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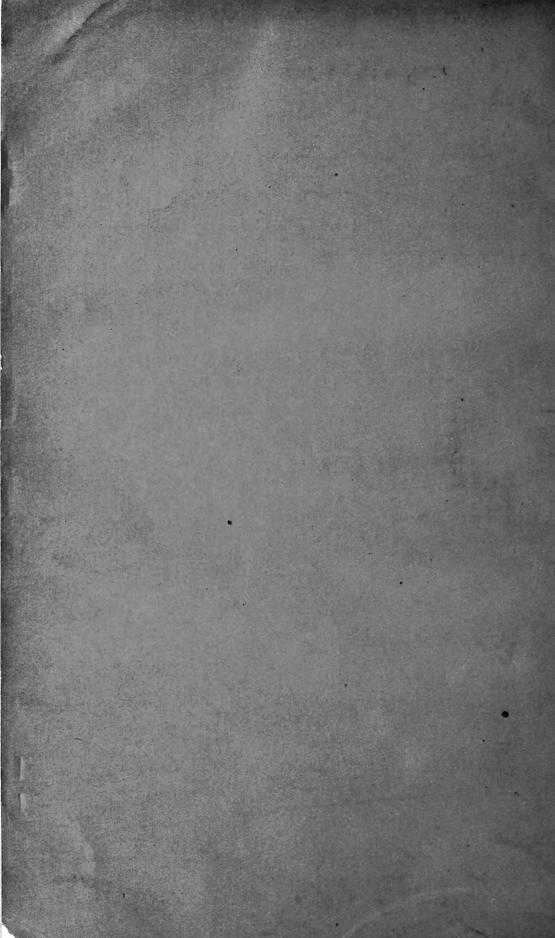


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ANNUAL REPORTORS

OF THE

FISHERY BOARD FOR SCOTLAND

Being for the Year 1921.

Presented to Parliament by Command of His Majesty.



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FISHERY BOARD FOR SCOTLAND,

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FORTIETH ANNUAL REPORT.

TO THE RIGHT HONOURABLE ROBERT MUNRO, K.C., M.P.,

His Majesty's Secretary for Scotland.

FISHERY BOARD FOR SCOTLAND, EDINBURGH, 1st May 1922.

Sir,—

In terms of the Act 45 and 46 Vict., c. 78, we, the Fishery Board for Scotland, have the honour to present this, our Fortieth Annual Report, being for the year 1921:—

CHAPTER I.

INTRODUCTION.

We regret to have to record that the year 1921 was again one of acute depression in practically every branch of the fisheries.

This depression is due to complex causes. In the case of the herring fishery, it will be recalled that in both 1919 and 1920 the Government came to the rescue of the industry by granting financial support in the shape of a guarantee to take over such portion of the season's cure as the curers were unable to dispose of themselves. Last year, however, for the first time since the termination of the war, the industry was thrown back on its own resources, not because the difficulties confronting it had diminished, or were not fully realised by the Government, but mainly on account of the urgent need for national economy.

The outlook at the beginning of the year was one little calculated to inspire confidence. The Russian market, which formerly used to absorb the greater part of the Scottish herring cure, was still closed; the purchasing power of Germany and the Baltic States continued to be below the normal standard, and such trade as was possible with these countries was restricted by the depreciated and fluctuating rates of exchange; while not only were large stocks of 1920 herrings on hand in this country, held chiefly on Government account, but other herring-producing countries and Germany itself also held large stocks of old cure, which would all require to be cleared—conditions which naturally affected adversely the demand for the new season's

cure. That the lot of our principal rivals—Norway and Holland—was as bad, if not worse, was poor consolation, as their competition was therefore all the keener. It is true that the first signs of a downward trend in working expenses had become manifest, but the fall was insignificant as compared with the drop in the prices realised for herrings, while as the result of the continued depression the financial resources of the industry were appreciably reduced.

Fresh difficulties arose as the season advanced, and except at Shetland, and to a less degree in the Firth of Clyde, the season's operations can only be described as a failure. To begin with. the coal dispute, which lasted throughout the second quarter of the year, held up the steam drifters during the early summer fishing and retarded operations and increased costs generally; while to make matters worse, it was found, when it was possible to conduct operations on a normal scale, that herrings were very scarce and in extremely poor condition. This state of matters appears to have been associated with abnormal hydrographical conditions in the North Sea, to which further reference is made later. The shortage in the catch, it is true, stimulated competition and so increased prices, but this was insufficient to recompense fishermen for the short supply, while it practically destroyed what little chance curers had of realising a profit.

The East Anglian fishing, which in 1920 to some extent compensated Scottish fishermen for the poor season in home waters, unfortunately also proved a failure last year, being characterised by the same features of scarcity of herrings and poorness of quality as the Scottish fishing.

The white-fishing industry was in little better case, and although it had not to contend with such a combination of adverse factors as the herring industry, the results of the year's operations were the reverse of satisfactory. In common with the latter industry, it suffered severely during the protracted coal dispute owing to the difficulty of obtaining bunkers, and the excessively high price which had to be paid for such supplies as were available. In contra-distinction to that industry, it is dependent mainly upon the home demand, and the general depression in trade and the resulting unemployment naturally affected that demand. The prices received by the fishermen for white fish have now fallen almost to pre-war level, but working expenses have not responded in anything like the same ratio, with the result that the proceeds of a fishing trip too-frequently are insufficient to cover the outlay for wages, fuel, ice, upkeep, etc., and it is understood that at the great trawling port of Aberdeen only onethird of the vessels at work succeeded in clearing expenses. contributing factor was the preponderance of small and immature fish in the landings of haddocks and whitings. The abundance of these small fish throughout the year was very striking, as, in addition to those brought to market, large quantities had to be thrown overboard weekly by Aberdeen trawlers during the summer months. From the point of view of its effect upon the stock of fish in the sea, this feature may not necessarily be an evil, as the thinning out may benefit the stock by reducing overcrowding and thus lessening the competition for food. The possibility of this wholesale destruction of immature fish being ultimately harmful to the fisheries cannot, however, be disregarded, and although up to the present there is no evidence that any depletion has resulted, the matter will continue to be closely watched. Further reference to this feature of the fisheries will be found under Chapter X.

One result of the ill-success attending other methods of fishing during the year was the introduction of the "snurrevaad" or Danish seine net, which has been developed and perfected in Denmark, and which is peculiarly effective under certain conditions. During the coal dispute a large number of Danish motor boats using this net landed good catches at English ports, and even after bunkers for trawlers became available these smaller vessels proved able to compete successfully in the market. The Danish net was therefore rapidly adopted at first by a number of English vessels and immediately thereafter by Scottish steam drifters and motor boats, a number of which were fitted out when at the East Anglian herring fishing. The length of the net including the two wings is about 80 yards, but it is hauled in by means of two warps which may each be as much as a mile long. Warps and net are laid out so as to embrace as great an area as possible, and both warps are hauled in simultaneously by mechanical power. The warps in the process of hauling are understood to perform an important secondary function by stirring up the ground and shepherding the fish into the net. the fishing vessel is at anchor except when setting the net, working expenses are much less than in steam trawling; but, so far as experience in Scottish waters shows, the method is apparently best suited for shallow water, smooth ground, and comparatively still There are said to be three types of net, for the capture of flat fish, haddocks and cod respectively, but during the year only the first two were in use in Scottish waters.

This method of fishing, since it involves the dragging of gear over the bottom, is prohibited by the existing byelaws of the Board within the Scottish exclusive fishery limits. A petition to modify this restriction in the inshore waters of the Moray Firth was the subject of a local enquiry by a Committee appointed by the Board, who took evidence in this connection at public meetings at Macduff, Buckie, Lossiemouth and Golspie early in December. The line fishermen who work regularly in the waters in question were found strongly opposed to the petition, and the Board, after considering the Committee's report, decided to make no change.

At the close of the year the prospects of the industry were but little brighter than at the beginning. In the white-fishing section the inimical conditions referred to above remained unchanged, while in the herring fishery the only encouraging feature-albeit an important one—lay in the fact that stocks of cured herrings had been practically cleared, and that in consequence a brisker demand might reasonably be expected during 1922. On the other hand, the nets owned by the fishermen were in many cases worn out, and it was very problematical whether it would be possible to take advantage of any revival in the industry, owing to the lack of funds with which to purchase fresh equipment. The essentials necessary to a revival of the industry are the re-opening of the Russian market for cured herrings. the stabilisation of the Continental exchanges, and in this country a reduction in the cost of production and distribution; and until these conditions have been fulfilled little hope of any material improvement can be entertained.

The results of the Scottish fisheries during the past decade are summarised in the following table:—

CTTTTTTT	0.77	1/ THA 3.70	0.77	CADMITTON	1377	Dratte
SUMMARY	OF.	MEANS	Uľ	CAPTURE	AND	RESULTS.

				, Total	Catch.*
Year.		Number of Vessels.	Value of Boats and Gear.	Quantity (excluding shell fish).	Value (including shell fish).
			£	Cwts.	£
1912 -	-	9,290	5,777,102	8,117,826	3,518, 42 3
19 13 -	-	8,991	6,035,952	7,267,328	3,805,736
1914 -	-	8,869	6,297,745	6,92 6 ,241	3,036,245
19 15 -	-	4,653	1,668,765	2,319,009	2,109,022
1916 -	-	4,650	1,827,346	3,412,030	3,206,550
1917 -	-	4,609	1,902,167	3,079,768	3,704,789
19 18 -	-	4,614	3,038,592	3,313,228	6,066,588
19 19 -	-	6,534	9,223,456	5,968,866	6,147,945
1920 -	-	8,177	11,916,468	6,325,939	6,626,829
1921 -	40-	7,648	7,907,467	5,200,229	5,012,956

^{*} Exclusive of landings by foreign fishing vessels. For totals inclusive of such landings see Table B.—No. III. (p. 120).

We deeply regret to have to record the loss during the year of a valued colleague in Mr. Duncan MacIver, J.P., Stornoway, who died suddenly on 6th November.

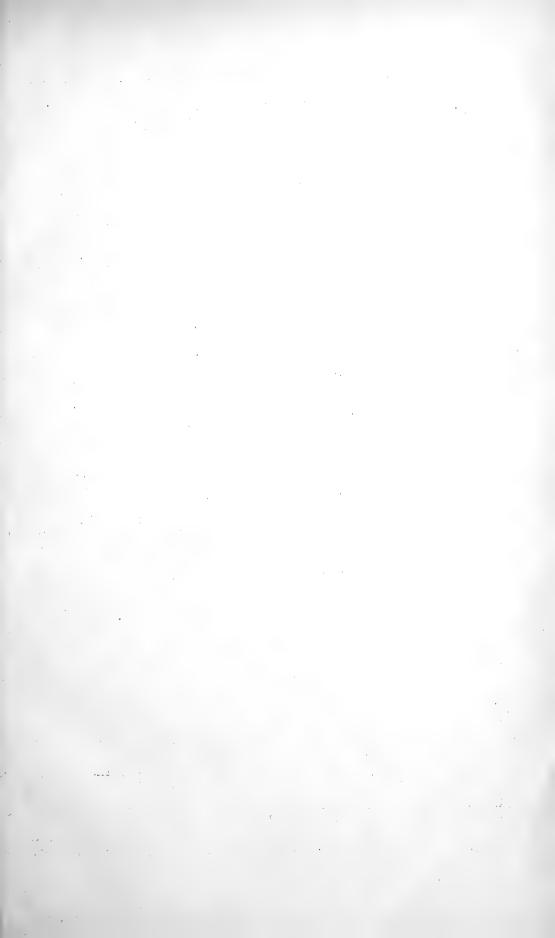
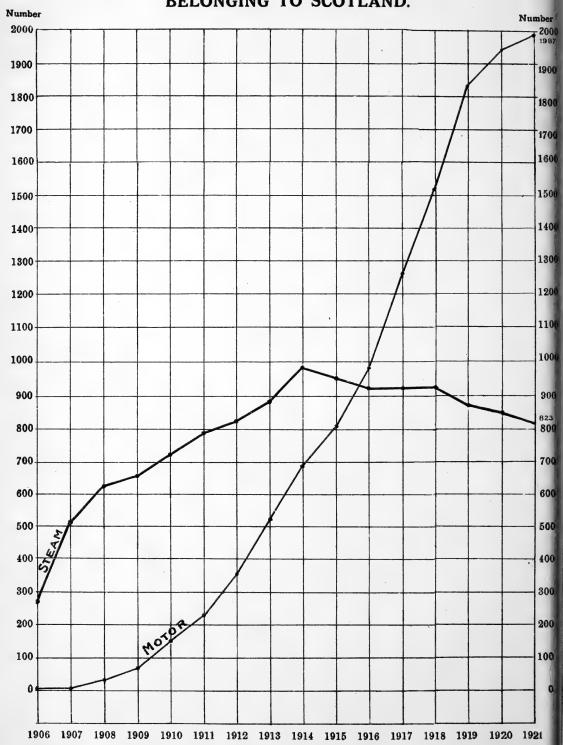


CHART SHOWING THE INCREASE OF STEAM DRIFTERS AND LINERS AND MOTOR BOATS BELONGING TO SCOTLAND.



CHAPTER II.

MEANS OF CAPTURE AND PERSONS ENGAGED.

Owing to the depressed state of the fisheries there was no inducement in 1921 to increase the means of production, but the fleet engaged in catching fish, other than herrings, in Scottish waters during the year possessed greater catching power than that which operated during the previous year. The coal dispute and other adverse factors, however, restricted operations, particularly those of the larger sized trawlers.

Few non-Scottish vessels took part in the Scottish herring fishery during the season, principally on account of the precarious outlook in the industry, while much of the gear employed was old and worn, which resulted in a diminished and less efficient fleet than in 1920.

All fishing vessels, gear and men belonging to Scotland, together with vessels, etc. fishing from Scottish ports although owned in other parts of the United Kingdom, are shown in Table A.—No. I. (pp. 3-15), but the following figures, showing the total number of fishing vessels actually belonging to Scotland in the various years, indicate the changes which have occurred in the composition of the fishing fleet, as does also the chart opposite showing the increase in the number of motor boats as compared with steam drifters and liners:—

Year.	Steam Trawlers.	Steam Drifters or Liners.	Motor Boats.	Sail Boats.	Total.
1921	391	823	1987	4367	7568
1920	354	854	1947	4658	7813
1919	324	872	1844	5084	8124
1913	298	884	523	6807	8512

The bulk of the fishing fleet is owned on the East Coast, including practically all the steam vessels, over a half by number but four-fifths by gross tonnage of the motor boats mainly engaged in herring fishing, and practically all those chiefly employed in the white-fish fishing, and more than a third both by number and gross tonnage of the sailing fleet.

The only steam trawler constructed in Scotland during the year was built at Aberdeen to the order of a Fleetwood firm, but the trawling fleet was augmented by the addition of ex-Admiralty trawlers and drifters fitted for trawling and the conversion into trawlers of a number of drifters. The indifferent results obtained by the converted vessels, however, discouraged the more general adoption of trawling by drifters. The total strength of the trawling fleet at work from Scottish ports was 418, against 385 for the previous year and 332 in the first half of 1914, but apart from the restriction of operations incidental to the coal dispute many vessels, especially those of the larger type, were laid up during the summer months on account of heavy working expenses and unremunerative fish prices.

The number of steam drifters and liners belonging to Scotland showed a further decrease, being less by 31 and 61 respectively than in the years 1920 and 1913. The reduction would have been greater

but for the acquisition of several ex-Admiralty vessels by fishermen. Increased attention was paid to great lining, and the largest steam line fleet ever based on Aberdeen was at work during the early summer. Large liners which were converted into trawlers during the

war had all resumed great lining by 1921.

The number of motor boats was well maintained, but the fleet was not fully employed during the year. The sailing fleet, particularly in Orkney and Shetland and on the West Coast, was considerably reduced, chiefly owing to the cancellation of the registry of old large sized boats, and of a number of smaller boats which operated during the war only.

The total value of fishing vessels amounted to £6,226,818, making with gear valued at £1,680,649 a total of £7,907,467, which figures

show a substantial decrease from those of the previous year.

The decline in values was common to all classes of vessels, but was specially pronounced as regards trawlers of the "Strath" type, which were acquired during the year at a third of their original value. During the war steam trawlers and drifters which had been rejected for war service were eagerly acquired for fishing, but with the return to more normal conditions their operations proved unremunerative and they cannot now be sold. Difficulty was also experienced in

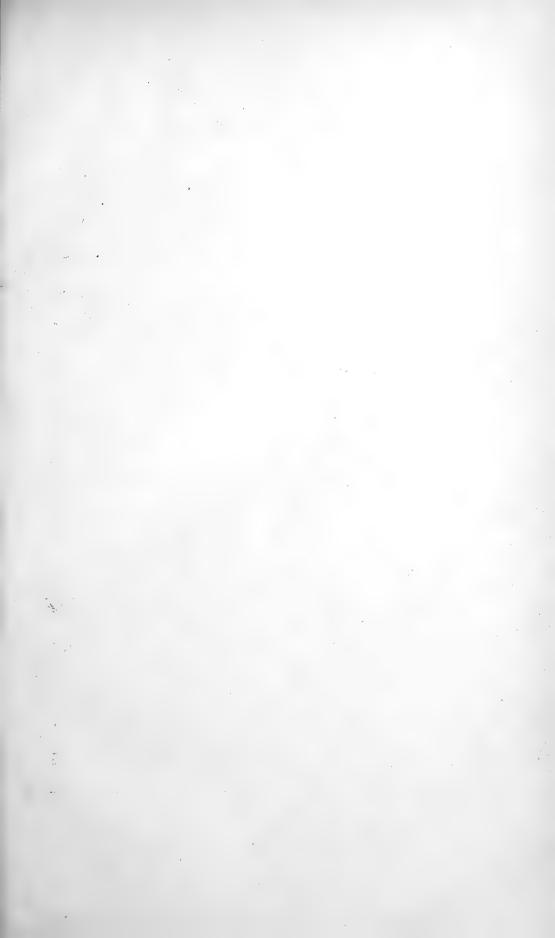
disposing of motor boats even at half their purchase prices.

There was a marked decline in the value of herring drift net gear, due not so much to the fall in prices of gear which occurred during the year, as to the failure of the fishermen to maintain their stocks at the accustomed standard. The straitened financial position of the fishermen as a result of poor fishings in recent years, and the bleak prospects of the industry in the immediate future, are at the root of the decline, and have produced a grave problem in the Scottish drifter ports. As already stated the Danish seine net or snurrevaad was introduced to Scottish waters during the year, and the total extent of the new gear in use at its close amounted to 281,400 square yards, valued at £7998.

During the year 93 boats valued at £82,564 were totally wrecked or otherwise lost, and in addition 773 vessels sustained damage estimated at £49,652, making the total loss on boats £132,216 as compared with £147,220 for the previous year. The loss on fishing material, chiefly in respect of damage to trawl gear, was £210,686, being £71,117 less than in the previous year. The losses sustained by Scottish vessels at the English and Irish fishings are not included

in the foregoing figures.

The numbers of fishermen employed on the different types of boat are shown in Table A.—No. I. (pp. 3-15), and at the different creeks to which they belong in Table A.—No. II. (pp. 16-51), while the number of persons engaged in the various other branches of the Scottish fishing industry appears in Table F.—No. I (pp. 134-135). In the various tables, fishermen are now classified as regularly or partially employed instead of as resident or non-resident. The total number of fishermen was 32,183, being less by over 4000 and 6000 respectively than in 1920 and 1913. The shortage is largely due to a reduction in the number of English drifters visiting Scotland for the summer herring fishing, as the number of Scottish fishermen only fell off by 1250 and 2100 as compared with those years.



Quantity in Million Cwts. 0.9 2.2 4.5 4.0 0.93.2 3.0 5.2 0.7 9.1 0.1 1920 1921 1919 1918 DIAGRAM SHOWING THE RISE AND FALL IN THE CATCH AND PRICE OF HERRINGS 1917 1916 1915 1906 1907 1908 1909 1910 1911 1912 1913 1914 IN SCOTLAND FROM 1900 TO 1921 INCLUSIVE. 1903 1904 1905 1903 1900 1901 Price per Cwt. in Shillings. 24/-10/-18/-16/-12/--/8 -/9 20/-22/

It is regretted that 28 fishermen lost their lives during the year. The casualties occurred chiefly through the foundering of vessels at

sea or by men falling overboard.

The total number of persons engaged in all branches of the industry, including fishing, shows a falling off of 5650, being 65,327 as against 70,983 in 1920 (90,710 in 1913), the decrease being largely in respect of drift-net fishermen. The majority of the persons engaged in curing operations are women herring gutters and packers, and the number employed during the year was 8733 as compared with 9403 in 1920. Employment in the manufacture of herring barrels was restricted owing to the adverse markets for cured herrings, and only 1462 coopers were engaged during the fishing season as compared with 1738 in 1920. High costs of labour and material discouraged more general employment, and the situation was rendered even more unfavourable as the year advanced by the failure of the summer herring fishing, and by labour disputes arising out of a proposal to effect a further reduction in coopers' wages. During the year 535,902 barrels and 153,824 half-barrels were manufactured, as against 1,055,750 and 145,480 respectively in 1920. Employment in other subsidiary industries was also restricted, and of quarter cran baskets for instance only 12,460 were produced against 30,426 in the previous year.

CHAPTER III.

THE HERRING FISHERY.

1. GENERAL.

The total catch of herrings in Scotland in 1921 amounted to 2,463,306 cwts. valued at £1,174,388, as compared with 3,155,165 cwts. and £2,244,680 in the preceding year. The falling off cannot be attributed to any particular season, as the winter, early summer, and great summer and autumn fishings alike show decided decreases in both quantity and value. The proportions of the year's catch landed by steam, motor and sail vessels respectively were roughly 43 per cent., 48 per cent. and 9 per cent., as compared with 66 per cent., 29 per cent. and 5 per cent. in 1920. The quantities of herrings taken monthly in each of the fishery districts during the past year are summarised in the following table, while the accompanying diagram shows the quantities of herrings landed and the average price per cwt. for each of the years 1900 to 1921.

RETURN showing the Quantity of Herrings landed in each Fishery District in Scotland in each Month of the Year 1921.

District.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec:	Total.
	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.
Eyemouth -	9,863	10,084			4,204	3,045		12,173					54,731
Leith -	11,464	16,325		781	407	190		2,141	853		53	549	36.974
Anstruther -	36,587		18,188	371		55		266			1974	° 28	88,203
Montrose -	203	. 354	94	4	167		56	139	108				1,125
Stonehaven -			7414 T			42							42
Aberdeen -	2,711	150	369	573	2,240		865	14,135	7,475	93	395	,	31,166
Peterhead -	6,650	4,056	697		123				1,428	• • •			202 860
Fraserburgh -	24,483	9,181	336			33 360	158,714	124,456	1,599		35		352,164
Banff · -	2,184	854		1	472	3,577	7,934	10,622	10		87		25,741
Buckie	22,869	5,929	537	14	63	3,008	2,901	3,371		:	70	382	39,144
Findhorn -	1,084	439	42		2	33	283	171	105	1,451	1,838	2,303	7,751
Cromarty -			10						14	24			48
Helmsdale -				8		50	64	187	154				.463
Lybster						91	7	231	245				574
Wick -	81,855	59,585	6,659		1,505	16,042	108,332	62 594	10,990	1,274	245	4.802	353,883
Orkney - ·	105	144	231			1,372	44,559	24,801	28	10.0			71,240
Shetland -	522	501	1,036		10,528	103,706	295,102	178,749	421		1		590,565
Stornoway -	34,605	21,797	1,887	88	3,307	9,940	19,389	18,381	6 556		863	17,901	135,543
Barra	10	378	35		1,189	6,245	17,747	44,154	125	10		. 80	69,973
Loch Broom -	612	21	21		135	228	38	479	469	7	854	2,996	5,860
Loch Carron													
and Skye -	11,925	3,236	1.113		375	1,080	263	914	3.669	737	2.413	4,953	30,678
Fort-William	36,572	24,087	3,294	140	1,761	11.168	8,243	21,661	1,001	115	3,393	5,348	116,783
Campbeltown	28,231	11,074	5,225	6.951	6,923	7,098		5,848		6,704	942	2,916	89,798
Inveraray	1,799		1.		2,016		3,199	1,523	3.081		23,933	49,675	98,124
Rothesay -	2,877	172		245	276	1,211	145	732	630	346		2,309	11,132
Greenock -	161	252		378	706	2,461	1,764	- 53	241	766		2,353	10,423
Ballantrae -	580	12,327	892	6,540	10,114	5,903	411	566	276	94	500	115	38,318
Totals 1921	317,952	213,346	51,711	16,094	46,513	240,859	756,720	619,053	50,206	15,044	39 098	96,710	2,463,306
	365,186						1,109,702						

2. WINTER FISHING.

In view of the circumstances to which reference has been made in the introductory chapter, it is not a matter for surprise that at the opening of the year a number of owners of first class boats who had just emerged from the previous year with heavy losses decided to leave their boats out of commission, and that the reduced fleet which commenced the winter fishing in January did so in a very halfhearted manner. This fishing, which covers the period from 1st January to 31st March, began well, however. A few crews who had left their vessels at West Coast ports and at Wick over the New Year holidays returned about the first week of January, and it was not long before considerable fleets were at work on the North Coast and in the Minch. As in the previous year the North Coast grounds were the more productive. Early in January a heavy catch of herrings of excellent quality was landed at Wick and Scrabster, and met with a brisk demand for freshing and kippering. Although heavy landings continued, prices ranged from 60s. to 120s. per cran, and even reached 144s. owing to a good demand in the English markets, which, however, unfortunately proved only temporary. The quality of the herrings varied, and there appeared to be two distinct shoals on the North Coast. The heaviest catches were taken 8 to 12 miles west of Cape Wrath and from the waters in the vicinity of the Orkneys, as well as to the west of Dunnet Head. Wick and Scrabster, owing to their proximity to the grounds, received most of the landings, but on account of their limited railway facilities they were occasionally unable to cope satisfactorily with the heavy arrivals, and, when

prices began to fall, many boats proceeded to Buckie, Fraserburgh, Peterhead, Aberdeen, and even as far south as North Shields.

The fleet operating from Stornoway and other West Coast ports was considerably smaller than in the previous winter fishing. Owing to scarcity of herrings and the fluctuating prices at these ports, many vessels which started fishing on the West Coast transferred their activities to the North Coast when the fishing there developed, hoping at the same time to secure better prices and more adequate and cheaper supplies of coal at East Coast ports. Operations were, however, regularly pursued between Tiumpan Head and the Butt of Lewis and also off Bulgie Island, where the best results were obtained. The quality was seldom satisfactory, as in addition to the fish being in poor condition the shoals contained a large percentage of small fish, and when prices fell in February and several kippering firms closed down fishermen saw that to continue fishing would simply involve them in debt, and the fleet therefore gradually dispersed.

An improvement in the price of kippers, however, took place after many of the boats had gone home from both the North and West Coast fishings, and those who remained to the end of the season were

well rewarded.

During the winter fishing, when prices came within the reach of curers, considerable quantities were cured and despatched to German, French and Dutch ports, but met with little or no demand. The experience of kipperers and freshers was not much better. Owing to the comparatively high prices paid at the ports of landing, sharp losses were sustained on a number of consignments to the southern markets which arrived when these were overstocked. Fishermen's earnings for the fishing varied greatly, drifters grossing from £230 to £1420, and motor boats £160 to £670, while the average working expenses amounted to £460 and £240 respectively.

The winter fishing in the Firth of Forth continued from the beginning of the year to the first week in April. The results in January were very satisfactory, but from February onwards the shoals were sporadic and earnings irregular. The number of heavy shots landed was exceptional for the season of the year, and certain crews did remarkably well. The total catch for Eyemouth, Leith and Anstruther districts up to the end of March amounted to the very satisfactory total of 145,956 cwts. valued at £84,137, as against 31,557 cwts, and £28,427 for the corresponding period in 1920.

3. SUMMER FISHING.

Under ordinary conditions a general start would probably have been made at herring fishing in the North Sea in the month of May, but owing to the scarcity of coal and the uncertainty as to whether fishing could be conducted profitably apart from Government aid, only a small fleet was at work in that month. A voluntary close time was generally recognised on the East Coast except at Eyemouth until the last week of May, when a number of steam liners began to dispose of surplus herring bait to kipperers and freshers, and this induced a few additional boats to proceed to sea. During the first week of the same month, however, several large motor and sail boats from the East Coast ports proceeded to the West Coast, and landings

began to be made at Stornoway, Mallaig, Kyle and Oban. Good catches were also made at Lerwick and Scalloway by local boats, and on some occasions the supply exceeded the demand. successful fishing was obtained by the fleet working off Evemouth

and on the North East of England.

At the end of June the total fleet operating in Scottish waters (excepting the Firth of Clyde) numbered only 760 vessels, of which 160 were steam drifters, whereas a fleet of 1750 vessels, including 1100 steam drifters, was at work at the corresponding date in 1920. At this time operations were being conducted from Peterhead, Fraserburgh, Wick, Stronsay (Orkney), and Lerwick, and on a smaller scale from Stornoway, Castlebay, Mallaig and Oban, and Evemouth.

A good steady fishing was secured at Lerwick from the end of May, and for the motor and sail boats, mostly belonging to the Islands, which worked continuously in Shetland waters the season proved most satisfactory. Prices at Lerwick were comparatively good right up to the end of July, when they began to fall in sympathy with the depreciation of the mark and a contraction of the German demand, and when the majority of the steam drifters had begun fishing the best of the season had passed. Unfortunately most of the herrings were of inferior quality, lacking fat, and presenting a starved

or shrivelled appearance after being roused, but the August fish were better developed. The gross earnings at Shetland ranged from

£1300 to £1800 for steam vessels, £1100 to £2200 for motor boats, and £500 to £1170 for sail boats.

At Orkney and on the East Coast results were much poorer, as in no area could herrings be taken in remunerative quantities. quality at Orkney was fair, but prices averaged only 20s. per cran, which to fishermen was unremunerative. The moderate curing staffs provided at Stronsay, however, were hardly sufficient to deal with the On the East Coast the catch was very light throughout the season, never equalling curers' requirements, while the quality was exceptionally poor. The demand by curers, especially when it was evident that there would be a shortage, was keen, but both curers and fishermen suffered loss on the season's operations. The fishing came to a premature close about the end of August.

On the West Coast catches were disappointing except at Castlebay, but owing to the fairly extensive preparations which had been made to deal with large supplies, and to the good demand which for a time prevailed for early matjes at first in the German and later in the American market, and for kippers in this country, high prices were paid. The demand from America collapsed about the middle of August owing, it was said, to the inferior quality of the herrings,

and the bulk of the cure thereafter was consigned to Germany.

