 | 2.47 | 3.67 | 5.73 | 7.26 | 12.25 | 9.53 |
| March | 9.09 | 3.48 | 6.21 | 3.91 | 2.73 | 4.59 | 6.21 | 10.15 | 7.61 | 9.53 |
| April | 9.09 | 3.48 | 6.21 | 3.55 | 2.34 | 3.89 | 8.25 | 10.48 | 6.21 | 8.04 |
| May | 9.09 | 3.48 | 6.21 | 3.83 | 3.23 | 4.58 | 7.62 | 7.54 | 5.90 | 8.04 |
| June | 9.09 | 3.48 | 6.21 | 3.04 | 3.23 | 5.05 | 5.84 | 8.86 | 4.54 | 8.04 |
| July | 9.09 | 3.48 | 6.21 | 2.43 | 3.20 | 3.91 | 6.65 | 8.77 | 4.37 | 8.98 |
| August | 9.09 | 3.48 | 6.21 | 2.44 | 3.42 | 3.98 | 8.31 | 14.24 | 5.26 | 8.98 |
| September | 9.09 | 3.48 | 6.21 | 2.70 | 3.03 | 4.62 | 5.49 | 13.42 | 4.46 | 8.98 |
| October | 9.09 | 3.48 | 6.21 | 2.56 | 4.47 | 3.78 | 5.57 | 13.33 | 5.56 | 11.71 |
| November | 9.09 | 3.48 | 6.21 | 2.43 | 3.51 | 3.85 | 5.13 | 11.30 | 6.06 | 11.71 |
| December | 9.09 | 3.48 | 6.21 | 2.67 | 4.05 | 4.18 | 6.05 | 11.93 | 6.83 | 11.71 |

Note: Raising factors for 1977 were computed by month and 5° square. However, at the time this table was prepared, monthly ocean-wide averages were not available. The annual average raising factor for the Pacific was 3.84 for 1977, indicating a considerable improvement in sampling coverage.

Table 4.--Estimated average weights (kg) used in computing longline catches in the FCZ around the Hawaiian Islands and Johnston Atoll. (From data supplied by Hawaii Division of Fish and Game and United Fishing Agency.)

| Year | Albacore | Yellowfin tuna | Bigeye tuna | Bluefin tuna | Skipjack tuna | Blue marlin | Black marlin | Striped marlin | Swordfish | Sailfish and spearfish |
|------|----------|----------------|-------------|--------------|---------------|-------------|--------------|----------------|-----------|------------------------|
| 1965 | 25 | 49 | 46 | 200 | 6 | 89 | 65 | 29 | 84 | 16 |
| 1966 | 24 | 50 | 54 | 200 | 6 | 115 | 65 | 25 | 84 | 16 |
| 1967 | 24 | 51 | 50 | 200 | 5 | 102 | 65 | 28 | 84 | 16 |
| 1968 | 26 | 52 | 45 | 200 | 5 | 92 | 65 | 30 | 84 | 15 |
| 1969 | 25 | 50 | 47 | 200 | 4 | 90 | 65 | 30 | 84 | 16 |
| 1970 | 25 | 48 | 44 | 200 | 4 | 83 | 65 | 28 | 84 | 16 |
| 1971 | 25 | 47 | 43 | 200 | 5 | 97 | 65 | 30 | 84 | 16 |
| 1972 | 26 | 48 | 45 | 200 | 7 | 89 | 65 | 32 | 84 | 17 |
| 1973 | 23 | 49 | 48 | 200 | 6 | 70 | 65 | 26 | 84 | 18 |
| 1974 | 24 | 49 | 39 | 200 | 5 | 66 | 65 | 28 | 84 | 16 |
| 1975 | 23 | 45 | 43 | 200 | 4 | 77 | 65 | 28 | 84 | 17 |
| 1976 | 26 | 50 | 46 | 200 | 5 | 89 | 65 | 30 | 84 | 16 |
| 1977 | 25 | 49 | 46 | 200 | 5 | 89 | 65 | 29 | 84 | 16 |

Table 5.--Estimated average weights (kg) used in computing longline catches in the FCZ around Guam, the Northern Marianas, and some other U.S. possessions in the Pacific. (From data supplied by Fisheries Agency of Japan and Taiwan Fisheries Bureau.)

| Year | Albacore | Yellowfin tuna | Bigeye tuna | Bluefin tuna | Skipjack tuna | Blue marlin | Black marlin | Striped marlin | Swordfish | Sailfish and Spearfish |
|--|----------|----------------|-------------|--------------|---------------|-------------|--------------|----------------|-----------|------------------------|
| <u>Guam and Northern Marianas</u> | | | | | | | | | | |
| 1975 | 25 | 28 | 38 | 237 | 5 | 55 | 79 | 34 | 30 | 22 |
| 1976 | 24 | 30 | 39 | 237 | 5 | 55 | 79 | 34 | 30 | 22 |
| 1977 | 24 | 30 | 37 | 237 | 5 | 55 | 79 | 28 | 30 | 22 |
| Other years | 24 | 29 | 38 | 237 | 5 | 55 | 79 | 32 | 30 | 22 |
| <u>Wake Island</u> | | | | | | | | | | |
| 1975 | 26 | 30 | 39 | 184 | 5 | 50 | 79 | 30 | 33 | 28 |
| 1976 | 27 | 35 | 43 | 184 | 5 | 50 | 79 | 30 | 33 | 28 |
| 1977 | 27 | 35 | 42 | 184 | 5 | 56 | 91 | 22 | 39 | 28 |
| Other years | 27 | 33 | 41 | 184 | 5 | 52 | 83 | 27 | 35 | 28 |
| <u>Howland Island, Baker Island, Palmyra Island, Kingman Reef, and Jarvis Island</u> | | | | | | | | | | |
| All years | 18 | 25 | 27 | 53 | 5 | 47 | 60 | 39 | 56 | 25 |

