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Scottish Salmon Catch Statistics

by

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In this, the third report on Scottish catch statistics, no new types of information have been provided but the 1967 values have been added to Tables 1-7 and new averages covering the period 1952-1967 calculated. Similarly, the data on catch/unit effort (Tables 8-14), first submitted in last year's report (ICNAF Res. Doc. 67/60), has been brought up-to-date by the inclusion of the appropriate values for both 1966 and 1967.

The total catch in 1967 (Table 1) was the highest recorded since 1952, when detailed returns of catches were first made, mainly due to the exceptionally high numbers of grilse caught, since the salmon catch, although above average, was only the fourth highest recorded. The overall catch/unit effort values, given in Tables 9, 10, 12 and 13, indicate that, for both salmon and grilse, these above average values were due to real increases in abundance reflected in increased catch/unit effort and not to an increase in effort, the total effort expended in 1967 being only average for net and coble fisheries and the lowest so far recorded, for fixed engine fisheries (Table 14).

The marked trend towards smaller spring catches, which began before the Greenland fishery could have had any significant effect, has continued (Table 2). The overall catch of salmon for the four months February to May in 1967 represented only about 50% of the average catch for the period 1952-1967, the individual values for February, March and May being the lowest so far recorded, while that for April was only fractionally better than the lowest value recorded (in 1952). On the other hand, the overall salmon catch from June to September was 66% higher than average and the catch/unit effort figures for the same period were correspondingly high, indicating that what is really happening is a change in the timing of the return to home waters of fish which have spent two winters in the sea.

Steps are being taken this year to obtain more accurate information on catch/unit effort, on a daily basis, from some of the most important Scottish fisheries and it is hoped that a comparison of catch/unit effort calculated from this data with that calculated on a monthly basis, as described in last year's report, will confirm the value of the latter.

Table 1
Annual Scottish Catches 1952-1967

<u>Year</u>	<u>Salmon</u>		<u>Grilse</u>		<u>Total</u>	
	<u>No.</u>	<u>Wt (tons)</u>	<u>No.</u>	<u>Wt (tons)</u>	<u>Wt (tons)</u>	<u>Av Wt (lb)</u>
1952	236,255	1163.0	151,157	325.3	1488.3	8.6
1953	211,935	930.4	141,782	339.1	1319.5	8.4
1954	256,401	1184.4	117,916	286.9	1471.3	8.8
1955	252,109	1190.6	136,015	302.7	1403.4	8.1
1956	200,425	928.2	117,275	261.7	1190.2	8.4
1957	217,572	939.0	196,974	452.2	1391.3	7.5
1958	224,820	1253.7	202,703	462.0	1495.7	7.8
1959	270,066	1224.5	115,962	270.0	1494.5	8.7
1960	201,753	945.1	184,631	468.3	1413.4	8.2
1961	179,926	807.2	156,257	369.6	1176.6	7.8
1962	213,436	999.2	280,826	712.9	1712.1	7.3
1963	267,280	1265.7	166,922	405.9	1671.5	8.6
1964	269,566	1196.7	286,462	686.5	1883.1	7.6
1965	219,999	1048.4	213,826	541.6	1590.1	8.2
1966	227,707	1048.7	220,920	545.8	1594.5	8.0
1967	261,040	1222.9	340,366	867.6	2090.5	7.8
<u>Av. 1952-67</u>	<u>251,891</u>	<u>1065.0</u>	<u>189,375</u>	<u>456.1</u>	<u>1524.1</u>	<u>8.1</u>

Table 2 Monthly Commercial Salmon Catches 1952-1967

<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	34,892	41,506	36,139	25,953	9,608	983	200,902
1953	20,644	21,971	23,455	35,997	25,060	29,200	10,670	695	167,692
1954	17,729	33,602	43,406	37,401	29,490	30,742	9,886	637	202,893
1955	6,438	24,679	34,961	33,088	44,762	41,631	18,339	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	154,824
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	197,236
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
1966	4,931	13,479	15,620	18,905	24,952	45,469	36,245	4,554	164,155
1967	4,755	10,809	10,912	14,372	37,097	65,541	47,984	6,736	198,206
<u>Average</u> 1952-67	11,278	20,221	21,565	28,237	32,566	38,543	21,196	2,401	176,005