4. East Anglian Fishing.

In spite of the doubtful prospects for the East Anglian autumn fishing, active preparations for it were carried on at most of the East Coast and Moray Firth drifter ports during September, and by the end of that month or beginning of October a large fleet of steam drifters and motor boats and a number of Scottish curing firms and their employees had arrived at Yarmouth and Lowestoft; the

numbers present were, however, not so large as in the previous year. Certain of the drifters which called at Grimsby and other ports with catches taken on their way south were so impressed by the results of Danish seine net fishing recently introduced there that they fitted their vessels with this type of gear, and returned home to fish with it. In view of the probability that supplies of herrings at East Anglia when landings were heavy would exceed the demand, it was voluntarily agreed to regulate fishing operations, and a committee representative of different sections of the industry was set up for that purpose, and the directions of this committee were for the most part loyally observed. Some of the Scottish fleet began operations about the middle of September, but as herrings were scarce on the usual fishing grounds and vessels were not earning sufficient to clear working expenses, a number of crews remained in harbour for two or three weeks. About the middle of October shoals of herrings were struck at some distance off and for a week the landings were very good, but thereafter they gradually became lighter and more partial. The season as a whole proved a The herrings were generally of poor quality; the shoals to begin with were located 80 to 100 miles off, which entailed much heavier working costs than usual, while the total landings were much less than those of the previous year and prices were lower. Fishermen in many cases did not earn sufficient to clear expenses, and crews began to return home by the end of October. had also an unsuccessful season, as not only were the landings short, but the demand for cured herrings was poor owing to the depreciation of the mark and the general instability of the Continental markets.

The following statement shows the number of Scottish fishing boats employed, and the quantity and value of herrings landed by them at the English and Irish fishings for the whole year:—

STATEMENT showing the number of Scottish Fishing Boats employed, and the quantity and value of Herrings landed by them at the English and Irish fishings.

	PARTICULARS OF FISHING ON THE COASIS OF ENGLAND.											
Scottish Dis- tricts to which Boats Belong.		Steam.			Motor.			Total.				
	Vessels.	Quantity.	Value.	Vessels.	Quantity.	Value.	Vessels.	Quantity.	Value.			
	No.	Cwts.	£	No.	Cwts,	£	No.	Cwts.	£			
Eyemouth -	21	41,020	10 550	25	26,964	5,778	46	67,984	16,328			
Leith				17	18,200	4,062		18,200	4,062			
Anstruther -	52	69,650	18,408	37	31,689	7,696	89	101,339	26,104			
Montrose -	2	2,625	641		2,328	999		4,953	1,640			
Aberdeen	7	8,960	2,155				7	8,960	2,158			
Peterhead -	102	154,053	40,714		1,876	484		155,929	41,198			
Fraserburgh -	84	115,248	28,812		32,680	8,170		147,928	36 982			
Banff -	82	157,440	39,360		22,799	5,700		180,239	45,060			
Buckie	240	432,845	105,120		103,765	25,200		536,610	130,320			
Findhorn -	109	166,064	40,330		5,148	1,250		171,212	41 580			
Orkney		12,229	3,101		13,440 574	3,408 172		25,669 574	6,509			
Shetland -	10	11,665	3,500	$\frac{1}{9}$	4,445	1,270		16,110	179 4,770			
Stornoway -	8	7,521	1,936		4,440	1,210	8	7,521	1,936			
Total 1921	730	1,179,320	294,627	258	263,908°	64,189	988	1,443,228	358,810			

		Partic	ULARS C	F FISHI	NG ON TH	E COAS	rs of Ir	ELAND.		
Scottish Dis- tricts to which Boats Belong.		Steam.			Motor.			Total.		
_	Vessels.	Quantity.	Value.	Vessels.	Quantity.	Value.	Vessels.	Quantity.	Value.	
	No.	Cwts.	£	No.	Cwts.	£	No.	Cwts.	£	
Peterhead - Fraserburgh - Findhorm -	1 2 22	504 336 13,244	438 340 9,460		* *		2 2 22	504 336 13, 244	438 340 9,460	
Total 1921	25	14,084	10,238	• • •	••		25	14,084.	10,238	
Grand Total 1921 Grand Total 1920		1,193,404 1,716,770	304,865 1,115,479		263.908 421,127	64,189 270,314		1,457,312 2,137.897	369,054 1,385,793	
Decrease in 1921	/ 31	523,366	810,614	37	157,219	206,125	68	680,585	1,016,739	

5. West Coast Loch Fishing.

A light irregular fishing commenced in Lochs Inchard and Laxford about the second week of November, but the quality was poor and the results only fair, and most of the boats proceeded to the Skye Lochs, where fairly good earnings were made up to the end of Dense shoals were located on the Tolsta Sands, north of Stornoway, in December, but here also the quality was far from satisfactory, and as the fishing gradually fell away the fleet crossed to Loch Inchard, where good catches of better quality were secured; some of the vessels ran to Stornoway with their catches, but the majority disposed of their herrings at the mainland ports. Mackerel were abundant on the Tolsta grounds, but the demand was poor and large quantities had to be dumped. Unfortunately the loss of gear was heavy through weight of fish and other causes, while frequent delays in reaching port through bad weather tended to reduce prices.

The total landings in the north-west of Scotland for the months of October, November and December amounted to only 40,409 cwts.

against 106,520 cwts. in the corresponding period in 1920.

6. CLYDE FISHING.

On the departure of the herrings from Loch Fyne, during the month of January, on their way to the spawning grounds off the Ayrshire Coast, a very successful fishing was secured by the Firth of Clyde motor seine net boats at the entrance to the Kyles of Bute and in the Kilbrannan Sound. An interesting feature was the capture of heavy catches in the middle of the Sound between Davaar and Arran, where seining or "ringing" had not been practised for about 25 years during winter, at which season operations are usually confined to the coastal waters. For a time the landings were very heavy and prices fell to as low as 6s. per cran, while on one occasion 1300 baskets had to be thrown back into the sea. winter fishing on the Ballantrae Banks and at Stranraer, which is frequently very successful, proved an entire failure owing to adverse weather.

About the end of April shoals began to make their appearance in the Kilbrannan Sound and fair catches were secured in May. Transport facilities by steamer, on which the Clyde area is so dependent, were, however, completely disorganised by the coal dispute and a sympathetic strike by Glasgow dockers, and as the herrings were in poor condition and prices were low, large quantities had frequently to be dumped. Except for some good catches secured in the vicinity of Skipness Point and Tarbert in June and July, the fishing throughout the summer was very light. Large shoals had evidently settled in the deep waters at the mouth of Loch Fyne, but although a vigilant fleet were on the grounds all the time they were unable to meet with any success until the shoals commenced to move up to the shallower waters in the vicinity of Ardrishaig and Otter Ferry, where very heavy catches were secured in November and December, especially on two occasions when shots of 250 to 300 crans were common, and the total landings amounted to over 5000 and 6000 crans respectively for about 80 pairs of boats.

7. TRAWLING FOR HERRINGS.

Encouraged by the success of herring trawling in 1920, several Aberdeen vessels fitted with special trawls, and others with their ordinary nets adapted by means of lacing, began fishing for herrings in the North Sea about the first week in August, a fortnight earlier than in 1920, and for a time landed good catches from the Fladden grounds 90 to 100 miles from Aberdeen. The quality of the herrings was much inferior to that of the previous year, and fishing on the whole was very partial, catches ranging from a few to 214 crans, and a number of the vessels were obliged to complete their voyages in quest of whitefish on other grounds. This added considerably to working costs and several finished up in debt. The most successful vessel grossed £3078 for 8 weeks, but for the majority the season was far from satisfactory.

A few Leith trawlers operated on the Dogger Bank in the autumn, but met with no success, the total landings amounting to 2894 cwts., valued at £2081. In October a Fleetwood trawler which had been fishing off the Welsh coast landed 721 cwts. of herrings of good quality at Glasgow, but as fair supplies of Loch Fyne herrings were then on the market and prices were not satisfactory this venture was

not repeated.

The total landings of trawled herrings in Scotland during the year amounted to 18,772 cwts., valued at £11,954, as compared with

41,415 cwts. and £40,429 in 1920.

As in 1920, a number of German vessels visited the Fladden grounds, and the majority are understood to have had a successful season. One vessel using a special trawl fitted with a third otter board is reported to have landed over 700 crans in three trips, and the innovation is regarded by the Germans as having proved successful.

8. SEASONAL PRICES.

The average prices of herrings per cwt. on the East Coast, Orkney and Shetland, West Coast, and all Scotland, for each season

in 1921 are shewn in the following table; figures for the year 1920 are also given for purposes of comparision:—

SCOTTISH HERRING FISHING, 1921.

	WINTER.	EARLY SUMMER.	GREAT SUMMER AND AUTUMN.	
	.1st January— 31st March.	1st April— 30th June.	1st July— 31st December.	YEAR.
	Price per cwt.	Price per cwt.	Price per cwt.	Price per cwt.
East Coast	s. d. 10 6	$\begin{array}{ccc} s. & d. \\ 13 & 6 \end{array}$	s. d. 8 6	s. d. 9 6
Orkney and Shetland .	7 9	10 5	6 0	6 9
West Čoast	11 11	13 0	13 0	12 7
Whole of Scotland (1921)		12 2	8 6	, 9 6
Do. (1920)	13 11	15 1	14 2	14 3

9. DISPOSAL OF HERRING CATCH.

Of the total quantity of herrings landed in Scotland last year 1,852,254 cwts. or 75.2 per cent. were preserved in one way or another, while 611,052 cwts. or 24.8 per cent. were consumed fresh.

Details of the quantities of herrings cured in each of the fishery districts are given in Table D.—No. I. (a) (p. 122), which shows also that the quantities dealt with by each method of cure were substantially less than in the preceding year. The quantity used or despatched fresh was also less, although not to the same extent. As usual the greater part of the herrings cured were pickled gutted, almost exclusively for export, the quantity so treated representing about half of the total herring catch, as was also the case in 1920, against about four-fifths in pre-war years. Curing in pickle is the backbone of the herring fishing industry, and on the demand for the produce in the overseas markets the success or failure of the fishery depends.

The outlook for curing at the commencement of the season was not bright, as large stocks of the previous year's produce remained in this country and the chief markets on the Continent were still in a very unsatisfactory state, while on the other hand the stave-wood and other materials held by curers had been purchased at high prices. With characteristic optimism, curers nevertheless engaged sufficient staffs of workers for dealing with almost a normal catch, but unfortunately events did not justify their expectations. Herrings appeared to be exceptionally scarce on the fishing grounds, while the coal dispute prevented most of the steam drifters from going to sea early in the season, so that landings were very limited at the time when the demand was best. Curers were practically obliged to pay higher prices for herrings than the state of the cured markets justified, and at the same time were unable to provide regular employment for their workers, which inevitably raised the cost per barrel for curing, especially in the case of herrings purchased in the early summer.

Very little curing was carried on during the winter season. The first consignments of the summer cure, sent to Hamburg from Castlebay and Lerwick towards the end of May, met, however, with a ready demand at a net return of about £3 per barrel, which gave an impetus to the industry and caused prices for fresh herrings at Castlebay, for instance, to jump from 15s. to 50s. per cran. The American demand was also brisk for a time, but a drop took place before the season was far advanced, owing to the fact that the quality of the herrings was not up to the usual high standard. Curers therefore sent most of their consignments to Germany, although the demand there also fell off considerably.

During the summer fishing curing was conducted at the usual centres, chiefly Lerwick, Stronsay (Orkney), Wick, Fraserburgh and Peterhead. The German demand for cured herrings was on the whole steady, but suffered through the continued depression of the mark, and the prices obtainable, when converted into sterling, barely

covered the curers' outlay.

Throughout the year it was observed that, contrary to pre-war experience, the smaller selections of herrings, such as matties and matfulls, were in the best demand on the Continent, perhaps on account of the greater number of fish per barrel, with all that this

implies for the retail trade.

The quantity of cured herrings exported during 1921 amounted to 716,036½ barrels, as against 342,056½ barrels in 1920. The increase represents largely the 264,485 barrels of Government stocks of 1920 cure, which were handed over to the Disposals Board at the beginning of 1921, and which were nearly all sold, although at greatly reduced prices, during the year. The destinations of the herrings exported are shown on Tables E.—No. II., and E.—No. III. (pp. 129-130). About five-ninths of the year's exports went, in the first instance at least, to Germany. Exports to Danzig for Poland show an increase, but do not occupy so relatively prominent a position as in the previous year. In pre-war years our best customers for cured herrings were Russia, Germany and Austria, which countries then took over 90 per cent. of our exports.

The total stocks of cured herrings on hand in Scotland on 31st December 1921 amounted to 26,716 barrels, as compared with

278.327 barrels at 31st December 1920.

For the home markets kippering is the most popular form of preservation. A total of 610,729 cwts. or 25 per cent. of the landings was so treated last year, but this was less by about a third than the quantity kippered in 1920. The firms engaged were kept busy throughout the fishing seasons, but, on the whole year's working, business was far from satisfactory. The demand was occasionally good, but the markets seemed unable to absorb more than very limited supplies. The inferior quality of the herrings and the abnormal amount of unemployment further militated against success, as did also the excessive heat experienced during the year. When bunker coals became available in July, and supplies of herrings were more plentiful, Scottish kipperers at the more northern ports found it impossible to compete with those nearer the southern markets.

The total quantity of herrings tinned, chiefly with tomato sauce,

was only 17,353 cwts., as compared with 133,857 cwts. in the previous year, as owing to the lack of demand practically all the 1920 produce was still on hand.

The 35,126 cwts. of herrings made into bloaters or reds were for the most part herrings pickled ungutted at East Anglia and

subsequently smoked at Aberdeen.

Considerable quantities of herrings sprinkled in ice and salt were sent to several of the German and French ports and realised fair prices when supplies were scarce, but the return received on most

occasions was not encouraging.

Four Swedish firms were engaged during the summer in the "spicing" of herrings at Lerwick, two ashore and two afloat. One of the firms caught their own herrings, but the others depended on local landings. Powdered salt, sugar, spices and bay leaves were used in the spicing process, and the fish were put into barrels and exported to Sweden, where they were subsequently tinned for consumption in that country. The quantity dealt with amounted to 2168 barrels.

Owing to the unremunerative results of curing operations during the winter and summer herring fishings in Scotland, the usual autumn exodus of curers and their employees to East Anglia was on a considerably smaller scale than in normal years. As the fishing was light the number of barrels cured was less than usual, but, owing to a further fall in the German exchange, it appeared at first as though it would not be possible to dispose of even the limited quantity cured except at a heavy loss. The demand, however, improved later, but prices were very unremunerative.

Particulars of the quantities and selections of cured herrings accepted under the Crown brand are detailed in Table E.—No. I. (p. 128). The brand, which had been largely in abeyance since 1913, owing at first to the interruption of the Continental trade and in 1919 and 1920 to the operation of the guarantee schemes, was again

in fair demand during the year.

CHAPTER IV.

FISHERIES OTHER THAN HERRING.

1. GENERAL.

The total quantity of demersal* fish landed in Scotland in 1921 amounted to 2,698,496 cwts., valued at £3,753,329, as compared with 3,069,415 cwts., valued at £4,238,032 in 1920. Details will be found in Table B.—No. II. (pp. 56-119). The average price per cwt. over all was 27s. 10d., as against 27s. 7d. in 1920.

The decrease in landings as compared with 1920 is wholly attributable to trawling, the produce of which fell off by 23 per cent.

^{*} I.e., fish which live and feed mainly near the sea bottom, thus excluding herrings, sprats, sparlings and mackerel.

in quantity and 19 per cent. in value, whereas the landings by line vessels increased by 19 per cent. and 6 per cent., and by vessels using nets other than trawls by 31 per cent. and 29 per cent. in quantity and value respectively. The increased landings by net and line vessels are doubtless due in part to the poor results and prospects of the herring fishery, which caused fishermen to devote more attention to white-fishing, not from choice but from urgent necessity.

Haddocks constituted over one-third of the quantity and value of the total white fish catch, followed at no great distance by cod and codling, as was the case in 1920. Before the war cod predominated, but the foreign trawl landings which brought this about were of little

account during the year.

The principal fishing ground for Scottish fishing vessels is the northern North Sea. Local vessels and medium and larger sized East Coast vessels work off the West Coast, while the largest trawlers and liners extend their operations from the West of Ireland to Iceland. A summary of the year's landings according to the areas of capture is given in the following table:—

Description of Fish.	North Sea (E. of 4° W, and S. of 62° N.)	Faroe.	Iceland.	Western Grounds.	Irish Grounds.	Mixed Grounds	Total.
	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.
Cod and Codling	564,766	78,189	21,526	97,163	60	9,912	771,616
Ling	78,276	6,225	1,313		2,406		
Torsk	5,009	5,700		4,599	3 8	62 8	
Saithe	84,634	3,257		26,533	3	1,948	
Haddocks	833 515	7,491	7,830	87,389	3	12,590	948,818
Whitings	170,267	57	120	6,427	4	1,195	178,070
Conger Eels .	1,268	1	1	12,994	25	63	14,352
Gurnards	5,613		• • •	594		14	6,221
Catfish	19,089	676	1,102	271		271	21,409
Monks	24,972	91	13	971	- 3	286	26,336
Hake	19,367	7		4,711	24	366	24,475
Turbot	7,482	1	1	294		45	7,823
Halibut	25,53 8	18,537	1,132	25,497	1,398	3,663	75,765
Lemon Soles .	38,591	415	118	1,798		349	41,271
Plaice	74,580	342	511	12,777		854	
Brill	596	•••	•••	86		4	686
Dabs	9,055	15	13	345		13	
Whitches	6,9 89	1	211	2 21	1	63	7,486
Megrims	9,621	11	18	987	16	239	10,892
Skates	107,281	5,940	377	52,420	1,001	4,837	171,856
Squids	288	• • •		15	1	•••	304
Other kinds .	4,803	170	55	8,276	98	208	13,610
Total	2,091,600	127,126	36,3 66	397,17 3	5,081	41,150	2,698,496

The landings may also be classified according to fishery districts and months. In the following table the predominance of Aberdeen, followed by Leith, which is the other chief trawling district; the adverse influence of the stormy weather in the winter months; and the falling off in landings during the coal dispute are all discernible.

RETURN showing the Quantity of WHITE (i.e. DEMERSAL) FISH landed in each Fishery District in Scotland in each Month of the Year 1921.

Districts.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.							
Eyemouth -	1,154	623	230	1,164	626	511	289	373	310	869	846	990	7,985
Leith	29,363	41,532	44,972	37,581	16,438	13,671	26,877	43,931	47,715	48,014	37,813	38,619	426,526
Anstruther -	2,400	1,951	1,145	2,172	2,817	2,738	2,252	2,498	2,482	2,127	2,486	2,511	27,579
Montrose -	9,312	9,493	6,219	10,102	11,454	14,471	13,232	13,601	14,632	12,957	10,662	11,382	137,517
Stonehaven -	1,200	708	293	824	2,167	2,044	1,910	1,778	1,286	1,610	1,296	1,264	16,380
Aberdeen -	118,638	154,165	124 384	164,485	130,809	144,721	127,952	139,634	163,741	169,340	125,263	127,312	1,690,944
Peterhead -	2,441	2,368	930	2,551	2,844	1,802	2,270	1,662	1,092	963	323	1,192	20,438
Fraserburgh -	2,962	4,091	2,161	4,223	5,330	3,416	2,497	1,652	1,935	1,586	1,411	1,390	32,654
Banff	3,242	5,726	2,527	1,559	4,455	4,331	3,024	2,145	2,805	3,001	3,992	5.261	42,068
Buckie	2,389	14,928	7,948	1,301	1,021	1,520	1,286	1,282	1,241	3,408	4,000	3,028	43,352
Findhorn -	2,459	7,160	4,327	1,896	3,193	4,523	3,407	3,838	3,054	3,096	4,669	3,987	45,609
Cromarty -	845	1,025	577	808	996	1,172	964	1,016	1,374	1,207	1,681	1,150	12,815
Helmsdale -	1,929	1,798	1,048	1,254	1,140	1,382	1,373	1,195	2,207	1,746	1,605	1,678	18,355
Lybster	857	724	184	272	111	48	42	45		401	492	808	4,028
Wick	2,536		2,603		1,892	1,691	2,551	1,852	1,574		2,874	1,813	27,197
Orkney	320	316	210	350		1,038	1,134	976	574	567	439	287	6,837
Shetland -	4,715	3,088	504	2,116		2,953	3,530	2,310	985	5,409	2,217	3,295	32,818
Stornoway -	1,424	4,288	1,829	1,149	1,971	3,112	2,992	2,166	1,563	1,566	1,254	1,524	24,838
Barra	246	280	332	293	407	718		261	128	282	383	168	3,856
Loch Broom -	364	651	839	883	218	580	462	433	390	315	421	319	5,875
Loch Carron													,
and Skye -	793	2,491	873	588	150	229			132			165	6,087
Fort-William	3,123	13,522	9,575	3,409	906	686			348	479	586	834	34,031
Campbeltown	431	825	1,285	1,036	190	212	217	366	438	463	366	116	5,945
Inveraray -	34	57	58	132									295
Rothesay -	134	262	243	190	63	49	35	32	114	123	146	97	1,488
Greenock -	32	169	34	287	64	19		81	100		62	51	998
Ballantrae -	1,335	6,162	4,930	3,061	1,093	582	614	5 3 0	923	717	1,226	808	21,981
Totals 1921													2,698,496
Totals 1920													3,069,415

In view of recurring controversy regarding the retail prices of fish, a note of the average wholesale prices per lb. realised by the fishermen at the ports of landing for a number of the chief species and classes of white fish throughout the past year may be of interest. These were:—

Haddocks .	2.9d.	Cod and Codling.	2.9d.	Whitings	1.7d.
Ling	1.6d.	Saithe	1.0d.	Total round fish .	2.6d.
Plaice	7.0d.	Halibut	9.4d.	Lemon soles .	9·3d.
Total flat fish	7.7d.	Skates and Rays.	1.4d.	Total white fish `.	3.0d.

The present rail freight per passenger train from Scottish ports to London, for instance, just exceeds $\frac{3}{4}$ d. per lb. As this rate, however, is charged on the gross weight, *i.e.* the weight of the box and the ice as well as the fish, the actual rate per lb. of fish is appreciably higher, and it is also necessary to add costs of handling and cartage, the upkeep of packages and overhead charges, as well as wholesale and retail dealers' profits, before the prices charged to the public are reached. Apart from the question whether or not these have been reasonable, it is beyond doubt that it would be in the interests of the industry if public demand could be stimulated by cheaper supplies; but it will readily be appreciated from the above figures that there is little margin for any substantial reduction on the first cost of the fish.

2. Trawling.

Although the fleet of trawl vessels was greater than ever before, their catch was much less than in 1920, chiefly as the

result of the protracted coal dispute. Financial results were most discouraging, owing on the one hand to the high level of working expenses, accentuated during and after the coal dispute, and on the other to the comparatively low wholesale prices for fish ruling throughout the year. Prices it is true were on the whole slightly better than in 1920, and expenses latterly were falling, so that prospects improved; but at the same time trawlers' earnings were even poorer than in 1920, and it is estimated that at least a third of the fleet failed to clear expenses. The catches taken on the nearer grounds in the North Sea were of inferior quality, containing throughout the year a large proportion of small haddocks and whitings, which, except when supplies where short, never realised remunerative prices and not infrequently proved unsaleable. In the latter part of the year this want of success was partially redeemed by good takes of lemon soles, which species as an exception shows a pronounced increase in the trawl landings as compared with 1920. Long voyage trawlers suffered especially from the heavy expenditure incurred for fuel, etc., while they derived little or no benefit from the better prices obtained in the more unsettled weather, as owing to the prolongation of their voyage at such times their expenses were increased and their catches landed in inferior condition.

Comparatively few trawlers visited Faroe or Iceland. During the spring and early summer months, when fishing in those waters is usually most remunerative, the enhanced prices then prevailing were in many cases insufficient to offset the heavy expenditure on coal due to the dispute. At that time vessels which were fortunate in making quick trips realised good earnings, but others incurred losses, especially towards the end of the period, when prices of fish fell.

The total landings of white fish by steam trawlers amounted to 1,765,336 cwts. valued at £2,461,576, against 2,290,628 cwts. and £3,041,332 in 1920. In addition motor trawlers landed 1546 cwts. valued at £5093, and sailing trawlers, which work only from Annan, 2014 cwts. valued at £2014. The motor and sail landings consisted chiefly of plaice. Of the total quantity landed by steam trawlers 74 per cent. was landed at Aberdeen, 22 per cent. at Granton, 4 per cent. at Dundee (including a few landings at Montrose), and the balance of less than $\frac{1}{2}$ per cent. at Peterhead, Buckie and various other ports.

A number of trawlers of the drifter type, owned by share fishermen belonging chiefly to Moray Firth ports, worked from their home ports or from Aberdeen, but with no great success. During the year trawling for white fish was probably more profitable than herring fishing, but the future prospects of this type in more normal conditions are doubtful.

3. Great Lining.

Great line fishing, like trawling, is based chiefly on the port of Aberdeen, where during the year 88 per cent. of the total catch by steam line vessels was landed. The other centres from which great lining is conducted, although more intermittently, are principally Oban and Mallaig, with Campbeltown and Stranraer, on the

West Coast, and Wick, Fraserburgh, Peterhead, Montrose and Newhaven on the East. The vessels which work on the more distant grounds, and which of recent years have had much the best results, are large sized steamers comparable with the largest trawlers. Halibut is the principal object of their operations, although incidentally other kinds of fish, chiefly cod and skate, are taken in large quantities. In the North Sea vessels of the herring drifter type fish for cod, and on the nearer grounds off the West Coast for cod and for conger eels, ling, roker and hake. Great lining is also occasionally followed by large or medium sized motor boats off the East Coast and

in the Firth of Clyde.

In the statistical tables appended landings by great liners are not separately distinguished, but the great bulk of the catch is landed by steam vessels. The landings by such vessels show an increase on the previous year's catch, corresponding to the larger fleet at work. Liners which were converted for trawling during the war had all been refitted for lining by 1921; while more drifters than usual followed line fishing on account of the difficulties confronting herring fishing. In addition some 30 trawlers were temporarily equipped as liners during the summer On the whole results were less successful than in 1920, largely owing to the interruption and increased expenditure caused by the coal dispute. The total quantity of halibut taken by line during the year constituted a record, and the value, as in 1920, represented more than half the total value of the steam line catch. The chief halibut grounds were off the Faroes, Rockall and St. Kilda, and on Lousy Bank. The grounds off the west of Ireland, where in 1920 splendid shots were obtained, could not be fished at the height of the 1921 season owing to the prevalence of dog fish. A few very successful Iceland trips made late in the season by a large liner are likely to be followed up this year by other vessels of the same type.

Operations in the North Sea were begun in March and extended as herring bait became available. The fishing was continued with fair results until July, when the incursion of shoals of dog fish caused the fishermen to cease operations. Most of the vessels engaged, although belonging to other ports, worked from Aberdeen, where they are assured of a regular market. Some 20 drifters and a few motor boats belonging to Eyemouth District worked from North Shields from about April, at first with great success, but the expenses of the long trips to the grounds in the North Sea on which they were operating were found too heavy when catches fell off, and the fishing was abandoned in

May.

4. SMALL AND HAND LINING.

Fishing by means of small and hand lines, which had shown a slight decline from the activity of war time, recovered to some extent during the year. This was, however, not due to any conspicuous success attained,—as often only a bare living could be earned by these methods of fishing, while the work involved in baiting lines is laborious both to the fishermen themselves and to their families,—but to the fact that line fishing could be counted on to yield a steady if meagre return, and to many of the fishermen in present circumstances this is becoming a first consideration. The

expense and labour of baiting and, at times, difficulty in obtaining bait are the chief drawbacks, and a number of fishermen, especially in Peterhead District, therefore adopted "ripper" fishing, in which a lure of burnished lead takes the place of bait. This outfit has the additional advantage of involving less initial outlay, which has also become an important consideration. The greater part of the small and hand line catch was, however, as heretofore, landed by the fishermen of districts such as Montrose, Banff and Shetland, where lining is regularly prosecuted as the chief means of livelihood of a large number of able-bodied fishermen. Haddocks and codlings are the principal kinds of fish taken, and catches by motor boats continue to predominate. Including great line shots, which, as indicated above, are not distinguished, the total catch by motor and sail liners amounted to 480,096 cwts. valued at £604,337, in which, however, are included, 55,871 cwts., valued at £42,879, landed by foreign fishing vessels, chiefly cod partly cured at sea brought to Aberdeen by Faroese fishing smacks (vide Table B.—No. II., p. 116). It was found that practically all the herring fishermen who had taken up small and hand lining reverted to their usual occupation during the summer fishing, in the hope, which unfortunately was not realised, of securing more remunerative results.

5. Cod Net Fishing.

Fishing for cod by means of anchored nets is prosecuted during the spawning season, or from the end of January to the beginning of April, chiefly in the Moray Firth, but also in the lower reaches of the Firth of Clyde and off the western coast of Ross-shire. A similar method of fishing for codling is also employed in the Firth of Forth and in Montrose District. In 1921 the Moray Firth season closed earlier than usual, owing to scarcity of fish and loss of and damage to nets. The nets are left unattended in the sea, and it was alleged that much of the damage had been caused by foreign trawlers at work in the Firth. Prices realised for cod ruled low, and considering the heavy loss of gear results were very disappoint-The total catch for the season amounted to 40,151 cwts., valued at £41,836, against 35,055 cwts. and £49,419 in 1920. the former year the maximum fleet engaged numbered 14 steam. 146 motor and 10 sail vessels, against 34 steam, 159 motor and 21 sail last year. The Western Ross fishing was a pronounced failure, while results off the Ayrshire coast were only moderate, chiefly on account of low prices.

6. Danish Seine Net Fishing.

This method of fishing, the introduction of which into Scottish waters has already been described, was mainly confined to the Moray Firth. English vessels which landed at Aberdeen had disappointing results and soon abandoned the fishing, but Moray Firth crews, probably on account of their knowledge of the grounds, fared much better. In all 783 landings were made by steam vessels and 114 by motor boats, totalling 15,200 cwts., valued at £38,084, mostly plaice, haddocks and lemon soles.

7. FLOUNDER SEINE NET FISHING.

The total quantity of fish taken by the ordinary flounder seine net was 28,712 cwts., valued at £56,918, against about 15,000 cwts., valued at £40,000 in 1920. Practically all was landed by motor boats, and considerably more than half in Montrose District. An additional inshore area in the vicinity of Peterhead was opened to this method of fishing during the year, but did not yield the results expected. The coastal waters specially opened to flounder seine net fishing now extend on the East Coast from Rattray Head in Aberdeenshire to Babbet Ness in Fifeshire, and off the south shore of the Firth of Forth from Gullane Ness to Cramond Island, and in the Firth of Clyde within the line from the Mull of Cantyre to Corsewall Point.