Table 6.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1965.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------|-------------------------------------|------------|-----------|-----------------------------------|------------|------------|--------------------------------|------------|------------|
| | 200 ml. | 100 ml. | 50 ml. | 200 ml. | 100 ml. | 50 ml. | 200 ml. | 100 ml. | 50 ml. |
| | Monthly nominal effort ¹ | | | | | | | | |
| January | 18 | 7 | 4 | 56 | 30 | 12 | 74 | 37 | 16 |
| February | 18 | 7 | 3 | 27 | 5 | 1 | 45 | 12 | 4 |
| March | 5 | 2 | 1 | 61 | 21 | 7 | 66 | 23 | 8 |
| April | 19 | 8 | 3 | 45 | 27 | 10 | 64 | 35 | 13 |
| May | 169 | 66 | 30 | 291 | 147 | 53 | 460 | 213 | 83 |
| June | 47 | 26 | 12 | 412 | 218 | 75 | 459 | 244 | 87 |
| July | 0 | 0 | 0 | 80 | 46 | 18 | 80 | 46 | 18 |
| August | 17 | 6 | 3 | 9 | 2 | * | 26 | 8 | 3 |
| September | 2 | 1 | * | 3 | * | * | 5 | 1 | * |
| October | 2 | 1 | * | 77 | 35 | 14 | 79 | 36 | 14 |
| November | 9 | 3 | 1 | 113 | 22 | 7 | 122 | 25 | 8 |
| December | 61 | 25 | 12 | 153 | 39 | 16 | 214 | 64 | 28 |
| Total | 367 | 152 | 69 | 1327 | 592 | 213 | 1694 | 744 | 282 |
| | Annual catch ² | | | | | | | | |
| Albacore | 6 | 3 | 2 | 133 | 19 | 7 | 139 | 22 | 9 |
| Yellowfin tuna | 131 | 54 | 25 | 330 | 158 | 59 | 461 | 212 | 84 |
| Bigeye tuna | 330 | 122 | 55 | 412 | 133 | 49 | 742 | 255 | 104 |
| Bluefin tuna | 3 | 1 | 1 | 3 | 2 | 1 | 6 | 3 | 2 |
| Skipjack tuna | 2 | 1 | 1 | 7 | 4 | 1 | 9 | 5 | 2 |
| Total tunas | 472 | 181 | 84 | 885 | 316 | 117 | 1357 | 497 | 201 |
| | Annual catch ² | | | | | | | | |
| Blue marlin | 54 | 25 | 11 | 245 | 126 | 45 | 299 | 151 | 56 |
| Striped marlin | 113 | 54 | 25 | 775 | 406 | 145 | 888 | 460 | 170 |
| Swordfish | 5 | 3 | 1 | 67 | 24 | 9 | 72 | 27 | 10 |
| Black marlin | 2 | 1 | * | 5 | 2 | 1 | 7 | 3 | 1 |
| Spearfish & sailfish | 10 | 4 | 2 | 24 | 12 | 4 | 34 | 16 | 6 |
| Total billfishes | 184 | 87 | 39 | 1116 | 570 | 204 | 1300 | 657 | 243 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 7.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1966.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|------------|-----------|-----------------------------------|------------|-----------|--------------------------------|------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 9 | 2 | 1 | 62 | 5 | 2 | 71 | 7 | 3 |
| February | 20 | 5 | 1 | 88 | 28 | 12 | 108 | 33 | 13 |
| March | 20 | 7 | 3 | 35 | 11 | 4 | 55 | 18 | 7 |
| April | 60 | 22 | 10 | 7 | 1 | 1 | 67 | 23 | 11 |
| May | 33 | 11 | 5 | 115 | 55 | 20 | 146 | 66 | 25 |
| June | 168 | 59 | 24 | 22 | 10 | 3 | 190 | 69 | 27 |
| July | 30 | 10 | 3 | 2 | 1 | * | 32 | 11 | 3 |
| August | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 1 | 1 |
| September | 6 | 1 | 1 | 66 | 4 | 1 | 72 | 5 | 2 |
| October | 4 | 2 | 1 | 90 | 7 | 1 | 94 | 9 | 2 |
| November | 2 | 1 | * | 131 | 16 | 5 | 133 | 17 | 5 |
| December | 1 | 1 | * | 108 | 6 | 1 | 109 | 7 | 1 |
| Total | 353 | 121 | 49 | 728 | 145 | 51 | 1081 | 266 | 100 |
| Annual catch ² | | | | | | | | | |
| Albacore | 1 | * | * | 256 | 24 | 8 | 257 | 24 | 8 |
| Yellowfin tuna | 67 | 21 | 9 | 102 | 17 | 6 | 169 | 38 | 15 |
| Bigeye tuna | 502 | 164 | 64 | 487 | 58 | 19 | 989 | 222 | 83 |
| Bluefin tuna | 0 | 0 | 0 | 1 | * | 0 | 1 | * | 0 |
| Skipjack tuna | 3 | 1 | * | 4 | 2 | 1 | 7 | 3 | 1 |
| Total tunas | 573 | 186 | 73 | 850 | 101 | 34 | 1423 | 287 | 107 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 77 | 27 | 11 | 50 | 14 | 5 | 127 | 41 | 16 |
| Striped marlin | 44 | 15 | 7 | 118 | 38 | 13 | 162 | 53 | 20 |
| Swordfish | 9 | 3 | 1 | 83 | 10 | 4 | 92 | 13 | 5 |
| Black marlin | 1 | * | * | 2 | 1 | * | 3 | 1 | * |
| Spearfish & sailfish | 9 | 3 | 1 | 10 | 2 | 1 | 19 | 5 | 2 |
| Total billfishes | 140 | 48 | 20 | 263 | 65 | 23 | 403 | 113 | 43 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 8.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1967.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|------------|------------|-----------------------------------|------------|------------|--------------------------------|------------|------------|
| | 200 ml. | 100 ml. | 50 ml. | 200 ml. | 100 ml. | 50 ml. | 200 ml. | 100 ml. | 50 ml. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 1 | 0 | 0 | 140 | 14 | 4 | 141 | 14 | 4 |
| February | 10 | 2 | * | 83 | 8 | 2 | 93 | 10 | 2 |
| March | 26 | 9 | 4 | 69 | 11 | 4 | 95 | 20 | 8 |
| April | 51 | 22 | 10 | 144 | 71 | 27 | 195 | 93 | 37 |
| May | 354 | 179 | 96 | 115 | 56 | 21 | 469 | 235 | 117 |
| June | 173 | 80 | 38 | 156 | 84 | 29 | 329 | 164 | 67 |
| July | 24 | 9 | 4 | 16 | 5 | 2 | 40 | 14 | 6 |
| August | 1 | 1 | * | 10 | 4 | 1 | 11 | 5 | 1 |
| September | 2 | 1 | 1 | 38 | 1 | * | 40 | 2 | 1 |
| October | 4 | 1 | 1 | 53 | 6 | 2 | 57 | 7 | 3 |
| November | 20 | 6 | 2 | 179 | 55 | 21 | 199 | 61 | 23 |
| December | 9 | 2 | 1 | 73 | 12 | 5 | 82 | 14 | 6 |
| Total | 675 | 312 | 157 | 1076 | 327 | 118 | 1751 | 639 | 275 |
| Annual catch ² | | | | | | | | | |
| Albacore | 12 | 6 | 3 | 436 | 47 | 14 | 448 | 53 | 17 |
| Yellowfin tuna | 90 | 45 | 23 | 148 | 64 | 24 | 238 | 109 | 47 |
| Bigeye tuna | 678 | 262 | 117 | 570 | 145 | 54 | 1248 | 407 | 171 |
| Bluefin tuna | 0 | 0 | 0 | 1 | * | 0 | 1 | * | 0 |
| Skipjack tuna | 2 | 1 | * | 2 | 1 | * | 4 | 2 | * |
| Total tunas | 782 | 314 | 143 | 1157 | 257 | 92 | 1939 | 571 | 235 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 112 | 53 | 27 | 85 | 41 | 15 | 197 | 94 | 42 |
| Striped marlin | 244 | 140 | 77 | 379 | 176 | 65 | 623 | 316 | 142 |
| Swordfish | 28 | 15 | 8 | 147 | 27 | 9 | 175 | 42 | 17 |
| Black marlin | 2 | 1 | 1 | 1 | 1 | * | 3 | 2 | 1 |
| Spearfish & sailfish | 22 | 11 | 6 | 10 | 4 | 2 | 32 | 15 | 8 |
| Total billfishes | 408 | 220 | 119 | 622 | 249 | 91 | 1030 | 469 | 210 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 9.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1968.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|------------|------------|-----------------------------------|------------|------------|--------------------------------|-------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 12 | 4 | 2 | 198 | 43 | 16 | 210 | 47 | 18 |
| February | 26 | 10 | 4 | 183 | 45 | 16 | 209 | 55 | 20 |
| March | 33 | 15 | 7 | 134 | 76 | 32 | 167 | 91 | 39 |
| April | 382 | 137 | 57 | 57 | 33 | 12 | 439 | 170 | 69 |
| May | 237 | 108 | 49 | 413 | 234 | 85 | 650 | 342 | 134 |
| June | 148 | 78 | 40 | 171 | 87 | 29 | 319 | 165 | 69 |
| July | 3 | 2 | 1 | 26 | 15 | 6 | 29 | 17 | 7 |
| August | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 2 | * | * | 35 | 1 | * | 37 | 1 | * |
| October | 12 | 3 | 1 | 113 | 28 | 9 | 125 | 31 | 10 |
| November | 47 | 23 | 10 | 268 | 114 | 43 | 315 | 137 | 53 |
| December | 72 | 29 | 13 | 146 | 36 | 13 | 218 | 65 | 26 |
| Total | 974 | 409 | 184 | 1744 | 712 | 261 | 2718 | 1121 | 445 |
| Annual catch ² | | | | | | | | | |
| Albacore | 22 | 10 | 5 | 646 | 147 | 52 | 668 | 157 | 57 |
| Yellowfin tuna | 217 | 94 | 43 | 232 | 120 | 43 | 449 | 214 | 86 |
| Bigeye tuna | 658 | 241 | 100 | 726 | 246 | 89 | 1384 | 487 | 189 |
| Bluefin tuna | 0 | 0 | 0 | 1 | * | * | 1 | * | * |
| Skipjack tuna | 2 | 1 | * | 4 | 1 | 1 | 6 | 2 | 1 |
| Total tunas | 899 | 346 | 148 | 1609 | 514 | 185 | 2508 | 860 | 333 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 112 | 46 | 20 | 125 | 63 | 23 | 237 | 109 | 43 |
| Striped marlin | 477 | 211 | 97 | 629 | 334 | 121 | 1106 | 545 | 218 |
| Swordfish | 19 | 9 | 4 | 247 | 110 | 47 | 266 | 119 | 51 |
| Black marlin | 2 | 1 | * | 2 | 1 | * | 4 | 2 | * |
| Spearfish & sailfish | 28 | 11 | 5 | 28 | 15 | 6 | 53 | 26 | 11 |
| Total billfishes | 635 | 278 | 126 | 1031 | 523 | 197 | 1666 | 801 | 323 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 10.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1969.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|------------|------------|-----------------------------------|------------|------------|--------------------------------|------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 111 | 40 | 17 | 253 | 78 | 30 | 364 | 118 | 47 |
| February | 49 | 24 | 11 | 333 | 126 | 48 | 382 | 150 | 59 |
| March | 43 | 16 | 7 | 41 | 9 | 3 | 84 | 25 | 10 |
| April | 41 | 15 | 6 | 4 | 2 | 1 | 45 | 17 | 7 |
| May | 89 | 39 | 18 | 65 | 40 | 15 | 154 | 79 | 33 |
| June | 23 | 10 | 5 | 18 | 10 | 4 | 41 | 20 | 9 |
| July | 14 | 5 | 2 | 0 | 0 | 0 | 14 | 5 | 2 |
| August | 13 | 4 | 2 | 0 | 0 | 0 | 13 | 4 | 2 |
| September | 77 | 27 | 11 | 48 | 7 | 2 | 125 | 34 | 13 |
| October | 58 | 18 | 7 | 175 | 54 | 18 | 233 | 72 | 25 |
| November | 126 | 44 | 18 | 180 | 47 | 17 | 306 | 91 | 35 |
| December | 87 | 30 | 13 | 244 | 69 | 27 | 331 | 99 | 40 |
| Total | 731 | 272 | 117 | 1361 | 442 | 165 | 2092 | 714 | 282 |
| Annual catch ² | | | | | | | | | |
| Albacore | 22 | 7 | 3 | 312 | 90 | 33 | 534 | 97 | 36 |
| Yellowfin tuna | 184 | 71 | 32 | 199 | 82 | 31 | 383 | 153 | 63 |
| Bigeye tuna | 727 | 263 | 112 | 1181 | 409 | 157 | 1908 | 672 | 269 |
| Bluefin tuna | 0 | 0 | 0 | 5 | 1 | 0 | 5 | 1 | 0 |
| Skipjack tuna | 1 | 0 | 0 | 2 | 1 | 0 | 3 | 1 | 0 |
| Total tunas | 934 | 341 | 147 | 1899 | 583 | 221 | 2833 | 924 | 368 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 59 | 22 | 9 | 26 | 12 | 4 | 85 | 34 | 13 |
| Striped marlin | 124 | 49 | 21 | 144 | 68 | 25 | 266 | 117 | 46 |
| Swordfish | 18 | 7 | 3 | 143 | 42 | 16 | 181 | 49 | 19 |
| Black marlin | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 |
| Spearfish & sailfish | 7 | 3 | 1 | 4 | 2 | 1 | 11 | 5 | 2 |
| Total billfishes | 209 | 81 | 34 | 318 | 124 | 46 | 527 | 205 | 80 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 11.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1970.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|------------|------------|-----------------------------------|------------|------------|--------------------------------|-------------|------------|
| | 200 ml. | 100 ml. | 50 ml. | 200 ml. | 100 ml. | 50 ml. | 200 ml. | 100 ml. | 50 ml. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 76 | 22 | 7 | 234 | 71 | 26 | 310 | 93 | 33 |
| February | 135 | 41 | 15 | 100 | 15 | 4 | 235 | 56 | 19 |
| March | 53 | 19 | 9 | 38 | 9 | 3 | 91 | 28 | 12 |
| April | 30 | 7 | 2 | 10 | 4 | 1 | 40 | 11 | 3 |
| May | 110 | 49 | 21 | 299 | 148 | 48 | 409 | 197 | 69 |
| June | 128 | 52 | 21 | 231 | 141 | 52 | 359 | 193 | 73 |
| July | 73 | 32 | 15 | 70 | 41 | 15 | 143 | 73 | 30 |
| August | 47 | 21 | 11 | 8 | 3 | 1 | 55 | 24 | 12 |
| September | 15 | 4 | 2 | 1 | * | 0 | 16 | 4 | 2 |
| October | 80 | 32 | 15 | 179 | 90 | 33 | 259 | 122 | 48 |
| November | 77 | 26 | 10 | 384 | 173 | 64 | 461 | 199 | 74 |
| December | 156 | 74 | 34 | 616 | 298 | 114 | 772 | 372 | 148 |
| Total | 980 | 379 | 162 | 2170 | 993 | 361 | 3150 | 1372 | 523 |
| Annual catch ² | | | | | | | | | |
| Albacore | 42 | 16 | 7 | 416 | 110 | 40 | 458 | 126 | 47 |
| Yellowfin tuna | 511 | 200 | 85 | 720 | 384 | 140 | 1231 | 584 | 225 |
| Bigeye tuna | 664 | 228 | 90 | 1061 | 453 | 168 | 1725 | 681 | 258 |
| Bluefin tuna | 1 | 1 | * | 3 | 1 | * | 4 | 2 | * |
| Skipjack tuna | 2 | 1 | * | 4 | 2 | 1 | 6 | 3 | 1 |
| Total tunas | 1220 | 446 | 182 | 2204 | 950 | 349 | 3424 | 1396 | 531 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 117 | 50 | 22 | 329 | 177 | 63 | 446 | 227 | 85 |
| Striped marlin | 214 | 93 | 41 | 753 | 398 | 143 | 967 | 491 | 184 |
| Swordfish | 28 | 10 | 4 | 123 | 38 | 13 | 151 | 48 | 17 |
| Black marlin | 1 | * | * | 3 | 2 | 1 | 4 | 2 | 1 |
| Spearfish & sailfish | 23 | 9 | 4 | 52 | 29 | 10 | 75 | 38 | 14 |
| Total billfishes | 383 | 162 | 71 | 1260 | 644 | 230 | 1643 | 806 | 301 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 12.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1971.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------|-------------------------------------|------------|-----------|-----------------------------------|------------|------------|--------------------------------|------------|------------|
| | 200 ml. | 100 ml. | 50 ml. | 200 ml. | 100 ml. | 50 ml. | 200 ml. | 100 ml. | 50 ml. |
| | Monthly nominal effort ¹ | | | | | | | | |
| January | 146 | 42 | 18 | 505 | 236 | 110 | 651 | 278 | 128 |
| February | 113 | 15 | 2 | 285 | 79 | 20 | 398 | 94 | 22 |
| March | 8 | 2 | 0 | 42 | 12 | 5 | 47 | 14 | 5 |
| April | 3 | 0 | 0 | 3 | 2 | 1 | 6 | 2 | 1 |
| May | 16 | 1 | 0 | 33 | 25 | 3 | 49 | 26 | 3 |
| June | 9 | 1 | 0 | 61 | 42 | 12 | 66 | 43 | 12 |
| July | 9 | 2 | 0 | 28 | 2 | 1 | 37 | 4 | 1 |
| August | 18 | 2 | 0 | 0 | 0 | 0 | 18 | 2 | 0 |
| September | 13 | 0 | 0 | 42 | 17 | 9 | 55 | 17 | 9 |
| October | 105 | 18 | 5 | 118 | 42 | 18 | 223 | 60 | 23 |
| November | 49 | 6 | 0 | 234 | 147 | 72 | 283 | 153 | 72 |
| December | 68 | 31 | 12 | 202 | 102 | 28 | 270 | 133 | 40 |
| Total | 550 | 120 | 37 | 1553 | 706 | 279 | 2103 | 826 | 316 |
| | Annual catch ² | | | | | | | | |
| Albacore | 39 | 8 | 4 | 398 | 104 | 29 | 437 | 112 | 33 |
| Yellowfin tuna | 271 | 48 | 14 | 467 | 236 | 91 | 738 | 284 | 105 |
| Bigeye tuna | 428 | 54 | 15 | 821 | 375 | 148 | 1249 | 429 | 163 |
| Bluefin tuna | 0 | 0 | 0 | 1 | 9 | 0 | 1 | 0 | 0 |
| Skipjack tuna | 1 | 0 | 0 | 2 | 1 | 0 | 3 | 1 | 0 |
| Total tunas | 739 | 110 | 33 | 1689 | 716 | 268 | 2428 | 826 | 301 |
| | Annual catch ² | | | | | | | | |
| Blue marlin | 33 | 6 | 2 | 81 | 46 | 17 | 114 | 52 | 19 |
| Striped marlin | 62 | 17 | 6 | 261 | 169 | 76 | 323 | 186 | 82 |
| Swordfish | 5 | 1 | 0 | 63 | 24 | 8 | 68 | 25 | 8 |
| Black marlin | 2 | 1 | 1 | 4 | 3 | 1 | 6 | 4 | 2 |
| Spearfish & sailfish | 4 | 1 | 0 | 8 | 4 | 1 | 12 | 5 | 1 |
| Total billfishes | 106 | 26 | 9 | 417 | 246 | 103 | 523 | 272 | 112 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 13.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1972.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|------------|-----------|-----------------------------------|------------|------------|--------------------------------|------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 22 | 6 | 2 | 205 | 30 | 3 | 227 | 36 | 5 |
| February | 56 | 6 | * | 135 | 14 | 2 | 191 | 20 | 2 |
| March | 32 | 8 | 4 | 216 | 23 | 2 | 248 | 31 | 6 |
| April | 5 | 1 | 0 | 2 | 0 | 0 | 7 | 1 | 0 |
| May | 43 | 11 | 4 | 154 | 54 | 2 | 197 | 65 | 6 |
| June | 18 | 1 | 0 | 65 | 41 | 2 | 83 | 42 | 2 |
| July | 7 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 |
| August | 8 | 0 | 0 | 20 | 2 | * | 28 | 2 | * |
| September | 13 | 2 | 1 | 0 | 0 | 0 | 13 | 2 | 1 |
| October | 60 | 25 | 9 | 102 | 38 | 16 | 162 | 63 | 25 |
| November | 10 | 5 | 2 | 94 | 37 | 17 | 104 | 42 | 19 |
| December | 88 | 55 | 22 | 704 | 308 | 116 | 792 | 363 | 138 |
| Total | 362 | 120 | 44 | 1697 | 547 | 160 | 2059 | 667 | 204 |
| Annual catch ² | | | | | | | | | |
| Albacore | 44 | 28 | 12 | 478 | 80 | 15 | 522 | 108 | 27 |
| Yellowfin tuna | 118 | 51 | 19 | 260 | 106 | 15 | 378 | 157 | 34 |
| Bigeye tuna | 261 | 52 | 18 | 1284 | 445 | 164 | 1545 | 497 | 182 |
| Bluefin tuna | 0 | 0 | 0 | 2 | * | 0 | 2 | * | 0 |
| Skipjack tuna | 1 | * | * | 2 | 1 | * | 3 | 1 | * |
| Total tunas | 424 | 131 | 49 | 2026 | 632 | 194 | 2450 | 763 | 243 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 15 | 3 | 1 | 62 | 31 | 3 | 77 | 34 | 4 |
| Striped marlin | 23 | 9 | 3 | 173 | 79 | 12 | 196 | 88 | 15 |
| Swordfish | 12 | 3 | * | 192 | 36 | 6 | 204 | 39 | 6 |
| Black marlin | 1 | * | 0 | 2 | 2 | 1 | 3 | 2 | 1 |
| Spearfish & sailfish | 5 | 1 | * | 8 | 1 | * | 13 | 2 | * |
| Total billfishes | 56 | 16 | 4 | 437 | 149 | 22 | 493 | 165 | 26 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 14.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1973.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|-----------|-----------|-----------------------------------|------------|------------|--------------------------------|------------|------------|
| | 200 ml. | 100 ml. | 50 ml. | 200 ml. | 100 ml. | 50 ml. | 200 ml. | 100 ml. | 50 ml. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 47 | 16 | 8 | 297 | 129 | 58 | 344 | 145 | 66 |
| February | 58 | 7 | 2 | 47 | 16 | 11 | 105 | 23 | 13 |
| March | 45 | * | 0 | 58 | 10 | 3 | 103 | 10 | 3 |
| April | 13 | 0 | 0 | 11 | 5 | 1 | 24 | 5 | 1 |
| May | 83 | 1 | 0 | 62 | 8 | * | 145 | 9 | * |
| June | 42 | 3 | 0 | 39 | 5 | * | 81 | 8 | * |
| July | 7 | 7 | 5 | 3 | 2 | 1 | 10 | 9 | 6 |
| August | 3 | 0 | 0 | 2 | 1 | * | 5 | 1 | * |
| September | 1 | 0 | 0 | 5 | * | 0 | 6 | * | 0 |
| October | 45 | 19 | 11 | 67 | 27 | 12 | 112 | 46 | 23 |
| November | 63 | 14 | 1 | 138 | 55 | 23 | 201 | 69 | 24 |
| December | 185 | 25 | 2 | 234 | 63 | 22 | 419 | 88 | 24 |
| Total | 592 | 92 | 29 | 963 | 321 | 131 | 1555 | 413 | 160 |
| Annual catch ² | | | | | | | | | |
| Albacore | 115 | 18 | 3 | 348 | 117 | 48 | 463 | 135 | 51 |
| Yellowfin tuna | 181 | 34 | 12 | 133 | 34 | 8 | 314 | 68 | 20 |
| Bigeye tuna | 451 | 32 | 9 | 496 | 175 | 65 | 947 | 207 | 74 |
| Bluefin tuna | 0 | 0 | 0 | 2 | * | 0 | 2 | * | 0 |
| Skipjack tuna | 1 | * | * | 1 | * | * | 2 | * | * |
| Total tunas | 748 | 84 | 24 | 980 | 326 | 121 | 1728 | 410 | 145 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 15 | 3 | 1 | 18 | 4 | 1 | 33 | 7 | 2 |
| Striped marlin | 38 | 7 | 3 | 78 | 24 | 4 | 116 | 31 | 11 |
| Swordfish | 14 | 3 | 2 | 89 | 16 | 5 | 103 | 19 | 7 |
| Black marlin | * | * | 0 | 1 | * | * | 1 | * | * |
| Spearfish & sailfish | 13 | 1 | * | 10 | 2 | * | 23 | 3 | * |
| Total billfishes | 80 | 14 | 6 | 196 | 46 | 14 | 276 | 60 | 20 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 15.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1974.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|------------|-----------|-----------------------------------|------------|-----------|--------------------------------|------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 213 | 58 | 15 | 150 | 86 | 52 | 363 | 144 | 67 |
| February | 42 | 9 | 1 | 40 | 4 | 2 | 82 | 13 | 3 |
| March | 51 | 25 | 6 | 37 | 11 | 5 | 88 | 36 | 11 |
| April | 16 | 2 | 0 | 10 | 4 | 1 | 26 | 6 | 1 |
| May | 93 | 1 | 0 | 3 | 1 | 0 | 96 | 2 | 0 |
| June | 308 | 21 | 1 | 11 | 7 | 0 | 319 | 28 | 1 |
| July | 187 | 12 | 0 | 103 | 5 | 0 | 290 | 17 | 0 |
| August | 23 | 12 | 1 | 15 | 3 | 0 | 38 | 15 | 1 |
| September | 15 | 1 | 0 | 14 | 0 | 0 | 29 | 1 | 0 |
| October | 91 | 23 | 3 | 2 | 0 | 0 | 93 | 23 | 3 |
| November | 78 | 27 | 10 | 18 | 1 | 0 | 96 | 28 | 10 |
| December | 172 | 19 | 1 | 30 | 6 | 0 | 202 | 25 | 1 |
| Total | 1289 | 210 | 38 | 433 | 128 | 60 | 1722 | 338 | 98 |
| Annual catch ² | | | | | | | | | |
| Albacore | 173 | 35 | 4 | 281 | 94 | 46 | 454 | 129 | 80 |
| Yellowfin tuna | 332 | 63 | 12 | 119 | 36 | 26 | 451 | 99 | 38 |
| Bigeye tuna | 715 | 92 | 14 | 95 | 30 | 15 | 810 | 122 | 29 |
| Bluefin tuna | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 |
| Skipjack tuna | 2 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 |
| Total tunas | 1222 | 190 | 30 | 498 | 160 | 67 | 1720 | 350 | 117 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 59 | " | 2 | 24 | 3 | 0 | 83 | 12 | 2 |
| Striped marlin | 58 | 13 | 3 | 20 | 5 | 1 | 78 | 18 | 4 |
| Swordfish | 22 | 3 | 0 | 45 | 10 | 4 | 67 | 13 | 4 |
| Black marlin | 2 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 |
| Spearfish & sailfish | 38 | 7 | 1 | 7 | 1 | 0 | 45 | 8 | 1 |
| Total billfishes | 179 | 32 | 6 | 97 | 19 | 5 | 276 | 51 | 11 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 16.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1975.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|-----------|-----------|-----------------------------------|------------|------------|--------------------------------|------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 92 | 12 | * | 69 | 42 | 23 | 161 | 54 | 23 |
| February | 66 | 5 | * | 52 | 33 | 11 | 118 | 38 | 11 |
| March | 8 | 3 | * | 33 | 28 | 11 | 41 | 31 | 11 |
| April | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| May | 39 | 0 | 0 | 0 | 0 | 0 | 39 | 0 | 0 |
| June | 19 | 0 | 0 | 25 | 3 | 1 | 44 | 3 | 1 |
| July | 13 | 0 | 0 | 18 | 1 | 0 | 31 | 1 | 0 |
| August | 10 | 3 | 0 | 4 | 1 | 0 | 14 | 4 | 0 |
| September | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| October | 7 | 6 | 5 | 152 | 141 | 111 | 159 | 147 | 116 |
| November | 13 | 13 | 11 | 214 | 191 | 111 | 227 | 204 | 122 |
| December | 70 | 4 | * | 261 | 140 | 74 | 331 | 144 | 74 |
| Total | 342 | 46 | 16 | 828 | 580 | 342 | 1170 | 626 | 358 |
| Annual catch ² | | | | | | | | | |
| Albacore | 79 | 8 | 1 | 170 | 65 | 34 | 249 | 73 | 35 |
| Yellowfin tuna | 81 | 7 | 1 | 171 | 115 | 69 | 252 | 122 | 70 |
| Bigeye tuna | 145 | 24 | 15 | 512 | 392 | 242 | 657 | 416 | 257 |
| Bluefin tuna | 0 | 0 | 0 | 2 | 2 | 1 | 2 | 2 | 1 |
| Skipjack tuna | 1 | * | * | 1 | * | * | 2 | * | * |
| Total tunas | 306 | 39 | 17 | 856 | 574 | 346 | 1162 | 613 | 363 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 6 | 1 | * | 14 | 6 | 4 | 20 | 7 | 4 |
| Striped marlin | 23 | 3 | 1 | 70 | 46 | 18 | 93 | 49 | 19 |
| Swordfish | 7 | * | 0 | 27 | 9 | 4 | 34 | 9 | 4 |
| Black marlin | * | * | * | 1 | 1 | * | 1 | 1 | * |
| Spearfish & sailfish | 7 | * | * | 7 | 4 | 2 | 14 | 4 | 2 |
| Total billfishes | 43 | 4 | 1 | 119 | 66 | 28 | 162 | 70 | 29 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 17.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1976.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|------------|------------|-----------------------------------|-------------|------------|--------------------------------|-------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 14 | 6 | 4 | 400 | 167 | 66 | 414 | 173 | 70 |
| February | 119 | 78 | 44 | 427 | 213 | 81 | 546 | 291 | 125 |
| March | 67 | 30 | 14 | 225 | 126 | 50 | 292 | 156 | 64 |
| April | 91 | 35 | 16 | 8 | 5 | 2 | 99 | 40 | 18 |
| May | 159 | 59 | 27 | 4 | * | 0 | 163 | 59 | 27 |
| June | 203 | 75 | 33 | 7 | 3 | 1 | 210 | 78 | 34 |
| July | 7 | 3 | 1 | 1 | * | * | 8 | 3 | 1 |
| August | 1 | * | * | 3 | 1 | * | 4 | 1 | * |
| September | 23 | 11 | 5 | 139 | 78 | 32 | 162 | 89 | 37 |
| October | 60 | 29 | 14 | 191 | 94 | 36 | 251 | 123 | 50 |
| November | 17 | 11 | 5 | 108 | 49 | 18 | 125 | 60 | 23 |
| December | 62 | 39 | 22 | 343 | 160 | 64 | 405 | 199 | 86 |
| Total | 623 | 376 | 185 | 1856 | 896 | 350 | 2679 | 1272 | 535 |
| Annual catch ² | | | | | | | | | |
| Albacore | 95 | 55 | 31 | 912 | 357 | 140 | 1007 | 412 | 171 |
| Yellowfin tuna | 227 | 124 | 68 | 330 | 180 | 70 | 557 | 304 | 138 |
| Bigeye tuna | 673 | 279 | 132 | 1155 | 563 | 221 | 1828 | 842 | 353 |
| Bluefin tuna | 0 | 0 | 0 | 1 | * | * | 1 | * | * |
| Skipjack tuna | 1 | * | * | 1 | 1 | * | 2 | 1 | * |
| Total tunas | 996 | 458 | 231 | 2399 | 1101 | 431 | 3395 | 1559 | 662 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 23 | 10 | 5 | 22 | 12 | 5 | 45 | 22 | 10 |
| Striped marlin | 32 | 16 | 8 | 136 | 73 | 29 | 168 | 89 | 37 |
| Swordfish | 47 | 18 | 8 | 220 | 109 | 44 | 267 | 127 | 52 |
| Black marlin | 1 | 1 | * | 1 | * | * | 2 | 1 | * |
| Spearfish & sailfish | 7 | 3 | 2 | 8 | 4 | 2 | 15 | 7 | 4 |
| Total billfishes | 110 | 48 | 23 | 387 | 198 | 80 | 497 | 246 | 103 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 18.--Estimated catch and effort by Japanese longliners within 200, 100, and 50 miles of the Hawaiian Islands, 1977.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------|-------------------------------------|------------|------------|-----------------------------------|-------------|------------|--------------------------------|-------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| | Monthly nominal effort ¹ | | | | | | | | |
| January | 100 | 58 | 32 | 406 | 209 | 80 | 506 | 267 | 112 |
| February | 159 | 100 | 58 | 113 | 53 | 18 | 272 | 153 | 76 |
| March | 20 | 13 | 8 | 33 | 18 | 7 | 53 | 31 | 15 |
| April | 14 | 5 | 2 | 0 | 0 | 0 | 14 | 5 | 2 |
| May | 104 | 36 | 15 | 6 | * | 0 | 110 | 36 | 15 |
| June | 141 | 48 | 20 | 21 | 5 | 2 | 162 | 53 | 22 |
| July | 21 | 9 | 4 | 43 | 25 | 9 | 64 | 34 | 13 |
| August | 74 | 26 | 11 | 3 | 1 | * | 77 | 27 | 11 |
| September | 85 | 29 | 12 | 50 | 24 | 9 | 135 | 53 | 21 |
| October | 62 | 22 | 10 | 28 | 5 | 2 | 90 | 27 | 12 |
| November | 19 | 6 | 3 | 90 | 33 | 12 | 109 | 39 | 15 |
| December | 43 | 19 | 8 | 664 | 312 | 114 | 707 | 331 | 122 |
| Total | 842 | 371 | 183 | 1457 | 685 | 253 | 2299 | 1056 | 436 |
| | Annual catch ² | | | | | | | | |
| Albacore | 47 | 20 | 11 | 446 | 162 | 61 | 493 | 182 | 72 |
| Yellowfin tuna | 206 | 120 | 68 | 304 | 156 | 57 | 510 | 276 | 125 |
| Bigeye tuna | 806 | 317 | 147 | 1510 | 709 | 262 | 2316 | 1026 | 409 |
| Bluefin tuna | 0 | 0 | 0 | 1 | * | * | 1 | * | * |
| Skipjack tuna | 1 | * | * | 1 | * | * | 2 | * | * |
| Total tunas | 1060 | 457 | 226 | 2262 | 1027 | 380 | 3322 | 1484 | 606 |
| | Annual catch ² | | | | | | | | |
| Blue marlin | 37 | 15 | 7 | 26 | 13 | 5 | 63 | 28 | 12 |
| Striped marlin | 31 | 15 | 8 | 113 | 61 | 23 | 144 | 76 | 31 |
| Swordfish | 25 | 9 | 4 | 57 | 27 | 11 | 82 | 36 | 15 |
| Black marlin | 1 | 1 | * | 2 | 1 | * | 3 | 2 | * |
| Spearfish & sailfish | 8 | 3 | 1 | 5 | 2 | 1 | 13 | 5 | 2 |
| Total billfishes | 102 | 43 | 20 | 203 | 104 | 40 | 305 | 147 | 60 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 19.--Estimated catch and effort by longliners of Taiwan within 200, 100, and 50 miles of the Hawaiian Islands, 1972.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|----------|----------|-----------------------------------|-----------|-----------|--------------------------------|-----------|-----------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 33 | 16 | 6 | 33 | 16 | 6 |
| July | 0 | 0 | 0 | 20 | 7 | 3 | 20 | 7 | 3 |
| August | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 53 | 23 | 9 | 53 | 23 | 9 |
| Annual catch ² | | | | | | | | | |
| Albacore | 0 | 0 | 0 | 99 | 39 | 14 | 99 | 39 | 14 |
| Yellowfin tuna | 0 | 0 | 0 | 17 | 7 | 3 | 17 | 7 | 3 |
| Bigeye tuna | 0 | 0 | 0 | 3 | 1 | * | 3 | 1 | * |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 0 | 0 | 0 | 119 | 47 | 17 | 119 | 47 | 17 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Striped marlin | 0 | 0 | 0 | 3 | 1 | * | 3 | 1 | * |
| Swordfish | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Black marlin | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total billfishes | 0 | 0 | 0 | 3 | 1 | * | 3 | 1 | * |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 20.--Estimated catch and effort by longliners of Taiwan within 200, 100, and 50 miles of the Hawaiian Islands, 1977.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|----------|----------|-----------------------------------|-----------|----------|--------------------------------|-----------|----------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 5 | 2 | 1 | 47 | 19 | 7 | 52 | 21 | 8 |
| February | 4 | 2 | 1 | 4 | * | 0 | 8 | 2 | 1 |
| March | 1 | * | * | 0 | 0 | 0 | 1 | * | * |
| April | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 10 | 4 | 2 | 51 | 19 | 7 | 61 | 23 | 9 |
| Annual catch ² | | | | | | | | | |
| Albacore | 7 | 1 | 1 | 34 | 7 | 2 | 41 | 8 | 3 |
| Yellowfin tuna | 2 | 1 | 1 | 4 | 2 | 1 | 6 | 3 | 2 |
| Bigeye tuna | 1 | 1 | * | 4 | 2 | 1 | 5 | 3 | 1 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | * | * | 0 | * | * | 0 |
| Total tunas | 10 | 3 | 2 | 42 | 11 | 4 | 52 | 14 | 6 |
| Annual catch ² | | | | | | | | | |
| Blue marlin | * | 0 | 0 | 1 | * | * | 1 | * | * |
| Striped marlin | * | 0 | 0 | 1 | * | * | 1 | * | * |
| Swordfish | * | 0 | 0 | * | 0 | 0 | * | 0 | 0 |
| Black marlin | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total billfishes | * | 0 | 0 | 2 | * | * | 2 | * | * |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 21.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1965.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 2 | 11 | 19 | 155 | 21 | 168 |
| February | 3 | 17 | 11 | 87 | 14 | 104 |
| March | 5 | 32 | 17 | 122 | 22 | 154 |
| April | 1 | 4 | 3 | 27 | 4 | 31 |
| May | * | 1 | 6 | 49 | 6 | 50 |
| June | 1 | 4 | 6 | 41 | 7 | 45 |
| July | 1 | 8 | 1 | 5 | 2 | 13 |
| August | 1 | 7 | 1 | 4 | 2 | 11 |
| September | 1 | 9 | * | 1 | 1 | 10 |
| October | 17 | 103 | 10 | 37 | 27 | 140 |
| November | 4 | 27 | 4 | 20 | 8 | 47 |
| December | 8 | 50 | 10 | 55 | 18 | 105 |
| Total | 44 | 275 | 88 | 603 | 132 | 678 |
| Annual catch ² | | | | | | |
| Albacore | 8 | 48 | 8 | 55 | 16 | 103 |
| Yellowfin tuna | 26 | 160 | 20 | 95 | 46 | 255 |
| Bigeye tuna | 6 | 41 | 15 | 96 | 21 | 137 |
| Bluefin tuna | * | * | * | 2 | * | 2 |
| Skipjack tuna | * | * | * | * | * | * |
| Total tunas | 40 | 249 | 43 | 248 | 83 | 497 |
| Annual catch ² | | | | | | |
| Blue marlin | 6 | 36 | 8 | 40 | 14 | 76 |
| Striped marlin | * | 1 | 4 | 36 | 4 | 37 |
| Swordfish | * | 1 | 3 | 24 | 3 | 25 |
| Black marlin | * | 1 | * | 1 | * | 2 |
| Spearfish & sailfish | * | 2 | 1 | 7 | 1 | 9 |
| Total billfishes | 6 | 41 | 16 | 108 | 22 | 149 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 22.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1966.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|------------|
| | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 1 | 6 | 4 | 33 | 5 | 39 |
| February | * | 2 | 4 | 30 | 4 | 32 |
| March | 3 | 22 | 5 | 17 | 8 | 39 |
| April | 6 | 36 | 6 | 37 | 12 | 73 |
| May | 1 | 22 | 6 | 43 | 9 | 65 |
| June | 0 | 1 | 4 | 42 | 4 | 43 |
| July | * | 3 | 3 | 18 | 3 | 21 |
| August | 1 | 19 | 5 | 24 | 6 | 42 |
| September | 4 | 26 | 5 | 25 | 9 | 51 |
| October | 9 | 55 | 5 | 19 | 14 | 74 |
| November | 3 | 20 | 1 | 5 | 4 | 25 |
| December | 2 | 15 | 3 | 16 | 5 | 31 |
| Total | 34 | 226 | 51 | 309 | 85 | 535 |
| Annual catch ² | | | | | | |
| Albacore | 3 | 17 | 4 | 28 | 7 | 45 |
| Yellowfin tuna | 20 | 126 | 19 | 106 | 39 | 232 |
| Bigeye tuna | 5 | 31 | 6 | 34 | 11 | 65 |
| Bluefin tuna | * | * | * | 1 | * | 1 |
| Skipjack tuna | * | * | * | * | * | * |
| Total tunas | 28 | 174 | 29 | 169 | 57 | 343 |
| Annual catch ² | | | | | | |
| Blue marlin | 4 | 29 | 6 | 39 | 10 | 68 |
| Striped marlin | * | * | 1 | 9 | 1 | 9 |
| Swordfish | * | * | 2 | 19 | 2 | 19 |
| Black marlin | * | 1 | * | 1 | * | 2 |
| Spearfish & sailfish | * | 3 | 1 | 5 | 1 | 8 |
| Total bilifishes | 4 | 33 | 10 | 73 | 14 | 106 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 23.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1967.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|------------|
| | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 2 | 15 | 11 | 86 | 13 | 101 |
| February | 7 | 44 | 13 | 80 | 20 | 124 |
| March | 3 | 19 | 5 | 31 | 8 | 50 |
| April | 4 | 26 | 10 | 46 | 14 | 72 |
| May | 5 | 28 | 7 | 42 | 12 | 70 |
| June | * | 3 | 8 | 65 | 8 | 68 |
| July | * | 3 | 1 | 4 | 1 | 7 |
| August | 1 | 7 | 2 | 9 | 3 | 16 |
| September | * | 2 | * | 1 | * | 3 |
| October | * | 3 | * | * | * | 3 |
| November | 0 | 0 | * | 2 | * | 2 |
| December | 1 | 16 | 12 | 102 | 15 | 118 |
| Total | 25 | 166 | 69 | 468 | 94 | 634 |
| Annual catch ² | | | | | | |
| Albacore | * | 3 | 9 | 79 | 9 | 82 |
| Yellowfin tuna | 7 | 42 | 9 | 47 | 16 | 89 |
| Bigeye tuna | 7 | 44 | 13 | 81 | 20 | 125 |
| Bluefin tuna | 0 | 0 | * | * | * | * |
| Skipjack tuna | * | * | * | * | * | * |
| Total tunas | 14 | 89 | 31 | 207 | 45 | 296 |
| Annual catch ² | | | | | | |
| Blue marlin | 3 | 17 | 5 | 27 | 8 | 44 |
| Striped marlin | * | 1 | 2 | 17 | 2 | 18 |
| Swordfish | * | 1 | 4 | 26 | 4 | 27 |
| Black marlin | * | 1 | * | 1 | * | 2 |
| Spearfsh & sailfish | * | 2 | 1 | 5 | 1 | 7 |
| Total billfishes | 3 | 22 | 12 | 76 | 15 | 98 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 24.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1968.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | * | 3 | 8 | 64 | 8 | 67 |
| February | 6 | 37 | 11 | 66 | 17 | 103 |
| March | 12 | 74 | 14 | 84 | 26 | 158 |
| April | 3 | 29 | 9 | 67 | 12 | 87 |
| May | 2 | 12 | 3 | 14 | 5 | 26 |
| June | 2 | 14 | 4 | 33 | 6 | 47 |
| July | 1 | 10 | 6 | 51 | 7 | 61 |
| August | 2 | 15 | 1 | 4 | 3 | 19 |
| September | 2 | 10 | 1 | 6 | 3 | 16 |
| October | * | 3 | 1 | 3 | 1 | 6 |
| November | 1 | 6 | 1 | 10 | 2 | 16 |
| December | 2 | 10 | 10 | 83 | 12 | 93 |
| Total | 33 | 214 | 69 | 485 | 102 | 699 |
| Annual catch ² | | | | | | |
| Albacore | 2 | 12 | 10 | 95 | 12 | 107 |
| Yellowfin tuna | 17 | 104 | 11 | 52 | 28 | 156 |
| Bigeye tuna | 8 | 48 | 9 | 52 | 17 | 100 |
| Bluefin tuna | * | * | * | * | * | * |
| Skipjack tuna | * | 1 | * | * | * | 1 |
| Total tunas | 27 | 165 | 30 | 199 | 57 | 364 |
| Annual catch ² | | | | | | |
| Blue marlin | 3 | 20 | 4 | 25 | 7 | 45 |
| Striped marlin | * | 1 | 2 | 16 | 2 | 17 |
| Swordfish | * | 1 | 4 | 32 | 4 | 33 |
| Black marlin | * | 1 | * | * | * | 1 |
| Spearfish & sailfish | * | 3 | 1 | 3 | 1 | 6 |
| Total billfishes | 3 | 26 | 11 | 76 | 14 | 102 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 25.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1969.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|------------|
| | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 1 | 6 | 22 | 165 | 23 | 171 |
| February | 5 | 31 | 11 | 56 | 16 | 87 |
| March | 5 | 32 | 7 | 39 | 12 | 71 |
| April | 1 | 5 | 4 | 32 | 5 | 37 |
| May | * | 2 | 1 | 7 | 1 | 9 |
| June | 0 | 0 | 2 | 16 | 2 | 16 |
| July | 1 | 6 | 1 | 11 | 2 | 17 |
| August | * | 2 | 3 | 21 | 3 | 23 |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 1 | 5 | 3 | 11 | 4 | 16 |
| November | 1 | 6 | 3 | 21 | 4 | 27 |
| December | 4 | 24 | 6 | 33 | 10 | 57 |
| Total | 19 | 119 | 63 | 412 | 82 | 531 |
| Annual catch ² | | | | | | |
| Albacore | 2 | 10 | 9 | 79 | 11 | 89 |
| Yellowfin tuna | 6 | 42 | 14 | 71 | 20 | 113 |
| Bigeye tuna | 5 | 34 | 14 | 72 | 19 | 106 |
| Bluefin tuna | 0 | 0 | * | * | * | * |
| Skipjack tuna | * | * | * | * | * | * |
| Total tunas | 13 | 86 | 37 | 222 | 50 | 308 |
| Annual catch ² | | | | | | |
| Blue marlin | 1 | 7 | 3 | 17 | 4 | 24 |
| Striped marlin | * | 1 | 2 | 13 | 3 | 14 |
| Swordfish | * | 1 | 2 | 17 | 2 | 18 |
| Black marlin | * | 1 | * | 1 | * | 2 |
| Spearfish & sailfish | * | * | * | 1 | * | 1 |
| Total billfishes | 1 | 10 | 7 | 49 | 8 | 59 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 26.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1970.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|-------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 4 | 24 | 8 | 54 | 12 | 78 |
| February | 4 | 24 | 22 | 167 | 26 | 191 |
| March | 2 | 15 | 42 | 226 | 44 | 241 |
| April | 1 | 7 | 8 | 64 | 9 | 71 |
| May | 3 | 16 | 7 | 66 | 10 | 82 |
| June | 1 | 7 | 7 | 66 | 8 | 73 |
| July | 1 | 3 | 1 | 5 | 2 | 8 |
| August | 1 | 7 | 5 | 27 | 6 | 34 |
| September | 2 | 12 | 4 | 23 | 6 | 35 |
| October | 2 | 13 | 8 | 45 | 10 | 58 |
| November | 1 | 4 | 9 | 39 | 10 | 43 |
| December | 0 | 1 | 25 | 88 | 25 | 89 |
| Total | 22 | 133 | 146 | 870 | 168 | 1003 |
| Annual catch ² | | | | | | |
| Albacore | 1 | 7 | 17 | 92 | 18 | 99 |
| Yellowfin tuna | 10 | 68 | 44 | 220 | 54 | 298 |
| Bigeye tuna | 4 | 26 | 14 | 85 | 18 | 111 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | * | * | 1 | 4 | 1 | 4 |
| Total tunas | 15 | 101 | 76 | 401 | 91 | 502 |
| Annual catch ² | | | | | | |
| Blue marlin | 2 | 13 | 11 | 63 | 13 | 76 |
| Striped marlin | * | 1 | 9 | 71 | 9 | 72 |
| Swordfish | * | 1 | 5 | 37 | 5 | 38 |
| Black marlin | * | * | * | 3 | * | 3 |
| Spearfish & sailfish | * | 1 | 3 | 16 | 3 | 17 |
| Total billfishes | 2 | 16 | 28 | 190 | 30 | 206 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 27.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1971.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|-------------|------------------------|-------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 1 | 2 | 17 | 2 | 18 |
| February | 0 | 1 | 13 | 123 | 13 | 124 |
| March | 0 | 0 | 18 | 176 | 18 | 176 |
| April | 0 | 0 | 4 | 59 | 4 | 59 |
| May | 0 | 0 | * | 5 | * | 5 |
| June | 0 | 0 | 1 | 21 | 1 | 21 |
| July | 0 | 0 | 2 | 12 | 2 | 12 |
| August | 0 | 0 | 1 | 19 | 1 | 19 |
| September | 0 | 0 | 47 | 72 | 47 | 72 |
| October | 0 | 0 | 113 | 136 | 113 | 136 |
| November | 13 | 17 | 54 | 99 | 67 | 116 |
| December | 0 | 0 | 64 | 282 | 64 | 282 |
| Total | 13 | 19 | 319 | 1021 | 332 | 1040 |
| Annual catch ² | | | | | | |
| Albacore | 0 | * | 71 | 178 | 71 | 178 |
| Yellowfin tuna | 6 | 8 | 95 | 216 | 101 | 224 |
| Bigeye tuna | 1 | 1 | 20 | 97 | 21 | 98 |
| Bluefin tuna | 0 | 0 | * | * | * | * |
| Skipjack tuna | * | * | * | * | * | * |
| Total tunas | 7 | 9 | 186 | 491 | 193 | 500 |
| Annual catch ² | | | | | | |
| Blue marlin | 2 | 2 | 20 | 54 | 22 | 56 |
| Striped marlin | * | * | 6 | 48 | 6 | 48 |
| Swordfish | * | * | 4 | 28 | 4 | 28 |
| Black marlin | 0 | 0 | 2 | 5 | 2 | 5 |
| Spearfish & sailfish | 0 | 0 | 2 | 17 | 2 | 17 |
| Total billfishes | 2 | 2 | 34 | 152 | 36 | 154 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 28.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1972.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 59 | 151 | 59 | 151 |
| February | 0 | 1 | 23 | 65 | 23 | 66 |
| March | 0 | 1 | 4 | 37 | 4 | 38 |
| April | 0 | 0 | 5 | 42 | 5 | 42 |
| May | 0 | 15 | 2 | 14 | 2 | 29 |
| June | 0 | 2 | 16 | 37 | 16 | 39 |
| July | 0 | 0 | 2 | 12 | 2 | 12 |
| August | 0 | 0 | 25 | 29 | 25 | 29 |
| September | 0 | 1 | 30 | 39 | 30 | 40 |
| October | 0 | 0 | 25 | 54 | 25 | 54 |
| November | 0 | 0 | 19 | 44 | 19 | 44 |
| December | 0 | 0 | 30 | 69 | 30 | 69 |
| Total | 0 | 20 | 240 | 593 | 240 | 613 |
| Annual catch ² | | | | | | |
| Albacore | 0 | * | 82 | 168 | 82 | 168 |
| Yellowfin tuna | 0 | 5 | 70 | 111 | 70 | 116 |
| Bigeye tuna | 0 | 6 | 14 | 48 | 14 | 54 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 1 | 1 | 1 | 1 |
| Total tunas | 0 | 11 | 167 | 328 | 167 | 339 |
| Annual catch ² | | | | | | |
| Blue marlin | 0 | 2 | 8 | 22 | 8 | 24 |
| Striped marlin | 0 | * | 3 | 20 | 3 | 20 |
| Swordfish | 0 | * | 4 | 20 | 4 | 20 |
| Black marlin | 0 | 0 | 1 | 2 | 1 | 2 |
| Spearfish & sailfish | 0 | 0 | 5 | 9 | 5 | 9 |
| Total billfishes | 0 | 2 | 21 | 73 | 21 | 75 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 29.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1973.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|------------|
| | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 16 | 23 | 16 | 23 |
| February | 0 | 8 | 3 | 26 | 3 | 34 |
| March | * | 5 | 4 | 46 | 4 | 51 |
| April | * | 9 | 1 | 5 | 1 | 14 |
| May | 0 | 3 | * | 2 | * | 5 |
| June | 4 | 10 | 3 | 16 | 7 | 26 |
| July | 0 | 12 | * | 2 | * | 14 |
| August | 0 | 0 | 1 | 11 | 1 | 11 |
| September | 0 | 0 | 1 | 6 | 1 | 6 |
| October | * | 3 | 0 | 1 | * | 4 |
| November | 0 | 5 | 8 | 34 | 8 | 39 |
| December | 0 | 0 | 6 | 61 | 6 | 61 |
| Total | 4 | 55 | 43 | 233 | 47 | 288 |
| Annual catch ² | | | | | | |
| Albacore | 1 | 5 | 22 | 100 | 23 | 105 |
| Yellowfin tuna | 1 | 22 | 3 | 21 | 4 | 43 |
| Bigeye tuna | 1 | 17 | 3 | 24 | 4 | 41 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | * | * | * | * |
| Total tunas | 3 | 44 | 28 | 145 | 31 | 189 |
| Annual catch ² | | | | | | |
| Blue marlin | * | 7 | 1 | 7 | 1 | 14 |
| Striped marlin | * | 1 | 1 | 11 | 1 | 12 |
| Swordfish | * | 1 | 1 | 9 | 1 | 10 |
| Black marlin | 0 | 0 | * | * | * | * |
| Spearfish & sailfish | * | * | * | * | * | * |
| Total billfishes | * | 9 | 3 | 27 | 3 | 36 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 30.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1974.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|------------|
| | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | * | 4 | 1 | 5 | 1 | 9 |
| February | 0 | 23 | 5 | 51 | 5 | 74 |
| March | 7 | 97 | 6 | 62 | 13 | 159 |
| April | 11 | 21 | 18 | 103 | 29 | 124 |
| May | * | 44 | 7 | 59 | 7 | 103 |
| June | 0 | 13 | 2 | 31 | 2 | 44 |
| July | 0 | 6 | 0 | 0 | 0 | 6 |
| August | 0 | 0 | * | 1 | * | 1 |
| September | * | 23 | 0 | 0 | * | 23 |
| October | 0 | 42 | 0 | 7 | 0 | 49 |
| November | 0 | 0 | 0 | 15 | 0 | 15 |
| December | 0 | * | * | 3 | * | 3 |
| Total | 18 | 273 | 39 | 337 | 57 | 610 |
| Annual catch ² | | | | | | |
| Albacore | 1 | 70 | 1 | 20 | 2 | 90 |
| Yellowfin tuna | 13 | 111 | 4 | 28 | 17 | 139 |
| Bigeye tuna | 6 | 53 | 5 | 23 | 11 | 76 |
| Bluefin tuna | 0 | 0 | * | * | * | * |
| Skipjack tuna | 0 | * | * | * | * | * |
| Total tunas | 20 | 234 | 10 | 71 | 30 | 305 |
| Annual catch ² | | | | | | |
| Blue marlin | 1 | 27 | 2 | 19 | 3 | 46 |
| Striped marlin | * | 3 | 6 | 63 | 6 | 66 |
| Swordfish | * | 2 | 4 | 29 | 4 | 31 |
| Black marlin | 0 | * | * | * | * | * |
| Spearfish & sailfish | * | 4 | * | 2 | * | 6 |
| Total billfishes | 1 | 36 | 12 | 113 | 13 | 149 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 31.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1975.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 23 | 5 | 42 | 5 | 65 |
| February | 0 | 17 | 7 | 61 | 7 | 78 |
| March | 2 | 25 | 12 | 99 | 14 | 124 |
| April | 6 | 27 | 17 | 36 | 23 | 63 |
| May | 0 | 0 | 2 | 21 | 2 | 21 |
| June | 0 | 0 | * | 1 | * | 1 |
| July | 2 | 20 | 1 | 4 | 3 | 24 |
| August | * | 2 | 3 | 3 | 3 | 5 |
| September | * | 23 | 5 | 6 | 5 | 29 |
| October | 10 | 133 | 3 | 41 | 13 | 174 |
| November | 0 | 2 | 2 | 16 | 2 | 18 |
| December | 0 | 6 | 1 | 12 | 1 | 18 |
| Total | 20 | 278 | 58 | 342 | 78 | 620 |
| Annual catch ² | | | | | | |
| Albacore | 5 | 58 | 14 | 90 | 19 | 148 |
| Yellowfin tuna | 7 | 100 | 7 | 48 | 14 | 148 |
| Bigeye tuna | 2 | 44 | 3 | 30 | 5 | 74 |
| Bluefin tuna | 0 | 0 | * | 1 | * | 1 |
| Skipjack tuna | * | * | * | * | * | * |
| Total tunas | 14 | 202 | 24 | 169 | 38 | 371 |
| Annual catch ² | | | | | | |
| Blue marlin | 3 | 36 | 3 | 14 | 6 | 50 |
| Striped marlin | * | * | 3 | 21 | 3 | 21 |
| Swordfish | * | 1 | 5 | 36 | 5 | 37 |
| Black marlin | 0 | * | * | * | * | * |
| Speerfish & sailfish | 0 | * | * | 1 | * | 1 |
| Total billfishes | 3 | 37 | 11 | 72 | 14 | 109 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 32.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1976.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|-------------|
| | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 10 | 60 | 13 | 88 | 23 | 148 |
| February | 6 | 36 | 9 | 57 | 15 | 93 |
| March | 2 | 13 | 6 | 44 | 8 | 57 |
| April | 5 | 30 | 5 | 21 | 10 | 51 |
| May | 1 | 7 | 1 | 5 | 2 | 12 |
| June | 1 | 7 | 1 | 7 | 2 | 14 |
| July | 6 | 39 | 3 | 13 | 9 | 52 |
| August | 5 | 30 | 5 | 27 | 10 | 57 |
| September | 5 | 30 | 4 | 25 | 9 | 55 |
| October | 11 | 65 | 5 | 37 | 16 | 102 |
| November | 31 | 192 | 18 | 127 | 49 | 319 |
| December | 37 | 226 | 13 | 49 | 50 | 275 |
| Total | 120 | 735 | 83 | 500 | 203 | 1235 |
| Annual catch ² | | | | | | |
| Albacore | 14 | 90 | 13 | 91 | 27 | 181 |
| Yellowfin tuna | 93 | 577 | 44 | 190 | 137 | 767 |
| Bigeye tuna | 41 | 252 | 21 | 95 | 62 | 347 |
| Bluefin tuna | 0 | * | * | * | * | * |
| Skipjack tuna | * | 3 | * | 1 | * | 4 |
| Total tunas | 148 | 922 | 78 | 377 | 226 | 1299 |
| Annual catch ² | | | | | | |
| Blue marlin | 9 | 58 | 6 | 32 | 15 | 90 |
| Striped marlin | * | 2 | 1 | 8 | 1 | 10 |
| Swordfish | 2 | 10 | 3 | 20 | 5 | 30 |
| Black marlin | * | 1 | * | 1 | * | 2 |
| Spearfish & sailfish | * | 2 | * | 2 | * | 4 |
| Total billfishes | 11 | 73 | 10 | 63 | 21 | 136 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 33.--Estimated catch and effort by Japanese longliners around Guam and the Northern Mariana Islands, 1977.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|-------------|-----------------------|-------------|------------------------|-------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 17 | 106 | 14 | 77 | 31 | 183 |
| February | 5 | 34 | 8 | 48 | 13 | 82 |
| March | 11 | 69 | 12 | 70 | 23 | 139 |
| April | 8 | 48 | 5 | 20 | 13 | 68 |
| May | 29 | 183 | 20 | 83 | 49 | 266 |
| June | 26 | 168 | 34 | 137 | 60 | 305 |
| July | 20 | 130 | 25 | 108 | 45 | 238 |
| August | 8 | 52 | 10 | 45 | 18 | 97 |
| September | 13 | 80 | 15 | 64 | 28 | 144 |
| October | 22 | 136 | 17 | 74 | 39 | 210 |
| November | 24 | 152 | 21 | 94 | 45 | 246 |
| December | 7 | 41 | 9 | 57 | 16 | 98 |
| Total | 190 | 1199 | 190 | 877 | 380 | 2076 |
| Annual catch ² | | | | | | |
| Albacore | 7 | 49 | 12 | 109 | 19 | 158 |
| Yellowfin tuna | 217 | 1368 | 208 | 861 | 425 | 2229 |
| Bigeye tuna | 90 | 572 | 94 | 406 | 184 | 978 |
| Bluefin tuna | * | * | * | 1 | * | 1 |
| Skipjack tuna | * | * | * | * | * | * |
| Total tunas | 314 | 1989 | 314 | 1377 | 628 | 3366 |
| Annual catch ² | | | | | | |
| Blue marlin | 14 | 87 | 15 | 63 | 29 | 150 |
| Striped marlin | * | 1 | * | 2 | * | 3 |
| Swordfish | 1 | 9 | 2 | 13 | 3 | 22 |
| Black marlin | 1 | 5 | 1 | 4 | 2 | 9 |
| Spearfish & sailfish | * | 2 | * | 1 | * | 3 |
| Total billfishes | 16 | 104 | 18 | 83 | 34 | 187 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 34.--Estimated catch and effort by longliners of Taiwan around Guam and the Northern Mariana Islands, 1967.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|------------|------------------------|------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 2 | 12 | 2 | 10 | 4 | 22 |
| August | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 12 | 2 | 10 | 4 | 22 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | 0 | 0 | 0 | 0 |
| Yellowfin tuna | * | 2 | * | 2 | * | 4 |
| Bigeye tuna | * | 1 | * | 1 | * | 2 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | * | 3 | * | 3 | * | 6 |
| Annual catch ² | | | | | | |
| Blue marlin | * | 1 | * | 1 | * | 2 |
| Striped marlin | * | * | * | * | * | * |
| Swordfish | 0 | 0 | 0 | 0 | 0 | 0 |
| Black marlin | * | * | * | * | * | * |
| Spearfish & sailfish | * | * | * | * | * | * |
| Total billfishes | * | 1 | * | 1 | * | 2 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 35.--Estimated catch and effort by foreign longliners based at American Samoa, 1965.