Table 3 Monthly Commercial Grilse Catches 1952-1967

<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	8		7	309	12,475	142,857	47,623	1,835	205,115
1966	135		3	169	4,650	115,253	89,312	3,024	212,546
1967			8	300	26,625	195,426	100,019	3,588	325,966
<u>Average</u> 1952-67	70	60	75	479	16,000	113,931	48,728	1,504	180,397

Table 4 Annual Catches 1952-1967

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
1966	140,176	109,525	249,701
1967	149,502	166,126	315,628
<u>Average</u> 1952-67	137,360	85,686	223,046

Table 5

Annual Catches 1952-1967

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	64,374	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
1966	51,446	64,047	115,493
1967	68,187	109,249	177,436
Average 1952-67	61,734	64,435	126,169

Table 6

Annual Catches 1952-1967

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
1966	10,540	19,589	30,129
1967	17,907	29,301	47,208
Average 1952-67	11,569	19,851	31,420

Table 7

Annual Catches 1952-1967

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	10,756	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
1966	22,578	24,488	47,066
1967	22,913	33,218	56,131
Average 1952-67	17,506	16,583	34,089

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

Year	<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	89.8	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	64.0	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	216.5
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
1966	53.4	130.0	113.7	70.5	78.1	342.5	359.0	130.4	199.0
1967	67.1	144.5	82.2	76.1	164.7	607.8	469.6	201.9	298.9
Average 1952-67	103.5	168.0	109.3	86.8	109.0	328.0	197.0	57.6	172.0

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

Year	<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	40.4	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
1966	53.4	130.0	113.3	70.0	70.0	102.5	119.0	82.7	95.0
1967	67.1	144.5	82.2	75.3	109.8	171.8	174.6	133.0	130.2
Average 1952-67	103.2	168.0	109.1	86.0	82.5	96.6	69.4	37.9	92.5

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

Year	<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	-	-	0.2	2.4	19.1	212.1	96.5	2.6	60.3
1953	-	-	-	0.8	2.8	169.2	43.3	4.7	48.9
1954	-	-	-	0.6	17.6	167.2	60.7	4.1	45.8
1955	-	-	-	0.1	39.3	159.2	65.1	6.6	51.6
1956	-	-	-	0.6	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	-	-	-	0.0	46.4	390.8	186.0	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
1966	-	-	0.4	0.5	8.1	240.0	240.0	47.7	104.0
1967	-	-	-	0.8	54.9	436.0	295.0	68.9	168.7
Average 1952-67	-	-	-	0.8	28.0	251.0	127.5	19.7	79.4

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

<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
1966	9.4	14.6	15.9	13.5	22.6	121.6	80.1	9.3	49.8
1967	2.4	7.4	10.4	10.8	53.2	180.9	92.9	11.8	71.5
Average 1952-67	11.0	14.6	16.0	19.6	31.1	91.7	42.2	7.4	38.6

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

<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	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	37.	17.8
1966	9.4	14.6	15.8	13.5	19.0	32.3	18.1	3.4	19.4
1967	2.4	7.4	10.4	10.4	26.3	39.2	22.3	7.2	21.6
Average 1952-67	11.0	14.6	16.0	18.6	19.4	19.4	9.7	3.9	16.4

Table 13

Fixed Engines - Catch/Unit/Effort - Grilse.

Catch/Net/Month

<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	-	-	-	0.6	21.2	51.1	6.6	0.5	14.7
1953	-	-	-	9.3	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
1966	-	-	0.1	-	3.6	89.3	62.0	5.9	30.4
1967	-	-	-	0.4	26.9	141.7	70.6	4.6	49.9
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Average 1952-67	-	-	-	0.3	11.6	72.3	32.5	3.5	22.2

Table 14

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
1966	917	3490
1967	1023	3014