8. SPRATS, SPARLINGS AND MACKEREL.

Sprat fishing is confined to Inverness Firth, where it is carried on in conjunction with drift net fishing for small herrings, and to the Firths of Tay and Forth. The season extends from about October to March, so that the landings for a calendar year represent the second part of one season and the first part of the next. In 1921 the total catch was 44,633 cwts., valued at £5446, or 2s. 5d. per cwt. Owing to the plentiful supply of larger fish the demand for sprats for home consumption, which was considerable during the war, has almost disappeared, and a large proportion of the year's catch was disposed of for manure, although over one-fourth was cured for export.

Sparlings, which are taken in estuaries, are landed in such small

quantities as to be of little importance commercially.

The demand for mackerel, as for sprats, has greatly fallen off since the war, and the majority of those landed are taken incidentally in the course of drift-net fishing for herrings. For the total catch of 53,805 cwts. the average price was 8s. 6d. per cwt. The quantity utilised for curing was less than 10,000 cwts.

9. CRUSTACEANS AND SHELL FISH.

As in the preceding year creel fishing for lobsters and crabs received considerable attention, and the landings of both again show increases. Lobsters are taken for the most part in the crofting areas, chiefly around the Minch and in Orkney, and catches during the past year were as a rule very satisfactory. The exceptionally warm weather experienced, however, frequently caused a heavy mortality in consignments, which tended to discourage operations when conditions were most suitable for fishing; while as winter approached fishermen began to consider the risk to gear greater than was warranted by the prices realised, and fishing was restricted. Crabs are taken chiefly on the East Coast from Montrose District southwards, where also a considerable number of lobsters are taken by small boats.

The total value of oysters taken was only £1541. With the exception of small quantities from West Loch Tarbert, Argyll, all were from the Loch Ryan beds.

The quantities of mussels and clams taken show increases, reflecting the increase in small lining, as bait for which both kinds are chiefly used. Only in the Solway area are mussels taken for human consumption, being despatched thence to English towns.

10. DISPOSAL OF CATCH.

The quantity of fish other than herrings cured shows a considerable decrease from the preceding year, totalling only 392,205 cwts. as against 652,993 cwts. (Table D.—No. I. (b), page 123). The decrease was common to all kinds of white fish, but sprats and mackerel show increases. Sprats were cured pickled at the Firth of Forth and Inverness Firth fishings, chiefly for export to Sweden, where, it is understood, they are subsequently tinned. Mackerel curing (chiefly tinning) was carried on mainly at Fraserburgh, where the fish were obtained cheaply during the summer herring fishing. Nearly two-thirds of the white fish cured consisted of haddocks smoked for the home markets, representing more than half of the haddock catch for the year. Haddock smoking is understood, however, not to have yielded very satisfactory returns, owing largely to the general financial stringency and the resulting difficulty in obtaining prompt settlement from retailers. The competition of such ports as Hull and Grimsby in the English markets is now also more keenly felt, owing to the increased disadvantage which the higher railway rates impose on Scottish produce. The demand for dried cod. etc. was poor, which is attributable to the decreased purchasing power of the consuming countries and the keen competition of Norway, Iceland and Newfoundland, whose fisheries, being more dependent on the export trade, were apparently in a position even worse than our own. Discrimination by Spain and Portugal against the products of Norway and Iceland in retaliation against the prohibitionist policy of these countries, however, favoured Scottish trade. Very little tinning of white fish was done during the year, as large stocks of the previous year's output remained on hand.

The curing of white fish is very largely centralised at Aberdeen. Haddock smoking, and to a less extent the drying and smoking of cod, are, however, carried on on a much smaller scale at other East Coast ports and at Lerwick. The total cure on the West Coast did not amount to 1000 cwts. The new tinning factory at Stornoway, although completed, did not come into operation during the year.

The total quantity of each kind of fish marketed fresh, arrived at by deducting the quantities used for curing from the total quantities landed, is shown in Table C. (p. 121).

11. WHALING.

Owing to the depression in the market for oil, which forms the chief product of the whaling industry, no whaling operations were conducted from any of the stations in Scotland during the year.

CHAPTER V.

TRANSPORT AND DISTRIBUTION.

The problem of transport and distribution continues to exercise the minds of those engaged in the Scottish fishing industry, Scotland being, as compared with England, seriously handicapped by the distance of the principal fishing ports from the important centres of consumption, and being moreover confronted with peculiar difficulties of communication. The railway system is subject to exposure to severe weather conditions, causing delays and breakdowns; there are many steep gradients throughout the country, and several of the principal ports are served by single lines only; while as regards the fishing ports situated in the various islands, the extra handling involved in a steamer and rail connection, and delays in sea transit owing to fogs and storms, constitute further handicaps.

The principal points of the problem in Scotland may be briefly

outlined as follow:-

(1) The organisation of a regular and efficient service for conveying fish in the shortest possible time from the ports of landing to the morning markets in the large centres of distribution. Expedition in the running of trains has in some cases resulted in a later hour of despatch from the ports being arranged, and this has proved a valuable concession.

(2) The running, at short notice, of special fish trains wherever

justified by the traffic.

(3) The restoration of pre-war steamer services between the Mainland and Outer Islands. This is of special importance in the case of Stornoway, where a strong demand exists for a daily service all the year round.

(4) The provision of convenient loading accommodation and of sufficient rolling stock in all respects suitable and in proper condition for carrying the different classes of fish

traffic.

(5) Satisfactory arrangements for the delivery of coal, stores, fishing gear, etc. at the various outlying ports; also the prompt return of empty boxes.

(6) The granting of special travelling concessions to fishworkers

proceeding to and from the curing centres.

(7) The running of fast goods services of which the trade generally could take more advantage.

(8) Revision of rates for fish (including mussels for bait).

Various complaints and suggestions, with regard to these and other matters affecting the fishing industry, which were received by or came to the notice of the Board during the year were carefully investigated, and every effort was made to remove difficulties and to improve the transport facilities. In this connection the Board continued to keep in close touch with the railway and steamship authorities, who have been found at all times most willing to assist wherever possible—this remark applying equally to the period

during which the railways were under Government control and the

period which has elapsed since the control was removed.

In the Board's report for the year 1920 reference was made to the marked all-round improvement which had been gradually effected in the course of that year in the railway facilities for the transport of fish from Scotland to the English markets.

During the period now under review this improvement was steadily continued, arrangements being made so far as possible to speed up the running of the special fish trains, and to ensure their arrival in time for the opening of the southern morning markets. It is observed that the first effects of the introduction of the grouping system has been to stimulate competition, canvassing for fish traffic being now very active between the Eastern and Western Groups, and

this should certainly tend to benefit the fishing industry.

The year 1921 was marked by a considerable increase in the employment of motor road transport for fish, and it seems probable that the competition between rail and motor transport will become keener as time goes on. In many cases, of course, the motor lorry is merely serving as the necessary link between the port of landing and the nearest railway station, but on occasion this form of transport has been introduced by way of experiment to compete with the railways for the fish traffic, and here the relative cost, on which the success of the venture must chiefly depend, can only be ascertained by actual trial over a prolonged period. It is perhaps unnecessary to emphasise the importance, in the interests of both the trade and the public, of reducing to a minimum every expense in the handling of fish from the time of capture until delivery to the consumer, and this can be effected to some extent by greater co-operation.

The increased producing capacity now existing calls for greater efficiency in the organisation of distribution to the consumer. The industry is passing through difficult times, and while the improvement of the means of distribution is primarily a matter for the wholesale and retail traders themselves, there may be found in some cases scope for municipal enterprise, for example in the provision of markets or improvement of existing accommodation, with a view to ensuring that the local supply of fish may be ample, regular and

obtainable at the lowest price possible.

During the period under review there was no appreciable extension of the "small parcel" (by post) system or addition to the number of hawkers and fish-frying establishments, both of which would help materially in increasing the consumption of fish. Fish hawking at the present time is rendered extremely difficult, as the class for which it caters has little money to spend on fish, while the initial cost and running expenses of the outfit are still heavy, and in some cases the hawker has been compelled to turn for the time being to other means of livelihood. It is hoped that with a revival of trade generally, and with less unemployment and distress in the country, rapid improvement may be seen in the directions indicated.

As regards the question of railway rates, Scottish ports are naturally handicapped in the matter of access to southern markets by reason of their geographical position, which also has the effect of restricting the use that can be made of goods trains for the conveyance of fish traffic from the ports. The high cost of carriage in

the year 1921 as compared with that in pre-war days has undoubtedly had a prejudicial effect on the Scottish fishing industry, and the Board, while appreciating that there is some force in the contention of the railway companies that railway rates can only be reduced after there has been a revision of the wages and general working conditions of their employees, and a substantial reduction in running costs, attach great importance to the urgent necessity for lowering the cost of carriage at the earliest possible moment.

During the early part of 1921 the Aberdeen Fish Trade Association petitioned the Minister of Transport for reconsideration of the railway rates on fish, and at the same time circularised Members of Parliament and other interested parties. The Board were approached in the matter and submitted their views thereon to the responsible

authorities.

Throughout the year complaints from many Scottish fishing ports on the subject of railway rates were received by the Board, who have

continued to give the matter their close attention.

The Joint Committee which was appointed in June 1920 from the various Government Departments concerned, the fishing industry, and the railway companies, in order to consider the question of the transport of fish, and on which the Board were represented, duly issued their Report at the beginning of 1921, showing the range of their inquiries and the directions in which satisfactory results had been obtained. The Committee were then adjourned *sine die*, the representatives of the Government Departments forming a standing Sub-Committee to consider fresh questions, with power to call a

meeting, if necessary, of the full Committee.

The meetings of the Edinburgh Standing Conference, consisting of representatives of the Board of Agriculture for Scotland, the Fishery Board for Scotland, the Scottish Board of Health, the Board of Trade and the Scottish Office, which was constituted in July 1920 for the purpose of considering all proposals for new or improved inland transport facilities in Scotland and reporting thereon to the Development (Scotland) Committee for submission to the Ministry of Transport, were suspended in March 1921, the Minister of Transport having intimated that, in view of the urgent need for the restriction of public expenditure and its bearing on development, he was unable to recommend any expenditure out of monies voted by Parliament in the financial year 1920-21 for the purpose of developing transport, and that he would not be in a position to make provision for expenditure under this head in the Estimates for the year 1921-22. The Edinburgh Standing Conference has therefore been in abeyance since March 1921, one meeting only having been held during the period under review, at which the question of the possibility of improved steamer services to the Western Islands was discussed with the representatives of the steamship companies.

Before leaving this subject, the Board wish to place on record their appreciation of the efficient manner in which the Scottish railway and steamship companies, often under conditions of great difficulty, continued throughout the prolonged coal dispute of 1921 to provide transport facilities, not only for marketing the fish landed at the various ports, but also for delivering the coal and stores required by the fishing fleets in the prosecution of their work; and

although the service during this period was necessarily curtailed in some instances, the Board found the companies at all times most willing and ready to assist the trade in every way possible.

CHAPTER VI.

DEVELOPMENT.

1. DISPOSAL OF ADMIRALTY DRIFTERS TO EX-SERVICE FISHERMEN.

With the exception of six wooden drifters returned to the Admiralty as unsaleable, all the vessels—75 in number—taken over by the Board for disposal under this scheme have now been sold.

The prices originally fixed for these vessels were as follow:—£6500 for new and £6000 for re-conditioned steel vessels, plus £500 if equipped for trawling, and £5000 for new and £4500 for re-conditioned wooden vessels, but in consequence of the depression in the industry and the great fall in the value of fishing vessels a petition was received from the purchasers in the course of the year praying that a substantial reduction be made on the original prices. This petition was strongly supported by the Board, and H.M. Treasury ultimately sanctioned a reduction of 25 per cent.

After allowing for this reduction the value of the vessels sold is in round figures £310,000, and of this sum about £40,000 had been repaid up to the end of 1921, while a further sum of £5000 had

been received by way of interest.

Owing to the serious crisis through which the industry has passed since the scheme was inaugurated, only five crews have succeeded in clearing their indebtedness to the Board. The majority of them are in debt, and in eight cases it has unfortunately been found necessary to foreclose the mortgages over the vessels.

2. Loans to Fishermen for the Purchase of Motor Fishing Boats and the Installation of Motor Engines into Existing Sailing Boats.

In the annual report for 1920 it was stated that the applications for loans for the purchase of motor fishing boats and the installation of motor engines into existing sailing boats, for which the Board had succeeded in obtaining an advance from the Development Fund, had been much less numerous than was anticipated.

The scheme was continued during the year, but only a very small number of applications was received, and in no case were the applicants able to comply with the revised conditions on which

loans could be granted.

The total number of loans advanced is eight, amounting in all to £1835, over boats and engines costing £2575.

The scheme has now been discontinued.

3. Lobster Fishery Development.

During the year the lobster investigations were actively pursued, although, owing to the curtailment of the funds placed at the Board's disposal for this purpose, operations were conducted on a less comprehensive scale than was originally contemplated. The Board's expert has visited many of the localities in which lobster fishing is pursued, and with the aid of local observers has collected much useful information regarding this crustacean. Large numbers of lobsters have been weighed, measured and examined, and the results, together with other data and material collected, have been placed at the disposal of the scientific staff at Aberdeen, where the life history of the lobster is being investigated (vide also p. 49).

In the course of the year the lobster expert visited the principal lobster fishing ports on the East Coast in order to enlighten the fishermen as to the best methods of fishing and the possibilities of

development there.

4. OYSTER FISHERY DEVELOPMENT.

The operations contemplated for the year under review in connection with the Board's scheme for the resuscitation of the Scottish oyster fisheries, to which reference was made in the last annual report, had to be very considerably curtailed owing to the necessity for restricting expenditure, while they were still further hampered by unexpected difficulties which were encountered in the course of the year. It had been arranged, pending a supply of brood oysters becoming available from the Conway oyster breeding station, to obtain a stock from France, but delay occurred in consequence of a serious mortality amongst French oysters, and subsequently difficulties of transport incident on the coal dispute rendered it impossible to secure a supply from that source in the extremely hot weather which prevailed. Ultimately a stock was obtained by sea from Holland, and despite the hot weather conditions, the bulk of them were successfully laid. These Dutch oysters went to supplement a stock of native oysters which had previously been transplanted from Skye waters in the course of surveys of various grounds on the West Coast for the purpose of studying the temperature and specific gravity of the waters and other natural conditions. Later on, when the oysters began to spawn, efforts were made to collect the fall of spat, but these efforts were frustrated owing to difficulties in obtaining proper collectors and other materials required, and to the prevalence of stormy weather.

It is hoped that greater success will be achieved in this direction during the summer of 1922, although in the absence of any means of impounding it a considerable loss of spat seems to be inevitable. An artificial breeding station in Scotland would have been invaluable as a means of eliminating adverse natural conditions, and plans therefor were drawn up, but had to be abandoned as too costly in

existing circumstances.

By arrangement with the Development Commissioners and the Ministry of Agriculture and Fisheries, the Board's expert in ostraculture gave his assistance in connection with the breeding experiments being conducted at Conway. It is recognised that during the present financial stringency it is impossible to devote more than a bare minimum of public funds to oyster development, but the Board trust that it may eventually be possible to carry out the scheme on the full scale originally contemplated.

5. Use of Aircraft for Locating Fish Shoals.

As stated in the last annual report the Board, in 1920, approached the Air Ministry with a view to testing the utility of aircraft for the detection of shoals of fish in Scottish waters.

The matter was pursued in 1921, and eventually after considerable difficulty, owing to reductions in the Air Service, an airship flight over the North Sea was arranged to start from Pulham in July with a member of the Board's scientific staff and one of their fishery officers on board to act as observers. Unfortunately, owing to a mishap to another airship, necessitating sudden and drastic alterations in the Air Ministry's general programme of flights, the cruise had to be cancelled at the last moment, and no other airship being available efforts were made to obtain the use of an aeroplane, seaplane or flying boat, but without success.

The Air Ministry have indicated that the Board may rely on their continued co-operation, and it is hoped that a flight may be arranged

during the summer of 1922.

Meanwhile the Board are keeping the question under general observation and reports of experiments have been obtained from various sources, including official accounts of a trip made in August over a portion of the waters adjoining the West Coast of France, by a dirigible of the French Air Service, and of observations made by the Ministry of Agriculture and Fisheries from an aeroplane during the East Anglian herring fishing. So far the tests, while demonstrating the feasibility of air observations, cannot be regarded as conclusively showing their practical application for fishery purposes, and it is hoped that further light will be thrown on this aspect of the matter by later experiments.

6. Wireless Communication for Fishing Vessels.

The development of wireless communication as applied to fishing vessels is being kept under observation. The Board understand from the Postmaster-General that the matter is forming the subject of further experiment and investigation, the results of which will be communicated to the Board.

7. Intelligence.

As is well known, the herring fishery is the most important branch of the fishing industry in Scotland, and owing to the highly perishable nature of the herring and the fact that the fishery is prosecuted at remote and widely scattered ports, the dissemination of reliable and prompt intelligence as to its progress is of vital importance to all branches of the industry.

Recognising this fact, the Board in the year 1895 established a system of official telegraphic information between ports at which herring fishing is in progress, and last year the number of telegrams issued was about 3500.

The telegrams are despatched daily at noon by the Board's Fishery Officers from their own ports to every other port at which herring fishing is then going on, and upon receipt they are exhibited at the fish markets and other public places, where they are available for consultation by all concerned.

The points on which the telegrams give information are (1) number of arrivals of herring boats, (2) average catch per boat, (3) quality of the fish, (4) range of prices, (5) position of chief fishing grounds,

and (6) nature of wind and weather.

The cost of the service is practically only that of the telegrams sent (which last year amounted to less than £350), but it has been of great and acknowledged value to the industry by assisting in securing the best distribution of the herring fishing fleet, and the stabilisation of prices in a business which, owing to its dependence in large measure upon the system of consignment to Continental and other foreign markets, would otherwise be highly speculative.

CHAPTER VII.

MARINE SUPERINTENDENCE.

1. GENERAL.

The protection and regulation of the fisheries in Scottish waters is carried out by the Board's fleet of five fishery cruisers, with the assistance of the Admiralty trawler "Exe," which is chiefly employed in the Moray Firth area for the purpose of dealing with foreign trawlers.

In England and Wales the duty is performed by the Admiralty, and to a small extent by the local fishery district committees for the enforcement of the regulations made by such committees, but in Scotland it has always been regarded as the proper function of the central fishery authority. In the early years of last century two naval vessels were assigned to act under the instructions of the Board's predecessors, but in 1818 the Department acquired a vessel of their own and shortly thereafter the number of naval vessels was reduced to one. Under the long series of herring fishery Acts various powers were conferred and duties imposed on the Board in regard to marine superintendence, the officers commanding the vessels employed being appointed "Superintendents of the Fishery," and with the development of other methods of fishing and the extension of national and international regulations affecting fishing vessels, those duties have been greatly extended by more recent statutes, and the fleet of fishery cruisers was gradually increased to its present number.

Prior to 1899 the cost of the service was borne on the annual estimates voted by Parliament, but since that year it has been met out of an annual grant of £15,000 under the Local Taxation Account (Scotland) Act, 1898. With the great increase of costs consequent on the war, the annual grant is insufficient to meet the expenditure involved in maintaining the fleet, and it is with the utmost difficulty, and only by encroaching on a rapidly diminishing reserve fund, that it is possible to carry on the service efficiently.

The Board's cruisers were employed mostly on the stations best suited to their seagoing capacity. The services of the drifter "Maelstrom" were utilised until September 1921, when the new boiler of the "Brenda" was completed and that vessel resumed duty on the East Coast station. The "Maelstrom" gave useful service, although her lack of speed and the want of an electric searchlight

detracted from her efficiency.

In carrying out their duties the fishery cruisers, despite the restrictions on their movements during the coal mining dispute, steamed about 58,394 knots, and effected 75 detections of illegal fishing. Numerous cases of such fishing reported by private individuals were investigated by the officers of the cruisers, and assistance was given on many occasions in fixing the *loci* of cases observed and reported.

The following table gives details of the work performed by the

respective cruisers during the year:-

Particulars.	"Norna."	"Freya."	"Minna."	"Brenda" or "Mael- strom."	"Vigilant."
Number of days at sea - Number of knots steamed Detections of illegal	235 18,745	200 11,212	170 9,950	199 9,317	191 9,170
trawling (including seine-net fishing) - Detections of illegal fish-	13	19	10	28	5
ing other than trawling Boats detained for	•••	•••	•••	•••	•••
marking Boats cautioned for	5	61	57	1	113
lighting	4	14		9	112
Foreign trawlers observed	24	21	•••		2
Number of occasions seen	41	34			. 2
Number of craft assisted	1	3	•••		3

In addition to the detections effected by the Board's cruisers, coastguardsmen detected 18 cases, and fishermen and other private individuals 76.

Illegal fishing was most prevalent in the Moray Firth, where there were 60 detections during the year. Next in order came the East Coast area with 36, followed by the Firth of Clyde with 26, West Coast with 24, Firth of Forth with 15 and the North Coast with 8.

The coal dispute during the spring and summer months, in addition to restricting the patrol work, led to increased trawling on the inshore grounds by the reduced trawling fleet at work, while

the additions to the number of trawlers of the drifter type at work during the year also added to the responsibilities of the patrol fleet, as vessels of this class are not large enough or powerful enough for regular deep sea trawling under bad weather conditions in the open waters round Scotland. The introduction of the Danish seine-net led to very heavy calls on the cruisers, as encroachments on the waters closed to this method of fishing were very numerous during the latter part of the year, particularly in the Moray Firth. The majority of the detections in the Moray Firth area had reference to this method of fishing.

2. Prosecutions for Illegal Trawling.

During the year 132 prosecutions were instituted for illegal trawling (including ordinary seine and Danish seine net fishing) round the Scottish coasts. Convictions were obtained in 122 cases; in 5 cases verdicts of "not proven" were given, in 3 cases the defendants were found "not guilty," and 2 cases were dropped. No foreign vessels were detected illegally fishing.

The fines imposed in the 122 convictions ranged from 10s. to

£100, with an average of £42 for each conviction.

3. Prosecutions for other Offences.

The number of prosecutions of masters of fishing vessels for offences other than illegal trawling was 33, and in all 31 convictions were secured. Of the total number of prosecutions 28 were tried in conjunction with illegal fishing offences. Particulars of the offences are as follow:—contraventions of the Regulations for Preventing Collisions at Sea and Rules as to Signals of Distress—15; contraventions of the Regulations for the Registry, Lettering and Numbering of British Sea Fishing Boats—12; breaches of the weekly close time for herring fishing on the West Coast—4; refusal to comply with the orders of a Sea Fishery Officer—1; and failure to carry the ship's register on board—1.

The fines imposed in the above cases ranged from £1 to £100.

4. Trawling in Prohibited Areas Prevention Act, 1909.

This Act, which was passed with a view to excluding foreign trawlers from working in waters intra fauces of Scotland, extended to the whole of the United Kingdom those provisions of the Herring Fishery (Scotland) Act, 1889, which rendered illegal the landing or selling in Scotland of any fish taken by trawlers in prohibited areas. The administration of the Act is vested conjointly in the Board and the Customs authorities.

The Moray Firth is the largest and most important area coming within the operation of the Act, and the following table gives (1) particulars of the number of different foreign trawlers reported as having been observed working in the Firth, and (2) the number of

separate occasions on which those trawlers were observed, for the fourteen years ending 19th October last:—

		EFOR OPE				AFTER ACT IN OPERATION.														
NATIONALITY	190	7-8.	190	8-9.	1909	9–10.	191)–11.	1911	L-12.	191	2–13.	191	3–14.	1918	3–19.	1919	-20.	1920	-21.
OF TRAWLERS.	Trawlers.	Occasions.	Trawlers.	Occasions.	Trawlers.	Occasions.	Trawlers.	Occasions.	Trawlers.	Occasions.	Trawlers.	Occasions.	Trawlers.	Occasions.	Trawlers.	Occasions.	Trawlers.	Occasions.	Trawlers.	Occasions.
Norwegian - Swedish Danish	16 1 8	171 3 25	13 16	112 99	7 1 9	103 1 60	8 1 1	141 8 10	7 8 2	84 28 14	6 2 4	112 7 47	6	87 44						
Total Scandinavian	25	199	29	211	17	164	10	159	17	126	12	166	11	131						
German Dutch Belgian	1 2 8	2 2 27	1 6 10	1 8 19	5 7 9	12 15 26	16 11 3	33 15 6	28 10 5	55 24 18	15 13 6	21 29 16	15 21 15	27 58 58	 1	 i	1 5 9	$\frac{1}{7}$ 21	4 13 13	10 34 38
Total -	11	31	17	28	21	53	30	54	43	97	34	66	51.	143	1	1	15	29	30	82
Grand Total -	36	230	46	239	38	217	40	213	60	223	46	232	62	274	1	1	15	29	30	82

It will be seen that the number of foreign trawlers which resorted to the Moray Firth during the year 1920-21 was considerably greater than in the previous year, but was still much below the pre-war figures.

The Firth of Clyde is the only other closed area in Scottish waters which has been frequented by foreign trawlers, and trawling there practically ceased with the passing of the Act. On 8th July last 2 Dutch trawlers appeared in the Firth of Clyde, these being the first observed there for many years.

Fish landed in contravention of the Act is liable to confiscation by the Customs Authorities.

CHAPTER VIII.

MISCELLANEOUS.

1. Bye-Products.

The manufacture of commercial products from fish offal suffered from the general depression in industry, more especially at the chief herring fishing centres, where the offal obtained from herring pickling and kippering establishments is converted into manure and oil. Stocks of these commodities from 1920 were still on hand at the beginning of the year, which discouraged production, and even at the end of the year part of the 1920 and 1921 produce remained unsold, while at more than one factory a proportion of the offal collected during the year was still lying to be worked up.

The price generally realised for manure was £7 per ton, against £10 in the previous year, and for oil £14 against £28. The manure was disposed of to agents for despatch, it was understood, to the Continent, probably Spain, while a market for the oil was found in

Liverpool. Prices paid for herring offal were very low, usually about 3d. or 4d. per barrel when collected by the factories. The process of extracting the oil by means of benzine, instead of expressing

it mechanically, was further extended during the year.

The working up of white fish offal, including unsaleable—usually small—white fish and livers, is largely centralised at Aberdeen. Oil from the livers is the most valuable product, as it includes a proportion of prime quality for medicinal purposes and a second quality for stock feeding, although the greater part, like the herring oil, is used in industrial processes, such as soap and paint manufacture, leather making, and the tempering of steel. The other bye-products from white fish are fish meal, used for stock feeding, manure and fish glue. The demand for fish meal and manure fell off very much during the summer, and for a time subsequent to the resumption of work after the coal dispute no payment was made for offal collected. Thereafter the demand improved, and 5s. per ton was being paid against £1 per ton at the beginning of the year. The export trade in fish meal to Germany, which was the best market before the war, has not so far been re-established, and practically the whole output was disposed of in the south of Scotland, in England and in Ireland.

The total quantity of raw material used during the year was 34,000 tons, or rather more than half that used in the previous year. The products totalled 2400 tons or about 600,000 gallons of oil, valued at over £50,000, 2700 tons of meal valued at £40,000, and

2600 tons of manure valued at £26,000.

2. Prevention of Damage by Trawlers to Submarine Cables.

The inspection of trawl gear at the principal trawling ports—Aberdeen, Granton, Dundee—was carried out during the year by the Board's officers, and as hitherto the officers were given every facility in their rounds of inspection. The defects discovered, which were all remedied before the vessels left for sea, were relatively few in number, and consisted mostly of broken and loose otter board keels.

During the year 146 new sets of trawl boards were bought to replace those unfit for use and considered dangerous to submarine telegraph cables. No case of damage to a cable attributable to Scottish trawlers came under notice.

The following return shows the number of inspections of the trawl gear of Scottish and English trawlers during 1921. No gear of foreign trawlers was inspected.

Port.			No. of In	spec tions.	Cases in which gear found defective.					
rort.			Scottish.	English.	Scottish.	English.				
Aberdeen -		-	4,135	59	271	•••				
Granton -	-	-	839	1	5	•••				
Dundee -	-	-	84	***	7	•••				

3. Ornithology.

Meetings of the Ornithological Advisory Committee for Scotland, appointed by the Secretary for Scotland in accordance with the recommendation of the Report of the Departmental Committee on the Protection of Wild Birds, were attended by a representative of the Board. The position as regards birds considered to be harmful to the sea and freshwater fisheries is being kept under observation, in view of the possibility of the introduction of further legislation on the subject.

4. Telegraph and Telephone Services in the Highlands and Islands.

The question of the retention of certain telegraph and telephone lines erected during the war for naval and military purposes in the Highlands and Islands continued to receive attention throughout the year. Various conferences of the Government Departments concerned were held and were attended by a representative of the Board.

Interruptions in the telegraph services to the Outer Islands caused considerable inconvenience during the year, but it is satisfactory to note that provision has been made for the use of wireless communication with the Islands when the necessity arises.

5. THE COAL STOPPAGE AND THE FISHING INDUSTRY.

On the 1st April 1921 a general stoppage of work at the coal mines commenced throughout the country. Profiting by the experience of the previous year, the Shipping Sub-Committee in London appointed by the Coal Mines Department, on which the Board were again represented, at once took in hand the regulation of bunker supplies to the various fishing fleets around the coasts. Both herring fishing and trawling were affected on this occasion, and the claims of the industry as an essential food-producing one received every consideration.

The Sub-Committee, after considering the coal requirements of the fishing fleets and the coal stocks available at the various ports and throughout the country, decided that the supply to fishing vessels should not exceed 50 per cent. of their normal consumption. Local Committees were again set up at the fishing ports in order to regulate the bunker supplies in accordance with the Shipping Sub-Committee's instructions. The local Fishery officers, as before, represented the

Board on these Committees.

On the 13th April 1921, in view of the increasing gravity of the situation and following a warning issued by the Sub-Committee, the supply of bunker coal to fishing vessels was further limited to an amount representing altogether 25 per cent. of their normal requirements, and this allowance remained in force until the 2nd July 1921, when normal conditions were resumed.

In spite of all obstacles, however, fishing was energetically pursued around the Scottish coasts on the modified scale rendered necessary by the rationing order, and a good supply of fresh fish at reasonable prices was maintained throughout the country. It is interesting to

note that during the rationing period one ton of fish was landed at

Aberdeen for every 2 tons of coal supplied.

Questions affecting fishery interests were continually being brought before the Sub-Committee, who were kept regularly advised by the Board's representative of the daily position at each port, and in every case matters were adjusted to the best advantage. The services of the Board's Inspector of Fish Distribution who represented them on the Sub-Committee were the subject of a special letter of appreciation from the Coal Controller.

CHAPTER IX.

HARBOURS.