| | Inside FCZ (A) | | | | Outside FCZ (B) | | | | Entire area (A+B) | | | | Within 50 mi. | | | |
|-------------------------------------|----------------|--------|-------|-------|-----------------|--------|-------|-------|-------------------|--------|-------|-------|---------------|--------|-------|-------|
| | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total |
| January | 20 | 31 | 42 | 93 | 867 | 159 | 275 | 1301 | 987 | 190 | 317 | 1394 | 5 | * | 1 | 6 |
| February | 12 | 2 | 1 | 15 | 702 | 158 | 329 | 1189 | 714 | 160 | 330 | 1204 | 0 | 0 | 0 | 0 |
| March | 6 | 12 | 3 | 21 | 584 | 117 | 355 | 1056 | 590 | 129 | 358 | 1077 | 0 | 0 | 1 | 1 |
| April | 0 | * | 0 | 0 | 802 | 272 | 379 | 1453 | 802 | 272 | 379 | 1453 | 0 | 0 | 0 | 0 |
| May | 0 | 3 | 3 | 6 | 467 | 216 | 337 | 1020 | 467 | 219 | 340 | 1026 | 0 | 0 | 1 | 1 |
| June | 0 | 2 | 12 | 14 | 654 | 218 | 327 | 1199 | 654 | 220 | 339 | 1213 | 0 | 1 | 7 | 8 |
| July | 0 | 3 | 5 | 8 | 512 | 169 | 338 | 1019 | 512 | 172 | 343 | 1027 | 0 | 0 | 3 | 3 |
| August | 0 | 12 | 6 | 18 | 625 | 137 | 331 | 1093 | 625 | 149 | 337 | 1111 | 0 | 3 | 3 | 6 |
| September | 1 | 7 | 21 | 29 | 588 | 123 | 371 | 1082 | 589 | 130 | 392 | 1111 | 0 | 1 | 6 | 7 |
| October | 5 | 24 | 8 | 37 | 569 | 187 | 418 | 1174 | 574 | 211 | 426 | 1211 | 0 | 1 | 3 | 4 |
| November | 18 | 47 | 49 | 114 | 793 | 142 | 260 | 1195 | 911 | 199 | 309 | 1309 | * | 9 | 14 | 22 |
| December | 86 | 42 | 66 | 194 | 1001 | 139 | 443 | 1583 | 1087 | 181 | 509 | 1777 | 4 | 26 | 14 | 44 |
| Total | 146 | 185 | 216 | 549 | 8164 | 2037 | 4163 | 14364 | 8312 | 2222 | 4379 | 14913 | 9 | 40 | 53 | 102 |
| Monthly nominal effort ¹ | | | | | | | | | | | | | | | | |
| Albacore | 124 | 143 | 171 | 438 | 9289 | 1559 | 4173 | 15021 | 9413 | 1702 | 4344 | 15459 | 6 | 30 | 42 | 78 |
| Yellowfin tuna | 21 | 27 | 40 | 88 | 2694 | 761 | 1604 | 5059 | 2715 | 788 | 1644 | 5147 | 2 | 5 | 11 | 18 |
| Bigeye tuna | 5 | 15 | 25 | 45 | 1448 | 423 | 1485 | 3356 | 1453 | 438 | 1511 | 3402 | * | 2 | 5 | 7 |
| Bluefin tuna | 0 | * | * | 0 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 9 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 17 | 3 | 9 | 29 | 17 | 3 | 9 | 29 | 0 | 0 | 0 | 0 |
| Total tunas | 150 | 185 | 237 | 572 | 13451 | 2749 | 7274 | 23474 | 13601 | 2934 | 7511 | 24046 | 9 | 37 | 58 | 103 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Blue marlin | 1 | 5 | 7 | 13 | 35 | 36 | 125 | 196 | 36 | 41 | 132 | 209 | 0 | 2 | 1 | 3 |
| Striped marlin | 0 | 0 | 3 | 3 | 13 | 3 | 56 | 72 | 13 | 3 | 59 | 75 | 0 | 0 | 0 | 0 |
| Swordfish | 0 | 0 | 3 | 3 | 5 | 3 | 25 | 33 | 5 | 3 | 28 | 36 | 0 | 0 | 0 | 0 |
| Black marlin | 0 | 3 | 5 | 8 | 2 | 36 | 31 | 69 | 2 | 39 | 36 | 77 | 0 | 0 | 0 | 0 |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | 7 | 3 | 11 | 21 | 7 | 3 | 11 | 21 | 0 | 0 | 0 | 0 |
| Total billfishes | 1 | 8 | 18 | 27 | 62 | 81 | 248 | 391 | 63 | 89 | 266 | 418 | 0 | 2 | 1 | 3 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Mahoo | 5 | 1 | 4 | 10 | 194 | 16 | 56 | 266 | 199 | 17 | 60 | 276 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 36.--Estimated catch and effort by foreign longliners based at American Samoa, 1966.

