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Scottish Salmon Catch Statistics

Catch statistics for Scotland for the years 1952-1965 were submitted to the Working Party last year in ICES/ICNAF Salmon Doc. 66-4. In this report these have been brought up-to-date in Tables 1-7 by the inclusion of the corresponding values for 1966 and by the re-calculation of the averages. In Fig. 1 Scottish total catches and those of salmon and of grilse during this period are compared graphically with the appropriate averages for 1952-1966. Apart from these additions to the catch statistics, the new material in this report consists of catch/unit effort statistics for Scottish commercial fisheries for the years 1952-1965 (the 1966 catches have been received only recently and have not yet been analysed fully).

Together with the numbers and weight of fish caught monthly, commercial netmen in Scotland make returns of (a) the maximum and minimum numbers of netting crews employed (for the net and coble fisheries) and (b) the maximum and minimum number of nets operated (for the fixed engine fisheries). Catch/unit effort values have therefore been calculated on the basis of catch/crew/month for net and coble fisheries and catch/net/month for fixed engine fisheries.

For the net and coble fishery, for each month, catch/crew/month has been obtained by adding the mean number of crews employed in each fishery district to give the total number of crews fishing during the month and dividing this value into the sum of their catches for the month. In addition, an overall value for catch/crew/month for the complete season has been obtained by summing the mean numbers of crews fishing each month to give the total number of crew months fished during the season and dividing this figure into the season's catch by net and coble. These calculations have been made for the combined catch of salmon and grilse and for salmon and grilse separately and the results are given in Tables 8, 9 and 10.

The statistics for the fixed engine fishery have been similarly treated, substituting mean number of nets for mean number of crews. However, in the returns received from the fishermen it is not always possible to distinguish between the catches made by the various types of fixed engine used and it has therefore been found necessary in calculating catch/unit effort, to use only fishery districts in which the catch is taken by bag nets, fly nets, jumper nets or stake nets or a combination of these four types, which have been assumed to be of equivalent size and efficiency. This has meant the exclusion of a small number of districts in which less common types of fixed engine are used and which, on average, account for about 15% of the total fixed engine catch. Details of the catch/unit effort for the fixed engine fishery, calculated on this basis, are given in Tables 11, 12 and 13.

As an indication of the variation in the amount of effort expended annually, the total numbers of crew/months and net/months recorded for each year are given in Table 14. There has been no particular trend in the figures for the net and coble fishery but the total amount of effort expended in the fixed engine fishery has decreased quite markedly over the last six years. This trend can be related to the recent closure of many of the less profitable netting stations because of rising operating costs.

Despite the limitation imposed by the use of mean values for the numbers of crews and numbers of nets operating during each month, which may not give a true indication of the average number in operation, these catch/unit effort statistics do show very similar trends to the straight catch figures and confirm that the above average or near average catches recorded in the last five years (Fig. 1) are due to a real increase in the stock, particularly of grilse, and not to an increase in effort.

It is not easy to make this comparison directly from the tables provided since they are in different units and therefore, to facilitate this comparison, the annual percentage differences from the 1952-1965 average have been prepared for the numerical catch and for the catch/unit effort by net and coble and by fixed engines. These are compared graphically for the combined catches of salmon and grilse and for salmon and grilse separately, in Figs. 2, 3 and 4.

Table 1 Annual Scottish Catches 1952-1966

| Year | Salmon | | | Grilse | | | Total | | |
|-----------------|---------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
| | No. | Wt (tons) | Av Wt (lb) | No. | Wt (tons) | Av Wt (lb) | No. | Wt (tons) | Av Wt (lb) |
| 1952 | 236,285 | 1163.0 | 11.0 | 151,157 | 325.3 | 4.8 | 387,442 | 1488.3 | 8.6 |
| 1953 | 211,935 | 980.4 | 10.4 | 141,782 | 339.1 | 5.3 | 353,717 | 1319.5 | 8.4 |
| 1954 | 256,401 | 1184.4 | 10.3 | 117,916 | 286.9 | 5.4 | 374,317 | 1471.3 | 8.8 |
| 1955 | 252,109 | 1100.6 | 9.8 | 136,015 | 302.7 | 5.0 | 388,124 | 1403.4 | 8.1 |
| 1956 | 200,425 | 928.9 | 10.4 | 117,275 | 261.7 | 5.0 | 317,700 | 1190.2 | 8.4 |
| 1957 | 217,572 | 939.0 | 9.7 | 196,974 | 452.2 | 5.1 | 414,546 | 1391.3 | 7.5 |
| 1958 | 224,820 | 1033.7 | 10.3 | 202,703 | 462.0 | 5.1 | 427,523 | 1495.7 | 7.8 |
| 1959 | 270,006 | 1224.5 | 10.2 | 115,962 | 270.0 | 5.2 | 385,968 | 1494.5 | 8.7 |
| 1960 | 201,753 | 945.1 | 10.5 | 184,631 | 468.3 | 5.7 | 386,384 | 1413.4 | 8.2 |
| 1961 | 179,926 | 807.0 | 10.1 | 156,257 | 369.6 | 5.3 | 336,183 | 1176.6 | 7.8 |
| 1962 | 213,436 | 999.2 | 10.5 | 280,826 | 712.9 | 5.7 | 494,262 | 1712.1 | 7.8 |
| 1963 | 267,280 | 1265.7 | 10.6 | 166,922 | 405.9 | 5.4 | 434,202 | 1671.5 | 8.6 |
| 1964 | 269,566 | 1196.7 | 9.9 | 286,462 | 686.5 | 5.4 | 556,028 | 1883.1 | 7.6 |
| 1965 | 219,999 | 1048.4 | 10.7 | 213,826 | 541.6 | 5.7 | 433,825 | 1590.1 | 8.2 |
| Average 1952-65 | 230,108 | 1058.3 | 10.3 | 176,336 | 420.3 | 5.3 | 406,444 | 1478.6 | 8.1 |
| 1966 | 227,707 | 1048.7 | 10.3 | 220,920 | 545.8 | 5.5 | 448,627 | 1594.5 | 8.0 |
| Average 1952-66 | 229,948 | 1057.7 | 10.3 | 179,308 | 428.7 | 5.4 | 409,257 | 1486.4 | 8.1 |