1. Improvement Schemes.

Reference has been made in previous reports to the necessity for State assistance in order that the accommodation at fishery harbours might be increased and the harbours otherwise adapted or improved

to meet modern requirements.

The restriction of fishing operations during the war and the subsequent depression in the industry have so decreased the revenues of the harbour authorities that it has been impossible for them to keep the harbours in a proper state of repair, much less to effect improvements, and consequently State assistance has become even more vitally necessary if the accommodation is to be made suitable for the requirements of the fishing fleet.

The pressing need for the reduction of expenditure from National funds has, however, called for a restriction of advances from the Development Fund and the Ministry of Transport, and as the only other source from which grants for the improvement of fishery harbours may be made is the Board's Piers or Quays Fund, little progress in the matter of harbour improvement was possible during

the year under review.

The Board's fund is derived from an annual grant made in terms of an Act passed in 1824, the normal amount of the grant being £3000. Since the institution of the Development Fund advances therefrom have to some extent relieved the Board's fund, but there are many cases, in which Government assistance is essential to the preservation of harbours and to the continued existence of the communities dependent on them, which do not fall within the scope of the Development Fund, and which can look only to the Board's fund for assistance. Many harbours round the coast have benefited from this fund, but the amount available is now totally inadequate to meet the requirements of the situation, and unless it is increased or continues to be supplemented by advances from the Development Fund or some other source, the position will become serious.

Advances in respect of harbour schemes were sanctioned from the

Development Fund during the year as follow, viz.:—

1. Macduff.—A further loan of £6000 to complete the improvement scheme and a loan of £20,000 to provide slipway accommodation.

- 2 Buckie.—A further loan of £56,500 to complete the improvement scheme.
- 3. Eyemouth.—An advance of £1300, one-third by way of grant and the remainder by way of loan, in addition to former advances of £3700 and £7200 respectively.

In addition to the above the Treasury intimated to the Fraserburgh Harbour Commissioners that they were prepared to make a loan of £33,250 to enable part of the improvement scheme at that harbour to be carried out, provided that repayment of the loan was

guaranteed by the Town Council.

The Treasury were also prepared to sanction an advance of £5450 from the Development Fund, one half by way of grant and one half by way of loan, towards the completion of the Boat Shelter at Lossiemouth, on condition that the Town Council guaranteed repayment of the loan, but the Town Council have not seen their way to comply with the condition.

From the Board's annual grant for the improvement of fishery harbours a sum of £495 was granted for the repair of the North Spur and other works at Findochty Harbour, and a grant of £1200 was sanctioned for the repair of the harbour at Pittenweem. The improvement of the pier at Buchanhaven, for which a grant was made in 1920, was partly carried out during the year.

The following statement gives particulars of the grants and loans made for the improvement of Scottish fishery harbours since the

institution of the Development Fund:—

					ces from nent Fund.	Contributed from Board's	Total.	
				Grants.	Loans.	Funds.		
Berwick-on-Twee	ed	•	_	£4,000	£7,000		£11,000	
Eyemouth -	-	-	-	1,633	10,567		12,200	
Stonehaven	-		-	6,500	7,000		13,500	
Fraserburgh		-	-	20,000	20,000	£5,000	45,000	
Gardenstown	-	-	-	4,000	4,000		8,000	
Macduff -	-	2	-	15,500	45,500	5,000	66,000	
Cullen -		- "	-	2,300	2,300	1,700	6,300	
Portknockie -		-	-	3,200	2,800		6,000	
Findochty -	-		-	1,500	1,500	995	3,995	
Buckie * -		-	-	8,000	96,250	. 15,000	119,250	
Lossiemouth	-	-	-	2,000	10,000	1,000	13,000	
Cromarty -		-	-	750	1,500		2,250	
Wick -		-	-	•••	36,260	• • •	36,26 0	
Whitehall (Stron	say)	-	-	10,000			10,000	
Lerwick -	-	-		7,500			7,500	
Ullapool + -	-	-	-	2,000	1,850	• •••	3,850	
		,		£88,883	£246,527	£28,695	£364,105	

^{*} In addition to the grants and loans shown above, a grant of £33,000 was made by the Treasury, and a loan of £55,500 was procured from the Public Works Loan Board.

[†] In addition a grant of £1500 and loans amounting to £1850 were made from the funds of the Board of Agriculture for Scotland.

DREDGING OF FISHERY HARBOURS.

The Dredger "Dragon," for the purchase of which the Treasury in 1920 sanctioned an advance from the Development Fund, completed dredging operations at Buckie and Macduff Harbours, and was engaged at Fraserburgh Harbour at the close of the year.

While many of the Scottish fishery harbours are in urgent need of dredging, work of this nature having been greatly restricted during the war, few, if any, of the harbour authorities are in a position financially to meet the cost involved owing to the depressed condition of the fishing industry. The primary condition of the scheme is that a harbour authority should pay the cost of the dredging carried out on its behalf, but in the special circumstances prevailing at the present time, the Board recommended to the Development Commissioners and the Treasury that the terms on which the services of the vessel were given should be relaxed. Their Lordships have been pleased to sanction an arrangement by which, where harbour authorities are not in a position to pay the full cost immediately, one half of the cost may be regarded as a deferred loan not repayable for a period of 5 years, and bearing interest at 6 per cent., which will be allowed to accumulate and will be added to the principal sum at the end of the 5 years' period. Where any harbour authority is unable to pay the other half the Board will consult the Development Commissioners, who will decide (having regard to the finances and prospects of the harbour authority) whether payment of the whole or part of this half may be waived.

A report for the year by Mr. R. Gordon Nicol, O.B.E., M.Inst. C.E., the Board's Consulting Engineer, on the work on improvement schemes for fishery harbours will be found under Appendix I., page 55.

CHAPTER X.

SCIENTIFIC INVESTIGATIONS.

1. GENERAL.

During the year 1921 steady progress was made in the reorganisation of the Board's scientific staff and increased activity in scientific research was made possible as the result of a more generous recognition of the value of research to the fishing industry. Several factors, beyond the control of the Board, have rendered progress in this direction slow, but it is confidently expected that during the coming year the Board will be in a position to contribute to the general investigation of fishery problems on a scale more commensurate with the national importance of the industry.

In 1920 an Admiralty trawler was purchased by means of a grant from the Development Fund for adaptation as a fishery research vessel in place of the "Goldseeker," but it was not until the close of the year now under review that tenders could be obtained within

the sum available for effecting the necessary alterations. The work was then at once put in hand, and it is hoped that the new vessel, which is named the "Explorer," will be in commission in May 1922

Plans were obtained for an extension of the laboratory at the Bay of Nigg, Aberdeen, to provide accommodation urgently required for the adequate housing of the whole of the increased staff and the efficient prosecution of the investigations. These plans were

under consideration at the close of the year.

In continuation of the procedure suggested by the Development Commissioners, meetings of the Interdepartmental Conference, at which the Board were represented, were held in April, October and November at Dublin, London and Lowestoft respectively. At these meetings progress in the research work of the fishery departments is reviewed, and the programme of future work discussed with the object of maintaining close co-operation between the various staffs engaged on fishery research, an economical allocation of the work between the departments, and an exchange of views and early information as to unpublished results.

Further meetings in June and November at London and Lowestoft, attended by representatives of the fishing industry, were held to discuss the proposed schemes for the protection of the plaice fisheries,

without, however, any definite conclusion being arrived at.

The annual meeting of the International Council for the Exploration of the Sea was held at Copenhagen during July. Delegates from Belgium, Denmark, Finland, France, Great Britain, Norway, Holland and Sweden were present, and representatives from Czecho-Slovakia, Esthonia, Lettonia, Poland and Portugal also attended by invitation.

The whole range of fishery research was discussed in great detail, and each section of the Council, composed of members and experts interested in a particular branch of research, drew up a definite programme of work and a statement as to what portion of that programme each country was able and willing to undertake. The methods and apparatus used in fishery research were also carefully considered with a view to the adoption of standard methods, so that the results obtained by different workers might be more readily correlated. Marine fishery research is essentially international in character, and the meetings of the International Council afford the opportunity for international co-operation and exchange of views; further, by bringing the workers of the various countries together, the basis of the investigations is broadened by a mutual understanding and sympathy such as can never be gained from printed reports alone.

2. Fishery Investigations on the "Goldseeker."

During the year seven cruises were made by the research vessel "Goldseeker" in the months of February, March, July, August, September, October and November, the ship being laid up in January for the annual refit and in April, May and June on account of the coal dispute. In all, 128 hauls were made with the trawl, resulting in a catch of 260,800 fish, practically all of which were measured. As described below, cruises were made in August and September to inves-

tigate conditions in the North Sea with special reference to the herring

problem.

At the end of October the "Goldseeker" proceeded to Lowestoft with the object of trawling for black soles (Solea vulgaris) for transplantation to Scottish waters in order to ascertain whether it would be possible to establish this valuable fish in those waters. After considerable delay owing to stormy weather, 762 of these soles were captured, but during the passage north very rough weather was again encountered and the fish were badly damaged by the heavy motion, and also by the accumulation of mud, slime, etc. in the tanks on board. By the time the Firth of Forth was reached only 39 soles survived, and these were marked and liberated to the westward of May Island. The severity of the conditions of transport can be judged by the fact that in the control experiments with plaice and dabs none of the fish survived, although the transplantation of these species is comparatively easy under normal conditions. It is hoped to make a further trial under more favourable circumstances.

The remainder of the cruises were occupied in working on the fixed stations in the Moray Firth and off the Aberdeenshire coast, comprising trawling, the collection of plankton, and taking of water samples and temperatures, the results of which are dealt with more specifically under the various sections below.

During the year 1450 fish, chiefly lemon soles, plaice and dabs,

were marked and liberated.

3. HERRING.

About one-third of the total value of fish landed in Scotland is attributable to the herring, and this fish is, therefore, of the utmost importance to the Scottish fisheries, and as such is one of the chief

subjects of the Board's investigations.

Being a pelagic fish, i.e., a fish that swims freely about the open sea at all depths from the surface to the bottom, and being dependent for its food on the minute floating or plankton organisms which drift with the tides and currents, the herring presents a problem which is quite distinct from that of the demersal or bottom-living and feeding species. After maturity, the herring frequents the bottom in order to deposit its spawn, but except during the period of spawning and perhaps in the earlier stages of growth, it would appear that dependence on the nature of the bottom or the depth of water is not a factor in its life history. Its habits are reflected in the methods used for its capture, of which by far the most important is the drift-net; and in order that large catches may be made the nets must be shot in a position where large shoals are swimming at just the right depth to strike the nets; and it cannot be insisted upon too strongly that when a "scarcity" of herring is spoken of it may only mean that these conditions were not fulfilled.

Scientists have evolved various methods of approaching this problem. If the scale of a herring be examined, it will be seen that it is marked by a series of more or less concentric hoops or rings. It is held that these marks are due to the slower growth of the fish during the winter, and that the clearer space between the rings is consequent upon the rapid growth during the summer months. By

an examination of these rings, therefore, it is held to be possible to determine the age of a particular fish, and if a sufficiently large sample of herrings from a particular shoal is thus examined, the percentage composition of the shoal as to age can be ascertained.

The practical value of this theory can be shown by a purely hypothetical illustration:—if, in a certain area, we know from past experience that the bulk of any catch will consist of herrings, say, six years old, and it has been shown during the routine of the investigations that the herrings which will be six years old next year were hatched in a bad spawning year or for other reasons are scarce, then it can be predicted that next year large catches will not be made at this particular area. The practical importance to the industry of such prediction will be at once apparent. The actual problem is, unfortunately, never so simple as this, but the illustration given will show the trend of the idea.

The validity of the theory indicated above of determining age by scale reading has not passed unchallenged, and the scientific staff in collaboration with certain mathematical and statistical experts are making a very careful survey of the premises on which it is founded.

The summer of 1921, like that of 1920, was a disastrous one for the great herring fishing on the East Coast of Scotland, and in view of reports as to abnormal "marine growths" found on certain of the grounds, the alleged poor quality of the herrings caught, and the successful operations of the herring trawling fleets on the grounds beyond the range of the drift-net fishermen, a comprehensive hydrographic survey of the area was made both in August and September.

That conditions were unusual at this period of the year was indicated by the presence of enormous numbers of jelly-like forms (Salpæ, and more particularly Salpa fusiformis) floating in the different water layers. These organisms, some of which reach a length of 3½ inches, are not to be confused with jellyfish; although much like them in general appearance, they are a much more highly organised form of life. They may readily be distinguished from ordinary jellyfish, if found adhering to the meshes of the drift-net, by their barrel-shaped form—many are pointed at both ends—and by the presence in their centre of a red and orange body about the size of a pea. The point of importance, however, is that these passively floating forms belong to the Atlantic, and their presence in the North Sea, at any time, is an indication that the warmer water masses in which they live have been transferred from the Atlantic to the North Sea. The accompanying chart shows concisely the general conditions prevailing on the Scottish east coast during August 1921; it will also serve to illustrate the area flooded by these forms in August 1920, although the character of the invasions in the different years was not precisely similar. The broken line shows the eastern boundary of the area invaded by Salps.

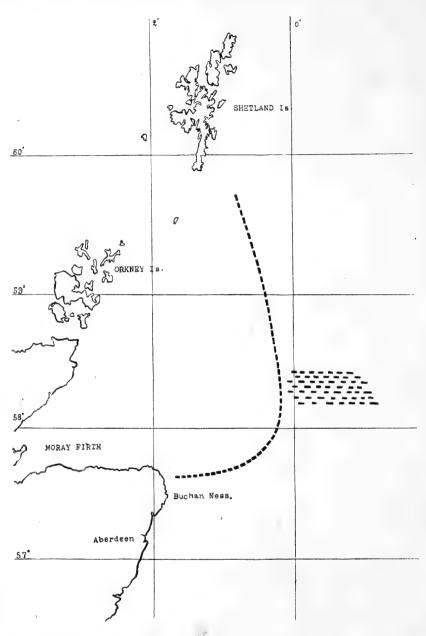


Chart showing the eastern boundary of the area invaded by Salps in August 1921. The position of the herring trawling fleet is indicated by the hatched area.

Now, as a rule the annual increase in the volume or flow of the Atlantic Stream penetrating the North Sea causes a gradual displacement of the water of the previous year. The resultant water masses are then cooled down during the winter months and fill the bottom layers of the northern North Sea, to be replaced again the following year. But only on three occasions since the inception of the International Investigations, viz. in 1905, 1920 and 1921, have the magnitude and direction of flow of this invading warm water of high

salinity been favourable for the incursion of Salps. In other words, the presence of Salps within the Scottish area of the North Sea is an

indication of unusual hydrographic conditions.

With regard to the magnitude of the invasions of the Salps in 1920 and 1921, it may be stated that they could easily be seen in numbers, from the deck of the ship, floating passively in the water, and hauls at all depths with a net, the mouth of which was only one yard in diameter, yielded enormous numbers. Indeed, in the main line of the invasion the area was flooded by these forms almost to the entire exclusion of all other forms, and there was a marked absence of the normal crustacean fauna on which herring very largely feed, a fact which may account for the reported poor condition of the

herrings caught in the drift-nets.

While it cannot be asserted that the poor results of the fishing in 1920 and 1921 were due entirely to the abnormal hydrographic conditions, it is significant that the area invaded by the Salps coincided very closely with that usually fished by the drifter fleet. It will also be noted that in 1921 the successful operations of the trawler fleet fishing for herrings were conducted beyond the boundary of the Salp-invaded area where the cooled down Atlantic water of the previous year had not then been displaced by the invading water masses. The position of the trawler fleet, including a large number of German boats, is indicated on the chart by a dotted area. The temperature of the bottom water to the eastward of the broken line on the chart was everywhere less than 8° C. (46° F.), and to the westward of the line, within the invaded area, greater than 9° C. (48° F.).

In order to carry out an investigation on the younger stages of the herring, the motor boat "Enid," with two naturalists on board, was stationed at Inverness Firth early in December. A systematic examination of all classes of herring from the areas of the Inverness Firth and Beauly basin was commenced and continued throughout the winter. Attention was also given to the very young stages, about which a great deal is still unknown. The very small herrings are extremely difficult to catch, and experiments are being made with various types of nets and gear with the object of facilitating their capture.

4. Haddock.

By agreement with the Ministry of Agriculture and Fisheries, it has been arranged that the Board shall be entirely responsible for the share of the United Kingdom in the international investigations on the haddock, and the English department for the investigations on the cod. Material is, therefore, exchanged in conformity with this arrangement.

Large fluctuations in the stock of small haddocks from year to year are a characteristic phenomenon in this particular branch of the fisheries, and the year 1921 was, as in 1906, marked by a great

abundance of small fish.

The trawling investigations carried out by the research vessel included the capture of a very large number of haddocks, all of which were measured, and definite information was obtained as to the size frequencies of fish caught on the inshore grounds by an otter trawl. These catches are directly comparable with those of the inshore

trawlers which were working on the same grounds and landing at Aberdeen market, except that none of the fish in the experimental hauls was discarded.

At the end of July, 23,300 haddocks were caught in 21 hours actual trawling, giving an average of 1100 per hour. The sizes ranged from 16 cm. to 56 cm. (61 to 22 in.), the mean length being 20.6 cm. (8 in.), but what is much more significant is that half the total number of fish caught were between 19.7 cm. (73 in.) and 22.1 cm. (83 in.), and less than a quarter of the number were over 23 cm. (9 in.). Early in September similar hauls yielded 23,500 haddock in 9 hours, giving an average of 2570 per hour. The mean size had then increased to 21.6 cm. (81 in.), due to the growth of the fish in a period of less than 5 weeks. Half the total catch were between 20.7 cm. $(8\frac{1}{4}$ in.) and 22.5 cm. $(8\frac{3}{4}$ in.), and less than a quarter were over 23 cm. (9 in.), and a haddock only 9 inches in length is a very small haddock indeed from the point of view of the The very large majority of each total catch was of the same age, belonging to the year-class spawned in the spring of 1920.

Further hauls by the "Goldseeker" in mid-November showed that there had been a considerable increase of larger and older haddocks on these grounds, and that fish as a whole were scarcer. In 38 hours' trawling 15,989 haddocks were caught, giving an average of only 420 per hour. The mean length was 25.6 cm. (10 in.), and half the fish were between 24 cm. ($9\frac{1}{2}$ in.) and 28.4 cm. (11 in.). The increase in size for the fish given here compared with that for those taken earlier in the year is due to the admixture of the larger fish. By an examination of the scales, as in the case of the herring, it is possible to sort out the catch into separate year-classes. An examination of this catch by these methods showed that the 1920 year-class, to which the bulk of the previous catches belonged, had now grown to an average length of 25 cm. ($9\frac{3}{4}$ in.).

A very large number of these small haddocks were captured by commercial vessels and thrown overboard as not worth bringing to market. In this connection it appears a matter for consideration whether the size of the mesh of the trawls commonly used is not smaller than is consistent with the true interests of the industry.

Although it would be premature to make any definite forecast, it may perhaps be remarked that it would be in conformity with previous experience if the catches of haddock in the next 2 or 3 years showed an increase in the percentage of the larger sizes.

5. PLAICE.

The more intensive investigations on the plaice have now come to an end, and definite recommendations have been made by the International Council as to the policy which should be followed for the preservation of this fishery. Work on this species is however being continued on a reduced scale, more particularly with regard to the apparent difference in the rate of growth between the younger year classes in the Moray Firth and on the East Coast of Scotland. It is found that the average length of a four year old plaice from the Moray Firth is 23.5 cm. $(9\frac{1}{4}$ in.) and off the Aberdeenshire coast 29.5 cm. $(11\frac{1}{2}$ in.), and to ascertain whether the difference in growth rate

may be due to the presence of a better food supply, a careful examination of the bottom fauna of the various grounds is being made with the object of arriving at a quantitative estimate of the stocks of food on different areas and their relation to the stock of fish.

The introduction of the Danish seine-net or snurrevaad into Scottish waters has given an added interest to the plaice investigations. Several trips were made by the fish measurers on the Board's staff in boats using this type of net. In each case every fish captured was measured, and out of a total of 3000 plaice the smallest was 18 cm. (7 in.) while 75 per cent. were over 31.5 cm. (12 in.). It is interesting to compare the results of fishing on the same grounds with an otter trawl. The "Goldseeker," working at the same time of year as the records were obtained from the vessels using the snurrevaad, captured 8000 plaice, half of the total catch being between 18 and 32 cm. (7 to $12\frac{1}{2}$ in.), whereas the corresponding half of the total catch of 3000 fish measured on the boats using the seinenet was between 32 and 44 cm. $(12\frac{1}{2}$ to 17 in.), a very marked difference in size. In each case 25 per cent. of the catch was smaller and 25 per cent larger than the limits stated.

Special investigations as to the effect on the stock of plaice of this newly introduced method of fishing have been carried out by

the research vessel and will be continued.

6. LOBSTERS AND CRABS.

The investigations into the lobster fisheries of the West Coast continued throughout the year, and the motor boat "Enid" did useful service in this connection. The difficulty experienced by many classes of fishermen in making an adequate living by line or net has induced an increasing number to take up the lobster pot as a means of livelihood. In view of the fact that the necessity for legislation may arise in the near future, as it has done in most other lobster fisheries, the statistical information being gathered should prove invaluable to the Board in arriving at any decision. In common with other branches of fishery research, unless results from a series of years are considered as a whole, most misleading deductions may be made, but it is hoped that it will be possible to continue this work, which also includes a general investigation into the life history of the lobster.

The catches of crabs on the Scottish coasts vary very much from year to year. Former experiments have shown that the crab may wander long distances from one area to another, and it is desirable to know the law which governs these movements, in what direction the crabs are likely to travel, to what extent the crabs of one fishing-region are likely to leave it, and how many will be expected to reach another region. The number of crabs which, in the autumn, leave the inshore waters where they have been living during the summer seems to be very large, and only a small proportion of these are subsequently captured by the fishermen. Some individuals return again to their home waters, while a few may be found to have travelled considerable distances.

Further experiments have been initiated in which crabs have been labelled and set free at different places on the East Coast of Scotland, and many interesting recaptures have been made. As a rule, the crabs which migrated more than 10 miles were found to the

north, and it has been possible to show the existence of a continuous procession of crabs northwards along the coast. But these do not by any means account for the crabs that disappear altogether from any particular fishery. Two-thirds of the labelled crabs are never recovered, which fact points to a very great destruction in the stock through natural agencies. The majority of the crabs that provide the catch in any one year are crabs that have cast their shells during the previous twelve months.

7. FISH SURPLUSES.

Mention has already been made of the large quantity of small haddocks thrown overboard as not being worth gutting and bringing to market and of the amount of valuable foodstuff which is wasted owing to a variety of causes, such as gluts in the market and lack of transport facilities. Neither the industry nor the country can afford such waste, and a practical method of utilising these surpluses is urgently required, and should prove a profitable channel for commercial development.

Experiments have been carried out in the Board's laboratories

with the object of discovering new or improved methods:—

(1) In the preservation of fresh fish, which cannot be disposed

of as such, for human food.

(2) In the manufacture of fish meal from surplus fish, heads, guts, skins and other fish wastes for feeding cattle, pigs, poultry, etc., and for use as manure.

(3) In the manufacture of fish meal from the invertebrate

debris inseparable from trawling operations.

One of the great difficulties to be overcome in dealing with fish surpluses is the extremely offensive nature of the smell arising from processes such as are commonly used in the manufacture of guano or similar products. For this reason the factories engaged are strictly regulated, and the necessary licence is not easily obtained. During the investigations now being conducted considerable progress has been made in the elimination of the offensive odour hitherto associated with this branch of the industry, and it is hoped that further research may result in the discovery of improved methods which will be more generally acceptable and equally if not more efficient.

The Board is indebted to Dr. J. B. Orr, Director of the Nutrition Research Institute, Bucksburn, for carrying out a series of experiments in feeding animals with the products of these investigations.

8. Drift Bottles.

The extensive liberation of surface and bottom drift bottles made in co-operation with the Ministry of Agriculture and Fisheries to ascertain the direction of drift of the water masses of the North Sea was completed in September. During the year 4800 surface and 4760 bottom drift bottles were liberated from the following stations—Bell Rock Lighthouse, off Buchanness, off Clyth Ness, off Fair Isle, and off Balta Island Lighthouse, and up to the end of the year 38 per cent. of the surface bottles and 22 per cent. of the bottom drifters had been recovered.

The surface drift bottles liberated at the end of 1920 were all carried in a northerly direction, being found on the Scottish and Norwegian coasts, many as far north as the Lofoten Islands. these, two are deserving of special mention, having been picked up on the northern coast of Norway, after journeys of 1000 and 1170 miles, 167 and 178 days respectively after the date of liberation. Early in 1921 a reversal to the normal direction of the current took place, and practically all the bottles recovered were found on the coasts of Denmark, Sweden and southern Norway, the majority coming from Denmark, and these conditions continued throughout the year.

As was to be expected from their nature, the number of bottles adjusted so as to trail along the bottom of the sea which have been recovered was not so great as in the case of the surface drifters. The direction of drift of the deeper water differs from that at the surface, and no sign of any reversal has been detected. Bottles liberated off Fair Isle have travelled to the south, from Clyth Ness towards Tarbet Ness, off Macduff round Buchaness, off Aberdeen to the south and shorewards, and from the Bell Rock Lighthouse the bottles have been

much scattered and show no very definite direction.

9. Meteorology.

The Scottish Advisory Meteorological Committee, on which the Board is represented, held a meeting in November 1921, under the chairmanship of the Director of the Meteorological Office, Air Ministry. At this meeting the question of co-operation with the scientific staff of the Board was raised, chiefly with a view to the supply of meteorological data in connection with the fishery investigations, and as a result data are being prepared by the staff of the Meteorological Office with a view to the possible correlation of the meteorology of the Atlantic and the unusual hydrographical conditions found in the North Sea during the summer.

10. REPORTS.

During the year the following scientific report was published:— Alexander Bowman, D.Sc.: The Distribution of Plaice Eggs in the northern North Sea-II. Fisheries, Scotland, Scientific Investigations, 1921, No. 1, pp. 33, one chart, 1921.

CHAPTER XI.

SALMON FISHERIES.

1. GENERAL.

The season of 1921 showed a remarkable recovery from the depressed condition which has been reported for some years. total weight of salmon and sea trout carried by rail and sea as disclosed by the returns kindly supplied by railway and steamship companies amounted to 2731 tons, a figure which has been exceeded only twice since the Board's records commenced, viz. in 1895 and 1896. As compared with the last quinquennial average it shows an advance of 1080 tons. At the average price of 2s. 10d. per lb. ruling at Billingsgate during the year the catch represents a value of £866,637, and the catch in excess of the average for the period

1914-18 represents a value of £342,720.

All parts of the coast appear to have participated in the increase to a greater or less extent, with the exception of places dependent upon the take of grilse, but the section from Berwick to Cairnbulg Point at the entrance of the Moray Firth shows the greatest improvement, as will be seen from the accompanying chart of curves. In Mr. Calderwood's Report (p. 91) will be found a chart representing the sum of the four lines here shown.

A table is given below with the figures representing the usual four divisions of the coast:—

	1894	to			1899	vera to			A 1904	vera to			A1 1909	to 1			1914	to 1		l
District.	Tons.	Cwts.	Qrs.	Lbs.	Tons.	Cwts.	Qrs.	Lbs.	Tons.	Cwts.	Qrs.	Lbs.	Tons.	Cwts.	Qrs.	Lbs.	Tons.	Cwts.	Qrs.	Lbs.
a Berwick to Cairnbulg Point b Cairnbulg Point	1,206	18	1	1	839	1	2	9	887	8	2	24	1,015	5	3	18	884	1	3	17
to Cape Wrath.	900	17	3	6	737	10	3	17	608	13	1	19	664	14	-	3	518	8	3	17
Glasgow d Glasgow to the	403	7	1	21	274	18	.1	27	209	3	3	6	205	2	-	7	157	8	3	10
Border	2 60	3	2	6	183	6	1	19	160	9	3	15	171	13	1	3	91	12	-	-
Totals	2,771	7	-	6	2,034	17	1	16	1,865	15	3	8	2,056	15	1	3	1,651	11	2	16

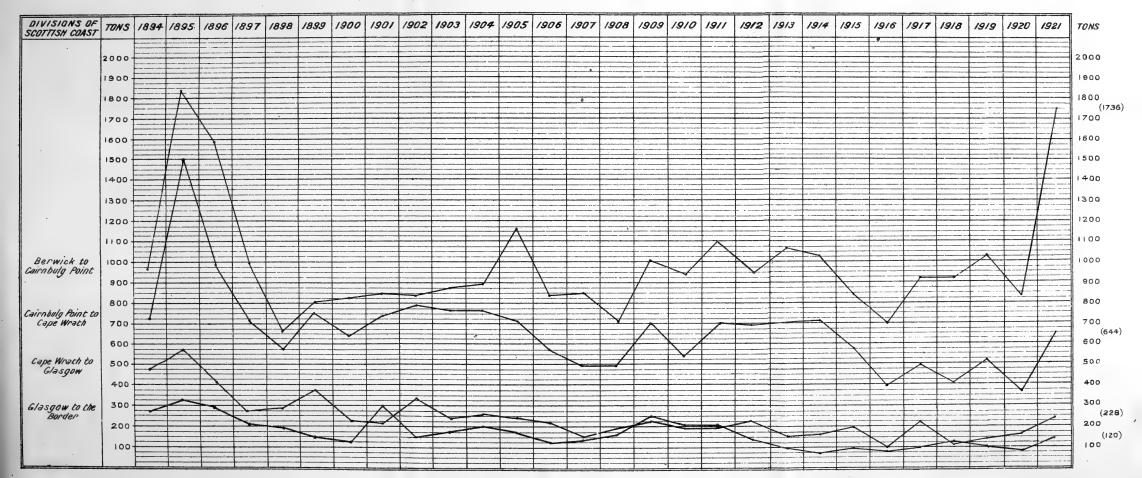
	Ye	ar 1	919.		Yea	ar 1	920.		Ye	ar 1	921.		
District.	Tons.	Cwts.	Qrs.	Lbs.	Tons.	Cwts.	Qrs.	Lbs.	Tons.	Cwts.	Qrs.	Lbs.	
5			_			_	_	-		_	_		
a Berwick to Cairnbulg Point b Cairnbulg Point	1,027	13	2	$12\frac{1}{2}$	828	14	-	20	1,736	16	2	2	
to Cape Wrath .	520	6	-	8	367	2	2	22	644	7	3	_	
c Cape Wrath to Glasgow d Glasgow to the	148	4	1	1	160	10	3	7	2 28	19	-	5	
Border	106	16	-		92	10	-	-	120	19	-	-	
Totals	1,802	19	3	$\frac{-}{21\frac{1}{2}}$	1,448	17	2	21	2,731	2	1	7	

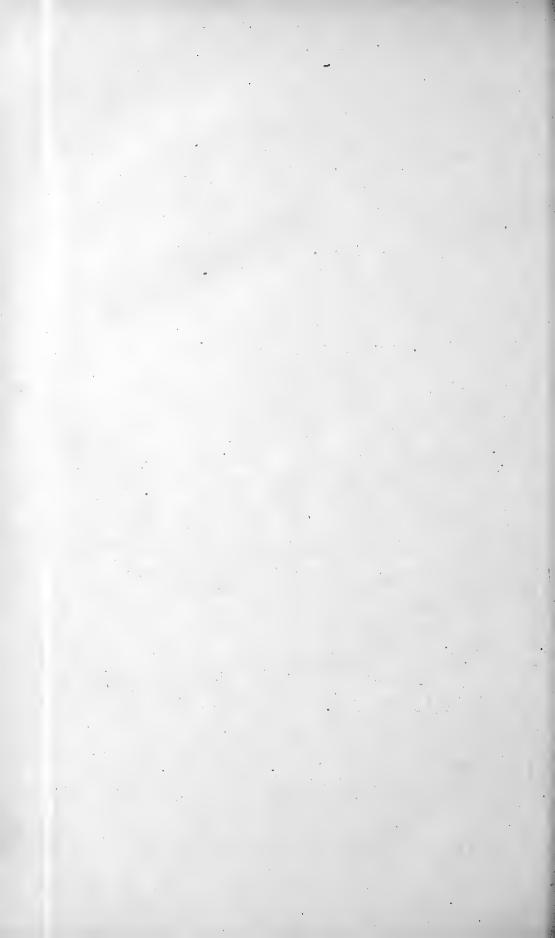
The outstanding features of the successful season have been the very steady supply of salmon during the spring months, the rather heavier weights of the spring fish, and the absence of grilse. The abundant spring fish were also found to be of very fine quality.