| | Inside FCZ (A) | | | | Outside FCZ (B) | | | | Entire area (A+B) | | | | Within 50 mi. | | | |
|---------------------------|-------------------------------------|--------|-------|-------|-----------------|--------|-------|-------|-------------------|--------|-------|-------|---------------|--------|-------|-------|
| | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total |
| | Monthly nominal effort ¹ | | | | | | | | | | | | | | | |
| January | 20 | 35 | 32 | 87 | 668 | 207 | 367 | 1242 | 688 | 242 | 399 | 1329 | 8 | 5 | 4 | 17 |
| February | 11 | 5 | 8 | 24 | 538 | 372 | 456 | 1366 | 549 | 377 | 464 | 1390 | 3 | 0 | 4 | 7 |
| March | 18 | 37 | 23 | 78 | 473 | 498 | 495 | 1466 | 491 | 535 | 518 | 1544 | 9 | 2 | 0 | 11 |
| April | 1 | 5 | 6 | 12 | 266 | 548 | 405 | 1219 | 267 | 553 | 411 | 1231 | 0 | 0 | 1 | 1 |
| May | 0 | 16 | 3 | 19 | 401 | 713 | 818 | 1932 | 401 | 729 | 821 | 1951 | 0 | 2 | 0 | 2 |
| June | 0 | 45 | 0 | 45 | 572 | 554 | 911 | 2037 | 572 | 599 | 911 | 2082 | 0 | 1 | 0 | 1 |
| July | 1 | 53 | 11 | 65 | 843 | 662 | 806 | 2311 | 844 | 715 | 817 | 2376 | 0 | 11 | 0 | 11 |
| August | 0 | 35 | 2 | 37 | 888 | 651 | 728 | 2267 | 888 | 686 | 730 | 2304 | 0 | 14 | 0 | 14 |
| September | 7 | 21 | 1 | 29 | 696 | 647 | 667 | 2010 | 703 | 668 | 668 | 2039 | 3 | 7 | 0 | 10 |
| October | 3 | 99 | 26 | 128 | 791 | 862 | 878 | 2531 | 794 | 961 | 904 | 2659 | 0 | 5 | 8 | 13 |
| November | 27 | 165 | 37 | 229 | 599 | 725 | 961 | 2285 | 626 | 890 | 998 | 2514 | 1 | 6 | 7 | 14 |
| December | 4 | 134 | 10 | 148 | 522 | 1021 | 839 | 2382 | 526 | 1155 | 849 | 2530 | 2 | 8 | 2 | 12 |
| Total | 92 | 650 | 159 | 901 | 7257 | 7460 | 8331 | 23048 | 7349 | 8110 | 8490 | 23949 | 26 | 61 | 26 | 113 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Albacore | 52 | 425 | 105 | 582 | 8848 | 7047 | 9012 | 24907 | 8900 | 7472 | 9117 | 25489 | 11 | 34 | 15 | 60 |
| Yellowfin tuna | 19 | 88 | 25 | 132 | 2749 | 2343 | 2297 | 7389 | 2768 | 2431 | 2322 | 7521 | 7 | 7 | 4 | 18 |
| Bigeye tuna | 10 | 54 | 18 | 82 | 1544 | 1011 | 2613 | 5168 | 1554 | 1065 | 2631 | 5250 | 3 | 4 | 1 | 8 |
| Bluefin tuna | * | 1 | * | 1 | 14 | 3 | 9 | 26 | 14 | 4 | 9 | 27 | * | * | 0 | * |
| Skipjack tuna | * | 1 | * | 1 | 20 | 16 | 29 | 65 | 20 | 17 | 29 | 66 | * | * | * | * |
| Total tunas | 81 | 569 | 148 | 798 | 13175 | 10420 | 13960 | 37555 | 13256 | 10969 | 14108 | 38353 | 21 | 45 | 20 | 86 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Blue marlin | * | 38 | 3 | 41 | * | 408 | 224 | 632 | * | 446 | 227 | 673 | * | 2 | 1 | 3 |
| Striped marlin | * | 3 | 3 | 6 | * | 104 | 73 | 177 | * | 107 | 76 | 183 | * | * | 1 | 1 |
| Swordfish | * | 5 | 2 | 7 | * | 31 | 39 | 70 | * | 36 | 41 | 77 | * | 1 | * | 1 |
| Black marlin | * | 2 | 2 | 4 | * | 60 | 92 | 152 | * | 62 | 94 | 156 | * | * | * | * |
| Spearfish & sailfish | * | 1 | 1 | 2 | * | 35 | 28 | 63 | * | 36 | 29 | 65 | * | * | * | * |
| Total billfishes | * | 49 | 11 | 60 | * | 638 | 456 | 1094 | * | 667 | 467 | 1154 | * | 3 | 2 | 5 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Wahoo | 2 | 5 | 2 | 9 | 121 | 76 | 168 | 365 | 123 | 61 | 170 | 374 | 1 | * | 1 | 2 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 37.--Estimated catch and effort by foreign longliners based at American Samoa, 1967.

| | Inside FCZ (A) | | | Outside FCZ (B) | | | Entire area (A+B) | | | | | Within 50 mi. | | | | |
|-------------------------------------|----------------|------------|-----------|-----------------|-------------|--------------|-------------------|--------------|-------------|--------------|--------------|---------------|----------|-----------|----------|-----------|
| | Japan | Taiwan | Korea | Japan | Taiwan | Korea | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | | |
| | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | | |
| Monthly nominal effort ¹ | | | | | | | | | | | | | | | | |
| January | 0 | 35 | 1 | 36 | 395 | 702 | 843 | 1940 | 395 | 737 | 944 | 1976 | 0 | 4 | 0 | 4 |
| February | 0 | 20 | 16 | 36 | 371 | 852 | 858 | 2081 | 371 | 872 | 874 | 2117 | 0 | 4 | 2 | 6 |
| March | 0 | 35 | 4 | 39 | 538 | 838 | 995 | 2371 | 538 | 873 | 999 | 2410 | 0 | 7 | 0 | 7 |
| April | 1 | 30 | 5 | 36 | 620 | 791 | 948 | 2359 | 621 | 821 | 953 | 2395 | * | 4 | * | 4 |
| May | 0 | 19 | 8 | 27 | 689 | 1037 | 894 | 2620 | 689 | 1056 | 902 | 2647 | 0 | 2 | 2 | 4 |
| June | 0 | 8 | 0 | 8 | 795 | 934 | 907 | 2636 | 795 | 942 | 907 | 2544 | 0 | 3 | 0 | 3 |
| July | 0 | 3 | 1 | 4 | 727 | 995 | 944 | 2666 | 727 | 958 | 945 | 2670 | 0 | * | 0 | * |
| August | 0 | 9 | 4 | 13 | 980 | 1049 | 1009 | 3038 | 980 | 1058 | 1013 | 3051 | 0 | * | 0 | * |
| September | 0 | 13 | 10 | 23 | 726 | 965 | 775 | 2466 | 726 | 978 | 785 | 2499 | 0 | 1 | 5 | 6 |
| October | 0 | 40 | 1 | 41 | 626 | 1241 | 922 | 2789 | 626 | 1281 | 923 | 2830 | 0 | 9 | 0 | 9 |
| November | 10 | 59 | 2 | 71 | 447 | 1014 | 916 | 2377 | 457 | 1073 | 918 | 2448 | 0 | 7 | 0 | 7 |
| December | 0 | 41 | 1 | 42 | 283 | 817 | 606 | 1706 | 283 | 858 | 607 | 1748 | 0 | 3 | * | 3 |
| Total | 11 | 312 | 53 | 376 | 7197 | 11235 | 10617 | 29049 | 7208 | 11547 | 10670 | 29425 | * | 49 | 9 | 53 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Albacore | 8 | 150 | 19 | 177 | 7469 | 10859 | 9680 | 28013 | 7477 | 11019 | 9699 | 28195 | * | 24 | 3 | 27 |
| Yellowfin tuna | 1 | 41 | 8 | 50 | 1292 | 2389 | 2373 | 6054 | 1293 | 2430 | 2381 | 6104 | * | 6 | 3 | 9 |
| Bigeye tuna | * | 21 | 3 | 24 | 1153 | 2092 | 3128 | 6373 | 1153 | 2113 | 3131 | 6397 | 0 | 4 | * | 4 |
| Bluefin tuna | 0 | * | * | * | 8 | 11 | 9 | 28 | 8 | 11 | 9 | 28 | 0 | * | 0 | * |
| Skipjack tuna | * | 1 | * | 1 | 28 | 29 | 33 | 90 | 28 | 30 | 33 | 91 | 0 | * | * | * |
| Total tunas | 9 | 213 | 30 | 252 | 9950 | 15390 | 15223 | 40563 | 9959 | 15603 | 15253 | 40815 | * | 34 | 6 | 40 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Blue marlin | 4 | 19 | 1 | 19 | 1 | 412 | 151 | 564 | 1 | 430 | 152 | 583 | * | 3 | * | 3 |
| Striped marlin | * | * | * | * | 1 | 134 | 55 | 190 | 1 | 134 | 55 | 190 | 0 | * | * | * |
| Swordfish | 0 | * | * | * | * | 37 | 16 | 53 | * | 37 | 16 | 53 | 0 | * | 0 | * |
| Black marlin | * | 2 | 1 | 3 | * | 68 | 57 | 125 | * | 70 | 58 | 128 | 0 | * | * | * |
| Spearfish & sailfish | 0 | 1 | * | 1 | * | 49 | 41 | 90 | * | 50 | 41 | 91 | 0 | * | * | * |
| Total billfishes | * | 21 | 2 | 23 | 2 | 700 | 320 | 1022 | 2 | 721 | 322 | 1045 | * | 3 | * | 3 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Wahoo | * | 3 | * | 3 | 29 | 135 | 252 | 416 | 29 | 138 | 252 | 419 | 0 | 0 | * | * |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 38.--Estimated catch and effort by foreign longliners based at American Samoa, 1968.

| | Inside FCZ (A) | | | Outside FCZ (B) | | | Entire area (A+B) | | | Within 50 mi. | | | | | | |
|-------------------------|-------------------------------------|------------|-----------|-----------------|-------------|--------------|-------------------|--------------|-------------|---------------|--------------|--------------|----------|-----------|-----------|-----------|
| | Japan | Taiwan | Korea | Japan | Taiwan | Korea | Japan | Taiwan | Korea | Japan | Taiwan | Korea | Total | | | |
| | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | | | |
| | Monthly nominal effort ¹ | | | | | | | | | | | | | | | |
| January | 1 | 50 | 0 | 51 | 448 | 993 | 685 | 2126 | 449 | 1043 | 685 | 2177 | 0 | 6 | 0 | 6 |
| February | 1 | 42 | 1 | 44 | 293 | 984 | 746 | 2023 | 294 | 1026 | 747 | 2067 | 0 | 2 | 0 | 2 |
| March | 0 | 48 | 9 | 57 | 396 | 1146 | 805 | 2347 | 396 | 1194 | 814 | 2404 | 0 | 2 | 0 | 2 |
| April | 0 | 45 | 2 | 47 | 403 | 1058 | 885 | 2346 | 403 | 1103 | 887 | 2393 | 0 | 6 | 0 | 6 |
| May | 0 | 39 | 1 | 40 | 490 | 1291 | 946 | 2727 | 490 | 1330 | 947 | 2767 | 0 | 2 | 1 | 3 |
| June | 0 | 33 | 3 | 36 | 383 | 1003 | 1132 | 2518 | 383 | 1036 | 1135 | 2554 | 0 | 7 | 1 | 8 |
| July | 0 | 3 | 2 | 5 | 359 | 1030 | 985 | 2374 | 359 | 1033 | 987 | 2379 | 0 | 0 | 0 | 0 |
| August | 0 | 22 | 4 | 26 | 372 | 937 | 820 | 2129 | 372 | 959 | 824 | 2155 | 0 | 2 | 2 | 4 |
| September | 0 | 21 | 1 | 22 | 262 | 546 | 772 | 1620 | 262 | 587 | 773 | 1642 | 0 | 7 | 0 | 7 |
| October | 0 | 19 | 13 | 32 | 186 | 575 | 757 | 1518 | 186 | 594 | 770 | 1550 | 0 | 9 | 0 | 9 |
| November | 2 | 4 | 29 | 35 | 170 | 474 | 840 | 1484 | 172 | 478 | 869 | 1519 | 1 | 0 | 24 | 25 |
| December | 1 | 14 | 23 | 38 | 165 | 371 | 704 | 1240 | 166 | 385 | 727 | 1275 | 0 | 4 | 13 | 14 |
| Total | 5 | 340 | 88 | 433 | 3947 | 10428 | 10077 | 24452 | 3952 | 10768 | 10165 | 24885 | 1 | 47 | 38 | 56 |
| | Annual catch ² | | | | | | | | | | | | | | | |
| Albacore | 3 | 153 | 39 | 195 | 3153 | 7938 | 6438 | 17529 | 3156 | 8051 | 6477 | 17724 | 0 | 19 | 20 | 39 |
| Yellowfin tuna | 2 | 58 | 15 | 75 | 1208 | 3667 | 3488 | 8363 | 1210 | 3725 | 3503 | 8438 | 0 | 5 | 7 | 12 |
| Bigeye tuna | 0 | 15 | 3 | 18 | 319 | 1401 | 1474 | 3194 | 319 | 1416 | 1477 | 3212 | 0 | 1 | 1 | 2 |
| Bluefin tuna | 0 | 0 | 1 | 1 | 5 | 14 | 12 | 31 | 5 | 14 | 13 | 32 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 5 | 13 | 31 | 49 | 5 | 13 | 31 | 49 | 0 | 0 | 0 | 0 |
| Total tunas | 5 | 226 | 58 | 289 | 4690 | 13033 | 11443 | 29166 | 4695 | 13259 | 11501 | 29455 | 0 | 25 | 29 | 53 |
| | Annual catch ² | | | | | | | | | | | | | | | |
| Blue marlin | 0 | 49 | 1 | 50 | 5 | 1026 | 45 | 1076 | 5 | 1075 | 46 | 1126 | 0 | 4 | 0 | 4 |
| Striped marlin | 0 | 1 | 0 | 1 | 4 | 230 | 20 | 254 | 4 | 231 | 20 | 255 | 0 | 0 | 0 | 0 |
| Swordfish | 0 | 2 | 0 | 2 | 1 | 87 | 10 | 98 | 1 | 89 | 10 | 100 | 0 | 0 | 0 | 0 |
| Black marlin | 0 | 9 | 0 | 9 | 0 | 168 | 26 | 194 | 0 | 177 | 26 | 203 | 0 | 1 | 0 | 1 |
| Spearfish & sailfish | 0 | 3 | 0 | 3 | 1 | 76 | 29 | 106 | 1 | 79 | 29 | 109 | 0 | 0 | 0 | 0 |
| Total billfishes | 0 | 64 | 1 | 65 | 11 | 1587 | 130 | 1728 | 11 | 1651 | 131 | 1793 | 0 | 5 | 0 | 5 |
| Wahoo | 0 | 5 | 0 | 5 | 6 | 80 | 147 | 233 | 6 | 85 | 147 | 238 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 39.--Estimated catch and effort by foreign longliners based at American Samoa, 1969.

| | Inside FCZ (A) | | | | Outside FCZ (B) | | | | Entire area (A+B) | | | | Within 50 mi. | | | |
|---------------------------|-------------------------------------|--------|-------|-------|-----------------|--------|-------|-------|-------------------|--------|-------|-------|---------------|--------|-------|-------|
| | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total |
| | Monthly nominal effort ¹ | | | | | | | | | | | | | | | |
| January | 1 | 30 | 50 | 81 | 64 | 393 | 765 | 1222 | 65 | 423 | 815 | 1303 | 0 | 5 | 27 | 32 |
| February | 0 | 32 | 11 | 43 | 95 | 413 | 954 | 1462 | 95 | 445 | 965 | 1505 | 0 | 8 | 1 | 9 |
| March | 0 | 28 | 12 | 40 | 181 | 579 | 934 | 1694 | 181 | 607 | 946 | 1734 | 0 | 8 | 8 | 16 |
| April | 2 | 8 | 1 | 11 | 181 | 532 | 1012 | 1725 | 183 | 540 | 1013 | 1736 | 0 | 0 | 0 | 0 |
| May | 0 | * | 0 | * | 168 | 706 | 1064 | 1938 | 168 | 706 | 1064 | 1938 | 0 | 0 | 0 | 0 |
| June | 0 | 3 | 2 | 5 | 224 | 546 | 1191 | 1961 | 224 | 549 | 1193 | 1966 | 0 | 0 | 0 | 0 |
| July | 0 | 6 | 1 | 7 | 233 | 699 | 1328 | 2206 | 233 | 651 | 1329 | 2213 | 0 | 0 | 0 | 0 |
| August | 0 | 3 | 0 | 3 | 223 | 699 | 1214 | 2136 | 223 | 702 | 1214 | 2139 | 0 | 0 | 0 | 0 |
| September | 0 | 14 | 10 | 24 | 151 | 716 | 1134 | 2001 | 151 | 730 | 1144 | 2025 | 0 | 1 | 2 | 3 |
| October | 0 | 69 | 68 | 137 | 146 | 732 | 1381 | 2259 | 146 | 801 | 1449 | 2396 | 0 | 2 | 5 | 7 |
| November | 0 | 267 | 183 | 450 | 105 | 901 | 1172 | 2078 | 105 | 1068 | 1355 | 2528 | 0 | 9 | 1 | 10 |
| December | 0 | 163 | 47 | 210 | 45 | 725 | 1305 | 2075 | 45 | 888 | 1352 | 2285 | 0 | 9 | 3 | 12 |
| Total | 3 | 623 | 385 | 1011 | 1816 | 7487 | 13454 | 22757 | 1819 | 8110 | 13839 | 23758 | 0 | 42 | 47 | 89 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Albacore | 1 | 501 | 249 | 751 | 1570 | 6395 | 10016 | 17981 | 1571 | 6896 | 10265 | 18732 | 0 | 23 | 16 | 44 |
| Yellowfin tuna | 1 | 103 | 95 | 199 | 746 | 2789 | 5636 | 9171 | 747 | 2892 | 5721 | 9360 | 0 | 7 | 17 | 24 |
| Bigeye tuna | * | 44 | 15 | 59 | 93 | 1467 | 2117 | 3677 | 93 | 1511 | 2132 | 3736 | 0 | 4 | 2 | 6 |
| Bluefin tuna | 0 | 1 | 2 | 3 | 4 | 19 | 11 | 34 | 4 | 20 | 13 | 37 | 0 | 0 | 1 | 1 |
| Skipjack tuna | 0 | 1 | 1 | 2 | 7 | 13 | 46 | 66 | 7 | 14 | 47 | 68 | 0 | 0 | 0 | 0 |
| Total tunas | 2 | 650 | 352 | 1004 | 2420 | 10683 | 17826 | 30929 | 2422 | 11333 | 18178 | 31933 | 0 | 39 | 36 | 75 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Blue marlin | * | 144 | 7 | 151 | 53 | 1491 | 398 | 1912 | 53 | 1645 | 405 | 2103 | 0 | 15 | 1 | 16 |
| Striped marlin | 0 | 7 | 9 | 16 | 40 | 219 | 152 | 410 | 40 | 225 | 161 | 406 | 0 | 0 | 2 | 2 |
| Swordfish | 0 | 1 | 4 | 5 | 17 | 71 | 75 | 163 | 17 | 72 | 79 | 168 | 0 | 0 | 1 | 1 |
| Black marlin | 0 | 14 | 3 | 17 | 3 | 192 | 139 | 334 | 3 | 206 | 142 | 351 | 0 | 0 | 0 | 0 |
| Spearfish & sailfish | 0 | 11 | 1 | 12 | 8 | 306 | 134 | 448 | 8 | 317 | 135 | 460 | 0 | 1 | 0 | 1 |
| Total billfishes | * | 217 | 24 | 241 | 121 | 2248 | 898 | 3267 | 121 | 2465 | 922 | 3508 | 0 | 16 | 4 | 20 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Wahoo | * | 0 | 4 | 4 | 6 | 27 | 152 | 185 | 6 | 27 | 156 | 199 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 40.--Estimated catch and effort by foreign longliners based at American Samoa, 1970.

| | Inside FCZ (A) | | | Outside FCZ (B) | | | Entire area (A+B) | | | | Within 50 mi. | | | | |
|-------------------------|-------------------------------------|------------|------------|-----------------|-------------|--------------|-------------------|--------------|-------------|--------------|---------------|--------------|----------|-----------|-----------|
| | Japan | Taiwan | Korea | Japan | Taiwan | Korea | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | |
| | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | |
| | Monthly nominal effort ¹ | | | | | | | | | | | | | | |
| January | 0 | 36 | 11 | 49 | 82 | 1095 | 1193 | 2370 | 82 | 1133 | 1204 | 2419 | 0 | 3 | 6 |
| February | 0 | 23 | 1 | 24 | 38 | 926 | 1280 | 2244 | 38 | 949 | 1281 | 2268 | 0 | 0 | 0 |
| March | 0 | 8 | 10 | 18 | 112 | 1135 | 1216 | 2463 | 112 | 1143 | 1226 | 2481 | 0 | 0 | 0 |
| April | 0 | 103 | 41 | 144 | 127 | 1057 | 1043 | 2227 | 127 | 1160 | 1084 | 2371 | 0 | 5 | 5 |
| May | 0 | 5 | 2 | 7 | 99 | 1123 | 1212 | 2434 | 99 | 1128 | 1214 | 2441 | 0 | 0 | 1 |
| June | 0 | 48 | 9 | 57 | 131 | 1181 | 1012 | 2324 | 131 | 1229 | 1021 | 2381 | 0 | 0 | 0 |
| July | 0 | 7 | 2 | 9 | 124 | 1010 | 1083 | 2217 | 124 | 1017 | 1085 | 2226 | 0 | 0 | 0 |
| August | 0 | 10 | 0 | 10 | 81 | 951 | 1121 | 2053 | 81 | 661 | 1121 | 2063 | 0 | 0 | 0 |
| September | 0 | 55 | 1 | 56 | 80 | 764 | 891 | 1735 | 80 | 319 | 892 | 1791 | 0 | 13 | 13 |
| October | 0 | 52 | 15 | 67 | 46 | 1100 | 598 | 2144 | 46 | 1152 | 1013 | 2211 | 0 | 15 | 15 |
| November | 0 | 166 | 91 | 257 | 32 | 1291 | 1082 | 2395 | 32 | 1447 | 1173 | 2652 | 0 | 23 | 23 |
| December | 0 | 164 | 170 | 334 | 32 | 953 | 1013 | 1998 | 32 | 1117 | 1183 | 2332 | 0 | 10 | 12 |
| Total | 0 | 679 | 353 | 1032 | 904 | 12476 | 13144 | 26604 | 984 | 13155 | 13697 | 27636 | 0 | 69 | 75 |
| | Annual catch ² | | | | | | | | | | | | | | |
| Albacore | 0 | 433 | 173 | 606 | 952 | 10548 | 11770 | 23270 | 952 | 10981 | 11943 | 23876 | 0 | 33 | 35 |
| Yellowfin tuna | 0 | 138 | 45 | 183 | 260 | 4241 | 4168 | 8669 | 260 | 4379 | 4213 | 8652 | 0 | 9 | 10 |
| Bigeye tuna | 0 | 51 | 10 | 61 | 7 | 1859 | 1524 | 3390 | 7 | 1910 | 1534 | 3451 | 0 | 0 | 0 |
| Bluefin tuna | 0 | 3 | 0 | 3 | 0 | 24 | 14 | 38 | 0 | 27 | 14 | 41 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 2 | 2 | 4 | 7 | 57 | 108 | 172 | 7 | 59 | 110 | 176 | 0 | 0 | 0 |
| Total tunas | 0 | 627 | 230 | 857 | 1226 | 16729 | 17584 | 35539 | 1226 | 17356 | 17814 | 36396 | 0 | 46 | 49 |
| | Annual catch ² | | | | | | | | | | | | | | |
| Blue marlin | 0 | 40 | 17 | 57 | 86 | 836 | 594 | 1516 | 86 | 676 | 611 | 1573 | 0 | 3 | 3 |
| Striped marlin | 0 | 6 | 5 | 11 | 53 | 104 | 249 | 486 | 53 | 150 | 254 | 497 | 0 | 1 | 1 |
| Swordfish | 0 | 1 | 1 | 2 | 22 | 33 | 153 | 208 | 22 | 34 | 154 | 210 | 0 | 0 | 0 |
| Black marlin | 0 | 6 | 2 | 8 | 3 | 106 | 151 | 260 | 3 | 112 | 153 | 268 | 0 | 1 | 1 |
| Spearfish & sailfish | 0 | 2 | 2 | 4 | 18 | 97 | 260 | 365 | 18 | 69 | 262 | 369 | 0 | 0 | 0 |
| Total billfishes | 0 | 55 | 27 | 82 | 182 | 1246 | 1407 | 2835 | 182 | 1301 | 1434 | 2917 | 0 | 5 | 5 |
| | Annual catch ² | | | | | | | | | | | | | | |
| Mahoo | 0 | 1 | 6 | 7 | 3 | 36 | 179 | 218 | 3 | 37 | 185 | 225 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 41.--Estimated catch and effort by foreign longliners based at American Samoa, 1971.