Table 2 Monthly Commercial Salmon Catches 1952-1966

| <u>Year</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Total</u> |
|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|--------------|
| 1952 | 26,850 | 24,971 | 34,392 | 41,506 | 36,139 | 25,953 | 9,608 | 983 | 200,902 |
| 1953 | 20,644 | 21,971 | 23,455 | 35,997 | 25,060 | 29,200 | 12,670 | 695 | 167,692 |
| 1954 | 17,729 | 33,602 | 43,406 | 37,401 | 29,490 | 30,742 | 9,886 | 637 | 202,393 |
| 1955 | 6,438 | 24,679 | 34,961 | 33,088 | 44,762 | 42,631 | 18,539 | 1,517 | 205,415 |
| 1956 | 5,714 | 21,521 | 19,904 | 27,570 | 34,818 | 31,442 | 9,354 | 728 | 151,051 |
| 1957 | 6,497 | 20,642 | 20,935 | 31,525 | 33,557 | 31,105 | 10,019 | 544 | 154,324 |
| 1958 | 6,528 | 16,623 | 21,053 | 33,782 | 31,103 | 37,114 | 15,836 | 758 | 162,797 |
| 1959 | 34,218 | 27,140 | 27,083 | 30,686 | 40,356 | 39,056 | 21,608 | 2,308 | 222,455 |
| 1960 | 5,892 | 18,017 | 15,277 | 28,403 | 26,532 | 34,397 | 17,626 | 2,338 | 148,482 |
| 1961 | 6,048 | 15,789 | 16,674 | 22,482 | 25,934 | 26,833 | 14,880 | 2,232 | 130,872 |
| 1962 | 5,370 | 10,931 | 9,946 | 22,058 | 31,247 | 43,750 | 25,057 | 2,919 | 151,278 |
| 1963 | 11,023 | 34,363 | 22,774 | 32,100 | 33,675 | 33,363 | 26,527 | 3,461 | 197,286 |
| 1964 | 9,934 | 13,171 | 13,233 | 23,744 | 35,804 | 57,678 | 43,213 | 5,453 | 202,230 |
| 1965 | 7,884 | 15,823 | 14,911 | 18,167 | 30,517 | 43,407 | 22,285 | 2,549 | 155,543 |
| <hr/> | | | | | | | | | |
| Average | | | | | | | | | |
| 1952-65 | 12,200 | 21,380 | 22,790 | 29,950 | 32,780 | 36,150 | 18,220 | 1,940 | 175,266 |
| 1966 | 1,931 | 13,479 | 15,620 | 18,905 | 24,952 | 45,469 | 36,245 | 4,554 | 164,155 |
| <hr/> | | | | | | | | | |
| Average | | | | | | | | | |
| 1952-66 | 11,713 | 20,848 | 22,275 | 29,161 | 32,263 | 36,743 | 19,410 | 2,112 | 174,525 |

Table 3 Monthly Commercial Grilse Catches 1952-1966

| <u>Year</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Total</u> |
|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|--------------|
| 1952 | | 1 | 32 | 1,060 | 39,458 | 94,502 | 9,846 | 192 | 145,091 |
| 1953 | | 5 | 14 | 583 | 18,098 | 96,622 | 19,728 | 459 | 135,509 |
| 1954 | 1 | - | 2 | 246 | 9,580 | 83,633 | 19,243 | 358 | 113,063 |
| 1955 | | 1 | 3 | 134 | 15,556 | 89,467 | 26,228 | 581 | 131,970 |
| 1956 | | - | 7 | 372 | 13,954 | 75,370 | 19,315 | 282 | 109,300 |
| 1957 | 33 | - | 13 | 677 | 32,339 | 116,231 | 37,378 | 307 | 186,978 |
| 1958 | | 3 | 11 | 411 | 14,346 | 129,797 | 47,374 | 646 | 192,588 |
| 1959 | | - | 6 | 311 | 5,841 | 67,847 | 37,623 | 890 | 112,518 |
| 1960 | | 1 | 22 | 701 | 12,116 | 111,737 | 47,088 | 1,766 | 173,431 |
| 1961 | 13 | 3 | 83 | 344 | 11,538 | 96,198 | 40,476 | 1,372 | 150,027 |
| 1962 | 11 | 2 | 9 | 583 | 20,413 | 177,165 | 70,269 | 1,883 | 270,335 |
| 1963 | | 26 | 55 | 207 | 5,471 | 91,218 | 58,908 | 1,790 | 157,675 |
| 1964 | 913 | 914 | 922 | 1,255 | 13,548 | 140,377 | 109,222 | 5,084 | 272,235 |
| 1965 | 9 | - | 7 | 309 | 12,475 | 142,857 | 47,623 | 1,835 | 205,115 |
| <hr/> | | | | | | | | | |
| Average | | | | | | | | | |
| 1952-65 | 707 | 68 | 85 | 514 | 16,080 | 108,150 | 42,200 | 1,250 | 168,275 |
| 1966 | 135 | - | 3 | 169 | 4,650 | 115,253 | 89,312 | 3,024 | 212,546 |
| <hr/> | | | | | | | | | |
| Average | | | | | | | | | |
| 1952-66 | 74 | 64 | 79 | 491 | 15,292 | 108,552 | 45,309 | 1,365 | 171,225 |