2. RIVER POLLUTIONS.

The serious menace to the salmon and fresh water fisherics seen in the slowly increasing pollutions, coupled with the abstraction of water for various purposes, has been repeatedly referred to in the Board's Annual Reports. On October 5th, 1921, a deputation on the subject was received in London by the Minister of Agriculture and Fisheries and the Secretary for Scotland, and as a result an enquiry has been set on foot with the view of ascertaining to what extent pollutions actually exist in Scotland. Steps are being taken by the Board to collect definite information on the subject through the medium of District Fishery Boards and Angling Associations,

CURVES SHOWING APPROXIMATELY THE TONS OF SALMON CARRIED BY SCOTTISH RAILWAYS & STEAMSHIPS SINCE 1894





while the Scottish Board of Health are obtaining similar information through the local authorities.

3. WATER POWER.

The Board are charged with the general superintendence of the salmon fisheries of Scotland, and in the interests of the conservation of the stock of fish schemes for the utilisation of the water power resources of Scotland are kept under close observation. Attention has been directed to the great extent and potential value of these resources in the Reports of the Water Power Resources Committee.

During 1921, in connection with the Lochaber Water Power Scheme, a meeting was held on 30th March in the Board's Offices between representatives of the promoters and of the salmon fishery interests concerned with the view of arranging or facilitating an agreement as to the measures necessary for the protection of the fishings. An agreement was not reached on that occasion, but the conflicting interests were subsequently adjusted and the scheme received the sanction of Parliament.

4. SALMON RESEARCH.

During the summer of 1921 salmon marking and measuring operations were conducted in the sea at Talmine, at the entrance to the Kyle of Tongue in North Sutherland, but on grounds of economy it has now been found necessary to discontinue this branch of research.

Scale reading operations also, which were conducted in Scotland by the Board's staff and which embraced the examination of scales from both the English and Irish Fishery Departments, have for the same reason been considerably curtailed. A large amount of material was collected from seven districts in Scotland, and is being worked up as opportunity offers with the reduced staff available.

In June 1921 an extraordinary mortality among salmon and trout in the North Esk was reported to the Board, who immediately set on foot an investigation as to the cause. The fish were apparently suffocated by a jelly-like organism identified as *Phæocrystis ponchetti* which was present in enormous quantities in the water, but the reason for the peculiar concentration of the substance at Montrose could not be ascertained.

We have the honour to be,

SIR.

Your most obedient Servants,

DAVID T. JONES, Chairman.
W. LYON MACKENZIE, Deputy-Chairman.
D'ARCY W. THOMPSON.
JOHN H. IRVIN.
MALCOLM SMITH.
GEORGE HALL.
WILLIAM MILLER.

GEO. HOGARTH, Assistant Secretáry.



APPENDICES.

APPENDIX I.

HARBOUR IMPROVEMENT SCHEMES.

REPORT BY MR. R. GORDON NICOL, M.Inst.C.E.

I have the honour to submit, for the information of the Board, the following report on the Harbour Improvement Schemes which are being carried out under the supervision of the Board, and were in progress for the year ended 31st December 1921.

The following table gives a list of these harbours, along with the estimated cost of the schemes and the assistance in grants and loans that is to be provided from the funds at the disposal of the Development Commissioners and the Board.

N. 0.T				Estimated	Assistance to be provided.							
Name of 1	f Harbour.			Cost of Scheme.	Free Grants.	Loans.	Total.					
Eyemouth -	-	_	_	£11,400	£1,633	£10,567	£12,200					
Pittenweem	-	_		1,580	1,200		1,200					
Buchanhaven (1	Pier)	-	-	1,800	1,200		1,200					
Fraserburgh `	_ ′	_	_	45,000	25,000	20,000	45,000					
Gardenstown	-	-	-	9,500	4,000	4,000	8,000					
Macduff -	-	-		56,850	20,500	25,500	46,000					
Do. (Slipway	(1)	-	-	20,000		20,000	20,000					
Banff · '	-		-	8,000	5.750		5,750					
Portknockie	-	-		8,000	3,200	2,800	6,000					
Findochty -		-		7,360	2,495	1,500	3,995					
Buckie -	-		-	276,500	23,000	96,250	119,250					
Lossiemouth			-	17,000	3,000	10,000	13,000					
Wick	-			36,200	•••	36,260	36,260					
Т	'otal	-	-	£499,250	£90,978	£226,877	£317,855					

Eyemouth Harbour.

Work on the original scheme for the removal of rock from the entrance channel is still suspended. A payment of £2422 from the Development Fund has been made to the Trustees in connection with the settlement of the claim by the contractor for work executed during the progress of the scheme.

The later scheme for dredging the interior of the harbour is still suspended. Payment of sums amounting to £1918, 12s. 9d. has been made to the Trustees from the Development Fund for work completed

in the previous year.

Pittenweem Harbour.

A scheme for the repair of the East Pier, which has become undermined, has been approved, the estimated cost of the repair being £1580. The Board has promised a contribution from its funds of three-fourths the cost of work up to a maximum of £1200.

Arrangements are in progress for commencing the work.

Buchanhaven (Pier).

This improvement scheme will provide berthing and landing accommodation for fishing boats at the lower states of the tide. It consists of an extension of the existing masonry pier by the construction of a sloping concrete platform 264 feet long by 10 feet wide founded on the rocks seaward of the end of the pier, the construction of a concrete stair 10 feet wide connecting the new concrete platform and the end of the existing pier, and the improvement of the landward approach to the pier.

The estimated cost of the scheme is £1800, and the Board has

promised a grant in aid up to a maximum of £1200.

The work of construction was commenced in May and is almost completed. Payments by the Board amounting to £850 have been made to the Local Committee of Fishermen during the year.

Fraserburgh Harbour.

Throughout the year the Harbour Commissioners have been in communication with the Development Commissioners and the Board regarding the financial arrangements in connection with the scheme of proposed harbour improvements. In the course of these negotiations it has been agreed to consider certain of the proposed works as having priority over others, and latterly discussion has centred upon the extension of the South Breakwater. The negotiations are not completed, but it is believed that it may be possible to make an early start with the work.

The Harbour Commissioners applied to the Board for the services of the dredger "Dragon" to remove quantities of silt which had accumulated within the harbour basins, and the "Dragon" commenced work at Fraserburgh on 24th October last. Since then 8362 cubic yards of silt have been removed and this work is still in progress. The Board agreed to defray the cost of this work out of a sum earmarked for the assistance of Fraserburgh Harbour, the amount not to exceed £5000.

Gardenstown Harbour.

This improvement scheme is still in abeyance.

Macduff Harbour.

This improvement scheme, which consists of a large new harbour basin for the accommodation of herring drifters on the east side of the

existing harbour, is practically completed.

During the year 1582 cubic yards of soft material and 770 cubic yards of rock were excavated and removed from the site of the new basin, the rock being drilled by pneumatic tools and displaced by explosives. The South Quay wall was extended for a length of 186 feet and the North Pier was completed.

The new harbour basin was formally opened and brought into use on 25th May, the opening ceremony being performed by H.R.H.

Princess Royal.

The funds of the Town Council being exhausted the Treasury, on the recommendation of the Development Commissioners, agreed to advance a sum of £8000 by way of loan from the Development Fund, and the Board promised a grant of £1000 from their funds.

Payments amounting to £6000 by way of loan from the Development Fund and £1000 by way of grant from the funds of the Board were

made to the Council during the year.

A commencement was made on the construction of the new slipway for fishing vessels at the east end of the new harbour basin by the excavation of 600 cubic yards of rock at the foot of the main slip and the formation of the concrete foundation for a length of 105 feet

The estimated cost of the slipway is £20,000, which the Treasury has

agreed to advance by way of loan from the Development Fund.

No payment has been made this year from the Development Fund

towards the cost of the slipway.

The dredger "Dragon" belonging to the Board was engaged removing silt from the old harbour basins and entrance channel during the summer months, the quantity of material dredged and deposited at sea amounting to 9840 cubic yards. The cost of this work has been charged against the Town Council.

Banff Harbour.

No works have been executed during the year.

A payment of £284, 17s. 4d., being the final instalment of the grant promised by the Board from their funds, has been made to the Trustees.

Portknockie Harbour.

The Harbour Commissioners have agreed upon a modified scheme of improvement works, and application has been made to the Secretary for Scotland for a Provisional Order to enable the works to be carried out.

Findochty Harbour.

This improvement scheme has been in abeyance during the year.

The Town Council arranged that a large quantity of silt and shingle which had accumulated within the harbour should be removed and this work is in progress, financial assistance being given through the Unemployment Grants Committee.

The spur end of the west pier has been undermined, and the Council have approved of a scheme of repair works estimated to cost £660. The Board have promised a grant from their funds of three-fourths of the cost of the works up to a maximum of £495. Arrangements are being made to commence the repair works.

Buckie Harbour.

Progress on this improvement scheme has been slow this year on

account of stormy weather.

The concrete roadway of the North West Pier has been laid over an area of 1762 square yards, and the laying of the water main in this roadway has been completed; the new concrete protective apron of the pier has been constructed for a length of 84 feet, the defective joints of the blockwork have been cut out and repointed for a length of 102 feet of the sea wall; and a new gas tank in connection with the lighting system has been erected at the east end of the pier. A new concrete roadway has been laid on Jetty No. 1, and the walls of the jetty have been repaired. The South Quay has been laid with granite causeway setts over an area of 483 square yards.

The work of deepening the entrance channel and approaches to the harbour, to provide a depth of 12 feet at low water of ordinary spring tides, which was commenced in October of the previous year, has been practically completed. The reef of rock in the fairway of the channel was disintegrated by means of a Lobnitz patent rockbreaker and removed by dredging. The quantity of material dredged and deposited at sea this year amounted to 7828 cubic yards, of which 6549 cubic yards was broken rock and 1279 cubic yards consisted of sand and gravel. This material was removed by the dredger "Dragon" belonging to the Board, the dredging operations suffering prolonged delays through stormy weather. In addition to the material dredged, 409 cubic yards of rock lying close to the pier was removed by the aid of divers with drills and explosives.

As the expenditure on works has largely exceeded the estimates, the Town Council applied to the Treasury for further financial assistance, and the Treasury have agreed to advance a sum of £56,500 by way of

loan from the Development Fund.

No payments have been made towards the cost of the scheme from the Development Fund this year.

Lossiemouth Harbour.

No progress has been made during the year on the improvement scheme, which is to provide wintering accommodation for fishing vessels in the estuary of the River Lossie.

The scheme, with the exception of the dredging of the harbour basin, is practically completed, and negotiations for the dredging work have been in progress for some time, but the matter is not yet settled.

Nairn Harbour.

This improvement scheme has remained in abeyance during the year. The Town Council submitted a scheme of harbour improvement works estimated to cost £147,000. On account of the state of the national finances, negotiations are proceeding with a view to the consideration of the more urgent portions of the scheme.

Wick Harbour.

Progress has been made with the reconstruction of the North River Pier, the debris of the overturned walls being removed and a new concrete wall being erected. The work has been seriously delayed on account of the extremely exposed nature of the site and the frequent occurrence of heavy gales. On several occasions the temporary works have been washed away.

The application by the Trustees for further financial assistance is

still under consideration.

Payments amounting to £6013, 14s. 2d. by way of loan have been made to the Trustees from the Development Fund during the year.

Bucket Dredger.

The bucket dredger "Dragon" belonging to the Board completed the dredging at Buckie Harbour in the early part of the year, and removed 1279 cubic yards of sand and gravel and 6549 cubic yards of broken rock and boulders.

The Macduff Town Council applied for the services of the dredger, and the vessel started work on 9th May at Macduff Harbour. The

dredging consisted in the removal of silt from the Entrance Channel

and older harbour basins, and 9840 cubic yards were dredged.

On the completion of this work the vessel began dredging at Fraserburgh Harbour, removing silt and sand which had accumulated within the harbour basins, and it was engaged upon this work at the end of the year, 8362 cubic yards having been dredged.

The total quantity of material dredged during the year has amounted to 26,030 cubic yards (including 6549 cubic yards of broken rock and

boulders).

The cost of this work has been charged against the harbour authorities.

R. GORDON NICOL,

Consulting Engineer.

1st March 1922.

APPENDIX II.

EXTRACTS FROM ANNUAL REPORTS BY INSPECTORS OF SEA FISHERIES AND FISHERY OFFICERS.

INSPECTOR OF SEA FISHERIES.—In a review of the results of the Scottish Fisheries for the year 1921 there is little other than disappointment and failure to record. The causes were labour troubles—particularly the coal dispute—high working costs ashore and afloat, high freights and unremunerative prices for fresh fish, with the continued closure of some of the most important markets for cured fish and the

instability of exchanges.

The winter herring fishing on the north and west coasts did well for some time, but owing to the poor demand for fresh and kippered herrings in the southern markets, herrings became almost unsaleable at the landing ports, and the season came to an early close. A few fortunate crews did well, but to the majority the results were most disappointing. On the Haddington and Berwick coasts and in the Firth of Forth a successful herring fishing was conducted throughout the early months of the year, and the fishermen engaged had fairly

satisfactory earnings.

The summer herring fishing was commenced under somewhat discouraging conditions. For the first time since the conclusion of the Great War, the herring fishing and curing industry was put upon its own resources, as the Government had intimated at the end of the year 1920 that financial assistance such as was given in 1919 and 1920 would not be repeated, and the fact that large stocks of 1920 cured herrings had not been marketed made the outlook all the more unpromising. Fishermen and curers were therefore reluctant to commence operations, but the first of the season's cured herrings which were put upon the Hamburg market from Lerwick and Castlebay found a ready sale at satisfactory prices, and gave some stimulus to the industry.

Except at the port of Lerwick, the results of the summer herring fishing were most disappointing. Fish were generally scarce, and on the whole range of the East Coast from Shetland southwards the fish caught were of very poor quality, as if they had not been getting their

usual amount of feeding.

Fishermen who conducted operations at Lerwick had a profitable season, and to many of the district crews it was one of the most lucrative fishings they have experienced, but at the other North Sea ports results were most disappointing to all concerned, as fishermen did not secure a sufficient supply of fish to make fishing remunerative, and curers had perforce to buy at too high a figure to realise a profit, while at the same time the unsatisfactory quality of the fish had an adverse influence on the whole industry.

Herrings were not suitable for the kippering trade, and when kippers were put upon the market they did not realise remunerative prices, so that firms engaged in this branch of the trade did not have a profitable season. There was little demand for tinning, as herring tinners had still

large stocks of their previous year's goods on hand.

A recent development at Castlebay and Oban is the prosecution of the herring fishing for curing until well through August. A moderate fleet, composed chiefly of East Coast craft, was employed last year. Fishermen had a fairly successful season, as they received high prices for their catches. The fish, however, were not of the usual quality caught upon the ground frequented, and curers did not always obtain the prices for the cured article that they anticipated.

During the last two months of the year a dense shoal of herrings was located in Loch Fyne and fishermen reaped a very rich harvest. On some parts of the West Coast, however, fishing was almost an entire blank, and where that occurred fishermen were in needy circumstances.

Towards the end of September the usual migration of Scottish fishermen, curers and fishworkers to the East Anglian ports took place. It was hoped that success would there be attained and the losses sustained on the Scottish coast made good, but these hopes were not realised. For the greater part of the season fish were scarce on the grounds, and when a body of fish was met with they were found to be of poor quality and did not realise good prices, and the season proved a great dis-

appointment to all concerned.

Many fishermen have not succeeded in earning a livelihood. Fishing gear has been extremely high in price, and with the poor earnings it has been impossible to renew or maintain outfits, which are, therefore, becoming depleted, and fishermen are being placed in a very disadvantageous position. With the continued closure of the Russian markets and the unstable condition of the German Exchange, it appears as if the recovery of the herring industry is going to be a slow process, but the prospects are, on the whole, better than they were at the beginning of 1921.

The trawling industry passed through a very trying and generally unremunerative year. No doubt the effects of the prolonged coal dispute were among the worst troubles that had to be contended with. Working expenses were high in any case, but during the dispute they rose to an enormous extent, and owners were compelled to lay up for a time

a good number of their boats.

The number of trawlers at work, which in 1920 was already in excess of pre-war times, was further considerably increased during the year, but landings and value show large decreases when compared with the previous year's figures. That, however, is not surprising, when the serious interruptions that took place are considered.

Herring trawling, which is usually prosecuted for some weeks about the close of the summer herring fishing season, was engaged in by a number of crews operating from the different trawling ports. The

venture, however, was not attended with great success.

At some of the Moray Firth and East Coast ports a considerable number of steam drifters were equipped and utilised for otter trawling. On the whole, however, they were not very successful, as they were

only suitable for operating on the more shallow grounds.

High railway rates constitute a question which causes a great amount of dissatisfaction amongst traders. Appeals to the Railway Companies did not result in any great redress, and there have been some suggestions to adopt road transport for fish distribution in opposition to the railway services. In some isolated cases it is already in operation and has been successful.

Great-lining was largely centred at Aberdeen, and the largest fleet on record was engaged, but operations were considerably interrupted by the coal dispute. While some vessels had fairly good earnings, results on the whole did not come up to expectations, but this branch of the industry is developing, and the outlook for it is much brighter than for trawling. Owing to the critical condition of the herring industry an unusually large number of fishermen were compelled to devote their whole attention to small and hand-line fishing in conjunction with other minor fisheries conducted on the inshore grounds along the East Coast. By strict perseverance they did remarkably well in some districts, and tided over what was to many a very difficult year. In some districts, however, these fishings bring only a very bare livelihood to those

engaged.

Lobster fishing was in general fairly successful, and in most of the districts where it is extensively prosecuted the landings were in excess of those of the previous year, although owing to a general falling off in prices the increased catch did not realise a correspondingly high value. In some of the more remote districts where there is a lack of good transport, lobsters are the only produce of the sea that can be marketed to advantage, as they are light and compact for their value and can be kept alive and fed for some time until a marketable quantity is obtained.

During the last quarter of the year the Danish seine net, which to Scottish fishermen was an entirely new mode of capture, was adopted and used extensively by Moray Firth crews. The results obtained varied greatly. Some crews met with considerable success, while others failed to make the method remunerative. The season of the year when work was commenced was perhaps not too advantageous, as daylight, good weather conditions and smooth ground are all essential to ensure success. The field of operations is naturally limited. No doubt this mode of fishing will be well tested before the close of another year.

Edinburgh, 21st February 1922.

JAMES RITCHIE,
Inspector of Sea Fisheries.

EXEMOUTH.—From a monetary point of view the fisheries of this District for the year proved a comparative failure to most concerned. Notwithstanding the efforts put forth, most of the crews found it difficult, and in many cases impossible, to keep themselves free from debt.

Fishing operations were carried on by District crews at places as far apart as Stranraer and Stornoway on the west coast and Yarmouth and

Lowestoft on the east.

By the first week of the year 9 steam drifters had proceeded to the herring fishing at Stornoway, where they met with but indifferent results

for the few weeks they were engaged.

Towards the middle of January, herrings were located between May Island and St. Abbs Head, and a successful fishing was carried on from Eyemouth till the middle of March. The number of heavy shots landed was exceptional for the season of the year, and some of the crews did remarkably well. The total landings amounted to 7734 crans valued at £14,076.

The summer herring fishing proved most unsatisfactory to fishermen and curers alike. Operations commenced at Eyemouth and North Shields in the second week of May, and soon after at the other stations on the Northumberland coast. The fleet engaged for the first few weeks was principally composed of motor boats, as most of the local steamers were at that time employed in great-line fishing. A number of English steam drifters arrived at North Shields by the beginning of June, after which the fleet gradually increased, ultimately reaching a total of 120 steamers and 58 motor boats for the District. Herrings were scarce and "spotty" and of poor quality throughout the season, which

was brought to a close in the second week of September, although quite a number of shots continued to be landed at North Shields till the end of the month by boats on passage to East Anglia. The greater part of the season's catch was landed at North Shields, the total for the Northumberland stations being 33,572 crans valued at £92,016, while 7903 crans valued at £19,577 were landed at Eyemouth.

The fishing grounds extended over a wide area, but the bulk of the catch was obtained from 10 to 15 miles off the Farne Islands and 15 to

50 miles from the Tyne. .

The prosecution of the great-line fishing received rather more attention than usual from crews belonging to this district. In the beginning of January 7 motor boats equipped with great-lines and cod-nets proceeded to Stranzaer, but the results of the voyage were barely sufficient

to clear their working expenses.

Early in April 20 steam liners were fitted out for the great-line fishing with headquarters at North Shields. For a certain period these vessels made satisfactory progress, but latterly the catches fell off, and the heavy outlays incurred on their long trips to sea (as far as 280 miles) swallowed up the greater part of their earnings. A few motor boats also took part in this fishing, but with only moderate results.

Forty-six crews from this District participated in the herring fishing at East Anglia, where their gross total earnings amounted to £16,328 as compared with £61,030 for 42 vessels in the preceding year. The fishing proved an unprofitable one, and a number of crews found themselves in

debt at the close of the season.

LEITH.—The principal features of the District fisheries during the year 1921 were the dislocation of the trawling branch of the industry by various labour troubles, the unusually large quantity of immature haddocks caught by trawlers, the poor prices ruling for fish, and the consequent unremunerative results to trawlowners. The coal dispute from the end of March until the first week of July put up the price of bunker coals and restricted supplies, while a dispute between trawlowners and crews regarding a proposed reduction of wages, which lasted from 1st May until 9th July, was the means of keeping the greater part of the fleet in harbour for two months. Another disagreement arose during April regarding the increased charges proposed by Newhaven fish salesmen for the use of boxes by buyers, as a consequence of which the latter refrained from buying fish there for a fortnight. Ultimately all these unfortunate matters were amicably adjusted, but not without having adversely affected the industry.

The local trawl fleet at the close of 1921 numbered 82 vessels, which is the highest figure it has attained and represents an increase as compared with 1920 of 8 vessels, the most of which were Admiralty drifters disposed of to ex-service fishermen through the Board. The chief feature as regards motor boats was the addition of a large new first class boat of 64 feet of keel. Sailing boats showed a reduction of 15. The most of the sailers are now old boats used by occasional fishermen at

creeks on the north side of the Firth of Forth.

The trawling industry experienced a serious and anxious time throughout almost the whole of the year as a result of the labour troubles already referred to, the poor quality of the catches, and the moderate demand which ruled for fish, particularly during the last six months of the year. The heavy destruction of trawl gear caused by submerged wrecks was also a serious matter for owners. Haddocks formed about 54 per cent. of the year's catch, and during the latter half of the year about one-half of these fish consisted of "seed" haddocks.

The prospects for trawling are meantime none too bright, but working expenses are gradually becoming less, and the cost of vessels almost as low as before the war, but the landings of immature fish require to be reduced as much as possible before trawl-owners can expect high earnings.

The quantity of trawled fish dispatched direct from Granton to Glasgow, usually by special train every morning, was 182,222 cwts., as against 202,817 cwts. in the previous year. About one-half of the trawl catch is sent there daily, the remainder being disposed of at Newhaven

market.

The winter herring fishing in the Firth of Forth was prosecuted from January to April by a fleet of about 100 motor yawls with better results than in 1920, and the bulk of the catch was brought to Newhaven, where the most of the buyers congregated. The largest part of the catch was secured by seine-net crews in the vicinity of Burntisland and St. David's. The quality of the herrings was similar to that of 1920, varying from

good to mixed.

Sprat fishing was, in point of quantity, successfully prosecuted in the upper reaches of the Firth of Forth during the months of November and December, but owing to the small size of the fish there was only an indifferent demand for them. The result was that no less than 5211 crans had to be sold to farmers for manure at a nominal price at Alloa and Kincardine, where the heaviest catches were got. Owing to the poor market for sprats at Newhaven the local fishers agreed that daily landings should be restricted to 12 crans a boat, and that only portions of the fleet should fish alternately, while 10s. per cran should be demanded as a minimum price. This arrangement appeared to work with a fair measure of success from a fisherman's point of view. 2540 barrels of partially cured local sprats were exported, the most of which went to Gothenberg, where they are tinned and, it is said, subsequently sold as sardines.

Owing to the failure of the Scottish and English herring fishings linefishing received rather more attention than it has done for two years, and during the coal dispute small-line crews reaped a rich harvest owing to the meagre supplies of trawled fish.

Flounder seine-net fishing was not so successfully engaged in as was the case in the previous year. Plaice are evidently becoming less plentiful in the waters where this mode of fishing is permissible. Only

one small catch was landed by a crew using a Danish seine net.

Crab and lobster fishings were pursued with good results by crews from Cockburnspath, Dunbar and North Berwick, although the number taken of both classes of shell-fish was less than in 1920, which was a very prolific year.

Anstruther.—The winter herring fishing, which is the chief seasonal fishing carried on locally, was prosecuted from 4th January to 2nd April by a fleet of from 70 to 90 motor boats and 6 steam drifters. During January a good regular fishing was carried on, but from February onwards the shoals were spotty, and results were often disappointing. The season, however, was a great success as compared with the failures of the six previous years. The quality throughout was generally good, and prices ranged from 13s. to 135s. per cran with an average of 39s. 3d. per cran.

All the District steam drifters and about 40 of the first class motor boats annually prosecute the great-line fishing during the spring and early summer. The motor boats did fairly well last season, but not the drifters, because of the coal dispute. Some good catches were obtained

early in the season, however, and owing to the scarcity of fish prices were high, compensating to some extent for the high running expenses and irregular trips. In June bait and line fish were difficult to locate and dog-fish numerous, and the greater part of the fleet was laid up.

About half the fleet of motor boats and 2 of the steam drifters fitted out for the summer herring fishing from northern ports, but only a few

of the most successful boats succeeded in clearing expenses.

Of the local fleet 52 steam drifters and 37 motor boats prosecuted the East Anglian herring fishing, but the season was disappointing and most of the vessels worked at a loss.

A regular small-line and hand-line fishing is carried on by the smaller class of motor and sail boats belonging to the creeks between Buckhaven and Kingsbarns, and during the seasons these boats also prosecute the herring, anchored net, and cod net fishings. Repeated attempts at cod net fishing met with such poor results that the fishermen took ashore their gear. The herring shoals never came to the usual inshore grounds during the year under review, so that very little was made off the anchored herring nets. The line-fishing was therefore the chief occupation carried on with these boats, but the average earnings of each boat were very small.

With the opening of St. Andrews Bay to flounder seine-net fishing, this method was generally adopted by the St. Andrews fishermen as their main occupation. During the summer months these fishermen were very successful, but on the approach of autumn and winter, with short periods of daylight and frequent storms, the results were disappointing. Cod net fishing was then prosecuted with a fair measure of

success.

Sprat fishing was carried on from Newburgh, but there was no demand for sprats, and most of the 80 tons caught was sold for manure at £2 per ton.

During the year 3 first class and 1 second class motor boats were destroyed by fire. The fishing gear was salved in each case, the loss was covered by insurance, and, fortunately, no life was lost in connection with the accidents.

At the close of the year one of the local drifters was fitted out for trawling. If this proves successful, and the herring fishing shows no sign of improvement, one or two more vessels may probably be fitted out similarly during the ensuing year. None of the local vessels has yet been fitted out for Danish seine-net fishing.

Unfortunately two local fishermen lost their lives during the past

year through falling overboard in English harbours.

MONTROSE.—In this District herring fishing has for a number of years been of practically no account, and—apart from trawling from the port of Dundee—the fishermen have gradually settled down to line,

seine flounder net, and cod-net fishing during the whole year.

Throughout the year fish were landed always in good condition, but during the latter six months the higher priced kinds were scarce, and small haddocks and whitings were too plentiful for remunerative sales. The net results cannot be described as satisfactory to owners and fishermen, as the cost of production, although gradually decreasing, continued high and made wage earning difficult and dividend earning impossible; but, in view of the difficulties experienced in the Scottish fisheries in general, for the industry in this District to have held its own is no mean achievement.

The most productive branch of the industry was trawling, which was conducted principally from Dundee. Ten trawlers are owned

in Dundee although only 5 are registered there, and the landings of those were augmented by several belonging to other ports. The value of the trawl catch created a record for the District, but heavy loss of gear, and the still high cost of material and labour, left nothing for Operations were conducted principally on the grounds extending from 5 to 60 miles E.S.E. and E.N.E. of the Bell Rock. Fish were fairly plentiful, but earnings were adversely affected by the large proportion of small haddocks and whitings, the former of which repre-

sented 45 per cent. and the latter 9 per cent. of the total catch. The steam drifters made a start at the great summer herring fishing

at Peterhead, but gave it up early and resorted to great-lining; while only 4 of the Arbroath motor boats taking part in the fishing at the same port were manned by local fishermen. The earnings of these ranged from £450 to £630 gross, averaging after the deduction of expenses £150 per crew. The same motor boat crews took part in the herring fishing at northern English ports, but, with one exception, did little more than clear expenses. Two steam drifters were at Yarmouth and earned sufficient to leave a small share to the fishermen. Five yawls belonging to Arbroath engaged in the Firth of Forth winter herring fishing and grossed from £40 to £150, the average being £74 each.

Very little was done at sprat fishing in the Tay Estuary, and all the

fish landed were sold for manure.