| | Inside FCZ (A) | | | | Outside FCZ (B) | | | | Entire area (A+B) | | | | Within 50 mi. | | | |
|---------------------------|-------------------------------------|------------|------------|------------|-----------------|--------------|--------------|--------------|-------------------|--------------|--------------|--------------|---------------|-----------|-----------|------------|
| | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total |
| | Monthly nominal effort ¹ | | | | | | | | | | | | | | | |
| January | 1 | 114 | 128 | 243 | 20 | 985 | 1018 | 2023 | 21 | 1059 | 1146 | 2266 | * | 15 | 15 | 30 |
| February | 0 | 69 | 23 | 92 | 14 | 953 | 1053 | 2020 | 14 | 1022 | 1076 | 2112 | 0 | 13 | 5 | 18 |
| March | 0 | 37 | 10 | 47 | 26 | 1157 | 881 | 2064 | 26 | 1154 | 891 | 2111 | 0 | 10 | * | 10 |
| April | 0 | 17 | 1 | 18 | 11 | 1275 | 1061 | 2347 | 11 | 1292 | 1062 | 2365 | 0 | 1 | 0 | 1 |
| May | 0 | 33 | * | 33 | 53 | 1145 | 1475 | 2637 | 53 | 1178 | 1475 | 2706 | 0 | 9 | 0 | 9 |
| June | 0 | 18 | 1 | 19 | 76 | 1267 | 1518 | 2861 | 76 | 1285 | 1519 | 2980 | 0 | 5 | * | 5 |
| July | 0 | 20 | 1 | 21 | 68 | 1565 | 1578 | 3211 | 68 | 1585 | 1579 | 3232 | 0 | 3 | * | 3 |
| August | 0 | 1 | 4 | 5 | 45 | 1313 | 1514 | 2872 | 45 | 1314 | 1518 | 2877 | 0 | * | * | * |
| September | 0 | 18 | 1 | 19 | 57 | 1095 | 1061 | 2213 | 57 | 1113 | 1062 | 2232 | 0 | 4 | 0 | 4 |
| October | 0 | 35 | 3 | 38 | 77 | 1226 | 1126 | 2429 | 77 | 1261 | 1129 | 2467 | 0 | * | 0 | * |
| November | 0 | 105 | 7 | 112 | 34 | 1208 | 1418 | 2660 | 34 | 1313 | 1425 | 2772 | 0 | 5 | 2772 | 5 |
| December | 0 | 119 | 3 | 122 | 40 | 1094 | 1392 | 2526 | 40 | 1213 | 1395 | 2648 | 0 | 21 | * | 21 |
| Total | 1 | 586 | 182 | 769 | 521 | 14283 | 15095 | 29899 | 522 | 14869 | 15277 | 30668 | * | 86 | 20 | 106 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Albacore | * | 293 | 79 | 372 | 379 | 9660 | 11690 | 21729 | 379 | 9953 | 11769 | 22101 | * | 37 | 8 | 45 |
| Yellowfin tuna | * | 74 | 14 | 88 | 86 | 270 | 4392 | 9748 | 86 | 5344 | 4406 | 9836 | * | 9 | 1 | 9 |
| Bigeye tuna | * | 22 | 2 | 24 | 10 | 1268 | 1088 | 2366 | 10 | 1290 | 1090 | 2390 | * | 3 | * | 3 |
| Bluefin tuna | 0 | * | * | * | * | 39 | 15 | 54 | * | 39 | 15 | 54 | 0 | * | 0 | * |
| Skipjack tuna | * | * | * | * | 2 | 20 | 60 | 82 | 2 | 20 | 60 | 82 | * | * | * | * |
| Total tunas | * | 389 | 95 | 484 | 477 | 16257 | 17245 | 33979 | 477 | 16646 | 17340 | 34463 | * | 48 | 9 | 57 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Blue marlin | * | 73 | 22 | 95 | 95 | 1148 | 1235 | 2478 | 95 | 1221 | 1237 | 2573 | * | 15 | 4 | 19 |
| Striped marlin | 0 | 10 | 5 | 15 | 34 | 426 | 859 | 1319 | 34 | 436 | 864 | 1334 | 0 | 1 | 1 | 2 |
| Swordfish | 0 | 1 | 1 | 2 | 17 | 63 | 365 | 465 | 17 | 64 | 386 | 467 | 0 | * | * | * |
| Black marlin | 0 | 5 | 2 | 7 | 1 | 126 | 516 | 643 | 1 | 131 | 518 | 650 | 0 | 3 | * | 3 |
| Spearrfish & sailfish | 0 | * | 3 | 3 | 3 | 61 | 1029 | 1093 | 3 | 61 | 1032 | 1096 | 0 | 0 | 1 | 1 |
| Total billfishes | * | 89 | 33 | 122 | 150 | 1824 | 4024 | 5998 | 150 | 1913 | 4037 | 6120 | * | 19 | 6 | 25 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Walahoo | 0 | 5 | 1 | 6 | 9 | 28 | 253 | 290 | 9 | 33 | 254 | 296 | 0 | * | * | * |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 42.--Estimated catch and effort by foreign longliners based at American Samoa, 1972.

| | Inside FCZ (A) | | | | Outside FCZ (B) | | | | Entire area (A+B) | | | | Within 50 mi. | | | |
|----------------------|-------------------------------------|---------------------|-------|---------------------|-----------------|---------------------|-------|---------------------|-------------------|---------------------|--------|---------------------|---------------|---------------------|-------|---------------------|
| | Japan | | Korea | | Taiwan | | Korea | | Japan | | Taiwan | | Korea | | Total | |
| | Total | Effort ¹ | Total | Effort ¹ | Total | Effort ¹ | Total | Effort ¹ | Total | Effort ¹ | Total | Effort ¹ | Total | Effort ¹ | Total | Effort ¹ |
| | Monthly nominal effort ¹ | | | | | | | | | | | | | | | |
| January | 0 | 89 | 1 | 90 | 72 | 1200 | 1168 | 2440 | 72 | 1269 | 1169 | 2530 | 0 | 13 | 0 | 13 |
| February | 0 | 91 | 0 | 91 | 20 | 1281 | 1229 | 2510 | 20 | 1372 | 1229 | 2621 | 0 | 16 | 0 | 16 |
| March | 0 | 8 | 3 | 11 | 27 | 1655 | 1129 | 2811 | 27 | 1663 | 1132 | 2822 | 0 | 0 | 0 | 0 |
| April | 0 | 28 | 4 | 32 | 0 | 1723 | 1134 | 2857 | 0 | 1751 | 1138 | 2889 | 0 | 1 | 0 | 1 |
| May | 0 | 25 | 0 | 25 | 0 | 1763 | 1448 | 3211 | 0 | 1788 | 1448 | 3236 | 0 | * | 0 | * |
| June | 0 | 12 | 0 | 12 | 0 | 1424 | 1466 | 2890 | 0 | 1436 | 1466 | 2902 | 0 | * | 0 | * |
| July | 0 | 21 | 1 | 22 | 0 | 1374 | 1858 | 3232 | 0 | 1395 | 1859 | 3254 | 0 | * | 0 | * |
| August | 0 | 70 | 2 | 72 | 0 | 1229 | 1468 | 2697 | 0 | 1249 | 1470 | 2769 | 0 | 5 | 0 | 5 |
| September | 0 | 10 | 4 | 14 | 0 | 1095 | 1070 | 2165 | 0 | 1105 | 1074 | 2179 | 0 | 1 | 2 | 3 |
| October | 0 | 7 | 0 | 7 | 0 | 1031 | 946 | 1977 | 0 | 1038 | 946 | 1984 | 0 | 1 | 0 | 1 |
| November | 0 | 39 | 2 | 41 | 0 | 936 | 1181 | 2117 | 0 | 975 | 1183 | 2158 | 0 | 2 | 0 | 2 |
| December | 0 | 42 | 3 | 45 | 0 | 1221 | 1177 | 2398 | 0 | 1263 | 1180 | 2443 | 0 | 6 | 2 | 8 |
| Total | 0 | 442 | 20 | 462 | 119 | 15932 | 15274 | 31325 | 119 | 16374 | 15294 | 31787 | 0 | 45 | 4 | 49 |
| | Annual catch ² | | | | | | | | | | | | | | | |
| Albacore | 0 | 170 | 6 | 176 | 60 | 10083 | 9849 | 1992 | 60 | 10253 | 9855 | 20168 | 0 | 19 | 1 | 20 |
| Yellowfin tuna | 0 | 81 | 9 | 90 | 63 | 6862 | 7679 | 14604 | 63 | 6943 | 7688 | 14694 | 0 | 8 | 1 | 9 |
| Bigeye tuna | 0 | 26 | 1 | 27 | 8 | 2296 | 1320 | 3624 | 8 | 2322 | 1321 | 3651 | 0 | 2 | * | 2 |
| Bluefin tuna | 0 | * | 0 | * | 0 | 16 | 17 | 33 | 0 | 16 | 17 | 33 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | * | * | * | * | 10 | 76 | 86 | * | 10 | 76 | 86 | 0 | * | * | * |
| Total tunas | 0 | 277 | 16 | 293 | 131 | 19267 | 18941 | 38339 | 131 | 19544 | 18957 | 38632 | 0 | 29 | 2 | 31 |
| | Annual catch ² | | | | | | | | | | | | | | | |
| Blue marlin | 0 | 56 | 13 | 69 | 268 | 1172 | 3996 | 5436 | 268 | 1228 | 4009 | 5505 | 0 | 8 | 3 | 11 |
| Striped marlin | 0 | 9 | 3 | 11 | 12 | 437 | 3216 | 3665 | 12 | 445 | 3219 | 3676 | 0 | * | * | * |
| Swordfish | 0 | 2 | 3 | 5 | 8 | 80 | 1250 | 1338 | 8 | 82 | 1253 | 1343 | 0 | * | 1 | 1 |
| Black marlin | 0 | 6 | 2 | 8 | 4 | 165 | 1639 | 1808 | 4 | 171 | 1641 | 1816 | 0 | 1 | 0 | 1 |
| Spearfish & sailfish | 0 | 2 | 1 | 3 | 3 | 58 | 3106 | 3167 | 3 | 60 | 3107 | 3170 | 0 | * | 0 | * |
| Total billfishes | 0 | 74 | 22 | 96 | 295 | 1912 | 13207 | 15414 | 295 | 1986 | 13229 | 15510 | 0 | 9 | 4 | 13 |
| | Annual catch ² | | | | | | | | | | | | | | | |
| Wahoo | 0 | 0 | * | * | 1 | 24 | 166 | 191 | 1 | 24 | 166 | 191 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.²Catch in metric tons, * = < 1 mt.

Table 43.--Estimated catch and effort by foreign longliners based at American Samoa, 1973.

| | Inside FCZ (A) | | | Outside FCZ (B) | | | Entire area (A+B) | | | | Within 50 mi. | | | | | | |
|----------------------|-------------------------------------|--------|-------|-----------------|--------|-------|-------------------|--------|-------|-------|---------------|-------|-------|---|----|---|----|
| | Japan | Taiwan | Korea | Japan | Taiwan | Korea | Japan | Taiwan | Korea | Japan | Taiwan | Korea | Total | | | | |
| | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | | | | |
| | Monthly nominal effort ¹ | | | | | | | | | | | | | | | | |
| January | 0 | 37 | 4 | 0 | 1208 | 1290 | 0 | 2498 | 0 | 1245 | 1294 | 0 | 2539 | 0 | 3 | 0 | 3 |
| February | 0 | 72 | 13 | 0 | 1119 | 1279 | 0 | 2398 | 0 | 1191 | 1292 | 0 | 2483 | 0 | 1 | 0 | 1 |
| March | 0 | 25 | 3 | 0 | 1302 | 1448 | 0 | 2750 | 0 | 1407 | 1451 | 0 | 2858 | 0 | 1 | 0 | 1 |
| April | 0 | 68 | 7 | 0 | 1707 | 1946 | 0 | 3653 | 0 | 1775 | 1953 | 0 | 3728 | 0 | 14 | * | 14 |
| May | 0 | 20 | 15 | 0 | 2069 | 2951 | 0 | 5020 | 0 | 2089 | 2966 | 0 | 5055 | 0 | 0 | 0 | 0 |
| June | 0 | 42 | 32 | 0 | 2221 | 2851 | 0 | 5072 | 0 | 2263 | 2883 | 0 | 5146 | 0 | 0 | 0 | 0 |
| July | 0 | 28 | 11 | 0 | 2474 | 2684 | 0 | 5158 | 0 | 2502 | 2695 | 0 | 5197 | 0 | 1 | 1 | 2 |
| August | 0 | 38 | 0 | 0 | 2229 | 2793 | 0 | 5022 | 0 | 2267 | 2793 | 0 | 5060 | 0 | 1 | 0 | 1 |
| September | 0 | 65 | 10 | 0 | 1381 | 2365 | 0 | 3746 | 0 | 1446 | 2375 | 0 | 3821 | 0 | 14 | 0 | 14 |
| October | 0 | 66 | 35 | 0 | 1311 | 2115 | 0 | 3426 | 0 | 1377 | 2150 | 0 | 3527 | 0 | 1 | 1 | 2 |
| November | 0 | 109 | 12 | 0 | 1452 | 2367 | 0 | 3819 | 0 | 1561 | 2379 | 0 | 3940 | 0 | 11 | 6 | 17 |
| December | 0 | 173 | 2 | 0 | 1505 | 2468 | 0 | 3973 | 0 | 1678 | 2470 | 0 | 4148 | 0 | 30 | 1 | 31 |
| Total | 0 | 743 | 144 | 0 | 20058 | 26557 | 0 | 46615 | 0 | 20801 | 26701 | 0 | 47502 | 0 | 77 | 9 | 86 |
| | Annual catch ² | | | | | | | | | | | | | | | | |
| Albacore | 0 | 268 | 39 | 0 | 13118 | 16723 | 0 | 29841 | 0 | 13386 | 16762 | 0 | 30148 | 0 | 24 | 2 | 26 |
| Yellowfin tuna | 0 | 105 | 39 | 0 | 4296 | 7612 | 0 | 11908 | 0 | 4401 | 7651 | 0 | 12052 | 0 | 11 | 1 | 12 |
| Bigeye tuna | 0 | 35 | 9 | 0 | 2293 | 2918 | 0 | 5171 | 0 | 2288 | 2927 | 0 | 5215 | 0 | 3 | * | 3 |
| Bluefin tuna | 0 | * | * | 0 | 19 | 49 | 0 | 68 | 0 | 19 | 49 | 0 | 68 | 0 | * | 0 | * |
| Skijack tuna | 0 | 1 | * | 0 | 22 | 107 | 0 | 129 | 0 | 23 | 107 | 0 | 130 | 0 | * | * | * |
| Total tunas | 0 | 409 | 87 | 0 | 19708 | 27409 | 0 | 47117 | 0 | 20117 | 27496 | 0 | 47613 | 0 | 38 | 3 | 41 |
| | Annual catch ² | | | | | | | | | | | | | | | | |
| Blue marlin | 0 | 93 | 13 | 0 | 1326 | 2393 | 0 | 3719 | 0 | 1419 | 2406 | 0 | 3825 | 0 | 12 | * | 12 |
| Striped marlin | 0 | 8 | 13 | 0 | 510 | 1785 | 0 | 2295 | 0 | 518 | 1798 | 0 | 2316 | 0 | 1 | * | 1 |
| Swordfish | 0 | 3 | 9 | 0 | 95 | 693 | 0 | 788 | 0 | 98 | 702 | 0 | 800 | 0 | 1 | 0 | 1 |
| Black marlin | 0 | 4 | 6 | 0 | 207 | 1090 | 0 | 1297 | 0 | 211 | 1096 | 0 | 1307 | 0 | * | 1 | 1 |
| Spearfish & sailfish | 0 | 4 | 2 | 0 | 124 | 1432 | 0 | 1556 | 0 | 128 | 1434 | 0 | 1562 | 0 | 1 | * | 1 |
| Total billfishes | 0 | 112 | 43 | 0 | 2282 | 7393 | 0 | 9655 | 0 | 2374 | 7436 | 0 | 9810 | 0 | 15 | 1 | 16 |
| | Annual catch ² | | | | | | | | | | | | | | | | |
| Wahoo | 0 | 2 | 1 | 0 | 32 | 380 | 0 | 412 | 0 | 34 | 381 | 0 | 415 | 0 | 1 | 0 | 1 |

¹Effort in vessel days, * = < 1 vessel day.²Catch in metric tons, * = < 1 mt.

Table 44.--Estimated catch and effort by foreign longliners based at American Samoa, 1974.

| | Inside FCZ (A) | | | | Outside FCZ (B) | | | | Entire area (A+B) | | | | Within 50 ml. | | | | | |
|----------------------|-------------------------------------|--------|-------|--------|-----------------|--------|-------|--------|-------------------|--------|--------|--------|---------------|--------|--------|--------|-------|--------|
| | Japan | | Korea | | Taiwan | | Korea | | Japan | | Taiwan | | Japan | | Taiwan | | Korea | |
| | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort |
| | Monthly nominal effort ¹ | | | | | | | | | | | | | | | | | |
| January | 0 | 111 | 12 | 123 | 0 | 1137 | 1562 | 2699 | 0 | 1248 | 1574 | 2822 | 0 | 27 | 4 | 31 | | |
| February | 0 | 64 | 5 | 69 | 0 | 801 | 1335 | 2136 | 0 | 865 | 1340 | 2205 | 0 | 15 | 0 | 15 | | |
| March | 0 | 35 | 1 | 36 | 0 | 949 | 1470 | 2419 | 0 | 984 | 1471 | 2455 | 0 | 1 | 0 | 1 | | |
| April | 0 | 42 | 4 | 46 | 0 | 1498 | 1922 | 3320 | 0 | 1540 | 1922 | 3362 | 0 | 5 | 0 | 5 | | |
| May | 0 | 74 | 1 | 75 | 0 | 2131 | 1842 | 3973 | 0 | 2205 | 1843 | 4048 | 0 | 30 | 0 | 30 | | |
| June | 0 | 204 | 17 | 221 | 0 | 1705 | 1712 | 3417 | 0 | 1909 | 1729 | 3638 | 0 | 78 | 15 | 93 | | |
| July | 0 | 47 | 5 | 52 | 0 | 1729 | 1981 | 3610 | 0 | 1776 | 1886 | 3662 | 0 | 32 | 1 | 33 | | |
| August | 0 | 36 | 1 | 37 | 0 | 999 | 1475 | 2474 | 0 | 1035 | 1476 | 2511 | 0 | 18 | 0 | 18 | | |
| September | 0 | 45 | 22 | 67 | 0 | 926 | 1094 | 2020 | 0 | 971 | 1116 | 2087 | 0 | 12 | 1 | 13 | | |
| October | 0 | 118 | 21 | 139 | 0 | 1270 | 1375 | 2645 | 0 | 1388 | 1496 | 2884 | 0 | 15 | 1 | 16 | | |
| November | 0 | 125 | 34 | 159 | 0 | 1622 | 1533 | 3155 | 0 | 1747 | 1587 | 3334 | 0 | 18 | 1 | 19 | | |
| December | 0 | 27 | 9 | 36 | 0 | 1545 | 1724 | 3269 | 0 | 1572 | 1733 | 3305 | 0 | 1 | 0 | 1 | | |
| Total | 0 | 928 | 128 | 1056 | 0 | 16312 | 18945 | 35257 | 0 | 17240 | 19073 | 36313 | 0 | 252 | 23 | 275 | | |
| | Annual catch ² | | | | | | | | | | | | | | | | | |
| Albacore | 0 | 266 | 22 | 288 | 0 | 7598 | 6755 | 14353 | 0 | 7864 | 6777 | 14641 | 0 | 76 | 5 | 81 | | |
| Yellowfin tuna | 0 | 125 | 24 | 149 | 0 | 2275 | 5945 | 8220 | 0 | 2400 | 5969 | 8369 | 0 | 50 | 15 | 65 | | |
| Bigeye tuna | 0 | 55 | 5 | 60 | 0 | 1416 | 2474 | 3890 | 0 | 1471 | 2479 | 3950 | 0 | 12 | 1 | 13 | | |
| Bluefin tuna | 0 | * | * | * | 0 | 18 | 34 | 52 | 0 | 18 | 34 | 52 | 0 | * | 0 | * | | |
| Skipjack tuna | 0 | 1 | * | 1 | 0 | 7 | 48 | 55 | 0 | 8 | 48 | 56 | 0 | * | * | * | | |
| Total tunas | 0 | 447 | 51 | 498 | 0 | 11314 | 15256 | 26570 | 0 | 11761 | 15307 | 27068 | 0 | 138 | 21 | 159 | | |
| | Annual catch ² | | | | | | | | | | | | | | | | | |
| Blue marlin | 0 | 71 | 18 | 89 | 0 | 720 | 1528 | 2248 | 0 | 791 | 1546 | 2337 | 0 | 21 | 8 | 29 | | |
| Striped marlin | 0 | 14 | 4 | 18 | 0 | 304 | 1139 | 1443 | 0 | 318 | 1143 | 1461 | 0 | 3 | 1 | 4 | | |
| Swordfish | 0 | 3 | 1 | 4 | 0 | 98 | 437 | 535 | 0 | 101 | 438 | 539 | 0 | 1 | 0 | 1 | | |
| Black marlin | 0 | 11 | 3 | 14 | 0 | 124 | 614 | 938 | 0 | 135 | 617 | 952 | 0 | 4 | 1 | 5 | | |
| Spearfish & sailfish | 0 | 7 | 2 | 9 | 0 | 69 | 798 | 867 | 0 | 76 | 800 | 876 | 0 | 4 | 0 | 4 | | |
| Total billfishes | 0 | 106 | 28 | 134 | 0 | 1315 | 4716 | 6031 | 0 | 1421 | 4744 | 6165 | 0 | 33 | 10 | 43 | | |
| | Annual catch ² | | | | | | | | | | | | | | | | | |
| Wahoo | 0 | 2 | 1 | 3 | 0 | 32 | 357 | 389 | 0 | 34 | 358 | 392 | 0 | * | 0 | * | | |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 45.--Estimated catch and effort by foreign longliners based at American Samoa, 1975.

| | Inside FCZ (A) | | | | Outside FCZ (B) | | | | Entire area (A+B) | | | | Within 50 mi. | | | | | | | | | |
|-------------------------------------|----------------|------------|------------|------------|-----------------|-------------|--------------|--------------|-------------------|-------------|--------------|--------------|---------------|------------|-----------|------------|----------|----------|----------|----------|----------|----------|
| | Japan | | Korea | | Japan | | Korea | | Japan | | Taiwan | | Korea | | Japan | | Taiwan | | Korea | | Total | |
| | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | Effort | Total | |
| Monthly nominal effort ¹ | | | | | | | | | | | | | | | | | | | | | | |
| January | 0 | 36 | 23 | 59 | 0 | 1145 | 1644 | 2789 | 0 | 1181 | 1667 | 2848 | 0 | 0 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 34 | 29 | 63 | 0 | 696 | 1129 | 1825 | 0 | 730 | 1158 | 1888 | 0 | 13 | 13 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 4 | 32 | 36 | 0 | 603 | 1344 | 1947 | 0 | 607 | 1376 | 1983 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 1 | 2 | 3 | 0 | 755 | 1329 | 2084 | 0 | 756 | 1331 | 2087 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 8 | 4 | 12 | 0 | 963 | 1183 | 2146 | 0 | 971 | 1187 | 2158 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 20 | 1 | 21 | 0 | 748 | 1215 | 1963 | 0 | 768 | 1216 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 0 | 6 | 6 | 12 | 0 | 655 | 1404 | 2059 | 0 | 661 | 1404 | 2065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 10 | 25 | 35 | 0 | 578 | 1143 | 1721 | 0 | 588 | 1168 | 1756 | 0 | 2 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 0 | 38 | 26 | 64 | 0 | 571 | 970 | 1541 | 0 | 609 | 996 | 1605 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 209 | 33 | 242 | 0 | 427 | 926 | 1353 | 0 | 636 | 959 | 1595 | 0 | 59 | 10 | 69 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 178 | 41 | 219 | 0 | 300 | 989 | 1289 | 0 | 478 | 1030 | 1508 | 0 | 58 | 9 | 67 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 31 | 64 | 95 | 0 | 366 | 535 | 1301 | 0 | 397 | 999 | 1396 | 0 | 3 | 30 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 575 | 280 | 855 | 0 | 7807 | 14211 | 22018 | 0 | 9382 | 14491 | 22873 | 0 | 135 | 77 | 212 | 0 | 0 | 0 | 0 | 0 | 0 |
| Annual catch ² | | | | | | | | | | | | | | | | | | | | | | |
| Albacore | 0 | 347 | 86 | 433 | 0 | 3981 | 3426 | 7407 | 0 | 4328 | 3512 | 7840 | 0 | 87 | 27 | 114 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yellowfin tuna | 0 | 29 | 43 | 72 | 0 | 1782 | 5209 | 6991 | 0 | 1811 | 5252 | 7063 | 0 | 5 | 16 | 21 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bigeye tuna | 0 | 26 | 31 | 57 | 0 | 935 | 4053 | 4988 | 0 | 961 | 4084 | 5045 | 0 | 4 | 5 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bluefin tuna | 0 | * | * | * | 0 | 4 | 18 | 22 | 0 | 4 | 18 | 22 | 0 | * | * | * | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | * | * | * | 0 | 4 | 13 | 17 | 0 | 4 | 13 | 17 | 0 | * | * | * | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 0 | 402 | 160 | 562 | 0 | 6706 | 12719 | 19425 | 0 | 7108 | 12979 | 19987 | 0 | 96 | 48 | 144 | 0 | 0 | 0 | 0 | 0 | 0 |
| Annual catch ² | | | | | | | | | | | | | | | | | | | | | | |
| Blue marlin | 0 | 21 | 17 | 38 | 0 | 259 | 673 | 932 | 0 | 280 | 690 | 970 | 0 | 5 | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| Striped marlin | 0 | 0 | 25 | 31 | 0 | 115 | 752 | 867 | 0 | 121 | 777 | 898 | 0 | 1 | 9 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| Swordfish | 0 | 3 | 4 | 7 | 0 | 25 | 287 | 312 | 0 | 28 | 291 | 319 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Black marlin | 0 | 3 | 25 | 28 | 0 | 44 | 466 | 512 | 0 | 47 | 493 | 540 | 0 | 1 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spearfish & sailfish | 0 | 1 | 5 | 6 | 0 | 16 | 559 | 575 | 0 | 17 | 564 | 581 | 0 | * | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total billfishes | 0 | 34 | 76 | 110 | 0 | 459 | 2739 | 3198 | 0 | 493 | 2815 | 3308 | 0 | 8 | 23 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| Annual catch ² | | | | | | | | | | | | | | | | | | | | | | |
| Mahoo | 0 | 1 | 1 | 2 | 0 | 10 | 131 | 141 | 0 | 11 | 132 | 143 | 0 | * | * | * | 0 | 0 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 46.--Estimated catch and effort by foreign longliners based at American Samoa, 1976.