Table 4 Annual Catches 1952-1966

East Coast (Berwick-Kinnaird Head)

| <u>Year</u> | <u>Salmon</u> | <u>Grilse</u> | <u>Total</u> |
|-----------------|---------------|---------------|--------------|
| 1952 | 147,069 | 66,470 | 213,539 |
| 1953 | 127,456 | 61,933 | 189,389 |
| 1954 | 157,580 | 51,056 | 208,636 |
| 1955 | 139,752 | 46,864 | 186,616 |
| 1956 | 114,612 | 47,059 | 161,671 |
| 1957 | 126,143 | 74,151 | 200,294 |
| 1958 | 121,645 | 81,164 | 202,809 |
| 1959 | 182,943 | 54,539 | 237,482 |
| 1960 | 119,297 | 82,083 | 201,380 |
| 1961 | 107,143 | 76,759 | 183,902 |
| 1962 | 118,170 | 147,764 | 265,934 |
| 1963 | 168,108 | 73,298 | 241,406 |
| 1964 | 151,655 | 134,471 | 286,126 |
| 1965 | 126,507 | 97,720 | 224,227 |
| <hr/> | | | |
| Average 1952-65 | 136,291 | 78,238 | 214,529 |
| 1966 | 140,176 | 109,525 | 249,701 |
| <hr/> | | | |
| Average 1952-66 | 136,550 | 80,324 | 216,874 |

Table 5 Annual Catches 1952-1966

Moray Firth and North Coasts (Kinnaird Head-Kyle of Tongue)

| <u>Year</u> | <u>Salmon</u> | <u>Grilse</u> | <u>Total</u> |
|-----------------|---------------|---------------|--------------|
| 1952 | 64,742 | 66,877 | 131,619 |
| 1953 | 60,378 | 55,889 | 116,267 |
| 1954 | 70,737 | 42,834 | 113,571 |
| 1955 | 80,459 | 64,874 | 145,333 |
| 1956 | 59,493 | 48,729 | 108,222 |
| 1957 | 57,860 | 77,404 | 135,264 |
| 1958 | 66,313 | 66,948 | 133,261 |
| 1959 | 55,826 | 39,196 | 95,022 |
| 1960 | 54,565 | 64,098 | 118,663 |
| 1961 | 47,584 | 55,049 | 102,633 |
| 1962 | 56,333 | 73,690 | 130,023 |
| 1963 | 62,138 | 47,142 | 109,280 |
| 1964 | 73,914 | 88,707 | 162,621 |
| 1965 | 57,765 | 66,222 | 123,987 |
| <hr/> | | | |
| Average 1952-65 | 62,008 | 61,261 | 123,269 |
| 1966 | 51,446 | 64,047 | 115,493 |
| <hr/> | | | |
| Average 1952-66 | 61,304 | 61,447 | 122,751 |

Table 6 Annual Catches 1952-66

West Coast and Islands (Kyle of Tongue-Loch Fyne)

| <u>Year</u> | <u>Salmon</u> | <u>Grilse</u> | <u>Total</u> |
|-----------------|---------------|---------------|--------------|
| 1952 | 8,289 | 8,472 | 16,761 |
| 1953 | 10,405 | 16,033 | 26,438 |
| 1954 | 10,939 | 16,635 | 27,574 |
| 1955 | 11,002 | 15,930 | 26,932 |
| 1956 | 9,940 | 12,599 | 22,539 |
| 1957 | 12,632 | 29,325 | 41,957 |
| 1958 | 14,516 | 27,205 | 41,721 |
| 1959 | 8,352 | 9,334 | 17,686 |
| 1960 | 7,482 | 18,294 | 25,776 |
| 1961 | 7,468 | 12,762 | 20,230 |
| 1962 | 13,796 | 24,104 | 37,900 |
| 1963 | 11,179 | 22,791 | 33,970 |
| 1964 | 17,354 | 31,237 | 48,591 |
| 1965 | 13,300 | 24,003 | 37,303 |
| <hr/> | | | |
| Average 1952-65 | 11,190 | 19,194 | 30,384 |
| 1966 | 10,540 | 19,589 | 30,129 |
| <hr/> | | | |
| Average 1952-66 | 11,146 | 19,221 | 30,367 |

Table 7 Annual Catches 1952-1966

Southwest and Solway Coasts (Loch Fyne-Solway)

| <u>Year</u> | <u>Salmon</u> | <u>Grilse</u> | <u>Total</u> |
|-----------------|---------------|---------------|--------------|
| 1952 | 12,072 | 5,356 | 17,428 |
| 1953 | 10,765 | 4,740 | 15,505 |
| 1954 | 13,274 | 6,386 | 19,660 |
| 1955 | 15,192 | 8,272 | 23,464 |
| 1956 | 13,515 | 8,482 | 21,997 |
| 1957 | 16,032 | 15,999 | 32,031 |
| 1958 | 17,962 | 18,826 | 36,788 |
| 1959 | 20,731 | 11,045 | 31,776 |
| 1960 | 16,529 | 17,149 | 33,678 |
| 1961 | 15,316 | 10,435 | 25,751 |
| 1962 | 20,532 | 29,739 | 50,271 |
| 1963 | 22,234 | 20,188 | 42,422 |
| 1964 | 21,253 | 27,521 | 48,774 |
| 1965 | 19,202 | 23,480 | 42,682 |
| <hr/> | | | |
| Average 1952-65 | 16,758 | 14,830 | 31,588 |
| 1966 | 22,578 | 24,488 | 47,066 |
| <hr/> | | | |
| Average 1952-66 | 17,146 | 15,473 | 32,620 |