With motor power at their command fishermen are now better able to time their work, and can follow several methods of fishing in one day. A number of crews fished crab and lobster creels and cod-nets and worked a fleet of small-lines all in one trip, and it was not uncommon for a crew to work both cod-nets and small-lines in the same day. Linefishing was conducted during the whole year and the total catch was well maintained. The weather from April to October was favourable, enabling the crews to work all the known banks, but in the other

months was stormy and interfered with the work.

Carnoustie and St. Andrews Bays were opened to seine flounder net fishing during the year, and this fishing was prosecuted by Montrose District crews throughout the whole year, at one time almost three-fourths of the motor fleet being engaged. Some very good catches were secured, totalling for September almost 3000 cwts. But the fish soon got scarce, and the bulk of the plaice landed were very small and earnings dwindled. There were 3701 arrivals, with an average catch of 36 cwts. of plaice and dabs valued at £6, 6s., and the increase in the total catch compared with that of 1920 was 9676 cwts.

During the first and last quarters of the year cod-net fishing on the inshore grounds off the two northern creeks produced a total of 4672

cwts.

Three steam liners engaged in deep sea great-lining from April to August and landed their fish at Aberdeen and English ports, and although hindered by the coal strike grossed an average of £1951 each.

Early in the year 11 motor yawls went to the west coast to engage in great-line fishing from Girvan and Campbeltown, but most did not

earn sufficient to pay expenses.

Unfortunately three men lost their lives through the swamping of their boat while entering Arbroath harbour, and a young man belonging to Gourdon was dragged overboard by a seine-net and drowned in Carnoustie Bay.

Stonehaven.—Fish were on the whole very scarce during 1921, especially from March to June, but on account of the coal stoppage, good prices were invariably realised for the light catches landed during that period, whereas otherwise the fishing would have been completely at a standstill.

The weather throughout the year was exceptionally good, and the number of arrivals made by fishing boats was unprecedented, totalling 6388 against 5201 for the preceding year, and had it not been for poor catches combined with unremunerative prices fishermen would have been oftener at sea. Boats never go to sea on Saturday, as buyers, who are mostly of the hawker class, refuse to buy fish on that day.

Motor boats costing over £900 have changed hands at £500, and

shore owners would be glad to get clear of their boats at a loss.

Small-line fishing was carried on by 18 motor yawls with varying success. The most notable feature was the large quantity of whitings landed, which from July to October seldom realised more than from 6d. to 1s. 6d. per 6 stone box. Large haddocks were scarce and takes seldom exceeded 2 cwts. Boats' earnings ranged from £520 to £1210, averaging about £800. Expenses for oil averaged £184 and for mussel bait £132, making in all £316 per boat, leaving about £490, less the boat owner's share, to be divided amongst a crew of 4 men.

Some six small sail boats occasionally prosecuted the small-line fishing, and their earnings ran from £80 to £200, averaging £140 for two men. Fishing with the ripper for codlings was carried on when mussel

bait was dear and difficult to get.

Occasional fishermen engaged during summer in hand-line fishing for mackerel and codlings did not do so well; mackerel in particular

were scarce, and fishing was given up early.

The flounder seine-net fishing was tried repeatedly by 14 motor boats, but with little success, as the only suitable local grounds appear to be certain small areas between the harbour and Garron Point.

Two of the largest motor yawls made trials at the herring fishing for a fortnight in June, but were obliged to discontinue owing to the scarcity

of herrings.

Crab fishing from Catterline and Shieldhill was fairly successful. Steady prices were received from the English markets, and the earnings of the small boats engaged, generally carrying two men, averaged about £280. Codling fishing with hand-lines was carried on in conjunction with crab fishing, the fish heads being used for the purpose of baiting creels.

The net factory at Stonehaven was busily employed in the manufacture of herring nets up to November, but has since been closed, and

it is doubtful if it will be re-opened.

Stonehaven harbour is getting into a very dilapidated condition. The point of the breakwater is parted from the main structure, and may at any time settle into the fairway. The inner jetty is also badly in need of repair and liable to collapse, and should this happen it would block the entrance to the South Basin, which is the principal shelter for boats in rough weather.

ABERDEEN.—The weather throughout the year 1921 was remarkably good, and the various branches of the fisheries were conducted with exceptional regularity; yet operations were not financially successful, chiefly because of the coal dispute, which continued during April, May and June, the most profitable period of the year. The reduction of the bunker supply to a 25 per cent. ration made long voyages impracticable, and some 90 of the largest trawlers were laid up, as supplies were inadequate to enable them to work profitably even on the nearer grounds. Many vessels proceeded to Continental ports for coals, but these were so bad that the vessels often failed to raise sufficient steam for fishing.

Had it not been for 7000 tons of coals taken from northern ports and the Shetland whaling stations, fishing would have collapsed by the middle of May. Other adverse features were high railway rates, foreign competition in English markets, scarcity of fish at certain periods, the high cost of fishing gear, and high working expenses generally.

The average price realised for fish landed was 29s. 2d. per cwt. against 27s. 7d. in 1920. The quality of most kinds of round fish was poor, and cod and haddocks in particular were very thin up to October, when they

began to improve.

Towards the close of the year there was a big drop in the value of fishing vessels. Admiralty trawlers of the "Strath" type were freely bought by Aberdeen owners at from £5000 to £6000, being only about a third of their value in 1918, when the majority of the vessels were built. The values of motor yawls employed at small-line and seine net fishing have likewise fallen considerably, and owners have difficulty in disposing of them even at a loss of 50 per cent. Trawling companies, floated when prices were at their maximum, have been obliged to write off large sums in respect of depreciation.

The fleet of trawlers engaged was greatly augmented, and exceeded the port's pre-war fleet. The best-fished vessel grossed £15,039 against £22,300 in 1920, and the average gross earnings would not exceed £7400 all over the fleet. It is computed that not more than one third of the vessels cleared their way, and that the rest finished up with a loss of from £300 to £2000 for the year's working. During the last three months of the year, however, working expenses were reduced by about

30 per cent.

Owing to the short supply of coals fishing at Faroe and Iceland was carried on for only about two months, and the landings from those

grounds were small even as compared with the preceding year.

During the year 45 local vessels tried herring trawling, but 19 made only one and 12 two voyages each. Results were very partial, and until the end of August a number of vessels had to finish up their voyages off the Shetlands at white fishing. Several trawlers were not properly fitted out for herring fishing, and had proceeded rather in quest of cod to the Fladden grounds, where the herrings were being caught. The largest catch of 751 boxes, equal to 214 crans, was obtained in 63 hours' actual fishing. Prices were frequently unsatisfactory, and more certain results were obtained at ordinary trawling. The best-fished vessel grossed £3078 for eight weeks, and the total catch landed for that period amounted to 4271 crans, valued at £9575, giving an average price of 44s. 10d. per cran. All were kippered or freshed. It was generally allowed that German trawlers appeared to be more successful than local vessels, as they were seen leaving the Fladden grounds heavily laden. It is notable that no herrings of any account were got on these grounds prior to 1920, although several trawlers had fished there.

The great-line fishing was prosecuted by the largest fleet ever operating from this port. During the war all the regular liners were converted into trawlers, but they have now resumed line fishing. The fleet in the early spring and summer numbered 141 steam and motor boats, including 30 trawlers fitted out for the lining season, and stranger vessels. Insufficient supplies of bunkers handicapped vessels fishing on the far distant grounds. Fishing during July and August at Eagle Island and Porcupine Bank (off the west coast of Ireland), where valuable catches of halibut were secured in 1920, was a failure, on account of shoals of large sharks, which destroyed gear and made fishing impossible. The season's catch did not come up to expectations, and

vessels' earnings varied greatly, in some cases barely covering expenses. The best-fished vessel grossed £14,150, being £7850 less than the best in 1920, while for liners of the drifter class the highest earnings were £8349, which was £3800 less.

Cod and ling were very scarce until late in summer, when catches improved. Grounds frequented by large liners in search chiefly of halibut were Faroe, Rockall, St. Kilda, and Lousy Bank. One large liner made three voyages to Iceland during August, September and October with very successful results, and this fishing is likely to be developed, as several "Strath" vessels have been purchased from the Admiralty for that purpose. The drifter liners usually fished in the North Sea, and landed catches consisting mostly of cod and skate.

Small-line fishing was carried on by some 12 motor yawls and 15 sail boats, manned by old fishermen, who made a fair wage, although the

cost of oil and bait was heavy.

English drifters which prosecuted Danish seine net fishing in the Moray Firth did not in most cases so much as clear expenses, as the ground was too rough for successful fishing, and the distance from Aberdeen was too great. Seven local drifters were fitted out with the necessary gear, but only one had the special winch installed and the others used their trawl winches. After a month's trial all the vessels gave up the venture, having contracted debt to the extent of from £80 to £400.

Shipbuilding was at a standstill, and only one trawler was built during the year, for a Fleetwood company. Barrel making was unusually slack; most of the coopers were idle for about six months, and the barrel factories were compelled to close down, as no orders for barrels

were forthcoming.

PETERHEAD.—The small decrease recorded in the number of steam drifters would probably have been much greater but for the fact that a number of these vessels which were offered for sale failed to find purchasers. The movement in favour of the adoption of the drifter type of trawler, which was prominent during the previous year, received a check, owing to the unprofitable results obtained by this class of vessel. There was again, however, a comparatively large increase in the number of small motor craft, representing boats purchased from other districts, or previously propelled by sails only. Values of vessels and gear, although still considerably above the prewar level, show a decrease.

When the herring fishing opened on 13th June only 26 vessels were engaged, and although the fleet was soon increased, the largest number employed at any time was only 137, compared with 262 in the previous year, being one of the smallest fleets which have worked from this Weather conditions were favourable and fishing suffered little interruption, although in the circumstances fishermen were easily deterred from going to sea. The results were very disappointing, and the total landings in any one week seldom equalled a day's requirements, even with the reduced working staff. The average catch per arrival by steam drifters was exactly the same as in the previous year, while the difference in the average by motor boats was insignificant. Steam drifters grossed from £300 to £1300 with an average of about £740, and motor boats from £170 to £650, averaging £400. The quality of the herrings was very unsatisfactory, but competition was at times very keen, particularly during the first fortnight, and also towards the close of the season, when it was manifest that there was to be a general shortage. Prices for fresh herrings ranged from 7s. to 110s., but for curing purposes mostly from 23s. to 34s. per cran.

There were 96 buyers at this port, or 2 buyers for every 3 vessels employed. To keep their workers even partially employed curers purchased herrings at prices much higher than current rates for cured herrings warranted, in the hope that the demand would improve, but unfortunately they lost on an average at least 8s. per barrel.

The kipper markets were also in a very depressed condition. No doubt poor quality was responsible for restricted sales, but high costs of production and transport also militated against remunerative business. Fifty per cent. of the kippering firms finished the season with con-

siderable loss.

Freshing was not extensively engaged in. Early in the season a cargo consisting of about 190 crans of herrings sprinkled and iced was despatched to Altona for a German firm, but the venture was appar-

ently unprofitable as it was not repeated.

Forty of the largest steam drifters belonging to the district were fitted out for great-line fishing during the spring months, and some continued operations throughout the summer. The season had almost reached its height when the coal stoppage took place, but fortunately local merchants had large stocks of coal on hand, and the time lost to fishing was much less than at other ports. The vessels used Peterhead merely as a bunkering port, however, as practically all fish were landed at Aberdeen, where the demand was then very keen. Operations were carried on mainly in the North Sea, but a few crews also fished the grounds north of the Shetlands. Gross earnings ranged from £750 for a period of 7 weeks to £4400 for a period of 22 weeks. Owing to the price of coal, working expenses were heavy, amounting in one case to about £1800 for 25 weeks.

As in previous years, the fleet of steam trawlers owned in the district made Aberdeen their headquarters. Motor trawling was carried on regularly by from 14 to 24 crews from March to September, when it was discontinued in favour of seine net fishing. Catches were, as a rule, light and irregular, but consisted almost exclusively of medium plaice, for which good prices were obtained. The results for the year compare very unfavourably with those of the previous year, and some of

the more unfortunate crews barely cleared expenses.

The opening of local waters to seine net fishing was taken advantage of by about 30 crews, but with little success, as flat fish appeared scarce on the inshore grounds, the average catch per arrival being only 1.3 cwts. Later in the year a number of crews tried the Moray

Firth grounds with no better results.

Any success in line fishing was attained chiefly early in the year. By the middle of January fully 150 crews, the largest number for many years, were employed, of which almost four-fifths operated with handlines, because of the heavy cost of small-line bait. As codlings were then plentiful from one to two miles off, operations were carried on vigorously until the end of February, when the fish appeared to be more off-shore. Landings thereafter were light until December when they improved slightly, and the number of crews at work again increased.

During the autumn 102 steam and 2 motor drifters from this district took part in the East Anglian herring fishing, when the results were the worst experienced since the advent of the steam drifter, and it is doubtful if 20 crews grossed sufficient to clear expenses, while loss of and damage to gear were heavy. Sixty curing firms also took part,

but did only a limited business.

Employment at barrel making did not extend after May, by which time curers considered their stocks sufficient. Boatbuilders were occupied chiefly with repair work and only 4 small craft were built.

Fraserburgh. - Compared with the average of the five years immediately preceding the war, last year's herring catch shows a decrease of 42 per cent. in quantity and 21 per cent. in value, while working expenses during the past year were at least double those of

pre-war years.

During the past two years the value of steam fishing vessels and large motor boats has been gradually receding from the war inflated prices. A number of large motor boats were broken up as useless early in the year, but there was an increase in small motor and sail boats used for the inshore fisheries. The considerable reduction in the value of fishing gear is due not so much to the fall in prices as to the fact that, owing to the poor results during the past two years, fishermen were not in a position to purchase new gear, and that now in use is old and almost worn out. The decrease in the number of fishermen would have been greater but for the difficulty of obtaining employment in other industries.

The herring fishing commenced on the 14th June, but as coal supplies were unobtainable only motor boats were at first fitted out. The fleet then employed numbered 100, while the highest number of vessels employed was 240, against 515 in 1920. Herrings were scarce, although results were slightly better from the third week of July till the first week of August, and they were of poor quality, lacking during June and July the richness then normally characteristic of East Coast

herrings.

As curers and others had made preparations for a normal catch, there was a fair demand for the short supplies and prices were higher than the cured market warranted, ranging from 5s. to 126s. per cran, and averaging 29s. 11d. compared with 51s. 4d. in 1920. Average gross earnings of vessels were:—Steam drifters, £700; motor boats, £650; and sail boats £300; against £1100, £700, and £400 respectively in 1920. The gross earnings were mostly absorbed by working expenses, which indeed in not a few cases they were insufficient to meet. Most of the herrings cured were disposed of, although at considerable loss, and at the close of the year less than 3000 barrels, mostly large fulls and fulls, were on hand. The demand in Continental markets throughout the year was for the smaller brands, i.e. matfulls and matties. The home market for kippers was also unsatisfactory, and kipperers sustained a loss on the season's operations. As the markets for tinned herrings were overstocked, the quantity prepared in this way was small.

Owing to the poor herring fishing in 1920, a large number of crews of steam drifters and large motor boats prosecuted great-line fishing off this coast during the spring and summer of the past year when the results were fairly satisfactory, although steam vessels were handicapped by the coal stoppage. The landings were almost double those of the preceding year, although most of the best takes were landed at Aberdeen and other ports. A number of district crews also prose-cuted great-line fishing on the West Coast with fair success.

More attention was also devoted to the inshore fisheries, especially small lining, but the results were less satisfactory than in 1920. The average catch for small motor boats was 2.26 cwts. against 3.16 cwts. Haddocks were scarce during the whole year on the usual fishing grounds.

One hundred and twenty-two crews belonging to this district participated in the English herring fishing during October and November. Unfortunately the season proved disastrous, as herrings at first were scarce, and later, when heavy catches were obtained, prices fell to a low level. The aggregate gross earnings of the district crews amounted to £36,982, while the ordinary working expenses, excluding cost of food

and wages to share fishermen, amounted to £38,654. It is estimated that, if allowance be made in respect of upkeep of vessels and gear and of a minimum wage to fishermen, the cost of production per cran was 45s. 5d., whereas the average price received was only 17s. 6d. Most of the district curers also carried on operations at the English stations, but owing to the collapse of the German exchange, there was little demand for cured herrings. After the close of the season, however, the demand improved, and while all the cure was not sold at the end of the year, the losses of the curers will not be so great as was anticipated.

Boatbuilding was limited to the construction of small motor and sail boats, and two of the largest building yards in the district remained closed throughout the year. Barrel-making was actively carried on during the first three months of the year. Coopers were generally able to find employment during the fishing seasons, but between the seasons, and again at the end of the year, most of the shore workers were

unemployed.

Banff.—The results of the year's operations can hardly be described as satisfactory, owing chiefly to the comparative failure of the herring fishing, on which a considerable number of the fishermen depend.

Cod-net fishing was carried on from the middle of January to the end of March by 12 motor and 5 small sailing boats belonging to Gardenstown. The catch and value show considerable increases, but the average price per cwt. was only 17s. 6d. as compared with 28s. 10d. in 1920. Anchored-net fishing for flat fish was prosecuted from Whitehills by 30 motor boats for the same period, but the results were very poor.

Small-line fishing, which accounts for the bulk of the fish landed in this district, is carried on from all the creeks except Banff during the year. The number of boats at work varies, being least during the summer and English herring fishings. The only landings by sail boats are made during the summer months; but owing to the poor results from herring fishing during the past year almost all the suitable motor boats were fitted out with small lines, and notwithstanding heavy expenses for paraffin and carriage on mussel bait, this fishing was the only one which enabled fishermen to make anything approaching fair

vages.

About half of the local fleet of steam drifters was engaged in herring fishing on the north and west coasts during January and February, when earnings ranged from £400 to £1450, being the most satisfactory

for any fishing engaged in by these vessels during the year.

At the beginning of the summer herring fishing the coal dispute held up the steam drifters, with the result that all the available motor boats were employed, several being manned by steam drifter crews. When the dispute ended, a few steam vessels started operations. On the whole the fleet did little more than clear their expenses. The earnings of steam drifters ranged from £250 to £650, and of motor boats from £200 to £550.

The principal fishing grounds during the early part of the season were 35 to 60 miles N.E. from Macduff, but in August good takes were got 2 to 4 miles off. The herrings from the offshore grounds were only of fair quality, but the quality of the inshore fish was excellent. Prices fluctuated considerably during the season, the range being from 7s. to 131s. per cran. The higher prices were given early in the season, when there was a good demand for bait.

During September the usual fleet, consisting of all the steam drifters

and a few motor boats, proceeded to prosecute the herring fishing in English waters. The earnings of steam drifters were from £350 to £800, and for motor boats from £200 to £450. It is estimated that the local craft would just clear their expenses.

A few steam drifters tried the loch fishing on the West Coast during

December, but the heavy expenses absorbed all the earnings.

Four steam drifters are fitted out with the Danish seine net, and will give this method of fishing a further trial during the coming spring.

Unfortunately, three Gardenstown fishermen were drowned by the capsizing of their boat when engaged in hauling crab creels, and a Whitehills fisherman was drowned at Lowestoft through the sinking of his vessel in collision.

BUCKIE.—Fishcurers appreciate the steps taken towards securing new markets for cured herrings, but are convinced that little can be done to restore the industry until the political and economic conditions of Germany and Russia improve.

Seventy-five per cent. of the fishermen are now short of fishing gear, and, as they are unable to replace the old gear they are at present using,

it is evident the industry cannot stand much further strain.

During the past year 5 steam drifters were converted into cargo boats, 1 was sunk, 1 wrecked, and 4 sold out of the district, while no new vessel was built. Quite a number were offered for sale, but failed to find purchasers. A number of motor boats were destroyed by fire, several were broken up as being unseaworthy, while 2 were converted into trading vessels.

In the early part of the year, twenty-four drifter crews decided to go in for trawling. Nineteen of their vessels were properly fitted out and fished until the end of the year, usually landing at Aberdeen, but the remaining five were only fitted with ordinary steam capstans, and as they did not earn sufficient to clear expenses, the trawl gear was taken ashore and the vessels prepared for the English herring fishing.

Most of the drift-net fishermen participated in the winter fishing on the West and North Coasts until about the end of February. For a week or two only a small fleet was employed and results were satisfactory, but about the middle of January the fleet was greatly increased, and as the home markets were glutted, prices fell to a low level. Late in January 5 steam drifters were chartered to convey part of the heavy landings to the Continent, and 1100 crans were sprinkled with salt and sent to Ymuiden, while 300 crans iced and salted were sent to Hamburg, but the venture proved unprofitable. On the 5th of February six catches of from 40 to 100 crans of indifferent quality had to be dumped at Buckie and the fishing collapsed.

Cod-net fishing was prosecuted from the middle of January to the first week in April by 15 steam, 72 motor and 16 sail vessels, compared with 5 steam, 58 motor and 6 sail in 1920. During the first few weeks stormy weather greatly hindered operations, but fairly good results were obtained later from the fishing grounds lying to the north side of the Moray Firth, although heavy loss of gear was caused by foreign trawlers.

The season's catch was 21,215 cwts., being 3177 cwts. better than in 1920, but the average value per cwt. was only 17s. 5d. as against 31s. 7d.

Summer Herring Fishing.—When after the coal dispute bunkers became available in July, 215 steam drifters and 110 motor boats proceeded to Shetland, Orkney, Wick and Fraserburgh. At Lerwick results were good, but crews operating from other centres had a most unprofitable season. Boats' earnings ranged from £300 to £1700, whilst the average gross earnings were about £550, but few crews had any

balance at the close of the season, and many finished in debt. The landings at Buckie were chiefly confined to vessels arriving home from other ports for week ends.

In the East Anglian herring fishing 240 steam drifters and 90 motor boats belonging to the district participated, but the results were the

worst ever experienced at this fishing.

The average gross earnings for steam drifters amounted to only £438, and for motor boats to £280, while serious loss of netting was sustained through fouling submerged wrecks. Only 1 in 8 of the vessels cleared working expenses, while curers lost considerably.

At this fishing a Portgordon man fell overboard and was drowned.

During September a few English crews operated in the Moray Firth with the Danish seine net, landing splendid catches of flat-fish at Grimsby. Some local crews in the port on their way to the autumn fishing were so impressed that instead of proceeding to Lowestoft and Yarmouth they fitted out at Grimsby with seine net winch and gear and returned home, and by the end of October 25 steam and 2 motor boats belonging to the district had begun the new method of fishing, while by the end of November 40 steam and 2 large motor boats were fitted with the Danish net, and 2 second class motor boats with the ordinary seine net.

Operations were carried out chiefly in the Moray Firth, and were restricted by the nature of the bottom to certain areas. The most prolific grounds for plaice were in the upper reaches of the Firth. Fair catches of lemon soles and plaice were obtained 3 to 5 miles off, between Dunbeath and Noss Head, and good takes of haddocks in the vicinity of Smith Bank. The quality was excellent and no immature fish were landed. Most was landed at Buckie and realised good prices, but occasionally crews proceeded to Aberdeen with their best takes, although

their hopes of better prices were not always realised.

FINDHORN.—Of the 78 steam and 8 motor vessels employed at the winter herring fishing on the west and north coasts of Scotland and on the north coast of Ireland, only a few were fairly successful. Gross earnings ranged from £60 to £1540, averaging £430 for steam drifters and £300 for motor boats.

Owing to the coal dispute steam drifters were unable to commence the summer herring fishing until July, but most of the motor boats began earlier. In all, 104 steam drifters and 20 motor boats participated, chiefly on the west coast, and at Lerwick, Wick and Fraserburgh. A number of crews obtained fair results at Lerwick and Castlebay, but at the other centres a number did not clear expenses. Earnings ranged from £200 to £1000, averaging for steam vessels £550 and for motor boats £450.

At the close of the summer herring fishing 109 steam and 5 motor vessels fitted out for the East Anglian fishing, but owing to the collapse of the German exchange, and the indifferent quality of the herrings, prices were unremunerative, and working expenses were commonly in excess of gross earnings. The latter ranged from £100 to £650, steamers averaging about £370 and motors £250. A number of Lossiemouth crews discontinued operations during October and returned to prosecute seine net fishing.

The poor results of the herring fishing, and the success of the Danish crews operating on the Dogger Bank with the seine net during the summer season, induced a number of the district crews to equip their vessels for this method of fishing in the Moray Firth during the winter and spring months, and on the Dogger Bank during the summer. Opera-

tions were commenced by a few steam drifters about the middle of October, and by the end of November 45 steam and 5 large motor vesels were equipped. To begin with results were good, but owing to the oversupply of the southern markets with Dutch and Danish plaice towards the end of November, operations proved unprofitable, and only 20 to 30 crews continued fishing from Lossiemouth. As this method of fishing requires a comparatively calm sea and a smooth bottom, operations were prosecuted in the more sheltered waters as closely as possible to the exclusive fishery limits. Two trips extending to about two days each were usually made weekly if weather permitted, and the average catch amounted to $10\frac{1}{2}$ cwts. valued at £30, 10s. for steam, and 5 2 cwts. valued at £15 for motor vessels.

A few of the medium sized motor boats were equipped with flounder seine nets, but results were disappointing, and the crews reverted to

line fishing.

Small-line fishing was more extensively prosecuted than during the previous year, particularly during the period of the coal strike, when from 70 to 90 boats, practically all equipped with motors, were employed.

Cod net fishing was prosecuted from the end of January to the end of March with rather poor results. The boats engaged numbered 18 steam and 17 motor, and their gross earnings ranged from £150 to £400. The whole of the catch was despatched in a fresh condition to the southern markets, but these were frequently heavily supplied and prices suffered accordingly. Considerable damage was caused by foreign trawlers to anchored nets left unattended.

Although small herrings and sprats were fairly plentiful in the Inverness and Beauly Firths during the last three months of the year, operations were very irregularly prosecuted, owing to the poor demand

and unremunerative prices prevailing.

Owing to the poor prospects for herring fishing, six steam drifters were equipped early in the year for trawling; these landed their catches at Aberdeen, except towards the close of the year, when a number of landings were made at the home port. Only two of the six vessels had fair results. Three steam vessels, engaged in great-line fishing during the summer months, failed to clear expenses. Three steam drifters and a motor boat were converted to cargo boats during the year.

CROMARTY.—The number of fishermen has decreased considerably, as the young people are not taking up fishing as a means of livelihood, preferring other occupations. Haddocks taken by small-lines with mussel bait, and codling taken by small lines with "buckie" bait, or by "ripper," constitute the bulk of the District catch. Whitings were much more abundant than usual, but prices were only about half those received for haddocks. Cod-net fishing was practically a failure. There was an increase in the landings of flat-fish, chiefly plaice, all taken by lines with lugworm bait.

The sprat fishing prosecuted in the Beauly and Inverness Firths by Avoch crews towards the close of the year yielded good rusults as to quantity, but poor returns financially; indeed some of the catches proved unsaleable. At the beginning of the season a foreign vessel bought a fair quantity at 35s. to 40s. per cran, but after her departure sales fell off owing, it was said, to the excessive railway rates to the

southern markets.

Smoking of haddocks and codlings was engaged in to a very limited extent, and the product was disposed of locally at remunerative prices.

About 120 fishermen, chiefly from Avoch, were absent as hired hands

at the various herring fishings for a considerable period of the year, and while a few made fair earnings, most returned with little or nothing. Formerly as many as 400 men used to be so engaged annually. Only about 50 women, chiefly from Avoch, went to the gutting stations on the East Coast, as against 240 in 1914.

A boat, with her crew of 4 men, was lost in a squall near the entrance

to Cromarty Firth.

Helmsdale.—On the whole the District fishermen have probably been more fortunate than those elsewhere dependent almost solely on herring fishing. Prior to the war the prosperity of the district was largely dependent on that fishing, but the dislocation of the herring industry by the war caused the district fishermen to devote their attention to the local fisheries, and they have therefore gradually increased the efficiency of their small-line vessels, chiefly by the installation of motor engines.

The number of sail boats is gradually getting less. Several large sailing vessels still owned in the district were laid up all year, and are

not likely ever to be employed at herring fishing again.

Except at Embo small-line fishing is almost wholly prosecuted in motor boats. Small sailing craft at the other creeks are mainly used for hand-line fishing. The steam drifters previously owned in the district have all been sold.

Lobster fishing, owing to the success attained in 1920, was prosecuted by an increased number of boats, especially during April, May and June, but catches were considerably smaller, perhaps because too many

boats were working in the limited areas.

Haddock fishing, which contributed 60 per cent of the landings, was carried on with great energy and perseverance, except in March and April, when fish were scarce. Earnings are usually best at Helmsdale, because the Helmsdale men work about four lines per man as compared with two at the other creeks. The use of so many lines entails a considerable amount of labour ashore, which is usually overtaken by the fisherman's own family, but where labour has to be paid for, there is a corresponding reduction in net earnings. In some instances fishermen without home assistance were, owing to poor earnings, compelled to devote their attention to hand-line fishing.

Hand-line fishing, which is confined to Helmsdale and Dunbeath, was engaged in throughout the year, but with practically no success except in April, when the price of fish rose owing to the coal stoppage.

Towards the end of January a commencement was made at the codnet fishing, but, chiefly because of the destruction of so many cod-nets in 1920, only 22 boats participated, as compared with 34 in the previous year. This fishing was continued into April, but the majority of the boats ceased operations during the last week in March. Results were even more unsatisfactory than in 1920, while the damage to cod-nets was again considerable, and it is very improbable that those who were unfortunate enough to lose their nets will replace them. The chief centres of the fishing were Golspie and Helmsdale, but at each of the other creeks, except Embo, a few boats took part. At Embo, however, small-line fishing for plaice was engaged in successfully from January until May.

Occasional trials were made at the inshore herring fishing by small motor boats working from Helmsdale and Dunbeath. One large Dunbeath motor boat engaged in the summer herring fishing at Wick with fair results, while two small motor boats took part in the West Coast fishing, but without success. Several fishermen took part in the

East Anglian fishing in vessels belonging to other districts, but most

returned home in debt.

The recent innovation of seine-net fishing in the Moray Firth is not approved by the district fishermen, who are unlikely to adopt this method to any extent.

LYBSTER.—From June to September fishermen devoted much time to inshore herring fishing between Clyth Ness and Latheron Bay, but without success, which was surprising, as in September a number of heavy shots were caught by large boats not more than eight miles from Clyth Ness.

Only two crews, one at Latheronwheel and another at Lybster,

engaged in crab and lobster fishing in the spring.

Owing to the failure of the herring fishing little was done at the two fishcuring and kippering stations at Lybster, and the bulk of the herrings cured was brought from Wick to Lybster in motor lorries, which added considerably to the working expenses. The herrings cured gutted were chiefly disposed of in the district, and the kippers were railed to the south markets. In one of the curing yards, a small business was also carried on in the smoking of haddocks for the Glasgow market and in the curing of dried cod, which was sold locally at from 5s. to 7s. per stone.