| | Inside FCZ (A) | | | | Outside FCZ (B) | | | | Entire area (A+B) | | | | Within 50 mi. | | | |
|---------------------------|-------------------------------------|--------|-------|-------|-----------------|--------|-------|-------|-------------------|--------|-------|-------|---------------|--------|-------|-------|
| | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total | Japan | Taiwan | Korea | Total |
| | Monthly nominal effort ¹ | | | | | | | | | | | | | | | |
| January | 0 | 64 | 45 | 109 | 0 | 375 | 1033 | 1408 | 0 | 439 | 1078 | 1517 | 0 | 5 | 8 | 13 |
| February | 0 | 32 | 28 | 60 | 0 | 415 | 846 | 1261 | 0 | 447 | 894 | 1341 | 0 | 2 | 2 | 4 |
| March | 0 | 19 | 33 | 52 | 0 | 361 | 1153 | 1514 | 0 | 380 | 1186 | 1566 | 0 | 1 | 7 | 8 |
| April | 0 | 10 | 16 | 26 | 0 | 350 | 1022 | 1372 | 0 | 360 | 1038 | 1398 | 0 | 1 | 2 | 3 |
| May | 0 | 15 | 20 | 35 | 0 | 441 | 1275 | 1716 | 0 | 456 | 1295 | 1751 | 0 | 9 | 1 | 10 |
| June | 0 | 1 | 7 | 8 | 0 | 521 | 1371 | 1892 | 0 | 522 | 1378 | 1900 | 0 | 0 | 0 | 0 |
| July | 0 | 20 | 5 | 25 | 0 | 678 | 1561 | 2239 | 0 | 698 | 1566 | 2264 | 0 | 13 | 0 | 13 |
| August | 0 | 19 | 4 | 23 | 0 | 624 | 1540 | 2164 | 0 | 643 | 1544 | 2187 | 0 | 4 | 1 | 5 |
| September | 0 | 51 | 8 | 59 | 0 | 748 | 999 | 1747 | 0 | 799 | 1007 | 1806 | 0 | 8 | 1 | 9 |
| October | 0 | 92 | 21 | 113 | 0 | 860 | 1353 | 2213 | 0 | 952 | 1374 | 2326 | 0 | 10 | 2 | 12 |
| November | 0 | 153 | 30 | 183 | 0 | 690 | 1368 | 2258 | 0 | 1043 | 1398 | 2441 | 0 | 13 | 9 | 22 |
| December | 0 | 118 | 8 | 126 | 0 | 968 | 1528 | 2496 | 0 | 1086 | 1536 | 2622 | 0 | 19 | 0 | 19 |
| Total | 0 | 594 | 225 | 819 | 0 | 7231 | 15059 | 22300 | 0 | 7825 | 15294 | 23119 | 0 | 85 | 33 | 118 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Albacore | 0 | 328 | 54 | 382 | 0 | 5763 | 8382 | 14145 | 0 | 6091 | 8436 | 14527 | 0 | 39 | 8 | 47 |
| Yellowfin tuna | 0 | 67 | 49 | 116 | 0 | 1374 | 5559 | 6933 | 0 | 1441 | 5608 | 7049 | 0 | 15 | 5 | 20 |
| Bigeye tuna | 0 | 29 | 48 | 77 | 0 | 629 | 3371 | 4000 | 0 | 658 | 3419 | 4077 | 0 | 5 | 3 | 8 |
| Bluefin tuna | 0 | * | * | * | 0 | 3 | 14 | 17 | 0 | 3 | 14 | 17 | 0 | * | 0 | * |
| Skipjack tuna | 0 | * | * | * | 0 | 5 | 16 | 21 | 0 | 5 | 16 | 21 | 0 | * | * | * |
| Total tunas | 0 | 424 | 151 | 575 | 0 | 7774 | 17382 | 25116 | 0 | 8198 | 17493 | 25691 | 0 | 59 | 16 | 75 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Blue marlin | 0 | 44 | 12 | 56 | 0 | 256 | 764 | 1020 | 0 | 300 | 776 | 1076 | 0 | 7 | 1 | 8 |
| Striped marlin | 0 | 4 | 7 | 11 | 0 | 120 | 448 | 568 | 0 | 124 | 455 | 579 | 0 | 1 | 1 | 2 |
| Swordfish | 0 | 2 | 7 | 9 | 0 | 45 | 266 | 311 | 0 | 47 | 273 | 320 | 0 | 1 | 1 | 2 |
| Black marlin | 0 | 3 | 10 | 13 | 0 | 58 | 484 | 522 | 0 | 61 | 474 | 535 | 0 | 8 | 1 | 9 |
| Spearfish & sailfish | 0 | 3 | 13 | 16 | 0 | 49 | 605 | 654 | 0 | 52 | 618 | 670 | 0 | 8 | 1 | 9 |
| Total billfishes | 0 | 56 | 49 | 105 | 0 | 528 | 2547 | 3075 | 0 | 564 | 2596 | 3180 | 0 | 9 | 5 | 14 |
| Annual catch ² | | | | | | | | | | | | | | | | |
| Mahoo | 0 | 2 | 11 | 13 | 0 | 24 | 311 | 335 | 0 | 26 | 322 | 348 | 0 | 8 | 1 | 9 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 47.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1965.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|------------|------------|---------------------|------------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 18 | 165 | 105 | 10 | 67 | 365 |
| February | 10 | 58 | 60 | 3 | 186 | 326 |
| March | 7 | 5 | 103 | 9 | 152 | 276 |
| April | 8 | 23 | 74 | 27 | 40 | 172 |
| May | 32 | 41 | 93 | 87 | 64 | 317 |
| June | 5 | 5 | 7 | 121 | 278 | 416 |
| July | 6 | 0 | 83 | 91 | 123 | 303 |
| August | 1 | 0 | 87 | 105 | 51 | 244 |
| September | 8 | 1 | 45 | 114 | 123 | 291 |
| October | 12 | 3 | 15 | 3 | 42 | 75 |
| November | 9 | 29 | 38 | 24 | * | 96 |
| December | 3 | 10 | 21 | 0 | * | 34 |
| Total | 124 | 340 | 731 | 594 | 1126 | 2915 |
| Annual catch ² | | | | | | |
| Albacore | 14 | 10 | 1 | 16 | 47 | 88 |
| Yellowfin tuna | 13 | 150 | 368 | 614 | 977 | 2122 |
| Bigeye tuna | 17 | 230 | 372 | 195 | 400 | 1214 |
| Bluefin tuna | * | * | * | * | * | * |
| Skipjack tuna | * | 1 | 4 | 5 | 8 | 18 |
| Total tunas | 44 | 391 | 745 | 830 | 1432 | 3442 |
| Annual catch ² | | | | | | |
| Blue marlin | 11 | 43 | 76 | 52 | 116 | 298 |
| Striped marlin | 44 | 54 | 46 | 3 | 8 | 155 |
| Swordfish | 5 | 3 | 11 | 11 | 6 | 36 |
| Black marlin | * | 2 | 6 | 6 | 9 | 23 |
| Spearfish & sailfish | 3 | 3 | 9 | 11 | 9 | 35 |
| Total billfishes | 63 | 105 | 148 | 83 | 148 | 547 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 48.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1966.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-----------|------------|---------------------|------------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 16 | 19 | 15 | 5 | 4 | 79 |
| February | 7 | 21 | 81 | 2 | 13 | 124 |
| March | 6 | 8 | 29 | 5 | 19 | 67 |
| April | * | 42 | 57 | 7 | * | 106 |
| May | 3 | 40 | 126 | 36 | 12 | 217 |
| June | 2 | * | 17 | 34 | 171 | 224 |
| July | 0 | 0 | 5 | 14 | 168 | 187 |
| August | 0 | 0 | 54 | 15 | 51 | 120 |
| September | 0 | 2 | 17 | 4 | 55 | 78 |
| October | 0 | 4 | 7 | 22 | 89 | 122 |
| November | 0 | 21 | 0 | 20 | 51 | 92 |
| December | 2 | 27 | * | 1 | 28 | 58 |
| Total | 36 | 204 | 408 | 165 | 661 | 1474 |
| Annual catch ² | | | | | | |
| Albacore | 17 | 6 | 1 | 13 | 25 | 64 |
| Yellowfin tuna | 6 | 69 | 166 | 121 | 724 | 1086 |
| Bigeye tuna | 10 | 216 | 270 | 58 | 194 | 748 |
| Bluefin tuna | 0 | 0 | * | * | * | * |
| Skipjack tuna | * | 2 | 1 | 1 | 3 | 7 |
| Total tunas | 33 | 293 | 438 | 195 | 946 | 1905 |
| Annual catch ² | | | | | | |
| Blue marlin | 2 | 35 | 43 | 11 | 82 | 173 |
| Striped marlin | 2 | 29 | 17 | 1 | 4 | 53 |
| Swordfish | 1 | 2 | 5 | 3 | 8 | 19 |
| Black marlin | * | 1 | 3 | 2 | 8 | 14 |
| Spearfish & sailfish | * | 3 | 7 | 4 | 12 | 26 |
| Total billfishes | 5 | 70 | 75 | 21 | 114 | 285 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 49.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1967.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|------------|------------|---------------------|------------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 10 | 34 | 7 | 2 | 7 | 60 |
| February | 28 | 51 | 142 | 1 | 9 | 231 |
| March | 35 | 4 | 262 | * | 40 | 341 |
| April | 5 | 132 | 71 | 7 | 21 | 236 |
| May | 16 | 15 | 91 | 40 | 134 | 296 |
| June | 13 | 1 | 4 | 21 | 141 | 180 |
| July | 6 | 0 | 67 | 69 | 25 | 167 |
| August | * | 0 | 67 | 27 | 13 | 107 |
| September | * | 0 | 44 | 24 | 38 | 106 |
| October | 1 | * | 8 | 2 | 80 | 91 |
| November | 0 | 23 | 5 | 3 | 10 | 41 |
| December | 0 | 11 | 109 | 4 | 2 | 126 |
| Total | 114 | 271 | 877 | 200 | 520 | 1982 |
| Annual catch ² | | | | | | |
| Albacore | 66 | 14 | 1 | 2 | 9 | 92 |
| Yellowfin tuna | 5 | 80 | 380 | 179 | 455 | 1099 |
| Bigeye tuna | 9 | 302 | 614 | 73 | 150 | 1148 |
| Bluefin tuna | * | 0 | 0 | * | 0 | * |
| Skipjack tuna | * | * | 3 | 1 | 2 | 6 |
| Total tunas | 80 | 396 | 998 | 255 | 616 | 2345 |
| Annual catch ² | | | | | | |
| Blue marlin | 9 | 65 | 96 | 22 | 63 | 255 |
| Striped marlin | 11 | 25 | 43 | 2 | 1 | 82 |
| Swordfish | 4 | 4 | 20 | 4 | 4 | 36 |
| Black marlin | * | 1 | 5 | 2 | 5 | 13 |
| Spearfish & sailfish | 4 | 5 | 20 | 3 | 9 | 41 |
| Total billfishes | 28 | 100 | 184 | 33 | 82 | 427 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 50.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1968.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|------------|------------|---------------------|------------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 9 | 11 | 83 | 2 | 1 | 102 |
| February | 3 | 35 | 38 | 52 | * | 128 |
| March | 12 | 22 | 55 | 52 | 20 | 161 |
| April | 9 | 13 | 51 | 135 | 35 | 243 |
| May | 24 | 4 | 55 | 63 | 93 | 239 |
| June | 12 | 2 | 77 | 82 | 100 | 273 |
| July | 46 | 2 | 26 | 25 | 71 | 170 |
| August | 38 | 0 | 44 | 8 | 34 | 124 |
| September | 0 | * | 25 | 2 | 10 | 37 |
| October | 2 | * | 5 | 13 | 16 | 36 |
| November | 12 | 1 | 0 | 6 | 18 | 37 |
| December | 34 | * | 5 | 10 | 9 | 54 |
| Total | 197 | 90 | 464 | 450 | 403 | 1604 |
| Annual catch ² | | | | | | |
| Albacore | 37 | 4 | * | 10 | 12 | 63 |
| Yellowfin tuna | 26 | 29 | 277 | 340 | 331 | 1003 |
| Bigeye tuna | 38 | 81 | 217 | 187 | 117 | 640 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | * | * | 6 | 9 | 2 | 17 |
| Total tunas | 101 | 114 | 500 | 546 | 462 | 1723 |
| Annual catch ² | | | | | | |
| Blue marlin | 36 | 21 | 51 | 31 | 44 | 183 |
| Striped marlin | 24 | 9 | 17 | 3 | 5 | 58 |
| Swordfish | 2 | 1 | 6 | 11 | 4 | 24 |
| Black marlin | * | * | 3 | 3 | 3 | 9 |
| Spearfish & sailfish | 7 | 1 | 13 | 14 | 2 | 37 |
| Total billfishes | 69 | 32 | 90 | 62 | 58 | 311 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 51.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1969.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-----------|------------|---------------------|------------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 3 | 27 | 4 | 25 | 9 | 68 |
| February | 4 | 8 | 246 | 33 | 38 | 329 |
| March | 5 | 17 | 111 | 21 | 126 | 280 |
| April | 2 | 48 | 33 | 38 | 29 | 150 |
| May | 18 | 12 | 82 | 23 | 62 | 197 |
| June | 2 | 1 | 211 | 51 | 32 | 297 |
| July | 0 | 1 | 42 | 13 | 53 | 109 |
| August | 2 | 0 | 3 | 2 | 7 | 14 |
| September | 1 | * | 1 | 1 | 45 | 48 |
| October | 14 | 1 | 16 | 12 | 48 | 91 |
| November | 7 | 25 | 37 | 11 | 35 | 115 |
| December | 0 | 20 | 5 | 7 | 88 | 120 |
| Total | 58 | 160 | 791 | 237 | 572 | 1818 |
| Annual catch ² | | | | | | |
| Albacore | 6 | 11 | 1 | 5 | 13 | 36 |
| Yellowfin tuna | 19 | 45 | 353 | 218 | 498 | 1133 |
| Bigeye tuna | 12 | 187 | 613 | 101 | 203 | 1116 |
| Bluefin tuna | 0 | 0 | * | * | 0 | * |
| Skipjack tuna | * | 1 | 3 | 3 | 1 | 8 |
| Total tunas | 37 | 244 | 970 | 327 | 715 | 2293 |
| Annual catch ² | | | | | | |
| Blue marlin | 6 | 34 | 100 | 21 | 57 | 218 |
| Striped marlin | 6 | 13 | 24 | 3 | 4 | 50 |
| Swordfish | 1 | 2 | 13 | 6 | 5 | 27 |
| Black marlin | * | * | 6 | 1 | 3 | 10 |
| Spearfish & sailfish | * | 6 | 10 | 3 | 3 | 22 |
| Total billfishes | 13 | 55 | 153 | 34 | 72 | 327 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 52.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1970.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-----------|------------|---------------------|------------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 16 | 15 | 0 | 15 | 46 |
| February | 16 | 46 | 168 | 8 | 12 | 250 |
| March | 1 | 55 | 219 | 6 | 15 | 296 |
| April | 0 | 67 | 235 | 12 | 8 | 322 |
| May | 3 | 25 | 100 | 36 | 2 | 166 |
| June | 4 | 11 | 162 | 52 | 47 | 276 |
| July | 7 | 5 | 47 | 46 | 94 | 199 |
| August | 15 | 1 | 78 | 72 | 99 | 265 |
| September | 14 | 8 | 21 | 5 | 209 | 257 |
| October | 10 | 5 | 16 | 13 | 47 | 91 |
| November | 0 | 81 | 1 | * | 0 | 82 |
| December | 1 | 40 | 15 | 1 | 15 | 72 |
| Total | 71 | 360 | 1077 | 251 | 563 | 2322 |
| Annual catch ² | | | | | | |
| Albacore | 15 | 16 | 2 | 2 | 2 | 37 |
| Yellowfin tuna | 16 | 202 | 879 | 253 | 466 | 1816 |
| Bigeye tuna | 14 | 351 | 595 | 74 | 153 | 1187 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 1 | 2 | 12 | 2 | 2 | 19 |
| Total tunas | 46 | 571 | 1488 | 331 | 623 | 3099 |
| Annual catch ² | | | | | | |
| Blue marlin | 17 | 99 | 144 | 24 | 66 | 350 |
| Striped marlin | 3 | 40 | 32 | 2 | 4 | 81 |
| Swordfish | 1 | 5 | 20 | 5 | 6 | 37 |
| Black marlin | * | 1 | 5 | 2 | 3 | 11 |
| Spearfish & sailfish | 1 | 10 | 14 | 4 | 4 | 33 |
| Total billfishes | 22 | 155 | 215 | 37 | 83 | 512 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 53.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1971.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|------------|------------|---------------------|------------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 14 | 44 | * | 16 | 74 |
| February | 3 | 73 | 68 | 2 | 5 | 151 |
| March | 26 | 28 | 283 | 7 | 26 | 370 |
| April | 17 | 64 | 57 | 28 | * | 166 |
| May | 2 | 36 | 110 | 92 | 86 | 326 |
| June | 18 | 11 | 57 | 59 | 264 | 409 |
| July | 8 | 28 | 73 | 53 | 92 | 254 |
| August | 10 | 6 | 45 | 34 | 26 | 121 |
| September | 0 | 18 | 29 | 4 | 1 | 52 |
| October | 15 | 14 | 17 | 2 | 26 | 74 |
| November | 0 | 8 | 57 | 0 | 3 | 68 |
| December | 14 | 10 | 34 | 0 | 0 | 58 |
| Total | 113 | 310 | 874 | 281 | 545 | 2123 |
| Annual catch ² | | | | | | |
| Albacore | 40 | 6 | 1 | 3 | 2 | 52 |
| Yellowfin tuna | 19 | 66 | 260 | 169 | 397 | 911 |
| Bigeye tuna | 18 | 279 | 469 | 116 | 188 | 1070 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 1 | 4 | 1 | 2 | 8 |
| Total tunas | 77 | 352 | 734 | 289 | 589 | 2041 |
| Annual catch ² | | | | | | |
| Blue marlin | 22 | 53 | 49 | 9 | 35 | 168 |
| Striped marlin | 4 | 18 | 45 | 1 | 4 | 72 |
| Swordfish | 1 | 7 | 20 | 6 | 10 | 44 |
| Black marlin | * | 1 | 3 | 1 | 5 | 10 |
| Spearfish & sailfish | * | 4 | 13 | 3 | 5 | 25 |
| Total billfishes | 27 | 83 | 130 | 20 | 59 | 319 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 54.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1972.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-----------|------------|---------------------|------------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 1 | 3 | 81 | 0 | 0 | 85 |
| February | 7 | 1 | 39 | * | 25 | 72 |
| March | * | 44 | 134 | 1 | 17 | 196 |
| April | 4 | 31 | 208 | 22 | 3 | 268 |
| May | 7 | 69 | 65 | 24 | 81 | 246 |
| June | * | 30 | 144 | 88 | 75 | 337 |
| July | 0 | 24 | 152 | 108 | 93 | 377 |
| August | 0 | 33 | 64 | 63 | 153 | 313 |
| September | 1 | 3 | 45 | 34 | 159 | 242 |
| October | 0 | 3 | 88 | 25 | 35 | 161 |
| November | 0 | 9 | 11 | 5 | 4 | 29 |
| December | * | 19 | 15 | 0 | 10 | 44 |
| Total | 20 | 269 | 1046 | 370 | 655 | 2360 |
| Annual catch ² | | | | | | |
| Albacore | 2 | 12 | * | 3 | 1 | 18 |
| Yellowfin tuna | 3 | 43 | 515 | 269 | 424 | 1254 |
| Bigeye tuna | 3 | 252 | 521 | 149 | 328 | 1253 |
| Bluefin tuna | * | 0 | 0 | 0 | * | * |
| Skipjack tuna | 0 | 1 | 3 | 2 | 1 | 7 |
| Total tunas | 8 | 308 | 1039 | 423 | 754 | 2532 |
| Annual catch ² | | | | | | |
| Blue marlin | 2 | 72 | 114 | 40 | 88 | 316 |
| Striped marlin | 2 | 18 | 19 | 2 | 3 | 44 |
| Swordfish | 1 | 8 | 25 | 8 | 7 | 49 |
| Black marlin | 1 | 1 | 8 | 3 | 12 | 25 |
| Spearfish & sailfish | * | 4 | 6 | 2 | 3 | 15 |
| Total billfish² | 6 | 103 | 172 | 55 | 113 | 449 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 55.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1973.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-----------|------------|---------------------|-----------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 54 | 77 | 1 | 13 | 145 |
| February | 2 | 37 | 62 | 1 | 2 | 104 |
| March | 15 | 66 | 270 | 1 | 16 | 368 |
| April | 10 | 54 | 135 | 2 | 3 | 204 |
| May | 4 | 23 | 26 | 8 | 13 | 74 |
| June | 0 | 34 | 21 | 7 | 18 | 80 |
| July | 0 | 6 | 21 | 19 | 83 | 129 |
| August | 0 | 5 | 49 | 25 | 35 | 114 |
| September | 0 | 10 | 12 | 3 | 4 | 29 |
| October | 0 | 11 | 1 | 0 | 5 | 17 |
| November | 0 | 20 | 1 | 3 | 0 | 24 |
| December | 0 | 25 | 0 | 0 | 4 | 29 |
| Total | 31 | 345 | 675 | 70 | 196 | 1317 |
| Annual catch ² | | | | | | |
| Albacore | 4 | 19 | 0 | 1 | 1 | 25 |
| Yellowfin tuna | 3 | 80 | 78 | 21 | 94 | 276 |
| Bigeye tuna | 7 | 303 | 360 | 48 | 80 | 798 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | * | 1 | 1 | * | 0 | 2 |
| Total tunas | 14 | 403 | 439 | 70 | 175 | 1101 |
| Annual catch ² | | | | | | |
| Blue marlin | 3 | 46 | 44 | 2 | 12 | 107 |
| Striped marlin | 3 | 16 | 25 | 1 | 1 | 46 |
| Swordfish | 3 | 7 | 31 | 2 | 2 | 45 |
| Black marlin | * | 2 | 2 | * | 2 | 6 |
| Spearfish & sailfish | 1 | 6 | 7 | 1 | 2 | 17 |
| Total billfishes | 10 | 77 | 109 | 6 | 19 | 221 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 56.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1974.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-----------|------------|---------------------|------------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 34 | 46 | * | 8 | 88 |
| February | 6 | 54 | 181 | 1 | 1 | 243 |
| March | 15 | 63 | 94 | 3 | 3 | 178 |
| April | 8 | 302 | 281 | 5 | 2 | 598 |
| May | 14 | 94 | 75 | 17 | 7 | 207 |
| June | 4 | 8 | 38 | 31 | 42 | 123 |
| July | 2 | 30 | 46 | 29 | 89 | 196 |
| August | 8 | 41 | 7 | 1 | 70 | 119 |
| September | 3 | 24 | 8 | 8 | 8 | 51 |
| October | 0 | 15 | 31 | 27 | 38 | 109 |
| November | 2 | 56 | 35 | 4 | 6 | 103 |
| December | 5 | 80 | 1 | 0 | 52 | 138 |
| Total | 59 | 801 | 843 | 126 | 324 | 2153 |
| Annual catch ² | | | | | | |
| Albacore | 5 | 49 | 1 | * | * | 55 |
| Yellowfin tuna | 4 | 148 | 188 | 39 | 98 | 477 |
| Bigeye tuna | 10 | 380 | 373 | 46 | 149 | 958 |
| Bluefin tuna | 0 | * | 0 | 0 | 0 | 0 |
| Skipjack tuna | * | 2 | 2 | * | * | 4 |
| Total tunas | 19 | 579 | 564 | 85 | 247 | 1494 |
| Annual catch ² | | | | | | |
| Blue marlin | 4 | 61 | 61 | 7 | 13 | 146 |
| Striped marlin | 6 | 11 | 15 | 1 | 1 | 34 |
| Swordfish | 5 | 9 | 32 | 2 | 4 | 52 |
| Black marlin | * | 1 | 4 | * | 1 | 6 |
| Spearfish & sailfish | * | 7 | 5 | 2 | 2 | 16 |
| Total billfishes | 15 | 89 | 117 | 12 | 21 | 254 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 57.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1975.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|------------|------------|---------------------|-----------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 15 | 32 | 67 | 1 | 18 | 133 |
| February | 67 | 123 | 49 | 0 | 26 | 265 |
| March | 21 | 54 | 61 | 3 | 36 | 175 |
| April | 4 | 42 | 35 | 0 | 2 | 83 |
| May | 0 | 36 | 17 | 3 | 0 | 56 |
| June | 0 | 17 | 4 | 0 | 26 | 47 |
| July | 0 | 3 | 0 | 0 | 52 | 55 |
| August | 0 | 10 | 3 | 10 | 26 | 49 |
| September | 0 | 23 | 7 | 16 | 96 | 142 |
| October | 0 | 31 | 4 | 9 | 77 | 121 |
| November | 10 | 23 | 0 | 16 | * | 49 |
| December | 1 | 15 | 6 | 13 | * | 35 |
| Total | 118 | 409 | 253 | 71 | 359 | 1210 |
| Annual catch ² | | | | | | |
| Albacore | 11 | 27 | * | 3 | 2 | 43 |
| Yellowfin tuna | 12 | 85 | 43 | 16 | 120 | 276 |
| Bigeye tuna | 53 | 319 | 102 | 39 | 136 | 649 |
| Bluefin tuna | 0 | * | 0 | 0 | 0 | * |
| Skipjack tuna | * | * | 1 | * | * | 1 |
| Total tunas | 76 | 431 | 146 | 58 | 258 | 969 |
| Annual catch ² | | | | | | |
| Blue marlin | 3 | 17 | 7 | 2 | 8 | 37 |
| Striped marlin | 4 | 13 | 8 | 0 | 2 | 27 |
| Swordfish | 7 | 7 | 6 | 2 | 3 | 25 |
| Black marlin | * | * | 1 | * | * | 1 |
| Spearfish & sailfish | 1 | 4 | 5 | 3 | 1 | 14 |
| Total billfishes | 15 | 41 | 27 | 7 | 14 | 104 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 58.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1976.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-----------|------------|---------------------|------------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 7 | 19 | 11 | 11 | 47 | 95 |
| February | 24 | 57 | 7 | 0 | 26 | 114 |
| March | 19 | 49 | 102 | 1 | 62 | 233 |
| April | 10 | 33 | 77 | 8 | 34 | 162 |
| May | 0 | 29 | 10 | 7 | 64 | 110 |
| June | 0 | 28 | 50 | 35 | 22 | 135 |
| July | * | 29 | 53 | 32 | 32 | 146 |
| August | 3 | 29 | 21 | 5 | 12 | 70 |
| September | 0 | 18 | 128 | 4 | 15 | 165 |
| October | * | 10 | 31 | 11 | 86 | 138 |
| November | 4 | 1 | 11 | 13 | 15 | 44 |
| December | * | 2 | 3 | 0 | 33 | 38 |
| Total | 67 | 304 | 504 | 127 | 448 | 1450 |
| Annual catch ² | | | | | | |
| Albacore | 16 | 16 | 1 | 1 | 1 | 35 |
| Yellowfin tuna | 6 | 68 | 119 | 67 | 275 | 535 |
| Bigeye tuna | 18 | 265 | 204 | 44 | 161 | 692 |
| Bluefin tuna | 0 | * | 0 | 0 | * | * |
| Skipjack tuna | * | * | 1 | * | * | 1 |
| Total tunas | 40 | 349 | 325 | 112 | 437 | 1263 |
| Annual catch ² | | | | | | |
| Blue marlin | 3 | 34 | 48 | 9 | 31 | 125 |
| Striped marlin | 3 | 10 | 28 | 1 | 1 | 43 |
| Swordfish | 8 | 9 | 12 | 3 | 6 | 38 |
| Black marlin | * | 1 | 1 | * | 1 | 3 |
| Spearfish & sailfish | 1 | 3 | 5 | 1 | 1 | 11 |
| Total billfishes | 15 | 57 | 94 | 14 | 40 | 220 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 59.--Estimated catch and effort by Japanese longliners in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1977.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|------------|------------|---------------------|-----------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 96 | 11 | * | * | 104 | 211 |
| February | 64 | 35 | 48 | 0 | 36 | 183 |
| March | 17 | 73 | 31 | 1 | 99 | 221 |
| April | 4 | 20 | 34 | 1 | 21 | 80 |
| May | 0 | 37 | 11 | 1 | 6 | 55 |
| June | * | 55 | 1 | * | 7 | 63 |
| July | 0 | 14 | 2 | 1 | 31 | 48 |
| August | 0 | 4 | 8 | 15 | 7 | 34 |
| September | 0 | * | 3 | 3 | 54 | 60 |
| October | 0 | * | 0 | 3 | 152 | 155 |
| November | * | * | 1 | * | 129 | 130 |
| December | 7 | 6 | 33 | 4 | 78 | 128 |
| Total | 188 | 255 | 172 | 29 | 724 | 1368 |
| Annual catch ² | | | | | | |
| Albacore | 57 | 14 | 1 | 1 | 7 | 80 |
| Yellowfin tuna | 7 | 41 | 39 | 12 | 609 | 708 |
| Bigeye tuna | 78 | 276 | 98 | 17 | 338 | 807 |
| Bluefin tuna | * | 0 | 0 | 0 | 0 | * |
| Skipjack tuna | * | * | 1 | * | * | 1 |
| Total tunas | 142 | 331 | 139 | 30 | 954 | 1596 |
| Annual catch ² | | | | | | |
| Blue marlin | 4 | 23 | 8 | 2 | 56 | 93 |
| Striped marlin | 3 | 7 | 2 | * | 2 | 14 |
| Swordfish | 9 | 8 | 3 | * | 11 | 31 |
| Black marlin | * | * | 1 | * | 3 | 4 |
| Spearfish & sailfish | * | 1 | * | * | 2 | 3 |
| Total billfishes | 16 | 39 | 14 | 2 | 74 | 145 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 60.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1967.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|----------|------------|---------------------|------------|-------------------|------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 26 | 0 | 26 |
| June | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 0 | 16 | 55 | 10 | 81 |
| September | 0 | 10 | 0 | 10 | 9 | 29 |
| October | 0 | 56 | 0 | 0 | 0 | 56 |
| November | 0 | 1 | 0 | 29 | 0 | 30 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 67 | 16 | 120 | 19 | 222 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 103 | 32 | 201 | 32 | 368 |
| Yellowfin tuna | 0 | 27 | 8 | 74 | 4 | 113 |
| Bigeye tuna | 0 | 34 | 10 | 81 | 6 | 131 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 0 | 164 | 50 | 356 | 42 | 612 |
| Annual catch ² | | | | | | |
| Blue marlin | 0 | 3 | 0 | 11 | 1 | 15 |
| Striped marlin | 0 | 0 | * | 1 | 0 | 1 |
| Swordfish | 0 | 1 | 0 | 1 | * | 2 |
| Black marlin | 0 | * | 0 | 0 | * | * |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | 0 | 0 |
| Total billfishes | 0 | 4 | * | 13 | 1 | 18 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 61.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1968.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|----------|-----------|---------------------|------------|-------------------|------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 1 | 1 |
| February | 0 | 3 | 0 | 18 | 24 | 45 |
| March | 0 | 0 | 0 | 20 | 12 | 32 |
| April | 0 | 0 | 0 | 58 | 19 | 77 |
| May | 0 | 0 | 0 | 46 | * | 46 |
| June | 0 | 10 | 0 | 2 | 10 | 22 |
| July | 0 | 0 | 3 | 4 | 33 | 40 |
| August | 0 | 0 | 0 | 0 | 46 | 46 |
| September | 0 | 0 | 0 | 2 | 17 | 19 |
| October | 0 | 0 | 1 | 31 | 14 | 46 |
| November | 0 | 0 | 2 | 30 | 17 | 49 |
| December | 0 | 0 | 0 | 3 | 6 | 9 |
| Total | 0 | 13 | 6 | 214 | 199 | 432 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 31 | 5 | 320 | 163 | 519 |
| Yellowfin tuna | 0 | 13 | 4 | 73 | 257 | 347 |
| Bigeye tuna | 0 | 5 | 2 | 34 | 51 | 92 |
| Bluefin tuna | 0 | * | 0 | 1 | 21 | 22 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 0 | 49 | 11 | 428 | 492 | 980 |
| Annual catch ² | | | | | | |
| Blue marlin | 0 | 2 | * | 12 | 9 | 23 |
| Striped marlin | 0 | * | 0 | 2 | * | 2 |
| Swordfish | 0 | 1 | 0 | * | 1 | 2 |
| Black marlin | 0 | 0 | 0 | 1 | 1 | 2 |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | * | 0 |
| Total billfishes | 0 | 3 | * | 15 | 11 | 29 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 62.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1969.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|----------|----------|---------------------|----------|-------------------|------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 52 | 52 |
| February | 0 | 0 | 0 | 0 | 2 | 2 |
| March | 0 | 0 | 0 | 0 | 21 | 21 |
| April | 0 | 0 | 0 | 0 | 1 | 1 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 17 | 17 |
| July | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 33 | 0 | 0 | 33 |
| Total | 0 | 0 | 33 | 0 | 93 | 126 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | 21 | 0 | 73 | 94 |
| Yellowfin tuna | 0 | 0 | 27 | 0 | 52 | 79 |
| Bigeye tuna | 0 | 0 | 6 | 0 | 12 | 18 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 4 | 4 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 0 | 0 | 54 | 0 | 141 | 195 |
| Annual catch ² | | | | | | |
| Blue marlin | 0 | 0 | 2 | 0 | 8 | 10 |
| Striped marlin | 0 | 0 | 0 | 0 | * | * |
| Swordfish | 0 | 0 | 0 | 0 | * | * |
| Black marlin | 0 | 0 | 0 | 0 | 2 | 2 |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | 1 | 1 |
| Total billfishes | 0 | 0 | 2 | 0 | 11 | 13 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 63.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1970.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|----------|----------|---------------------|----------|-------------------|-----------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 23 | 0 | 0 | 23 |
| February | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 7 | 7 |
| June | 0 | 0 | 0 | * | 10 | 10 |
| July | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 0 | 0 | 0 | 6 | 6 |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 1 | 1 |
| November | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 23 | * | 24 | 47 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | 21 | * | 23 | 44 |
| Yellowfin tuna | 0 | 0 | 19 | * | 16 | 35 |
| Bigeye tuna | 0 | 0 | 8 | * | 6 | 14 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 0 | 0 | 48 | * | 45 | 93 |
| Annual catch ² | | | | | | |
| Blue marlin | 0 | 0 | 1 | 0 | 1 | 2 |
| Striped marlin | 0 | 0 | 0 | 0 | * | * |
| Swordfish | 0 | 0 | * | 0 | * | * |
| Black marlin | 0 | 0 | * | 0 | * | * |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | 0 | 0 |
| Total billfishes | 0 | 0 | 1 | 0 | 1 | 2 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 64.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1971.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|----------|----------|---------------------|----------|-------------------|------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 5 | 5 |
| February | 0 | 0 | 0 | 0 | 2 | 2 |
| March | 0 | 0 | 0 | 0 | 8 | 8 |
| April | 0 | 0 | 0 | 2 | 14 | 16 |
| May | 0 | 0 | 0 | 0 | 19 | 19 |
| June | 0 | 0 | 0 | 0 | 7 | 7 |
| July | 0 | 0 | 0 | 0 | 19 | 19 |
| August | 0 | 0 | 0 | 0 | 5 | 5 |
| September | 0 | 0 | 0 | 0 | 4 | 4 |
| October | 0 | 0 | 0 | 0 | 1 | 1 |
| November | 0 | 0 | 0 | 0 | 1 | 1 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 2 | 85 | 87 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | 0 | 1 | 63 | 64 |
| Yellowfin tuna | 0 | 0 | 0 | 2 | 133 | 135 |
| Bigeye tuna | 0 | 0 | 0 | * | 29 | 29 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 0 | 0 | 0 | 3 | 225 | 228 |
| Annual catch ² | | | | | | |
| Blue marlin | 0 | 0 | 0 | * | 2 | 2 |
| Striped marlin | 0 | 0 | 0 | 0 | * | * |
| Swordfish | 0 | 0 | 0 | 0 | 1 | 1 |
| Black marlin | 0 | 0 | 0 | 0 | 0 | 0 |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | 0 | 0 |
| Total billfishes | 0 | 0 | 0 | * | 3 | 3 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 65.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1972.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|----------|----------|---------------------|----------|-------------------|------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 7 | 7 |
| February | 0 | 0 | 0 | 0 | 9 | 9 |
| March | 0 | 0 | 0 | 1 | 0 | 1 |
| April | 0 | 0 | 0 | 3 | 17 | 20 |
| May | 0 | 0 | 0 | 0 | 22 | 22 |
| June | 0 | 0 | 0 | 0 | 10 | 10 |
| July | 0 | 0 | 0 | 0 | 1 | 1 |
| August | 0 | 0 | 0 | 0 | 2 | 2 |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 4 | 68 | 72 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | 0 | 1 | 27 | 28 |
| Yellowfin tuna | 0 | 0 | 0 | 4 | 87 | 91 |
| Bigeye tuna | 0 | 0 | 0 | 1 | 23 | 24 |
| Bluefin tuna | 0 | 0 | 0 | 0 | * | * |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 0 | 0 | 0 | 6 | 137 | 143 |
| Annual catch ² | | | | | | |
| Blue marlin | 0 | 0 | 0 | 0 | 2 | 2 |
| Striped marlin | 0 | 0 | 0 | 0 | * | * |
| Swordfish | 0 | 0 | 0 | 0 | * | * |
| Black marlin | 0 | 0 | 0 | 0 | * | * |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | 0 | 0 |
| Total billfishes | 0 | 0 | 0 | 0 | 2 | 2 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 66.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1973.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|----------|----------|---------------------|----------|-------------------|----------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 3 | 3 |
| February | 0 | 0 | 0 | 3 | 0 | 3 |
| March | 0 | 0 | 0 | 0 | 2 | 2 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 3 | 5 | 8 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | 0 | 2 | 1 | 3 |
| Yellowfin tuna | 0 | 0 | 0 | * | 1 | 1 |
| Bigeye tuna | 0 | 0 | 0 | 1 | 2 | 3 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 0 | 0 | 0 | 3 | 4 | 7 |
| Annual catch ² | | | | | | |
| Blue marlin | 0 | 0 | 0 | 0 | * | * |
| Striped marlin | 0 | 0 | 0 | 0 | 0 | 0 |
| Swordfish | 0 | 0 | 0 | 0 | 0 | 0 |
| Black marlin | 0 | 0 | 0 | 0 | 0 | 0 |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | 0 | 0 |
| Total billfishes | 0 | 0 | 0 | 0 | * | * |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 67.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1974.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-----------|----------|---------------------|----------|-------------------|-----------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 2 | 0 | 2 |
| March | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 0 | 0 | 0 | 5 | 5 |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 5 | 0 | 0 | 0 | 0 | 5 |
| December | 42 | 0 | 0 | 0 | 0 | 42 |
| Total | 47 | 0 | 0 | 2 | 5 | 54 |
| Annual catch ² | | | | | | |
| Albacore | 32 | 0 | 0 | * | * | 32 |
| Yellowfin tuna | 4 | 0 | 0 | * | 1 | 5 |
| Bigeye tuna | 8 | 0 | 0 | 1 | 1 | 10 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 44 | 0 | 0 | 1 | 2 | 47 |
| Annual catch ² | | | | | | |
| Blue marlin | 4 | 0 | 0 | 0 | 0 | 4 |
| Striped marlin | 1 | 0 | 0 | 0 | 0 | 1 |
| Swordfish | * | 0 | 0 | 0 | 0 | * |
| Black marlin | 0 | 0 | 0 | 0 | 0 | 0 |
| Spearfish & sailfish | 0 | 0 | 0 | 0 | 0 | 0 |
| Total billfishes | 5 | 0 | 0 | 0 | 0 | 5 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 68.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1975.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|------------|----------|---------------------|----------|-------------------|------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 216 | 0 | 0 | 0 | 0 | 216 |
| February | 49 | 0 | 0 | 1 | 0 | 50 |
| March | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 9 | 9 |
| May | 0 | 0 | 0 | 0 | 6 | 6 |
| June | 0 | 0 | 0 | 1 | 6 | 7 |
| July | 0 | 0 | 0 | 0 | 1 | 1 |
| August | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 34 | 0 | 0 | 0 | 0 | 34 |
| November | 108 | 0 | 0 | 0 | 0 | 108 |
| December | 58 | 0 | 0 | 0 | 0 | 58 |
| Total | 465 | 0 | 0 | 2 | 22 | 489 |
| Annual catch ² | | | | | | |
| Albacore | 427 | 0 | 0 | * | 6 | 433 |
| Yellowfin tuna | 72 | 0 | 0 | 1 | 11 | 84 |
| Bigeye tuna | 31 | 0 | 0 | 1 | 8 | 40 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Total tunas | 530 | 0 | 0 | 2 | 25 | 557 |
| Annual catch ² | | | | | | |
| Blue marlin | 36 | 0 | 0 | 0 | 1 | 37 |
| Striped marlin | 9 | 0 | 0 | 0 | 0 | 9 |
| Swordfish | 5 | 0 | 0 | * | 0 | 5 |
| Black marlin | 3 | 0 | 0 | 0 | 0 | 3 |
| Spearfish & sailfish | 2 | 0 | 0 | 0 | 0 | 2 |
| Total billfishes | 55 | 0 | 0 | * | 1 | 56 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 69.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1976.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|------------|----------|---------------------|----------|-------------------|------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 69 | 0 | 0 | 0 | 0 | 69 |
| March | 147 | 0 | 0 | 0 | 0 | 147 |
| April | 0 | 0 | 0 | 0 | 17 | 17 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 5 | 5 |
| July | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 26 | 0 | 0 | 0 | 0 | 26 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 242 | 0 | 0 | 0 | 22 | 264 |
| Annual catch ² | | | | | | |
| Albacore | 210 | 0 | 0 | 0 | 8 | 218 |
| Yellowfin tuna | 51 | 0 | 0 | 0 | 16 | 67 |
| Bigeye tuna | 15 | 0 | 0 | 0 | 4 | 19 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 4 | 0 | 0 | 0 | 0 | 4 |
| Total tunas | 280 | 0 | 0 | 0 | 28 | 308 |
| Annual catch ² | | | | | | |
| Blue marlin | 21 | 0 | 0 | 0 | 1 | 22 |
| Striped marlin | 5 | 0 | 0 | 0 | 0 | 5 |
| Swordfish | * | 0 | 0 | 0 | 0 | * |
| Black marlin | 0 | 0 | 0 | 0 | 0 | 0 |
| Spearfish & sailfish | 109 | 0 | 0 | 0 | 1 | 110 |
| Total billfishes | 135 | 0 | 0 | 0 | 2 | 137 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 70.--Estimated catch and effort by longliners of Taiwan in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1977.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-----------|----------|---------------------|----------|-------------------|------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 1 | * | 0 | 38 | 39 |
| February | 58 | 0 | 0 | 0 | 2 | 60 |
| March | 4 | 0 | * | 3 | 0 | 7 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 0 | 0 | 0 | * | * |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 3 | 0 | 3 |
| November | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 62 | 1 | * | 6 | 40 | 109 |
| Annual catch ² | | | | | | |
| Albacore | 42 | * | 0 | 2 | * | 44 |
| Yellowfin tuna | 5 | * | * | 1 | 53 | 59 |
| Bigeye tuna | 2 | 1 | * | 2 | 5 | 10 |
| Bluefin tuna | 0 | 0 | 0 | * | 0 | * |
| Skipjack tuna | * | 0 | 0 | 0 | 0 | * |
| Total tunas | 49 | 1 | * | 5 | 58 | 113 |
| Annual catch ² | | | | | | |
| Blue marlin | 2 | 0 | 0 | * | 1 | 3 |
| Striped marlin | 1 | * | 0 | 0 | 0 | 1 |
| Swordfish | * | 0 | 0 | 0 | * | * |
| Black marlin | 0 | 0 | 0 | 0 | 0 | 0 |
| Speerfish & sailfish | * | 0 | 0 | 0 | 0 | * |
| Total billfishes | 3 | * | 0 | * | 1 | 4 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 71.--Estimated catch and effort by Japanese baitboats within 200, 100, and 50 miles of the Hawaiian Islands, 1972.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|----------|----------|-----------------------------------|-------------|------------|--------------------------------|-------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 0 | 0 | 55 | 33 | 24 | 55 | 33 | 24 |
| September | 0 | 0 | 0 | 155 | 132 | 88 | 155 | 132 | 88 |
| October | 0 | 0 | 0 | 3 | 3 | 1 | 3 | 3 | 1 |
| November | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 213 | 168 | 113 | 213 | 168 | 113 |
| Annual catch ² | | | | | | | | | |
| Albacore | 0 | 0 | 0 | 26 | 0 | 0 | 26 | 0 | 0 |
| Yellowfin tuna | 0 | 0 | 0 | 19 | 3 | 3 | 19 | 3 | 3 |
| Bigeye tuna | 0 | 0 | 0 | 105 | 63 | 37 | 105 | 63 | 37 |
| Bluefin tuna | 0 | 0 | 0 | 26 | 8 | 5 | 26 | 8 | 5 |
| Skipjack tuna | 0 | 0 | 0 | 1282 | 971 | 636 | 1282 | 971 | 636 |
| Total tunas | 0 | 0 | 0 | 1458 | 1045 | 681 | 1458 | 1045 | 681 |
| Annual catch ² | | | | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 6 | 6 | 4 | 6 | 6 | 4 |
| Others | 0 | 0 | 0 | 31 | 31 | 22 | 31 | 31 | 22 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 72.--Estimated catch and effort by Japanese baitboats within 200, 100, and 50 miles of the Hawaiian Islands, 1973.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|----------|----------|-----------------------------------|------------|------------|--------------------------------|------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 0 | 0 | 0 | 59 | 40 | 22 | 59 | 40 | 22 |
| August | 0 | 0 | 0 | 37 | 16 | 8 | 37 | 16 | 8 |
| September | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 96 | 56 | 30 | 96 | 56 | 30 |
| Annual catch ² | | | | | | | | | |
| Albacore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yellowfin tuna | 0 | 0 | 0 | 20 | 10 | 10 | 20 | 10 | 10 |
| Bigeye tuna | 0 | 0 | 0 | 109 | 80 | 43 | 109 | 80 | 43 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 0 | 0 | 0 | 823 | 451 | 192 | 823 | 451 | 192 |
| Total tunas | 0 | 0 | 0 | 952 | 541 | 245 | 952 | 541 | 245 |
| Annual catch ² | | | | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | 0 | 0 | 12 | 11 | 7 | 12 | 11 | 7 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 73.--Estimated catch and effort by Japanese baitboats within 200, 100, and 50 miles of the Hawaiian Islands, 1974.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|----------|----------|-----------------------------------|-------------|-------------|--------------------------------|-------------|-------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 7 | 4 | 3 | 7 | 4 | 3 |
| July | 0 | 0 | 0 | 83 | 63 | 48 | 83 | 63 | 48 |
| August | 1 | 1 | 1 | 86 | 68 | 38 | 87 | 69 | 39 |
| September | 0 | 0 | 0 | 10 | 7 | 5 | 10 | 7 | 5 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 1 | 1 | 186 | 142 | 94 | 187 | 143 | 95 |
| Annual catch ² | | | | | | | | | |
| Albacore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yellowfin tuna | 0 | 0 | 0 | 50 | 48 | 36 | 50 | 48 | 36 |
| Bigeye tuna | 0 | 0 | 0 | 147 | 66 | 47 | 147 | 66 | 47 |
| Bluefin tuna | 0 | 0 | 0 | * | * | * | * | * | * |
| Skipjack tuna | 0 | 0 | 0 | 1971 | 1593 | 1107 | 1971 | 1593 | 1107 |
| Total tunas | 0 | 0 | 0 | 2168 | 1707 | 1190 | 2168 | 1707 | 1190 |
| Annual catch ² | | | | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 6 | 6 | 6 | 6 | 6 | 6 |
| Others | 0 | 0 | 0 | 19 | 18 | 11 | 19 | 16 | 11 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 74.--Estimated catch and effort by Japanese baitboats within 200, 100, and 50 miles of the Hawaiian Islands, 1975.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|----------|----------|-----------------------------------|-------------|------------|--------------------------------|-------------|------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| May | 0 | 0 | 0 | 12 | 7 | 6 | 12 | 9 | 6 |
| June | 0 | 0 | 0 | 54 | 46 | 32 | 54 | 46 | 32 |
| July | 0 | 0 | 0 | 122 | 82 | 48 | 122 | 82 | 48 |
| August | 0 | 0 | 0 | 51 | 25 | 11 | 51 | 25 | 11 |
| September | 3 | 3 | 2 | 23 | 21 | 10 | 26 | 24 | 12 |
| October | 0 | 0 | 0 | 3 | 1 | 0 | 3 | 1 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 3 | 3 | 2 | 266 | 184 | 107 | 269 | 187 | 109 |
| Annual catch ² | | | | | | | | | |
| Albacore | 0 | 0 | 0 | 89 | 89 | 27 | 89 | 89 | 27 |
| Yellowfin tuna | 0 | 0 | 0 | 167 | 155 | 80 | 167 | 155 | 80 |
| Bigeye tuna | 0 | 0 | 0 | 71 | 53 | 36 | 71 | 53 | 36 |
| Bluefin tuna | 0 | 0 | 0 | 25 | 25 | 8 | 25 | 25 | 8 |
| Skipjack tuna | 0 | 0 | 0 | 1906 | 1301 | 804 | 1906 | 1301 | 804 |
| Total tunas | 0 | 0 | 0 | 2258 | 1623 | 955 | 2258 | 1623 | 955 |
| Annual catch ² | | | | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 11 | 11 | 7 | 11 | 11 | 7 |
| Others | 0 | 0 | 0 | 83 | 81 | 46 | 83 | 81 | 46 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 75.--Estimated catch and effort by Japanese baitboats within 200, 100, and 50 miles of the Hawaiian Islands, 1976.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|------------|-----------|-----------------------------------|-------------|-------------|--------------------------------|-------------|-------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 1 | * | 0 | 1 | * | 0 |
| June | 0 | 0 | 0 | 82 | 62 | 35 | 82 | 62 | 35 |
| July | 22 | 10 | 5 | 409 | 354 | 208 | 431 | 364 | 213 |
| August | 29 | 23 | 4 | 97 | 85 | 49 | 126 | 108 | 53 |
| September | 0 | 0 | 0 | 9 | 7 | 5 | 9 | 7 | 5 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 51 | 33 | 9 | 598 | 508 | 297 | 649 | 541 | 306 |
| Annual catch ² | | | | | | | | | |
| Albacore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yellowfin tuna | 54 | 3 | * | 124 | 109 | 73 | 178 | 112 | 73 |
| Bigeye tuna | 89 | * | 0 | 92 | 76 | 43 | 181 | 76 | 43 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 315 | 242 | 56 | 4294 | 3847 | 2367 | 4609 | 4089 | 2423 |
| Total tunas | 458 | 245 | 56 | 4510 | 4032 | 2483 | 4968 | 4277 | 2539 |
| Annual catch ² | | | | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 9 | 8 | 5 | 9 | 8 | 5 |
| Others | 0 | 0 | 0 | 28 | 27 | 13 | 28 | 27 | 13 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 76.--Estimated catch and effort by Japanese baitboats within 200, 100, and 50 miles of the Hawaiian Islands, 1977.