Table 8 Net and Coble - Catch/Unit/Effort - Salmon + Grilse

| <u>Year</u> | <u>Catch/Crew/Month</u> | | | | | | | | |
|---------------------------|-------------------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|----------------|
| | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Overall</u> |
| 1952 | 170.0 | 162.5 | 121.0 | 108.3 | 177.4 | 286.0 | 60.1 | 17.8 | 152.4 |
| 1953 | 171.6 | 101.1 | 88.7 | 84.0 | 57.6 | 234.3 | 82.8 | 12.5 | 118.5 |
| 1954 | 194.7 | 271.5 | 194.7 | 107.5 | 95.7 | 236.9 | 99.7 | 12.8 | 156.8 |
| 1955 | 72.4 | 177.8 | 180.6 | 103.7 | 149.5 | 266.2 | 130.6 | 30.5 | 159.6 |
| 1956 | 52.3 | 182.0 | 93.0 | 66.4 | 96.7 | 214.4 | 77.6 | 17.8 | 114.7 |
| 1957 | 76.5 | 220.8 | 133.5 | 109.8 | 147.1 | 328.4 | 122.7 | 11.8 | 169.2 |
| 1958 | 84.0 | 158.8 | 135.0 | 104.5 | 104.9 | 312.4 | 136.9 | 20.7 | 156.2 |
| 1959 | 286.2 | 218.8 | 130.3 | 85.2 | 105.5 | 219.0 | 180.0 | 44.7 | 158.6 |
| 1960 | 64.9 | 157.5 | 77.9 | 87.8 | 90.0 | 340.2 | 197.0 | 60.5 | 161.5 |
| 1961 | 65.6 | 123.0 | 82.1 | 61.4 | 67.0 | 257.5 | 139.0 | 48.7 | 122.3 |
| 1962 | 64.2 | 76.6 | 59.3 | 75.5 | 126.8 | 509.6 | 270.9 | 65.0 | 218.5 |
| 1963 | 60.6 | 319.0 | 116.6 | 115.0 | 100.0 | 246.4 | 229.8 | 65.2 | 171.6 |
| 1964 | 89.9 | 102.0 | 59.4 | 63.5 | 96.3 | 420.0 | 397.5 | 116.1 | 212.4 |
| 1965 | 81.3 | 136.0 | 80.0 | 70.4 | 95.4 | 425.0 | 197.8 | 65.2 | 183.0 |
| Average 1952-65 | 109.6 | 172.0 | 110.9 | 88.8 | 107.8 | 306.9 | 166.0 | 42.1 | 161.1 |

Table 9 Net and Coble - Catch/Unit/Effort - Salmon

| <u>Year</u> | <u>Catch/Crew/Month</u> | | | | | | | | |
|---------------------------|-------------------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|----------------|
| | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Overall</u> |
| 1952 | 170.0 | 162.5 | 120.8 | 105.9 | 93.3 | 73.9 | 33.6 | 15.2 | 92.1 |
| 1953 | 171.6 | 101.1 | 88.7 | 83.5 | 54.8 | 65.1 | 29.5 | 7.8 | 69.6 |
| 1954 | 194.7 | 271.5 | 194.7 | 106.9 | 78.1 | 74.7 | 38.5 | 8.7 | 111.0 |
| 1955 | 72.4 | 177.8 | 180.6 | 103.6 | 120.2 | 107.0 | 65.5 | 23.9 | 108.0 |
| 1956 | 52.3 | 182.0 | 93.0 | 65.6 | 70.4 | 71.3 | 28.2 | 12.8 | 70.0 |
| 1957 | 76.0 | 220.8 | 133.5 | 108.5 | 82.1 | 84.0 | 34.1 | 8.8 | 89.0 |
| 1958 | 84.0 | 158.8 | 135.0 | 103.7 | 81.8 | 83.1 | 40.1 | 11.2 | 84.4 |
| 1959 | 286.2 | 218.8 | 130.3 | 84.8 | 96.9 | 88.5 | 68.0 | 33.8 | 111.8 |
| 1960 | 64.9 | 157.5 | 77.8 | 87.2 | 67.1 | 104.1 | 65.3 | 38.0 | 84.1 |
| 1961 | 65.6 | 123.0 | 81.7 | 60.8 | 53.5 | 61.7 | 40.9 | 32.5 | 60.9 |
| 1962 | 64.2 | 76.6 | 59.3 | 72.5 | 80.4 | 118.8 | 82.9 | 43.3 | 83.6 |
| 1963 | 60.6 | 319.0 | 116.6 | 114.9 | 93.8 | 88.6 | 89.8 | 49.7 | 109.3 |
| 1964 | 89.9 | 102.0 | 59.4 | 62.8 | 77.1 | 144.0 | 127.5 | 66.5 | 98.6 |
| 1965 | 81.3 | 136.0 | 80.0 | 70.0 | 75.0 | 108.0 | 72.8 | 38.4 | 84.0 |
| Average 1952-65 | 109.6 | 172.0 | 110.8 | 87.9 | 80.3 | 90.9 | 58.3 | 27.9 | 89.7 |