In November Lybster harbour was gifted by the proprietor to the people of the district, who have applied to the Development Commissioners for a grant to enable them to carry out urgent improvements and repairs.

Wick.—A large number of buyers congregated at Wick to carry on freshing and kippering operations during the winter fishing season, when a large fleet of boats operated on the northern fishing grounds. During the first two weeks of the year many heavy shots were landed, and prices of 60s. to 120s. and even 144s. per cran indicated a keen demand in the southern markets. In the third week weather was stormy, and catches light. The landings were heavy during the next fortnight, but the markets had been over-supplied, and prices steadily fell until 5s. per cran was reached at Wick, while at Scrabster there was no bidding. Considerable loss of netting, caused by stormy weather, decided more than half the fleet to return home. Some crews, however, continued working till the end of March, receiving better prices owing to the reduced supply. The bulk of the herrings was caught off the North Coast to the west of Dunnet Head, but heavy catches were also secured from 8 to 12 miles west of Cape Wrath, on the Sule Skerry grounds, and off Auskerry and Copinsay, Orkney. The quality varied, especially on the North Coast grounds, where two distinct shoals were present. When herrings were cheap, small quantities were cured for export to French, Dutch and German markets, but very poor prices were realised.

The earnings of fishermen varied greatly, and while a few crews fared well, to others the season was ruinous. The gross earnings of the local steam drifters ranged from £1416 down to £231, and of the motor boats from £675 to £156, while average working expenses amounted to £463

and £238 respectively.

Only 5 local crews engaged in cod-net fishing, and these only for 5 weeks in February and March, and landings of net-caught cod at Wick were effected chiefly by stranger boats. The cod were of good quality and were despatched in a fresh state, chiefly to London and the Midlands.

A small fleet began herring fishing on 23rd May on the Whiten Head grounds, but two weeks' fishing yielded only a light catch. For the next

six weeks the principal grounds extended from 8 to 60 miles E.S.E. to E.N.E. from Wick, where also results were very disappointing, but on 16th June a motor boat arrived at Wick with a shot of 83 crans from the Sule Skerry grounds, where a number of heavy shots were immediately thereafter secured. The fleet then consisted of 10 steam, 52 motor and 2 sail boats, and operations were greatly restricted by scarcity of coal. In the week ended 25th June, owing to heavy supplies and excessive heat in London, prices of kippers fell to 3s. per box, causing heavy losses to kipperers. Up to 9th July practically all the herrings landed were bought at from 45s. to 146s. per cran for kippering. When coals became available and steam drifters arrived in the middle of July, landings improved, and curing for export was begun with limited staffs, but supplies of herrings were never adequate to requirements. Prices then ranged from 15s. to 37s. per cran. Herrings became scarce early in August and the fleet steadily decreased, but in the latter half of August a number of heavy shots ranging up to 141 crans were secured on the inshore grounds off Clyth Ness, and some very satisfactory results were also obtained on the Whiten Head grounds.

When the fishing was most successful the herrings were chiefly matfulls and matties of good quality, although somewhat deficient in fat. The herrings caught on the grounds off the North Coast were invariably of excellent quality, as were also those caught off Clyth Ness.

The season was unprofitable to the majority of the fishermen, especi-

ally crews of steam drifters, because of high working expenses.

All the Government herrings of 1920 cure were shipped by October, and at the close of the year only 2278 barrels of cured herrings remained on hand. At the ruling prices during the year, viz. fulls 40s. to 43s. per barrel, matfulls 30s. to 35s. and matties 30s. to 34s. f.o.b., curers sold at a considerable loss, which was unfortunately aggravated through depreciation of the exchange. Kipperers had practically no profits on their year's output.

From Wick District 15 steam and 12 motor drifters engaged in the

Yarmouth herring fishing, but most failed to clear expenses.

In September and October from 8 to 12 small motor boats engaged in drift net fishing in Murkle Bay with considerable success. The herrings were landed at Thurso, and were chiefly bought for bait at 45s. to 65s. per cran.

An increase in the landings of line-caught fish was largely due to the quantity of hand-line cod and saithe (stoker fish) landed from vessels

engaged in herring fishing.

A large number of local coopers were unemployed throughout the

year, and many others had long spells of idleness.

In March a Wick fisherman, engaged in cod-net fishing, fell overboard and was drowned; and on 22nd June the motor drifter "Cairndhuna," W.K. 405, was lost in collision at the entrance to Wick harbour, but the crew were saved and the fishing gear recovered. A large quantity of fishing gear was lost, principally through stormy weather, and considerable damage was caused to small harbours on the North Coast on 17th December, when also a fish-house in the vicinity of Thurso containing fishery stores was swept into the river, and 2 small unregistered sail boats were washed from Island Roan.

A large number of the nets owned by the fishermen have become almost useless. If the quality of the nets had been up to the usual standard the catch at the summer fishing would have been at least 30 per cent. greater. The keeping of these nets in repair has been costly to fishermen, and how to replace them has now become a difficult problem.

ORKNEY.—The decrease in the number of boats belonging to the district is due mainly to the cancellation of third-class sailing boats, which are no longer employed in fishing for sale. One large sailing boat was sold out of the district, another was broken up, and a further reduction in the near future is inevitable, as several of those remaining are unseaworthy. Motor engines were installed into 5 small sail boats, and 2 small motor boats were built for local fishermen.

The herring fishery was carried on almost entirely by stranger fishermen and curers, and only seven local crews and a small number of shore workers took part. For a time it appeared improbable that operations would be carried on, but in June an enterprising East Coast curer guaranteed 20s. per cran for all herrings landed during a certain week by local sail boats, and by the middle of July ten stations were opened, employing 81 crews of gutters. At first the fishing fleet consisted entirely of sailing and motor boats, but after the coal stoppage

steam drifters commenced working from Stronsay.

For five weeks the curing staffs were kept fully employed, and on several occasions vessels arriving late could not dispose of their takes and had to proceed to other centres, where a ready market was invariably obtained. After the first week of August, however, repeated trials on the same grounds yielded only meagre takes, and the season ended on 26th August. Prices ranged from 6s. to 30s., averaging 20s. per cran, at which figure fishing was certainly unremunerative. Many crews failed to clear expenses, while the net earnings of the remainder were poor indeed. In this respect the crews of sailing boats, whose outlays are small, were the more fortunate. Gross earnings of steam drifters ranged from £400 to £520, of motor boats from £350 to £650, and of sail boats from £215 to £420.

The quality of the herrings was unsatisfactory, as practically every catch contained a considerable proportion of thin, undeveloped fish, while the proportion of small fish was also large. The principal fishing grounds were from 18 to 40 miles E. by S. to S E. by S. from Stronsay, and the herrings, therefore, were generally landed early in the day and in good condition. Crown branded herrings were in demand, but the proportion branded was surprisingly small, probably owing to the difficulty in selecting. At 31st December no cured herrings remained on hand in the district. Although fresh herrings were purchased at reasonable figures, the prices received for the cured article left little or no profit for curers.

The line fisheries were carried on chiefly by the regular fishermen and by crofter fishermen belonging to the South Isles. The decreased catch may be attributed to stormy weather during winter and spring, when fishing was frequently suspended for lengthy periods. The average price received for line fish was 26s. $7\frac{1}{2}$ d. per cwt. against 28s. 10d. in 1920. The entire catch was consumed within the district, as were also

occasional small landings from wind-bound trawlers.

Owing to lower prices in the southern markets the lobster fishery yielded less remunerative results than in 1920, but nevertheless was vigorously prosecuted by crofter fishermen, chiefly from April to October.

During the year 19 boats of 9 to 17 feet of keel were constructed, six for Orkney and the rest for the West Coast. The few coopers belonging to the district were fortunate in finding almost constant

employment.

As a result of satisfactory returns from crofting during recent years, crofter fishermen, who form about seven-eighths of the district total, are less dependent on the fisheries than in pre-war years. Very few are now interested in the herring fishery, and the number participating in

the line fisheries is steadily diminishing. Lobster fishing, however, can be conveniently worked in conjunction with crofting, and receives considerable attention during summer and autumn. The local fishery interests, therefore, are not extensive, and Orkney is less seriously affected by the present depression than most other districts. The resumption of the herring fishing at Holm and Burray has not been possible owing to the continued presence of obstructions laid down by the Admiralty, notwithstanding numerous petitions for their removal.

SHETLAND.—A few crews commenced herring fishing in a half-hearted manner at the end of May, and one local curer had the enterprise to cure and consign to Hamburg a parcel of early June herrings, which realised 950 to 1000 marks when the mark stood at 250 to 280 to the pound sterling, and as a result a general commencement was soon made. The coal stoppage favoured the local motor and sail boats, for if steam drifters had frequented Lerwick as usual early in June overproduction and a deadlock would have resulted. Herrings were abundant on the grounds to the south-east, and the local fleet kept the market well supplied for the first few weeks. Shetland curers too had practically a monopoly of the Hamburg market in June, and a brisk trade in matjes was done. Contrary to expectations, the season proved one of the most lucrative ever experienced by the motor and sail crews belonging to the district. Moray Firth boats also shared in the success. By the time drifters were able to participate the German demand had lessened and the mark showed signs of depreciating. Prices therefore fell, until at the end of August spents realised only 5s. per cran when the fishing closed. Steam vessels grossed £1300 to £1800, motor boats £1100 to £2200, and sail £500 to £1170.

Early in June the average price exceeded 30s. per cran, and before the month closed as high as 54s. per cran was reached. When July commenced herrings were selling up to 49s. per cran, but prices gradually fell to 20s. and under in the closing weeks. The average for the season was 24s. per cran. The fishing was one of the most intensive ever experienced, and fishermen and shore workers were taxed to the utmost in handling the heavy daily catches. The herrings, however, had a starved appearance, and were so lacking in fat that on rousing they shrivelled up and looked like spents, although milt and roe were well advanced. Curers who opened stations at Scalloway, hoping to get rich matjes, were disappointed, as the west side herrings were no better, except a few catches from the vicinity of St. Magnus Bay. The season at Scalloway was of short duration, as the local boats left for Lerwick early in July. Curing stations were opened also at Baltasound, Hoswick and Whalsay, but only one curer operated at each place. Only one local boat fished from Baltasound, and the curer there was dependent on landings by steam drifters fishing from Lerwick.

Ten cargoes of "sprinkled" herrings were sent to Hamburg and Altona, being the first so exported since the war. The spicing of herrings was also resuscitated by Swedes, who operated both ashore and afloat. One firm had a motor hulk anchored in the bay, and obtained supplies of herrings from an accompanying steam drifter. The fishermen seemed unfamiliar with the Scottish drift nets and ruined them in a few weeks by omitting to shake the herrings out while hauling. The experience gained must have been costly, for the crew lost a second fleet in a breeze. Before export to Sweden for tinning, the herrings were gutted, and roused in a mixture of powdered salt, sugar, various spices and bay leaves, and then were usually thrown loosely into the barrels. One firm curing on shore packed after the Scottish fashion.

Swedish motor vessels also visited Lerwick to buy mackerel to cure on board, but they arrived too late to secure more than a small quantity.

Ninteen District crews, being a larger number than ever before, took part in the East Anglian fishing, but unfortunately most incurred rather serious losses.

The Burra Isle fishermen, with their fine fleet of motor boats, prosecuted line fishing vigorously during the spring and winter months. The produce was all sent to Aberdeen gutted and iced. At the close of the year catches of 20 to 40 cwts. were frequent, and prices were remunerative in contrast to those obtaining in the spring, when fishing had to be abandoned owing to meagre returns. Lerwick, Whalsay, and Skerries crews also landed considerable quantities of haddocks, the greater part of which was despatched to Aberdeen. Freights both for ice received and fish despatched were a heavy charge on proceeds, and to save on these Whalsay haddocks were mostly sent smoked.

A gloom was cast over the fishing community of Lerwick on the last days of the year by the drowning of two promising young fishermen, who were lost with a motor boat which they were bringing home after repair. Two Burra Isle motor boats dragged their anchors during a

hurricane in December and sustained damage on the beach.

STORNOWAY.—Throughout the year the fishing industry of Stornoway district was more or less acutely depressed, chiefly through the failure of both the local winter and summer herring fishings. The earnings of the hired men at other centres were almost negligible, while those of the female fishworkers were about half those of previous years. The situation was aggravated by the discharge of considerable numbers of men, formerly dependent on fishing, who had for a year or two found employment in connection with Lord Leverhulme's schemes.

Owing to the scarcity of herrings and fluctuating prices the winter herring fishing was of short duration, and few crews were fortunate enough to clear expenses. The best catches were generally obtained near Bulgie Island, off the Sutherlandshire coast, but the shoals were isolated and difficult to locate. The quality of the herrings was seldom satisfactory, and most catches contained an unusually large proportion of very small, undeveloped fish. During the season the sending of sprinkled herrings and mackerel to Germany was inaugurated by a Lowestoft firm, who despatched three cargoes amounting to 1268 crans of herrings and 166 crans of mackerel. It was unfortunate that the first attempt to send sprinkled herrings from this district to the Continent should have coincided with such a poor season, when supplies were

difficult to obtain at a moderate price.

Early in May, after the Railway Companies undertook to facilitate consignments, preparations were made for herring fishing, and a local carrier was chartered to convey kippers to Kyle. Owing to the coal scarcity no stranger steam drifters arrived until the second week of July, but the locally-owned boats operated with little interruption, notwithstanding that their fuel allowance was far below normal requirements. The fleet was augmented towards the end of May by motor and sail boats from East Coast ports. Kippering firms instituted a system of rationing, paying 50s. and latterly 70s. per cran. Ordinary competition was restored when the curers entered the field, but the herring fishing had then commenced on the East Coast and kippering was abandoned here. The rationing system undoubtedly saved the kippering firms from incurring considerable losses. From July onwards, owing to the poor demand, "mixed" herrings were selected into two classes by the fishermen, and the better selection frequently fetched up to 90s., while

the smaller herrings sold as low as 7s. per cran. On the whole more unsatisfactory quality was never landed in any previous summer season.

Curers had an unprofitable season, and although the demand for matje cured herrings was good for most of the season, it fell off towards the end, and at the close of the year several firms had still balances unsold. The general prices received for cured large matjes were from 90s. to 130s. per barrel and from 60s. to 80s. per barrel for the medium selection. The smaller selections, consigned to Germany, averaged 24s. per barrel.

The average gross earnings of local steam drifters amounted to £760. The best fished boat earned £1300, which allowed £33 to each share member of the crew, while the least successful earned only £324, which left each share man £12 in debt. Motor boats, mostly half-sized, grossed £220 to £800, averaging £460, and sail boats £173 to £521, averaging £330. Motor and sail boats yielded better settlements than drifters.

With the decline of white-fish curing for export great-line fishing has lost its importance. During the spring months occasional catches were landed by steam liners and small open boats, but not in sufficient

quantity to satisfy local requirements.

Small-line fishing is practised chiefly at the creeks bordering on Broad Bay, and the catches are carried by the women to Stornoway. Haddocks were fairly plentiful, but dog-fish destroyed large numbers on the lines.

At out-lying creeks lobster fishing ensures a means of livelihood to fishermen, and this year catches were invariably good, but prices ruled low.

A hurricane of unusual severity, but fortunately of only two-and-a-half-hours' duration, occurred in March, causing much damage. Many small boats were wrecked or damaged. While returning to port in December the local steam drifter "Remembrance" foundered about 16 miles off, but the crew were saved, although their gear and other effects were lost. Two half-sized boats were badly damaged while effecting a landing at Portnaguran, and one motor boat was wrecked.

Lord Leverhulme's activities have now, with the exception of several works in Harris, been completely abandoned, and the only project completed in Lewis is the Canning Factory at Stornoway, although no

attempt has been made to commence canning.

BARRA. — The District fisheries yielded a substantial increase, although less than was expected, and contrary to the general trend the

average price of herrings increased 20s. per cran.

A decrease in the total tonnage of fishing vessels is largely in respect of second class boats, of which 20 were completely wrecked during a gale in March, being blown clean off the shore. Fishermen who have secured crofts on a new crofting settlement intend to use their small boats for inshore fishing, as well as for carrying peats from an adjacent island.

Owing to stormy weather during the first quarter of the year, herring boats were only three times at sea, and nearly the whole of their

landings was sold fresh for local use.

Great preparations were made by curers for the early fishing of May and June. Thirteen curing stations were opened employing 82 crews of women, against 12 stations and 62 crews last year. The first landings of herrings were effected on 10th May and realised 15s. per cran for curing. Quality was bad, and the price continued at that figure until advices of sales, indicating a net return of over £3 per barrel, arrived from Hamburg, when it rose to 40s. per cran, and reached 50s. per

cran by the end of the month. Steam drifters were held up on the East Coast by the coal stoppage, and only the local motor boats and five sail boats were at work, averaging two to five crans daily from all over the Minch. Prices consequently advanced, reaching 122s. per cran at the end of June. Curing for Hamburg stopped at the end of May, but American buyers then took all the cure at 120s. to 130s. per two half barrels. The total cure to the end of June amounted to 2734 barrels, against 4463 barrels in the previous year. The boats in the six weeks' fishing did fairly well, as high prices compensated for light catches. The sail boats, which carry 60 nets, averaged £400, and the motor boats, which are smaller and carry 30 to 40 nets, about £200.

In July, on the termination of the coal stoppage, the steam drifters began to arrive, but mackerel and also salps had appeared on the grounds and herrings were scarce. Early in August herrings appeared in shoals in two different areas, 8 to 10 miles south of Barra Head and on Lochmaddy Bank. The best shot of 122 crans came from the latter and made 98s. per cran, which was about the average price for the first part of the month. In the middle of August the American market collapsed, and fresh prices fell to 15s. to 35s. per cran. Curers then consigned to Hamburg, but the German exchange fell, and the consignments had to be stored, and the ultimate outcome of the season was doubtful.

The steam drifters working at Castlebay averaged £745 for the six weeks' fishing. The local motor boats earned little in the late season,

barely clearing expenses.

Four curing stations, employing 22 crews of women, were opened at Lochmaddy, where there had been no herring fishing since 1908. The total cure amounted to 4687 barrels. Owing to lack of coals and oil the fleet was very migratory. The opening of new stations at various creeks indicates that the collapse of the Continental markets is not seriously handicapping the industry in this district.

The cured herrings were transported from the stations to the cargo steamers by 5 flit-boats each manned by 3 men, whose individual earnings for the season of 16 weeks averaged £70, but the flitting charges

were considered excessive.

Small-line fishing, chiefly for plaice, is prosecuted only for home use. Lobster fishing was actively pursued, chiefly during summer. While transport was restricted during the coal stoppage, lobsters were stored in floating boxes, and after their long confinement very few withstood the journey to London, so that returns to fishermen at that time were almost nil, although they were much better later.

An increase recorded in "unclassified" shell-fish reflects an increase in the number of crofting families who are driven to gathering whelks,

for which 6s. to 8s. per cwt. net is realised.

LOCH BROOM.—Herring fishing last year again proved an entire disappointment. Cod-net fishing, conducted chiefly from Badachro, was only apathetically prosecuted owing to depressed markets, scarcity of fish and stormy weather, and landings were much restricted. Line fish were often scarce, but the lobster fishery recorded fair results.

A motor boat was, unfortunately, wrecked while at anchor, but otherwise the decrease in the fishing fleet was entirely in sailing skiffs and

yawls, which were mostly wrecked or destroyed by gales.

Crofter fishermen are reluctant to replace or repair lost or damaged boats despite the recent fall in prices, and many have either wholly or temporarily forsaken the sea. The low prices realised for fish have also led many others to devote greater attention to their crofts.

Herrings throughout the year were scarce and their movements erratic, which made operations desultory, and except at the end of the year, they were thin and dry, and not suitable for curing. The winter herring fishing opened towards the end of January with a catch from Loch Nedd.

In August the Badachro motor fleet proceeded to Lewis and Skye, and during November fishing commenced in Loch Inchard, which continued with intervals of slackness and stormy weather until the end of the year. The herrings, often in dense shoals, were caught by local

yawls, and taken by steam drifters to Stornoway and Wick.

Fewer crews operated small and hand lines, while dogfish frequented the shores from October to December. This fishing, however, only supplies local needs, as consignments are now unremunerative. The lobster fishing was prosecuted on every available occasion, and despite much loss of gear and unfavourable weather, the results were not far short of the record landings of the previous year.

I OCH CARRON AND SKYE.—At first sight the reduction recorded in the district fleet would appear seriously to affect the catching power, but in reality it represents boats which, instead of being struck off the register gradually since 1914, were used so long as they would float,

but are now unseaworthy.

Herring fishing operations were less extensive than in recent years. In January a small fleet of East Coast boats had good catches, but prices fluctuated from 7s. 6d. to 114s. per cran. Many buyers left Kyle on hearing of good results at East Coast ports, and the absence of competition caused crews to seek other markets. A slump in the kipper market at the end of the month further discouraged operations,

and the total results of the winter fishing were poor.

Seine net boats had better results during the early summer, but prices were low, and a further decrease occurred later. Landings during the November-December fishing were also very short, owing to the non-arrival of East Coast crews. A few steam drifters commenced operations in December and had fair results, but demand was poor. The herring fishing results at outlying creeks were also very disappointing, but the shortage for the year occurred mainly at Kyle. The herrings caught during the latter part of the year were of poor quality and unsuitable for kippering, now that only superior kippers are again in demand.

Fixed ground net fishing was generally unremunerative, and fishermen stated that although fish, chiefly saithe, were abundant, it did not pay to catch them owing to the high railway rates and low prices realised.

Seine net fishing for herrings is becoming more popular amongst owners of motor boats, and eight additional crews adopted this type of gear. No other developments have taken place in the industry.

FORT-WILLIAM.—The winter herring fishing again commenced about the 1st of January, continuing until about the end of February. A fleet of 50 steam drifters and 15 motor boats operated from Mallaig and Oban. At Mallaig the steam drifters worked chiefly on the Stornoway grounds, and also off Bulgie Island and as far as Whiten Head, and the motor boats in the Skye lochs and on Coll Bank. The Oban boats operated off Skerryvore, Dhu Artach and Tiree, while a few drifters made trips to the grounds off the North of Ireland. This fishing, as is usual, was occasionally hindered by stormy weather, but it proved fairly successful during January, when heavy takes were landed, and as high as £7, 12s. per cran was obtained. During

February, owing chiefly to heavier fishings at all ports, prices were considerably lower. The quality of the herrings from the northern grounds was unsatisfactory, and in many cases the presence of a foul gut caused them to deteriorate rapidly, while owing to the long distance the herrings were often "overdays" when landed. The herrings caught on the grounds from Tiree to the Irish Coast were of good quality. Prices for the season ranged from 5s. to £7, 12s. per cran, averaging £2, 12s. 6d. The best gross earnings of steam drifters were about £1200, but for many the season was unprofitable. The bulk of the

catch was despatched fresh to the English markets.

Great lining was carried on with good results from about the end of January to the 1st of April, when the coal stoppage interrupted fishing. About a dozen boats made Oban their headquarters and operated chiefly from Colonsay to the Mull of Kintyre, and about 20 boats with headquarters at Mallaig worked from the Butt of Lewis to off Ushinish Point. Good shots of cod, eels and roker were secured on all these grounds. Special mention might be made of the success of a few of the Mallaig boats fishing chiefly for hake off South Rona, where the fish were caught in a small patch of deep water. Prices were good, especially for hake, which often realised from £10 to £15, 7s. 6d. per score. The most successful liner grossed about £1200 and the earnings of the majority ranged from £700 to £1000. few motor boats began herring fishing at Mallaig and Oban about the end of May and worked chiefly off Canna, Hyskeir and Muldoanich, and on Coll Bank, but steam drifters were unable to secure fuel and resume fishing until about July. The results were disappointing for the greater part of the season, but high prices enabled crews to work with a slight profit.

There was a good appearance of herrings throughout the season between Barra Head and Tiree, but fishing did not become general until the middle of August, when a number of heavy shots up to 128 crans were secured on these grounds, ranging in value from £200 to £500. Prices ruled high, chiefly owing to the keen demand for cured matjes. The herrings were of a fair size but lacked fat and flavour, and with heavier landings in August there was a sharp fall in prices. The top price paid was £7, 18s. and the average for the season £2, 16s. 9d. per cran. The majority of the boats had a successful fishing with gross earnings ranging up to £1700. The bulk of the catch was cured for export to the American markets, and as high as £6

per barrel was offered for cured matjes.

Herring fishing was re-commenced at Mallaig by a few motor boats in November, when the fleet operated chiefly in the Skye lochs, but herrings were found rather scarce and of poor quality, and prices ruled low, ranging from 5s. to 26s. per cran. Towards the end of December a few drifters landed shots ranging from 40 to 162 crans from the Stornoway grounds and from the vicinity of Loch Laxford, where the demand was better and prices reached 62s. 6d. per cran.

Several East Coast drifters operated with the Danish seine net from Mallaig during November and December, but for the most part with little success, owing apparently to the rocky nature of the sea bottom.

CAMPBELTOWN.—In the opening months of the year the winter herring fishing was extremely successful, whereas the summer and autumn fishings yielded but poor results in spite of fine weather, which enabled crews to prosecute them diligently. During the second week in January heavy catches were secured by "ringing" in the middle of the Sound between Davaar and Brown Head, Arran, where the seine net had

not been employed in winter for about 25 years, as operations are usually confined to the Bays on the coasts of the Sound. Stormy weather interrupted the fishing during the following week, but in the week ended 29th January the landings were the heaviest for the year. Unfortunately prices fell as low as 1s. 6d. per quarter cran basket, and 1300 baskets of good quality had to be thrown into the sea, which discouraged operations for the next fortnight. A few crews made a very unsuccessful trip to Stranraer, where the demand was no keener. Spawning herrings were secured in Kildalloig Bay from the end of February to the beginning of April, but the demand continued poor, otherwise the landings might have been much heavier. Shoals of spent herrings were then located along the Arran shore, but fishing was carried on only half-heartedly owing to poor markets until the last two weeks of the month, when fair catches were landed. During May transport was completely disorganised by the coal dispute and the Glasgow dockers' strike, and a number of local fishermen landed their catches at Ayr, but because of the impaired railway facilities they sometimes met with poor markets, and had on one or two occasions to "dump" their herrings.

Seven pairs of local boats went north at this time to the fishings at Canna and Raasay, and continued there until well into July, but only

two pairs had good success.

The fishing was fair during June, catches being obtained all over the Sound, but during July was a failure. In the first fortnight of August some good catches were secured south of Arran and Kilbrannan Sound, but towards the end of the month landings were again very disappointing. Results during September were poor, but the fishermen reported the presence of herrings in the Sound although unable to secure good catches. October opened with good prospects, and fair catches were obtained in the first fortnight, after which rough weather interrupted the fishing.

In November and December most of the local boats were engaged in Loch Fyne, and all made fair wages, as when the fish struck the shallow water at the entrance to Upper Loch Fyne very heavy catches were secured. The only herrings landed in this district during those

months were brought from Loch Fyne by local crews.

The long period of slack fishing during the summer proved very trying to many local crews, but the majority had a much better year

than fishermen on the East Coast.

The usual fleet of East Coast motor great-line boats started here early in January, but catches were disappointing and markets unfavourable, and by the beginning of March the majority had gone home, leaving only four crews who continued, with better results, until the end of April.

The results of the cod fishing at Gigha were poorer than in 1920. Most of the cod landed was dried and sold to Glasgow and the Ayrshire

ports by the fishermen themselves.

Herrings cured chiefly at Campeltown during the winter fishing were shipped via Glasgow to Leith, mainly for distribution to home centres, and the balance of the cure was sold locally. A small kipper house was erected at Carradale during the year, but as at Campbeltown, because of the poor summer fishing, kippering was almost confined to supplying district requirements.

Small-line fishing is engaged in chiefly by small sail and rowing boats, but a few motor boats worked from Campbeltown during the spring and early summer months, when some fine catches of whitings

were secured.

Increased attention was paid to the gathering of shell-fish, chiefly winkles and cockles, and the fine weather during the spring and summer allowed more time than usual to be spent at this work.

One small sail boat was lost at Port Ellen and two Campbeltown motor boats were sunk, one by collision and the other by striking a submerged rock. Both the Campbeltown skiffs were raised and repaired

and are again engaged in fishing.

It is understood that orders have been placed by a local fisherman for a pair of boats of a different type from the usual Clyde skiff, and of larger size, with a view to access to a wider market and to following the herring fishing more closely in the various districts. Although the fishing fleet is now numerically less than a year ago its catching power is greater.

INVERARAY.—Although a number of small boats have been struck off the register, there is an increase in the number of motor boats, and therefore in the catching power of the fleet. The total landings for the year are the highest since 1901, while the value is the highest since 1892.

The year opened with a very poor herring fishing in the Loch, but a number of local boats did better in the mouth of the Kyles and Kilbrannan Sound, where one pair had £700 for a fortnight's work, and the best fished pair grossed £800 for the month of January.

During February most of the Loch Fyne fleet operated with the Campbeltown crews in Kilbrannan Sound, and about six pairs worked from Girvan and Stranraer, but the fleet returned home at the end of

the month, having failed in most cases to clear expenses.

March was also a very slack month, and most of the fleet remained ashore and had their annual overhaul in preparation for the summer fishing.

Little or nothing was done at herring fishing during April, but a few

small boats were working lines and cod nets with poor results.

There was a slight improvement in May, and during June and July a good fishing was secured on the grounds between Skipness Point and Tarbert. The quality was good and prices ranged from 30s. 6d. to 106s. per cran.

At this time six pairs of boats proceeded to the herring fishing on the Canna grounds. They remained from two to five weeks and were

fairly successful, earning from £50 to £400 per pair.

From then till the month of November the fleet was regularly in the Loch, and it is remarkable that although they sailed through large shoals of herrings nightly, as soon as the nets were put into the water the herrings sank out of reach. Drift nets were also tried with similar results. During this time the shoals never came inshore, but remained

in the middle of the Loch in deep water.

In November, however, the shoals commenced moving up the Loch and to shallower water, at first off Ardrishaig and in Kilfinan Bay, and later further up in the vicinity of Otter, where very heavy catches were secured; but the heaviest fishing was secured at the beginning of December when the shoals moved to the shallow banks off Lochgair. Practically the whole of the Firth of Clyde fleet operated in the Loch at this time, and shots of 200 to 250 crans were common, while one pair "circled" about 500 crans. Out of this "ring" six boats were filled, and then the remainder of the catch had to be released. Nets were frequently burst by weight of fish. The oldest fishermen state that they cannot remember such heavy shoals of herrings in Loch Fyne before.

Unfortunately stormy weather set in, and the fleet had to remain in port for a number of days, and when fishing was resumed it was found that the herrings had left the Upper Loch, and only a few shoals were located between Tarbert and Laggan. The total catch for December was 14,193 crans valued at £13,917.