| | Main Hawaiian Islands (A) | | | Northwestern Hawaiian Islands (B) | | | Total Hawaiian Islands (A + B) | | |
|-------------------------------------|---------------------------|------------|-----------|-----------------------------------|-------------|-------------|--------------------------------|-------------|-------------|
| | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. | 200 mi. | 100 mi. | 50 mi. |
| Monthly nominal effort ¹ | | | | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 20 | 16 | 9 | 20 | 16 | 9 |
| May | 0 | 0 | 0 | 14 | 13 | 10 | 14 | 13 | 10 |
| June | 32 | 17 | 12 | 409 | 258 | 165 | 441 | 275 | 177 |
| July | 14 | 10 | 2 | 208 | 65 | 27 | 222 | 75 | 29 |
| August | 6 | 1 | * | 36 | 26 | 15 | 42 | 27 | 15 |
| September | 0 | 0 | 0 | 17 | 7 | 4 | 17 | 7 | 4 |
| October | 0 | 0 | 0 | 11 | 5 | 3 | 11 | 5 | 3 |
| November | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 52 | 28 | 14 | 715 | 390 | 233 | 767 | 418 | 247 |
| Annual catch ² | | | | | | | | | |
| Albacore | 0 | 0 | 0 | 49 | 2 | 0 | 49 | 2 | 0 |
| Yellowfin tuna | 25 | * | 0 | 337 | 253 | 169 | 362 | 253 | 169 |
| Bigeye tuna | 91 | 1 | 0 | 734 | 654 | 497 | 825 | 655 | 497 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 281 | 153 | 29 | 4375 | 2339 | 1347 | 4656 | 2492 | 1376 |
| Total tunas | 397 | 154 | 29 | 5495 | 3248 | 2013 | 5892 | 3402 | 2042 |
| Annual catch ² | | | | | | | | | |
| Frigate tuna | 1 | 1 | * | 16 | 11 | 6 | 17 | 12 | 6 |
| Others | 0 | 0 | 0 | 108 | 99 | 68 | 108 | 99 | 68 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 77.--Estimated catch and effort by Japanese baitboats around Guam and the Northern Mariana Islands, 1970.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|-------------|------------------------|-------------|
| | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 1 | 13 | 3 | 38 | 4 | 51 |
| February | 0 | 20 | 8 | 28 | 8 | 48 |
| March | 2 | 71 | 12 | 52 | 14 | 123 |
| April | 2 | 15 | 28 | 65 | 30 | 80 |
| May | * | 4 | 14 | 35 | 14 | 39 |
| June | 0 | 0 | 9 | 53 | 9 | 53 |
| July | 0 | 1 | 207 | 602 | 207 | 603 |
| August | * | 5 | 78 | 229 | 78 | 234 |
| September | 5 | 28 | 101 | 207 | 106 | 235 |
| October | 0 | 4 | 21 | 54 | 21 | 58 |
| November | 1 | 14 | 41 | 292 | 42 | 306 |
| December | 2 | 7 | 3 | 107 | 5 | 114 |
| Total | 13 | 182 | 525 | 1762 | 538 | 1944 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | * | 14 | * | 14 |
| Yellowfin tuna | * | 16 | 54 | 414 | 54 | 430 |
| Bigeye tuna | 0 | * | 35 | 153 | 35 | 153 |
| Bluefin tuna | 0 | 0 | 1 | 4 | 1 | 4 |
| Skipjack tuna | 28 | 649 | 2903 | 8284 | 2931 | 8933 |
| Total tunas | 28 | 665 | 2993 | 8969 | 3021 | 9534 |
| Annual catch ² | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | * | * | 3 | 13 | 3 | 13 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 78.--Estimated catch and effort by Japanese baitboats around Guam and the Northern Mariana Islands, 1971.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|--------------------|-------------------------------------|------------|-----------------------|--------------|------------------------|--------------|
| | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ |
| | Monthly nominal effort ¹ | | | | | |
| January | * | 20 | 4 | 38 | 4 | 58 |
| February | * | 24 | 20 | 74 | 20 | 98 |
| March | 2 | 14 | 14 | 66 | 16 | 80 |
| April | 0 | 1 | 1 | 7 | 1 | 8 |
| May | 0 | 0 | 0 | 8 | 0 | 8 |
| June | 0 | 0 | 14 | 31 | 14 | 31 |
| July | 0 | 1 | 194 | 678 | 194 | 679 |
| August | 4 | 6 | 218 | 562 | 222 | 568 |
| September | 3 | 15 | 255 | 564 | 258 | 579 |
| October | 11 | 44 | 178 | 419 | 189 | 463 |
| November | 0 | 30 | 27 | 173 | 27 | 203 |
| December | 1 | 9 | 4 | 26 | 5 | 35 |
| Total | 21 | 164 | 929 | 2646 | 950 | 2810 |
| | Annual catch ² | | | | | |
| Albacore | 0 | 0 | 0 | 2 | 0 | 2 |
| Yellowfin tuna | * | 46 | 38 | 184 | 38 | 230 |
| Bigeye tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bluefin tuna | 0 | 0 | 0 | 12 | 0 | 12 |
| Skipjack tuna | 78 | 398 | 4454 | 12366 | 4532 | 12764 |
| Total tunas | 78 | 444 | 4492 | 12564 | 4570 | 13008 |
| | Annual catch ² | | | | | |
| Frigate tuna | 0 | 0 | * | * | * | * |
| Others | 0 | 1 | 1 | 19 | 1 | 20 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 79.--Estimated catch and effort by Japanese baitboats around Guam and the Northern Mariana Islands, 1972.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|--------------------|-------------------------------------|------------|-----------------------|-------------|------------------------|-------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| | Monthly nominal effort ¹ | | | | | |
| January | 1 | 4 | 5 | 17 | 6 | 21 |
| February | 0 | 2 | 9 | 20 | 9 | 22 |
| March | * | 2 | 10 | 28 | 10 | 30 |
| April | 0 | 2 | 12 | 47 | 12 | 49 |
| May | 1 | 1 | 3 | 8 | 4 | 9 |
| June | 0 | 0 | 97 | 299 | 97 | 299 |
| July | 3 | 10 | 251 | 527 | 254 | 537 |
| August | 9 | 18 | 188 | 487 | 197 | 505 |
| September | 9 | 17 | 47 | 116 | 56 | 133 |
| October | 2 | 12 | 14 | 45 | 16 | 57 |
| November | 16 | 31 | 10 | 46 | 26 | 77 |
| December | 6 | 19 | * | 8 | 6 | 27 |
| Total | 47 | 118 | 646 | 1648 | 693 | 1766 |
| | Annual catch ² | | | | | |
| Albacore | 3 | 13 | 23 | 52 | 26 | 65 |
| Yellowfin tuna | 0 | 4 | 17 | 66 | 17 | 70 |
| Bigeye tuna | 0 | 0 | 4 | 16 | 4 | 16 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 131 | 284 | 2885 | 6971 | 3016 | 7255 |
| Total tunas | 134 | 301 | 2929 | 7105 | 3063 | 7406 |
| | Annual catch ² | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 1 | 1 | 1 | 2 | 2 | 3 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 80.--Estimated catch and effort by Japanese baitboats around Guam and the Northern Mariana Islands, 1973.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|-------------|------------------------|-------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 2 | 0 | 13 | 0 | 15 |
| February | * | 2 | 3 | 18 | 3 | 20 |
| March | 0 | 8 | 6 | 73 | 6 | 81 |
| April | 0 | 6 | 7 | 32 | 7 | 38 |
| May | 0 | 0 | 4 | 14 | 4 | 14 |
| June | 0 | 0 | 13 | 41 | 13 | 41 |
| July | 0 | 5 | 233 | 532 | 233 | 537 |
| August | 8 | 15 | 202 | 470 | 210 | 485 |
| September | 4 | 4 | 49 | 134 | 53 | 138 |
| October | 0 | 1 | 16 | 54 | 16 | 55 |
| November | 1 | 2 | 64 | 140 | 65 | 142 |
| December | * | 9 | 27 | 82 | 27 | 91 |
| Total | 13 | 54 | 624 | 1603 | 637 | 1657 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | 9 | 11 | 9 | 11 |
| Yellowfin tuna | 7 | 10 | 36 | 258 | 43 | 268 |
| Bigeye tuna | 0 | 1 | 0 | 6 | 0 | 7 |
| Bluefin tuna | 0 | 0 | 0 | 4 | 0 | 4 |
| Skipjack tuna | 78 | 223 | 3030 | 7099 | 3108 | 7322 |
| Total tunas | 85 | 234 | 3075 | 7378 | 3160 | 7612 |
| Annual catch ² | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | 0 | * | 2 | * | 2 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 81.--Estimated catch and effort by Japanese baitboats around Guam and the Northern Mariana Islands, 1974.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|-------------|------------------------|-------------|
| | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | * | 6 | 26 | 34 | 26 | 40 |
| February | 0 | 3 | 15 | 74 | 15 | 77 |
| March | * | 3 | 2 | 55 | 2 | 58 |
| April | 0 | 3 | 20 | 45 | 20 | 48 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 7 | 26 | 7 | 26 |
| July | 5 | 11 | 195 | 556 | 200 | 567 |
| August | 0 | 2 | 23 | 59 | 23 | 61 |
| September | 3 | 17 | 63 | 127 | 66 | 144 |
| October | 2 | 11 | 107 | 199 | 109 | 210 |
| November | 1 | 8 | 39 | 138 | 40 | 146 |
| December | 1 | 3 | 28 | 62 | 29 | 65 |
| Total | 12 | 67 | 525 | 1375 | 537 | 1442 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | 1 | 1 | 1 | 1 |
| Yellowfin tuna | 0 | 7 | 101 | 294 | 101 | 301 |
| Bigeye tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 8 | 76 | 1798 | 4627 | 1806 | 4703 |
| Total tunas | 8 | 83 | 1900 | 4922 | 1908 | 5005 |
| Annual catch ² | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | 0 | 23 | 39 | 23 | 39 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 82.—Estimated catch and effort by Japanese baitboats around Guam and the Northern Mariana Islands, 1975.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|--------------------|-------------------------------------|-------------|-----------------------|-------------|------------------------|-------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| | Monthly nominal effort ¹ | | | | | |
| January | 0 | 1 | 15 | 44 | 15 | 45 |
| February | 1 | 3 | 22 | 36 | 23 | 39 |
| March | 3 | 20 | 35 | 81 | 38 | 101 |
| April | 4 | 21 | 66 | 137 | 70 | 158 |
| May | 2 | 77 | 5 | 30 | 7 | 107 |
| June | 1 | 9 | 188 | 391 | 189 | 400 |
| July | 1 | 10 | 85 | 254 | 86 | 264 |
| August | * | 8 | 132 | 260 | 132 | 268 |
| September | 1 | 22 | 51 | 154 | 52 | 176 |
| October | * | 8 | 4 | 56 | 4 | 64 |
| November | 1 | 10 | 52 | 151 | 53 | 161 |
| December | 1 | 17 | 38 | 102 | 39 | 119 |
| Total | 15 | 206 | 693 | 1696 | 708 | 1902 |
| | Annual catch ² | | | | | |
| Albacore | 0 | 0 | 0 | 4 | 0 | 4 |
| Yellowfin tuna | 0 | 9 | 82 | 271 | 82 | 280 |
| Bigeye tuna | 0 | 1 | 2 | 6 | 2 | 7 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 68 | 1117 | 2867 | 6345 | 2935 | 7462 |
| Total tunas | 68 | 1127 | 2951 | 6626 | 3019 | 7753 |
| | Annual catch ² | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | 3 | 16 | 31 | 16 | 34 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 83.--Estimated catch and effort by Japanese baitboats around Guam and the Northern Mariana Islands, 1976.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|------------|-----------------------|-------------|------------------------|-------------|
| | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ | Within 50 mi. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 6 | 22 | 78 | 22 | 84 |
| February | 0 | 2 | 7 | 30 | 7 | 32 |
| March | 0 | 0 | 4 | 17 | 4 | 17 |
| April | * | 9 | 0 | 14 | * | 23 |
| May | 0 | 0 | 1 | 6 | 1 | 6 |
| June | 0 | 0 | 2 | 7 | 2 | 7 |
| July | 1 | 5 | 77 | 264 | 78 | 269 |
| August | 0 | 0 | 25 | 76 | 25 | 76 |
| September | 0 | 3 | 16 | 33 | 16 | 36 |
| October | 2 | 3 | 11 | 35 | 13 | 38 |
| November | * | 1 | 6 | 122 | 6 | 123 |
| December | * | 21 | 1 | 62 | 1 | 63 |
| Total | 3 | 50 | 172 | 744 | 175 | 794 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | 0 | 0 | 0 | 0 |
| Yellowfin tuna | 0 | 25 | 33 | 249 | 33 | 274 |
| Bigeye tuna | 0 | 0 | 0 | 1 | 0 | 1 |
| Bluefin tuna | 0 | 0 | 0 | * | 0 | * |
| Skipjack tuna | 9 | 85 | 563 | 2303 | 572 | 2388 |
| Total tunas | 9 | 110 | 596 | 2553 | 605 | 2663 |
| Annual catch ² | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | * | 2 | 13 | 2 | 13 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 84.--Estimated catch and effort by Japanese baitboats around Guam and the Northern Mariana Islands, 1977.