Table 10 Net and Coble - Catch/Unit/Effort - Grilse

| <u>Catch/Crew/Month</u> | | | | | | | | | |
|-------------------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|----------------|
| <u>Year</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Overall</u> |
| 1952 | - | - | 0.2 | 2.4 | 84.1 | 212.1 | 26.5 | 2.6 | 60.3 |
| 1953 | - | - | - | 0.5 | 2.8 | 169.2 | 53.3 | 4.7 | 48.9 |
| 1954 | - | - | - | 0.6 | 17.6 | 162.2 | 60.7 | 4.1 | 45.8 |
| 1955 | - | - | - | 0.1 | 29.3 | 159.2 | 65.1 | 6.6 | 51.6 |
| 1956 | - | - | - | 0.8 | 26.3 | 143.1 | 49.4 | 5.0 | 44.7 |
| 1957 | 0.5 | - | - | 1.3 | 65.0 | 244.4 | 88.6 | 3.0 | 80.2 |
| 1958 | - | - | - | 0.8 | 23.1 | 229.3 | 96.8 | 9.5 | 71.8 |
| 1959 | - | - | - | 0.4 | 8.6 | 130.5 | 112.0 | 10.9 | 46.8 |
| 1960 | - | - | 0.1 | 0.6 | 22.9 | 236.1 | 132.6 | 22.5 | 77.4 |
| 1961 | - | - | 0.4 | 0.6 | 13.5 | 195.8 | 98.1 | 16.2 | 61.4 |
| 1962 | - | - | - | 3.0 | 46.4 | 390.8 | 188.0 | 21.7 | 134.9 |
| 1963 | - | - | - | 0.1 | 6.2 | 157.8 | 140.0 | 15.5 | 62.3 |
| 1964 | - | - | - | 0.7 | 19.2 | 276.0 | 270.0 | 49.6 | 113.8 |
| 1965 | - | - | - | 0.4 | 20.4 | 317.0 | 125.0 | 26.8 | 99.0 |
| Average 1952-65 | - | - | - | 0.9 | 27.5 | 216.0 | 107.6 | 14.2 | 71.4 |

Table 11 Fixed Engines - Catch/Unit/Effort - Salmon + Grilse

| <u>Catch/Net/Month</u> | | | | | | | | | |
|------------------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|----------------|
| <u>Year</u> | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Overall</u> |
| 1952 | 10.0 | 12.2 | 23.4 | 26.0 | 38.4 | 61.7 | 10.8 | 2.7 | 29.9 |
| 1953 | 11.6 | 20.2 | 16.4 | 24.9 | 25.1 | 72.5 | 17.8 | 8.2 | 28.5 |
| 1954 | 4.4 | 12.5 | 29.2 | 21.8 | 21.4 | 63.5 | 15.4 | 4.3 | 27.8 |
| 1955 | 1.4 | 14.4 | 20.2 | 20.2 | 33.8 | 74.0 | 25.5 | 4.2 | 32.6 |
| 1956 | 6.1 | 12.8 | 13.4 | 18.9 | 29.3 | 54.5 | 17.1 | 2.5 | 25.4 |
| 1957 | 2.0 | 7.7 | 10.8 | 15.7 | 34.7 | 77.7 | 33.5 | 2.2 | 31.5 |
| 1958 | 2.8 | 10.2 | 12.1 | 22.7 | 25.6 | 95.0 | 39.7 | 1.8 | 36.1 |
| 1959 | 40.9 | 19.6 | 18.1 | 20.8 | 29.0 | 66.1 | 30.7 | 8.2 | 33.2 |
| 1960 | 4.4 | 10.0 | 12.7 | 21.9 | 24.3 | 81.2 | 34.4 | 8.2 | 33.1 |
| 1961 | 6.7 | 14.3 | 12.8 | 15.3 | 25.5 | 68.8 | 32.5 | 5.9 | 29.5 |
| 1962 | 6.5 | 13.9 | 7.3 | 16.9 | 35.7 | 119.7 | 51.7 | 10.6 | 43.6 |
| 1963 | 39.7 | 30.9 | 23.2 | 25.5 | 25.1 | 84.0 | 47.5 | 13.7 | 41.7 |
| 1964 | 16.6 | 14.0 | 13.3 | 22.7 | 39.3 | 130.7 | 99.5 | 17.7 | 58.8 |
| 1965 | 11.1 | 18.4 | 16.6 | 16.0 | 34.1 | 115.4 | 46.0 | 6.6 | 44.4 |
| Average 1952-65 | 11.7 | 15.1 | 16.4 | 20.6 | 30.1 | 83.2 | 35.9 | 6.9 | 35.4 |

Table 12 Fixed Engines - Catch/Unit/Effort - Salmon

| <u>Year</u> | <u>Catch/Net/Month</u> | | | | | | | | |
|---------------------------|------------------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|----------------|
| | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Overall</u> |
| 1952 | 10.0 | 12.2 | 23.4 | 25.4 | 17.2 | 10.6 | 4.2 | 2.2 | 15.2 |
| 1953 | 11.6 | 20.2 | 16.4 | 24.6 | 13.3 | 14.6 | 5.8 | 4.5 | 14.0 |
| 1954 | 4.4 | 12.5 | 29.2 | 21.6 | 15.1 | 14.6 | 4.0 | 3.1 | 15.2 |
| 1955 | 1.4 | 14.4 | 20.2 | 20.1 | 23.4 | 18.6 | 7.2 | 3.7 | 16.9 |
| 1956 | 6.1 | 12.8 | 13.4 | 18.6 | 20.5 | 13.7 | 4.7 | 2.2 | 13.9 |
| 1957 | 2.0 | 7.7 | 10.8 | 15.4 | 16.6 | 13.1 | 4.6 | 1.2 | 11.2 |
| 1958 | 2.8 | 10.2 | 12.1 | 21.8 | 15.4 | 17.8 | 8.3 | 1.0 | 14.0 |
| 1959 | 40.9 | 19.6 | 18.1 | 20.6 | 24.0 | 21.1 | 9.9 | 4.9 | 20.4 |
| 1960 | 4.4 | 10.0 | 12.7 | 21.0 | 15.1 | 12.9 | 6.2 | 3.8 | 12.8 |
| 1961 | 6.7 | 14.3 | 12.8 | 15.0 | 15.8 | 12.4 | 6.9 | 1.8 | 12.3 |
| 1962 | 6.4 | 13.9 | 7.3 | 16.7 | 20.0 | 17.5 | 9.6 | 5.1 | 14.0 |
| 1963 | 39.7 | 30.8 | 23.1 | 25.2 | 19.3 | 15.6 | 9.1 | 7.0 | 19.9 |
| 1964 | 16.6 | 14.0 | 13.3 | 22.4 | 27.6 | 32.2 | 23.8 | 7.4 | 23.2 |
| 1965 | 11.1 | 18.4 | 16.6 | 15.6 | 22.0 | 24.2 | 11.2 | 3.7 | 17.8 |
| <u>Average</u> 1952-65 | 11.7 | 15.1 | 16.4 | 19.6 | 19.0 | 17.1 | 8.2 | 3.8 | 15.8 |

Table 13 Fixed Engines - Catch/Unit/Effort - Grilse

| <u>Year</u> | <u>Catch/Net/Month</u> | | | | | | | | |
|---------------------------|------------------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|----------------|
| | <u>Feb.</u> | <u>Mar.</u> | <u>Apr.</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Overall</u> |
| 1952 | - | - | - | 0.6 | 21.2 | 51.1 | 6.6 | 0.5 | 14.7 |
| 1953 | - | - | - | 0.3 | 11.8 | 57.9 | 12.0 | 3.7 | 14.5 |
| 1954 | - | - | - | 0.2 | 6.3 | 48.9 | 11.4 | 1.2 | 12.6 |
| 1955 | - | - | - | 0.1 | 10.4 | 55.4 | 18.3 | 0.5 | 15.7 |
| 1956 | - | - | - | 0.3 | 8.8 | 40.8 | 12.4 | 0.3 | 11.5 |
| 1957 | - | - | - | 0.3 | 18.1 | 64.6 | 28.9 | 1.0 | 20.4 |
| 1958 | - | - | - | 0.3 | 10.2 | 77.2 | 31.4 | 0.8 | 22.1 |
| 1959 | - | - | - | 0.2 | 5.0 | 45.0 | 20.8 | 3.3 | 12.8 |
| 1960 | - | - | - | 0.9 | 9.2 | 68.3 | 28.2 | 4.4 | 20.3 |
| 1961 | - | - | - | 0.3 | 9.7 | 56.4 | 25.6 | 4.1 | 17.2 |
| 1962 | 0.1 | - | - | 0.2 | 15.7 | 102.2 | 42.1 | 5.5 | 29.6 |
| 1963 | - | 0.1 | 0.1 | 0.3 | 5.8 | 68.4 | 38.4 | 6.7 | 21.8 |
| 1964 | - | - | - | 0.3 | 11.7 | 98.5 | 75.7 | 10.3 | 35.6 |
| 1965 | - | - | - | 0.4 | 12.1 | 91.2 | 34.8 | 2.9 | 26.6 |
| <u>Average</u> 1952-65 | - | - | - | 0.3 | 11.1 | 66.1 | 27.6 | 3.2 | 19.6 |