| | Guam (A) | | Northern Marianas (B) | | Areas combined (A + B) | |
|-------------------------------------|---------------|-------------|-----------------------|-------------|------------------------|-------------|
| | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ | Within 50 ml. | Within FCZ |
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | * | 32 | * | 32 |
| February | 0 | 0 | 45 | 167 | 45 | 167 |
| March | 16 | 227 | 10 | 36 | 26 | 263 |
| April | 10 | 73 | 20 | 65 | 30 | 138 |
| May | * | 6 | 0 | 2 | * | 8 |
| June | 0 | 2 | 55 | 172 | 55 | 174 |
| July | 0 | 1 | 52 | 150 | 52 | 151 |
| August | * | 5 | 25 | 107 | 25 | 112 |
| September | 1 | 2 | 16 | 99 | 17 | 101 |
| October | 0 | 2 | 8 | 70 | 8 | 72 |
| November | 0 | 13 | 11 | 170 | 11 | 183 |
| December | 0 | 2 | 1 | 39 | 1 | 41 |
| Total | 27 | 333 | 243 | 1109 | 270 | 1442 |
| Annual catch ² | | | | | | |
| Albacore | 0 | 0 | * | 5 | * | 5 |
| Yellowfin tuna | 0 | 13 | 63 | 431 | 63 | 444 |
| Bigeye tuna | 0 | 1 | 1 | 6 | 1 | 7 |
| Bluefin tuna | 0 | 1 | 0 | 8 | 0 | 9 |
| Skipjack tuna | 94 | 2044 | 846 | 2995 | 940 | 5039 |
| Total tunas | 94 | 2059 | 910 | 3445 | 1004 | 5504 |
| Annual catch ² | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | 7 | 15 | 70 | 15 | 77 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 85.--Estimated catch and effort by Japanese baitboats in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1971.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|------------|----------|---------------------|----------|-------------------|------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 12 | 0 | 0 | 0 | 0 | 12 |
| September | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 12 | 0 | 0 | 0 | 0 | 12 |
| Annual catch ² | | | | | | |
| Albacore | 36 | 0 | 0 | 0 | 0 | 36 |
| Yellowfin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bigeye tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 409 | 0 | 0 | 0 | 0 | 409 |
| Total tunas | 445 | 0 | 0 | 0 | 0 | 445 |
| Annual catch ² | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | 0 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 86.--Estimated catch and effort by Japanese baitboats in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1972.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-------------|-----------|---------------------|----------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 3 | 0 | 0 | 0 | 0 | 3 |
| July | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 6 | 0 | 0 | 0 | 0 | 6 |
| September | 32 | 2 | 0 | 0 | 0 | 34 |
| October | 0 | 0 | 2 | 0 | 18 | 20 |
| November | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 41 | 2 | 2 | 0 | 18 | 63 |
| Annual catch ² | | | | | | |
| Albacore | 169 | 0 | 2 | 0 | 147 | 318 |
| Yellowfin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bigeye tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bluefin tuna | 0 | 0 | 0 | 0 | * | * |
| Skipjack tuna | 1093 | 57 | 59 | 0 | 567 | 1776 |
| Total tunas | 1262 | 57 | 61 | 0 | 714 | 2094 |
| Annual catch ² | | | | | | |
| Frigate tuna | 0 | 0 | 3 | 0 | 4 | 7 |
| Others | 0 | 0 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 87.--Estimated catch and effort by Japanese baitboats in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1973.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-------------|----------|---------------------|----------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 1 | 0 | 0 | 0 | 0 | 1 |
| March | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 41 | 0 | 0 | 0 | 0 | 41 |
| August | 52 | 0 | 0 | 0 | 0 | 52 |
| September | 7 | 0 | 0 | 0 | 0 | 7 |
| October | 4 | 0 | 0 | 0 | 0 | 4 |
| November | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 105 | 0 | 0 | 0 | 0 | 105 |
| Annual catch ² | | | | | | |
| Albacore | 578 | 0 | 0 | 0 | 0 | 578 |
| Yellowfin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bigeye tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bluefin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Skipjack tuna | 2773 | 0 | 0 | 0 | 0 | 2773 |
| Total tunas | 3351 | 0 | 0 | 0 | 0 | 3351 |
| Annual catch ² | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | 0 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 88.--Estimated catch and effort by Japanese baitboats in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1974.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-------------|-----------|---------------------|----------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | * | 0 | 0 | 0 | 0 | * |
| June | 1 | 0 | 0 | 0 | 0 | 1 |
| July | 67 | 0 | 0 | 0 | 0 | 67 |
| August | 6 | 0 | 0 | 0 | 0 | 6 |
| September | 1 | 2 | 0 | 0 | 0 | |
| October | 0 | 0 | 0 | 0 | 0 | |
| November | 0 | 0 | 10 | 0 | 1 | 11 |
| December | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 75 | 2 | 10 | 0 | 1 | 88 |
| Annual catch ² | | | | | | |
| Albacore | 210 | 0 | 80 | 0 | * | 290 |
| Yellowfin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bigeye tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bluefin tuna | * | 0 | 1 | 0 | 0 | 1 |
| Skipjack tuna | 1853 | 64 | 282 | 0 | 29 | 2228 |
| Total tunas | 2063 | 64 | 363 | 0 | 29 | 2519 |
| Annual catch ² | | | | | | |
| Frigate tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | 0 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 89.--Estimated catch and effort by Japanese baitboats in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1975.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|--------------|------------|---------------------|----------|-------------------|--------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 2 | 2 |
| February | 0 | 0 | 12 | 0 | 2 | 14 |
| March | 19 | 0 | 8 | 0 | 0 | 27 |
| April | 168 | 0 | 0 | 0 | 0 | 168 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 23 | 0 | 0 | 0 | 0 | 23 |
| July | 205 | 2 | 0 | 0 | 0 | 207 |
| August | 37 | 2 | 6 | 0 | 0 | 45 |
| September | 15 | 0 | 0 | 0 | 4 | 19 |
| October | 31 | 0 | 0 | 0 | 0 | 31 |
| November | 2 | 0 | 0 | 0 | 0 | 2 |
| December | 1 | 0 | 0 | 0 | 0 | 1 |
| Total | 501 | 4 | 26 | 0 | 8 | 539 |
| Annual catch ² | | | | | | |
| Albacore | 2534 | * | 172 | 0 | 0 | 2706 |
| Yellowfin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bigeye tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bluefin tuna | * | 0 | 3 | 0 | 0 | 3 |
| Skipjack tuna | 12321 | 103 | 719 | 0 | 194 | 13337 |
| Total tunas | 14855 | 103 | 894 | 0 | 194 | 16046 |
| Annual catch ² | | | | | | |
| Frigate tuna | 2 | 0 | 0 | 0 | 0 | 2 |
| Others | 0 | 0 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 90.--Estimated catch and effort by Japanese baitboats in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1976.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|-------------|------------|---------------------|-----------|-------------------|-------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 1 | 0 | 0 | 0 | 0 | 1 |
| February | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 1 | 0 | 0 | 0 | 0 | 1 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 1 | 0 | 0 | 0 | 0 | 1 |
| June | 1 | 0 | 0 | 0 | 0 | 1 |
| July | 82 | 3 | 0 | 0 | 0 | 85 |
| August | 27 | 2 | 17 | 0 | 0 | 46 |
| September | 5 | 0 | 6 | 1 | 71 | 83 |
| October | 3 | 0 | 0 | 0 | 8 | 11 |
| November | 1 | 0 | 0 | 0 | 0 | 1 |
| December | 0 | 0 | 0 | 0 | 2 | 2 |
| Total | 122 | 5 | 23 | 1 | 81 | 232 |
| Annual catch ² | | | | | | |
| Albacore | 406 | 2 | 190 | 8 | 808 | 1414 |
| Yellowfin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bigeye tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bluefin tuna | 4 | 0 | 2 | 0 | 3 | 9 |
| Skipjack tuna | 2984 | 112 | 563 | 27 | 2069 | 5755 |
| Total tunas | 3394 | 114 | 755 | 35 | 2880 | 7178 |
| Annual catch ² | | | | | | |
| Frigate tuna | 1 | 0 | * | 0 | 0 | 1 |
| Others | 0 | 0 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.

Table 91.--Estimated catch and effort by Japanese baitboats in the FCZ around Wake Island, Johnston Atoll, Palmyra Island and Kingman Reef, Jarvis Island, and Howland and Baker Islands, 1977.

| | Wake | Johnston | Palmyra- Kingman | Jarvis | Howland- Baker | Total |
|-------------------------------------|--------------|-------------|---------------------|----------|-------------------|--------------|
| Monthly nominal effort ¹ | | | | | | |
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | * | 0 | 0 | 0 | 4 | 4 |
| March | 0 | 0 | 0 | 0 | 3 | 3 |
| April | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 261 | 11 | 1 | 0 | 0 | 273 |
| July | 66 | 113 | 0 | 0 | 0 | 179 |
| August | 70 | 20 | 5 | 0 | 47 | 142 |
| September | 5 | 6 | 109 | 0 | 16 | 136 |
| October | 3 | 5 | 132 | 0 | 8 | 148 |
| November | 20 | 0 | 25 | 0 | * | 45 |
| December | 2 | 0 | 5 | 0 | 0 | 7 |
| Total | 427 | 155 | 277 | 0 | 78 | 937 |
| Annual catch ² | | | | | | |
| Albacore | 2326 | 1092 | 2494 | 0 | 600 | 6512 |
| Yellowfin tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bigeye tuna | 0 | 0 | 0 | 0 | 0 | 0 |
| Bluefin tuna | 5 | 8 | 34 | 0 | 0 | 47 |
| Skipjack tuna | 11570 | 4376 | 7330 | 0 | 2134 | 25410 |
| Total tunas | 13901 | 5476 | 9858 | 0 | 2734 | 31969 |
| Annual catch ² | | | | | | |
| Frigate tuna | 2 | 6 | 39 | 0 | 0 | 47 |
| Others | 0 | 0 | 0 | 0 | 0 | 0 |

¹Effort in vessel days, * = < 1 vessel day.

²Catch in metric tons, * = < 1 mt.