FIG.1 ANNUAL SCOTTISH CATCHES 1952-1966

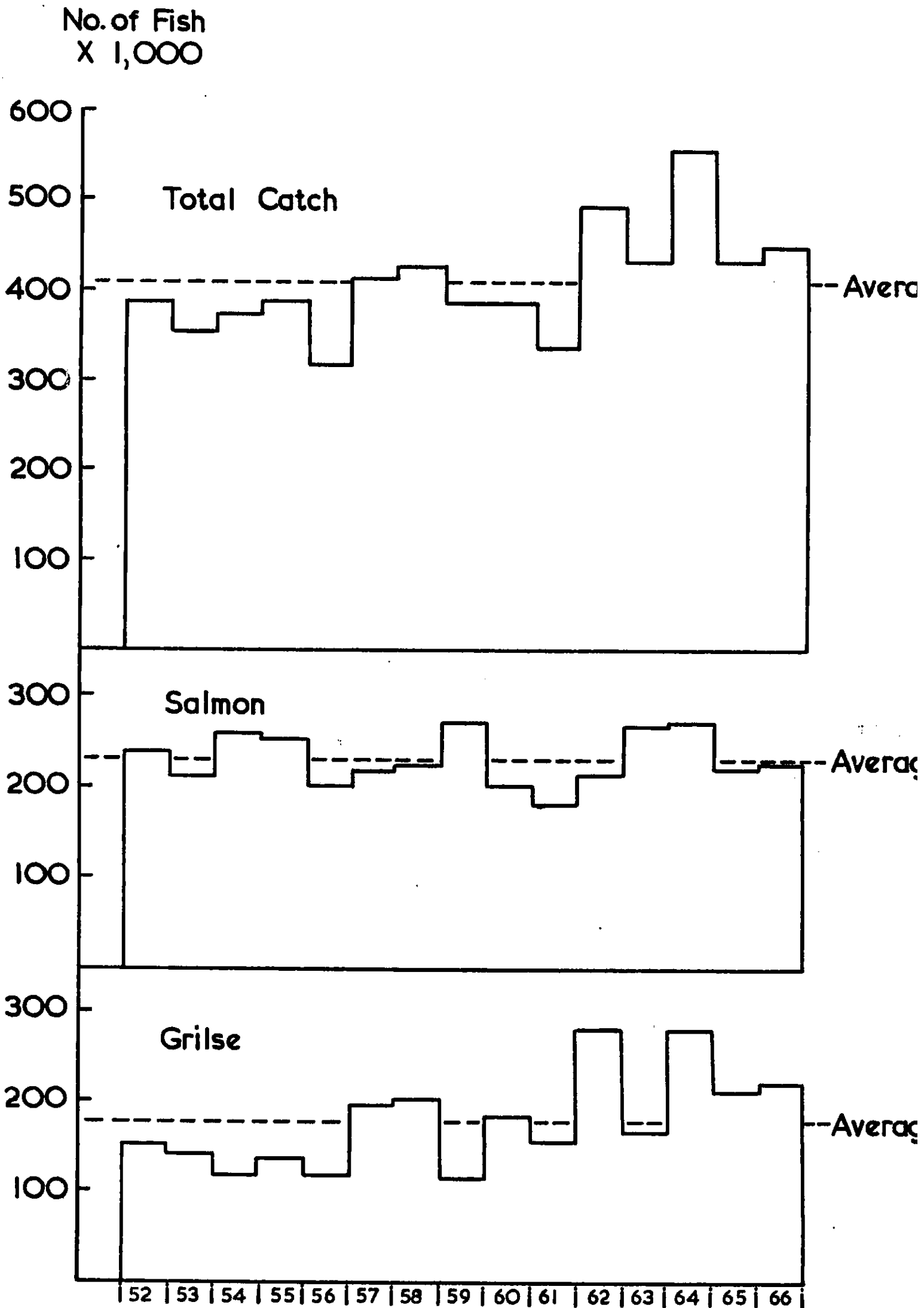


Table 11. Total Annual Effort

| <u>Year</u> | <u>Net and Coble Total No. of Crew/months</u> | <u>Fixed Engines Total No. of Net/months</u> |
|-------------|---|--|
| 1952 | 1015 | 4958 |
| 1953 | 1055 | 4919 |
| 1954 | 1022 | 4532 |
| 1955 | 1001 | 4384 |
| 1956 | 1031 | 5188 |
| 1957 | 958 | 4577 |
| 1958 | 1028 | 4907 |
| 1959 | 1107 | 4354 |
| 1960 | 1034 | 4147 |
| 1961 | 1189 | 4163 |
| 1962 | 1086 | 3688 |
| 1963 | 989 | 3800 |
| 1964 | 1017 | 3969 |
| 1965 | 998 | 3593 |

FIG. 3 ANNUAL PERCENTAGE DIFFERENCE FROM 1952-1965 AVERAGE — SALMON

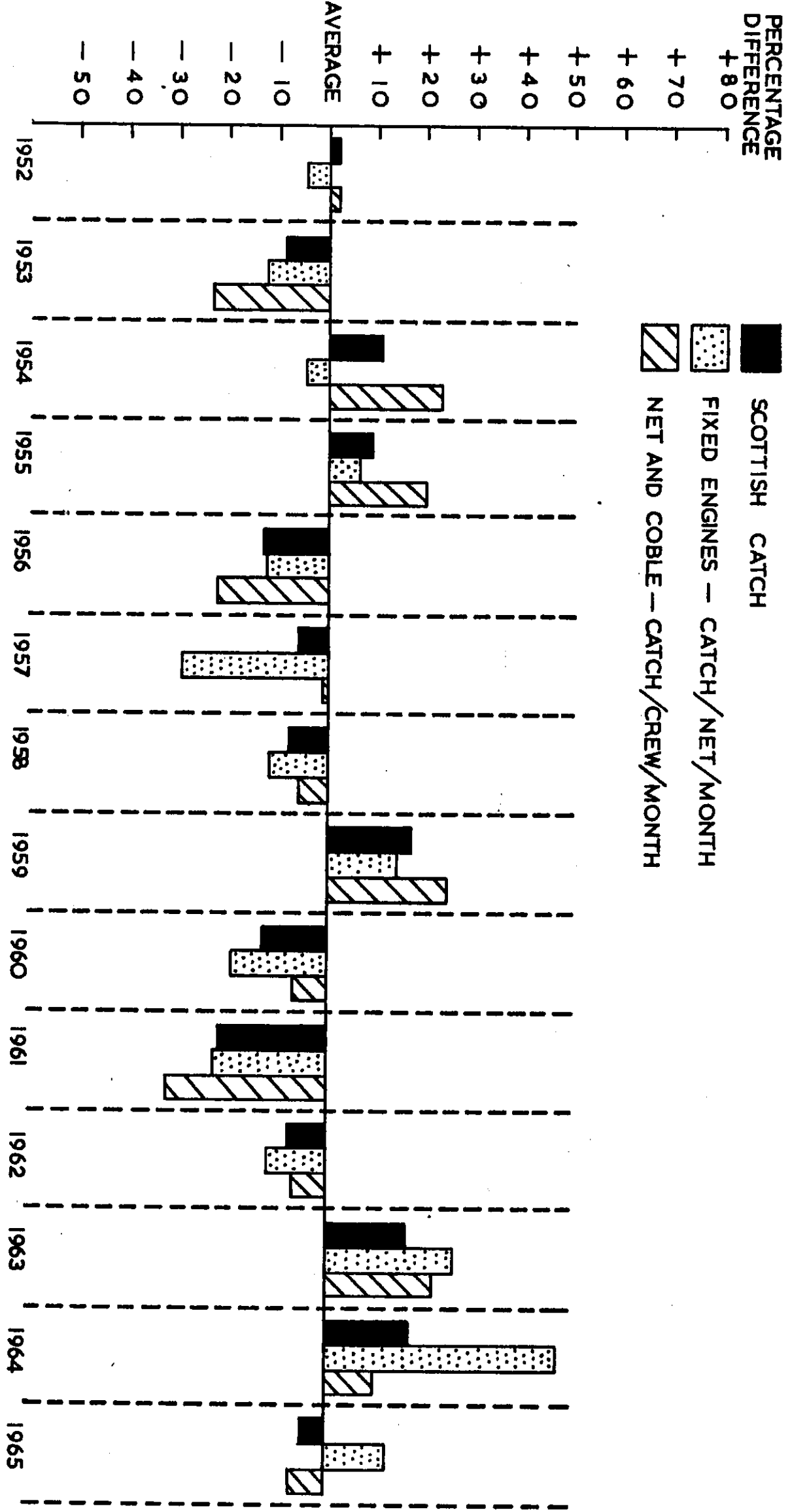


FIG. 2 ANNUAL PERCENTAGE DIFFERENCE FROM 1952-1965

AVERAGE - SALMON+GRILSE

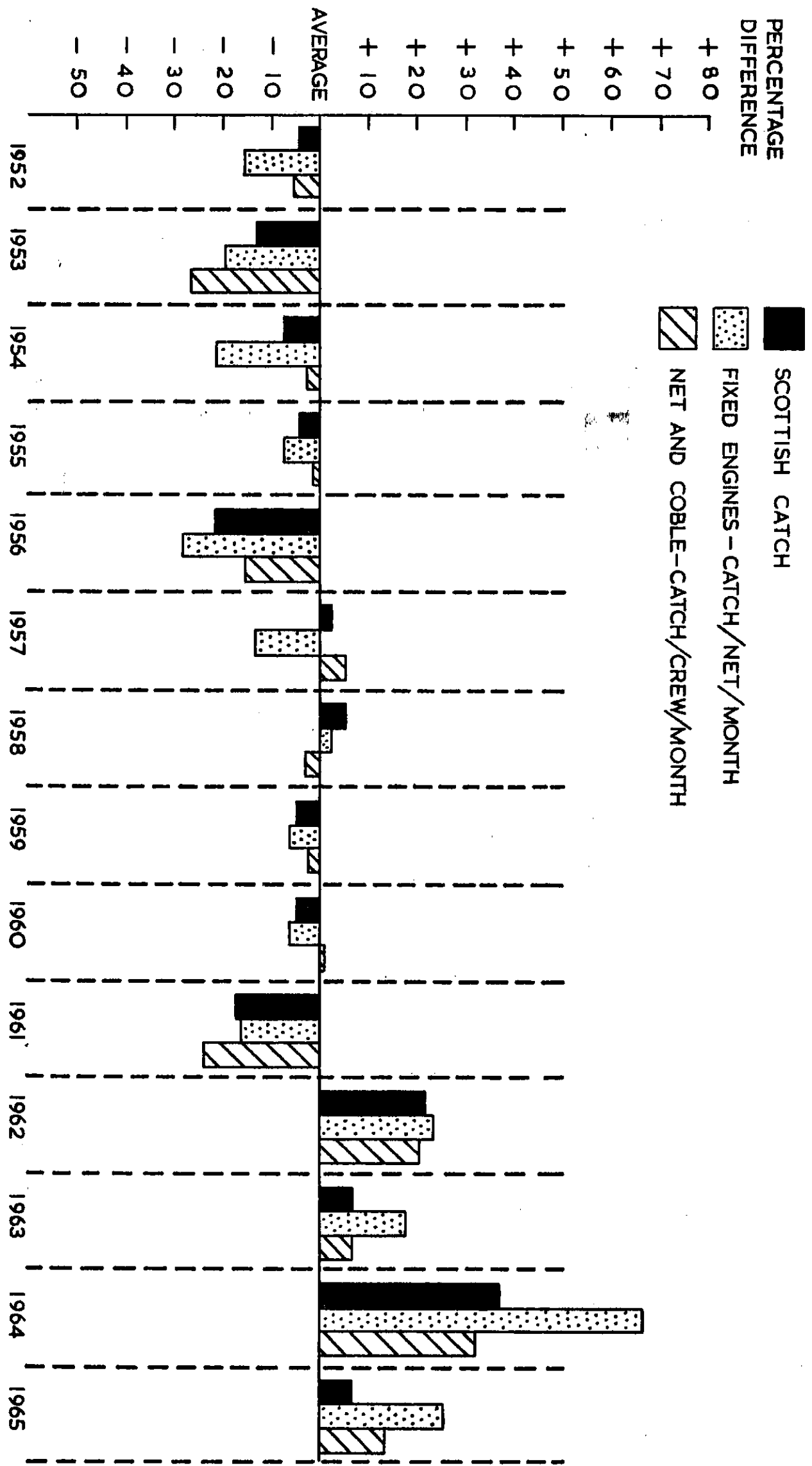


FIG. 4 ANNUAL PERCENTAGE DIFFERENCE FROM 1952-1965 AVERAGE — GRILSE