For herrings cured during November and December there was at first a keen demand for local consumption at from 48s. to 60s. per barrel, but this demand fell off at the close of the year, and the herrings

were being offered at 40s. per barrel.

Mackerel again found their way into the Loch during the summer, but not in such dense shoals as in the previous year, and the catch shows a falling off.

Small-line fishing appears to be dying out, as there seem to be few

fish, other than herring, in Loch Fyne.

A decrease in the catch of lobsters resulted indirectly from the coal stoppage, which rendered the transport of lobsters so uncertain that most of the fishermen in Luing gave up fishing and got employment in the slate quarries, and when the dispute was over a good many of them did not resume fishing.

ROTHESAY.—The results of the fisheries for the past year were most disappointing, being even worse than those of the very poor season of 1920.

Herrings appeared to be on the grounds, but the fishermen, for some unknown reason, were unable to take them. Only during the weeks ended 20th November and 17th December last year were heavy fishings landed, and even then, although quality was good, the earnings of the boats were very poor owing to the congestion in the markets. For the whole year the average gross earnings for motor and sail boats respectively were £93 and £38, and the average working expenses £90 and £14. As a result of the failure many regular fishermen had to seek other means of livelilood, and at Rothesay, for instance, a number with their boats were employed carrying sand and gravel for road repair work.

The quality of the herrings from Loch Fyne was invariably good, but from the Kyles of Bute and Kilbrannan Sound was usually poorer. Of the total landings four-fifths was taken by carrier steamers for sale in Glasgow Market, and the remainder was disposed of locally.

It is usual for the fishermen, when herring fishing is unpromising, to prosecute great-line fishing for a time, but this was not done to any extent during 1921, and the landings of white fish were light. During September the Lochs Long and Goil fishermen experienced considerable difficulty in finding a market for saithe.

Partially employed fishermen in this district are principally pleasure boat-hirers and members of crews of pleasure yachts during the holiday

season.

GREENOCK.—The season was disappointing, and but for the herring fishing would have been a comparative failure. The larger class of motor boats as usual devoted their whole time to herring fishing, leaving the line, cod-net and flounder-net fishings to the smaller and less efficient sailing craft, and as these are decreasing in numbers a falling off in the landings of white fish is not surprising.

The District catch was considerably augmented by landings at Glasgow by two Aberdeen steam liners, which had been working off the West Coast, and found it not worth while to proceed home with the

poor catches secured.

The bulk of the herring catch was landed at Fairlie, from which port admirable railway facilities are available. Although the herring fishing was then comparatively light, the heaviest landings occurred towards the end of May and beginning of June, owing chiefly to the inadequacy of carrying facilities from the fishing grounds during the

coal stoppage.

The fishing grounds at the beginning of the year were between the Ayrshire coast and the south east of Arran, but the shoals gradually moved up the Kilbrannan Sound until Loch Fyne was reached towards the end of the year. Very heavy landings were then effected, and on two occasions catches were so heavy that the carriers were unable to cope with the supplies, and many vessels proceeded to Fairlie, Gourock and Glasgow and there delivered their shots at comparatively low prices.

During October a Fleetwood trawler landed a shot of herrings of good quality at Glasgow from off the Welsh coast, but as Loch Fyne herrings were then on the market, prices for the trawled herrings were

not remunerative.

The net and line fishing for white fish received very little attention, and the greater part of the landings was retailed locally.

Ballantrae.—During the year a very considerable number of boats changed hands within the district, while three of the best class motor

boats were sold from Girvan to Campbeltown.

As heretofore the best class of boats from Ayr to Girvan devoted most of their time to herring fishing. During January operations were carried on in Kilbrannan Sound, but were much interrupted by stormy weather. Early in February herrings were located on the Ayrshire coast, and some fair results obtained for a short time. Later fishermen divided their time between Ballantrae Bank, where results were poor and partial owing to adverse weather, and the coastal grounds, on which a moderately successful fishing was secured. The herrings taken on the Bank were very ripe and unsuitable for long transit, while those taken on the coast were smaller and undeveloped in milt and roe. Herring fishing in Loch Ryan, although energetically followed for some weeks with seine and trammel nets, was unproductive, and the visiting fleet from Campbeltown and Loch Fyne had a very unprofitable voyage. Little was done during March, but in April dry spent herrings were located off the coast; the demand, however, was exceedingly limited, and prices frequently fell to 1s. per quarter cran basket, causing operations to be suspended for a day or so at a time. The quality thereafter improved, and as landings were fair a scheme of motor transport from Girvan to Glasgow was inaugurated. On the arrival of the boats late in the evening or very early in the morning, the catches were disposed of and despatched by motor lorries to Glasgow, reaching the market before 8 a.m., as against 10 a.m. or later by the first train. The venture proved successful and is likely to be repeated. Fair results were obtained until the end of June, except when prices fell on account of heavy landings. From July to September operations were energetically pursued but, results were poor, both then and in the following months when the local fleet operated mostly in other districts.

During February, March and April great-lining was prosecuted from

Girvan and Strangaer, principally by East Coast motor boats.

At Stranraer 4 large and 2 small boats were engaged, mostly with very poor results. Later 2 steamers arrived and worked for a short period with better success, but the coal stoppage precipitated their departure. The best results were secured during the latter part of the season, when most of the motor boats had abandoned the venture. Financial results

to fishermen on motor boats were disastrous, as in the case of the only 2 boats able to clear expenses, the share per man worked out at £19 and £8 respectively for nearly a three months' voyage, while the others had debit balances ranging from £2 to £16 per man. All the motor boats working from Stranraer worked cod-nets and lines in conjunction. The 2 steamers had fair earnings, one, whose crew were familiar with the ground and tides, grossing over £800 for about five weeks' fishing.

Only two East Coast motor boats worked, more or less regularly, from Girvan, with very modest results. Generally fish were scarce on the local grounds, and the best results were obtained on the more distant grounds. When deliveries by great-line boats were good, and were augmented by landings from cod-net boats, prices for cod frequently

reached a low level.

Immediately after the herring fishing on Ballantrae Bank, 20 to 30 boats from Girvan, Ballantrae and Stranraer shot their cod-nets on the Bank, securing some good catches, but prices were mostly low and earnings moderate. This method of fishing, however, continues to find favour with fishermen.

Good results were obtained at small-line fishing from Maidens and Dunure during March and April, but the Dunure fleet devoted less time to this fishing than usual, being attracted therefrom by herring fishing, which always commands first attention. During the autumn small-lining was a failure owing to scarcity of fish, and not until late November was there any distinct improvement.

During the year kippering was carried on at Stranraer and Girvan. The decreased output is probably attributable to the poor herring fishing at Girvan and Ayr during the summer months, when herrings

had frequently to be imported from Glasgow.

Practically the whole catch from Ayr to Strangaer is now taken by motor boats, and sail boats participate only when a successful herring

fishing is got in Loch Ryan.

Two fishermen lost their lives during the year, one while bringing a small boat single-handed from Maidens to Girvan, and the other while shrimping in the Solway.

APPENDIX III.

SALMON FISHERIES.

MR. CALDERWOOD'S REPORT.

The season of 1921 was remarkably successful for the great majority of salmon netsmen, the catch, as revealed by the weight of salmon carried to market, being far in excess of the catch for any year since 1896. The figures for 1921 are given in the Board's Report (p. 52). A statement showing the number of packages of salmon delivered at or near Billingsgate Market during 1921 and the average prices per lb. has been kindly furnished by The Fishmongers' Company and is appended hereto.

The great increase was almost entirely confined to spring fish. The stations which did not participate in the good season were those where grilse and summer fish are chiefly relied upon. Some stations of this class are reported to have done very badly indeed, for grilse were chiefly

conspicuous by their absence.

So far as river reports go, spring fish have been numerous, and angling in summer and autumn met with but little success. The exceptionally dry summer might sufficiently account for this, weather being a factor which always bulks largely in the sport of salmon angling. In all the smaller rivers also the continued drought reduced the flow to such an extent that the entrance of fish from the sea became difficult or impossible. In large rivers like the Tay, Dee and Spey, where the stock of fish is relatively high, the angling season was regarded as an average one all over, but both in Scotland and in England anglers have remarked for some years that spring fish appear to be increasing and autumn fish diminishing in numbers.

So far as the nets are concerned, the great spring run of 1921 was most marked in the section of the coast between Berwick and Inverness. In the north of Scotland the summer was not by any means a dry one. The rainfall was above the average, and in the north-west especially (where the Board's nets were fishing) the season was not only wet but cold. All along the north coast of the country as well as on the east of Caithness the salmon netting was poor, but it has to be recollected in this connection that this section of the coast is one where grilse are expected

to be more numerous than salmon.

As an example of the difference between seasons 1920 and 1921, the combined total catches of two representative river districts, viz. the Tweed and the Findhorn, may be selected. The figures represent the netting results only, bag nets on the coast being shown separately from sweep nets in the mouths of the rivers.

		1920.	1921.
Bag nets .		12,036	23,233
Sweep nets		18,561	30,187
		30,597	53,420

An increase of 22,823 fish in the total for 1921.

As showing the relative runs of salmon and grilse at the Aberdeen Harbour Commissioners' Fishings—where, in the past, very great numbers of grilse have been taken—I may state that 2588 salmon were taken in February, and that the total grilse take for the year amounted to only 2721. The monthly totals, which have been kindly supplied, show a gradual diminution from February to the end of July, and only a small rise of 30 fish in August.

As showing the relation between salmon and grilse for the last ten years in the Moray Firth area, I have been favoured with a table of percentages of grilse to salmon prepared by the Moray Firth Salmon.

Fisheries Co., Ltd.

1912		94.8	1917		94.1
1913		98.7	1918		69.8
1914		95.7	1919		121.1
1915		172.3	1920		60.7
1916	 	 36.3	1921		56.7

With regard to the total weight of salmon and grilse sent to market, which weight has been commonly charted in four lines representing four sections of the coast, I this year give a curve indicating the totals for the last 28 years in tons. The marked rise for 1921 is very evident, as

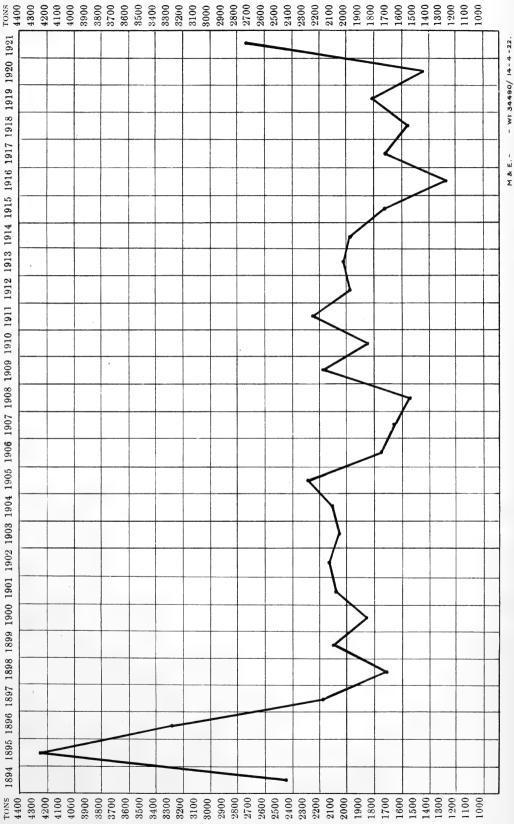
also are the high totals of 1895 and 1896.

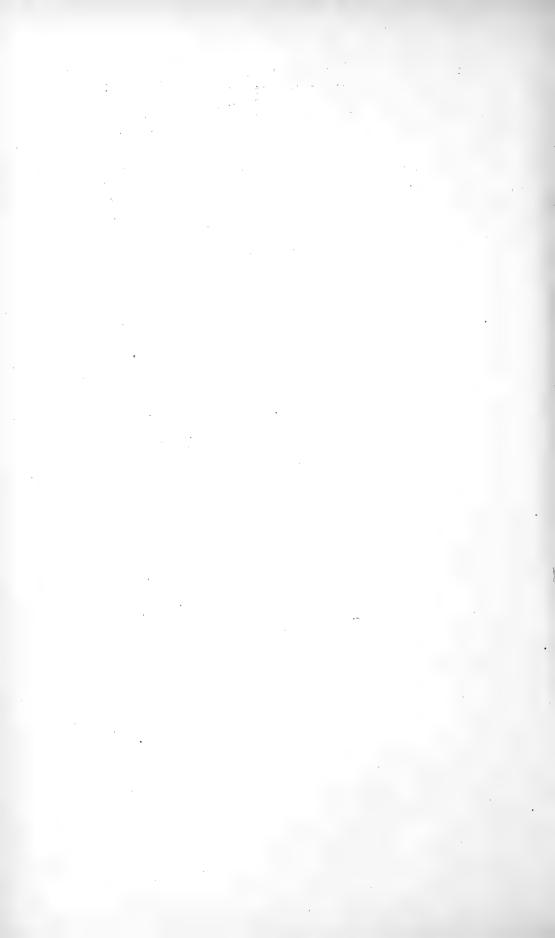
While it is the case that in the wet and cold part of the country the coast netting was poor, it by no means follows that in those parts of the country where dry weather prevailed all through the summer the good fishing season was due to the dry weather. I have already stated that the increase was chiefly in spring fish, and one has only to reflect that the dry weather did not really begin till after the success of the spring fishing had already been attained, to see that the direct cause, at least, was not the dry summer. Grilse showed up poorly all through the dry season, and were later than usual in some districts. All fish taken in 1921 were, however, of excellent quality, and the average weight of spring fish is reported to have been rather above the normal.

If we go a little further back in our consideration of the weather conditions, it may be that the factors which brought about the dry season of 1921 exercised their influence upon the life of the salmon in the sea, and induced a greater proportion of fish to come into the coast earlier than usual. Alternatively, there is the possibility that the early running fish are a separate race, and that this race is increasing at the expense of an autumn race. It seems extremely unlikely that the general stock of the country's salmon is becoming augmented. If it were so, we should surely have a better show of grilse and summer fish. The class of small spring fish, and the great majority of the large spring fish also, are those which have not come to the coast as grilse, but have continued to feed in the sea to a later stage in their life.

In this connection one may observe that, in the study of the fluctuations of the herring, upon which the scientific staff of the Board have been engaged for some years, it was noticed that in 1920 an unusual influx of Atlantic water was carried round the north of Scotland, and between the Orkneys and Shetlands, into the North Sea, and that the normal currents in the northern part of the North Sea were so upset as to be reversed in certain particulars. Coupled with the abnormality of the hydrographical conditions, there occurred a great abundance of the jelly-fish-like creature Salpa, a form belonging to the warmer Atlantic. The salps appear to have been in such abundance as to clog the fishermen's nets, and as they were carried into the Moray Firth,

CHART SHOWING, IN TONS, THE TOTAL' WEIGHT OF SALMON SENT TO MARKET SINCE 1894.





the normal pelagic life, including the small crustaceans upon which the herring principally feed, disappeared. The herring subsequently were found at great distances from land.

The interest in this to the salmon fisher is that the herring is the chief food of the salmon, and that the salmon in following the herring through this abnormal period may have assumed, temporarily, different habits.

Then again it has been pointed out that in 1905 somewhat similar hydrographical conditions obtained, with a similar incursion of salpæ. If we refer to the curves showing the marketed salmon, we see that the weight of salmon sent to market between places on the coast from Berwick to the entrance to the Moray Firth rises to a high level in that year, though not to so high a level as in 1921. The three other curves in 1905 did not respond.

In the research observations we have been making recently, and more especially in the scale reading investigations, indications have been appearing, similar to those found by Mr. Hutton in the case of Wye fish in England, pointing to the conclusion that the nutrition and growth of parr and smolts in their early river life have a direct bearing upon the growth which may be expected in the sea, and to the time at which the fish may be expected to return to the river after their seaward migration.

During 1921 nearly 7000 scales from seven different Scottish districts were examined in an attempt to make a sufficiently wide comparative study of such matters as seasonal runs and local races. With every sample of scales the fish is measured at four different points, and particulars of weight, place and date of capture are also noted. We have now amassed a very large number of percentage calculations, and have been actively engaged in working out certain issues. Data from the Aberdeenshire Dee and the Spey bulk most largely in the calculations meantime, and the particulars from those two rivers are almost equally represented.

In the case of a specially interesting year such as that of 1921, in which, as I have already explained, there may be considerable abnormality of habit, the value of comparisons with other and more usual years is of great importance. It is greatly to be regretted, therefore, that for reasons of economy, involving the loss of two trained workers, these investigations have received an abrupt check. With a little clerical assistance we still hope to be able to work through the calculations, and even to continue the collection of more data in 1922, our desire being, if possible, to follow out the generation of the fish already dealt with. Otherwise the value of the great amount of scale reading and calculation already done will be much reduced.

The coast salmon marking work, recommenced in 1920 after the interruption due to the war and continued in 1921, has now had meantime to be entirely suspended.

POLLUTIONS.

It is remarkable that, although Salmon and Fresh Water Fisheries are most seriously affected by pollutions, the Fishery Board for Scotland has never been given any power to deal with the matter so as to protect the fisheries from this danger. It may be noticed, in consequence, that those suffering local injury to their fisheries have been recommended in the past, by Fishery Associations, to apply to the Local Government Board, now the Board of Health, or directly to the Secretary for Scotland.

The Public Health Scotland Act of 1897 contains three sets of provisions dealing with the subject. In section 16, if the pollution of a watercourse amounts to a nuisance—a term clearly capable of much dispute—or is injurious or dangerous to public health, the local authority is required to take proceedings. By section 116, the local authority is required in the same way to take action if distilleries, manufactories or works of other kinds discharge into any stream material dangerous to public health. And by section 127, a heavy penalty is instituted against any manufacturers who pollute streams used for domestic purposes, the reference being specially directed against the introduction of wastes from gas, naphtha, vitriol, paraffin and dye stuffs. The first section referred to has eleven sub-sections.

The provisions are not very applicable to fishery interests, and are not intended to be so, but none the less conscientious action by local

authorities would do much to benefit the fisheries.

The Burgh Police Act of 1892 contains two provisions to prevent the throwing of rubbish into streams or on to the banks of streams, or to discharge offensive matter into streams within a burgh, instead of into the sewers. The offence of depositing rubbish seems generally to be got over in country districts by tipping outside the burgh boundaries, and so far as the fisheries are concerned, it matters little whether offensive matter comes into a river through sewers or not, if the contents of the sewers are not purified in any way.

The Rivers Pollution Prevention Acts, 1876 and 1893, were set up

expressly for the purpose described in their title.

The 1876 Act has three sets of provisions dealing with pollution. Sections 3, 4 and 5 established as offences the discharge of sewage into streams, the discharge of manufacturing wastes, and the discharge of pit water respectively. In each case, however, there is the proviso that a person complained against shall not be deemed to have committed an offence if he shows to the satisfaction of the Court before whom he is tried "that he is using the best practicable and available means of rendering harmless" the discharge complained of. In addition, in clause 5, that referring to mines, an exception is made in respect of "water in the same condition as that in which it has been drained or raised from such mine." This last was exemplified very acutely some years ago, when water from a pit which had been closed down for sometime was pumped into a small burn, a tributary of the river Girvan. The water contained such a high percentage of iron sulphate that a bright orange precipitate was immediately created in the burn, forming a thick crust on the bed of the stream, while the river Girvan from the mouth of the burn downwards ran in a thick yellow flood, and every fish in the river This water was in the same condition as when raised from the mine. The pumping continued for months till the pit was emptied, and several seasons elapsed before a moderate stock of salmon could be re-established.

With regard to the best practicable or available means of purification, or the variant of the phrase "the best practicable and reasonably available means," it may be observed without fear of contradiction that great advances have been made in purification since 1876, but that even very moderate and easily available means are often conspicuous by their absence.

By section 12 a certificate may be granted by a qualified inspector showing that the means of purification employed "are the best or only practicable or available means under the circumstances of the particular case," and this in all proceedings will be held as conclusive evidence

of the fact.

As an additional safeguard against undue interference with manufacturing and mining interest, section 6 enacts that proceedings shall only be taken at the instance of a Sanitary Authority with the consent of the Local Government Board (Board of Health). This was afterwards qualified by section 55 of the Local Government (Scotland) Act, 1889, which empowered County Councils to act in the same way and with the same powers as Sanitary Authorities. As members of County Councils are not infrequently concerned in the creation of pollutions, this clause has not proved of much use, while it may be said that the complications of procedure and the safeguards against interference with polluters have rendered the Rivers Pollution Prevention Acts of practically no use to those interested in the preservation of our fisheries.

In the Salmon Fisheries (Scotland) Act, 1862, there is another reference to pollutions, but it embodies the same sort of proviso as to "the best practicable means within a reasonable cost." This introduction of the element of cost is liable to be interpreted variously, and to mean in the main that any large cost cannot reasonably be contemplated. Modern purification plants cannot be erected without a fair amount of cost, and those interested in the fisheries are naturally inclined to the view that even a large cost, being the price of a pure river, is reasonable. Section 13 as amended by section 16 of the Salmon Fisheries (Scotland) Act, 1868—the very latest Act—reads as follows:— "Every person who causes or knowingly permits to flow, or puts or knowingly permits to be put, into any river containing salmon, any liquid or solid matter poisonous or deleterious to salmon, to an extent injurious to any salmon fishery, shall be liable to the following penalties." The weak point here is the expression "to an extent injurious to any salmon fishery," a phrase which originally had reference to the discharge of sawdust, but which when the reference to sawdust was deleted, was left in as if by an accident of drafting.

Procedure here is at the instance of a clerk to a District Fishery Board, and in practice it has been found that to prove injury it is necessary to produce salmon found dead, and to prove that they have been killed by pollution. Proof of this nature is exceedingly difficult to obtain, and the unfortunate fact is that by the time adult fish have been killed by pollution an infinite amount of harm has already been done to fry and to the food of fry, while the gravels forming the bed of the river may have been rendered quite unsuitable for salmon to

spawn in.

Apart from Common Law rights, these are the statutory provisions

dealing with Pollutions.

Recommendations have been made both by the Royal Commission on Salmon Fisheries, 1902, and the Sewage Disposal Commission in their

exhaustive series of Reports.

The former in their Summary of Recommendations state (Report, p. 63):—"We are satisfied that much injury is done to the fisheries by pollution of rivers which might be prevented; and although some amendments of the law would be advisable, to which we have referred in our Report, that a better administration of the law is all-important. We therefore concur in the recommendation of the Sewage Disposal Commission for the creation of a Watersheds Board under a Supreme Rivers Authority in those waters, on the understanding that the recommendation of the Sewage Commission on the methods to be adopted for the purification of rivers and estuaries will cover the requirements of the fisheries, and that provision will be made for the protection of fishery interests by the Watersheds Board."

With further reference to the proposal for a Watersheds Board, I

may also quote from an earlier passage (p. 12):-"There are three great subjects for all of which, in our opinion, the watershed is the proper administrative area, i.e. Pollution, Water Supplies, and Fisheries. If it were possible to give adequate representation to all the interests concerned in one body, we should have a Board of great influence capable of interfering authoritatively in all matters affecting the district, while by the formation of separate committees the administration of each of the subjects above named might be left in the hands of representatives best qualified to carry it on. The Government alone can decide whether anything of this kind is practicable, but we have thought it right to make the suggestion to mark our sense of the interdependence of the different interests specially concerned in the preservation of the purity of our rivers."

The position advocated by the Sewage Disposal Commission may be indicated from the three first headings of their conclusions (Final

Report, p. 11):-

"(a) The law should be altered so that a person discharging sewage matter into a stream shall not be deemed to have committed an offence under the Rivers Pollution Prevention Act, 1876. if the sewage matter is discharged in a form which satisfies the requirements of the prescribed standard.

"(b) The standard should be either the general standard or a special standard which will be higher or lower than the general

standard as local circumstances require or permit.

"(c) An effluent in order to comply with the general standard must not contain as discharged more than three parts per 100,000 of suspended matter, and with its suspended matters included must not take up at 65 F (18.3 C) more than 20 parts per 100,000 of dissolved oxygen in five days. general standard should be prescribed either by statute or by order of the Central Authority, and should be subject to modifications by that Authority after an interval of not less than ten years."

The decision to deal with the question by the establishment of standards of purity consisting of a general standard, with power to make special standards to suit special cases, was arrived at after mature consideration.

SALMON PASSES.

To test the success of the Tummel Pass, to which reference has repeatedly been made, the Tay District Board caused a trap to be inserted at the top of the pass for some weeks during the three last summers.

In 1919, from 10th June to 17th June, with a height of water ranging

from 1 ft. 3 in. to 2 ft. 11 in., 83 fish ascended.

In 1920, from 6th to 30th June, in water falling from 2ft. 7 in. to 1 ft. 5 in., 47 fish ascended; 20 fish were also observed to ascend the fall.

In 1921, from 8th to 31st May, in a rising water from 2 ft. 2 in. to 3 ft. 3 in., 135 fish ascended, but on four days none was observed owing to an accident to the heck. The maximum daily number was 15, the minimum 3.

It would appear that when there is less than about 18 inches of water in the pass, the fish take the fall rather than the pass, but the experiment was sufficient to prove the value of the pass.

In the Conon district, blasting operations have been carried on in the Meig river by which the series of cascades which I inspected in 1913 have been successfully opened up to salmon. Attempts were also made to deal with the Orrin Fall by means of a built wooden structure, but heavy floods have put this pass out of action. In connection with the proposals for the carrying of electric power to Inverness from Loch Luichart, it seems possible to consider the erection of a pass at the large falls of Conon.

LOCH ABER WATER POWER ACT, 1921.

In connection with the adjustment of the Salmon fishery interests in the Lochy District, the Promoters of the above Act secured a settlement

with the proprietors involved.

As regards the Spey District, the Board, at the request of the Promoters, convened a Conference on 30th March for the purpose of enabling the Promoters to explain their proposals to the representatives of the Spey District Board, their engineers and expert advisers. Although no final agreement was arrived at, the subject was elucidated to a considerable extent by the help of plans, and of a model of the weir which the Promoters proposed to throw across the upper Spey above Laggan Bridge. By the final terms of the Act arrived at by the Parliamentary Committee in London (Sec. 54) the Company agree not to divert any water from the Spey except by means of the weir referred to; and on any day during such time as the flow is less than 40,000,000 gallons in twenty-four hours, they are not entitled to abstract any water from the Spey or Mashie. When the flow exceeds the amount stated, however, they are entitled to abstract all or any part of the water. They are to provide and maintain a water gauge which shall be open to inspection at all times by the Spey District Board, and shall construct a suitable fish pass through or in connection with the weir.

W. L. CALDERWOOD.

February 1922.

NUMBER of PACKAGES and average PRICES of SALMON delivered at Billingsgate Market during the year 1921, with average prices per lb.

This return has been kindly supplied by the Fishmongers' Company, London.

English. Scottish. Irish. Dutch.	49 96	123 474 791	842 831 1,011	898 675 1,693	953 1,156 1,941	1,237 1,814 1,396 38	904 2,915 976 3	209 618 30	26 111	:	18	12	4,192 8,594 7,887 134 746
Trish.	49 96	791	:	:	:	:	976	30	:	.:	18	12	134
Dutch.	96	:	:	:	:	:	:	:	:	80	18	12	134
													!
Norwegian.	:	:	:	:	. :	ဆို	60					:	74
1	,					382	353	Ę	:	:	:		9
German.	:	:	:	:	•	:	:	:	:	88	28	35	202
-Қъспер	7.0	-	:	:	;	:	:	:	:	:	:	:	28
Danish.	:	:	:	:	:	:	:	:	:	:	:	:	:
Canadian.	:	:	:	:	:	:	:	:	:	:	:	:	:
Newfoundland.	:	:	:	:	:	:	:	:	:	:	:	:	:
Totale,	202	1,389	2,184	2,766	4,050	4,829	5,148	868	137	26	96	47	21,813
Hnglish.	S. D.	2 6	5 11	$2 10\frac{1}{2}$	2 44	2 4	2 7	&2 7 .0	4 0	:	:	:	:
Scottish	702	2 10	හ	ေ	2	2	2 10	8	3 11	:	:	:	:
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APPENDIX IV.

ANNUAL CLOSE TIMES APPLICABLE TO THE SALMON RIVERS IN SCOTLAND.

N.B.—Observe that, in the following List, the days fixing the commencement and termination of the Annual Close Time for Net-fishing, and for Rod-fishing, respectively, are in all cases inclusive, as in the case of the Add, the first river in the List.

Name of River.	Annual Close Time for Net-fishing.	Annual Close Time for Rod-fishing.			
Add	From Sept. 1 to Feb. 15,	From Nov. 1 to Feb. 1. both days inclusive.			
A 15	both days inclusive.	From Nov. 1 to Feb. 1			
Aline	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10			
Alness	From Aug. 27 to Feb. 10.	From Nov. 16 to Feb. 2			
Annan	From Sept. 10 to Feb. 24.				
Applecross	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Arnisdale (Loch Hourn).	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Awe	From Aug. 27 to Feb. 10.	From Oct 16 to Feb. 1			
Aylort (Kinloch).	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Ayr	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Baa and Goladoir	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Badachro and Kerry (Gair-	E 4 074 E 3 70	T N 1/ T1 1			
loch)	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Balgay and Shieldag	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Beauly	From Aug. 27 to Feb. 10.	From Oct. 16 to Feb. 1			
Berriedale	From Aug. 27 to Feb. 10	From Nov. 1 to Feb. 1			
Bervie	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 2			
Bladenoch	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Broom	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Brora	From Aug. 27 to Feb. 10.	From Oct. 1 to Jan. 1			
Carradale (in Cantyre) .	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 2			
Carron	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Clayburn, Finnisbay, Aven-					
nangeren, Strathgravat,					
North Lacastile, Scalla-					
dale, and Mawrig (East	7 7 1 10 71 01	E 37 4 E1 0			
Harris)	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 2			
Clyde and Leven	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Zonon	From Aug. 27 to Feb. 10.	From Oct. 16 to Jan. 2			
Cree	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
creed or Stornoway, and	7	B 37 4 B1 4			
Laxay (Island of Lews) .	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Creran (Loch Creran)	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Croe and Shiel (Loch Duich)	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Dee (Aberdeenshire)	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Dee (Kirkcudbrightshire) .	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Deveron	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Oon	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Doon	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			
Drummachloy or Glenmore	7				
(Isle of Bute)	From Sept. 1 to Feb. 15.	From Oct. 16 to Feb. 1			
Dunbeath	From Aug. 27 to Feb. 10.	From Oct. 16 to Feb. 1			
Earn	From Aug. 21 to Feb. 4.	From Nov. 1 to Jan. 3			
Eckaig	From Sept. 1 to Feb. 15.	From Nov. 1 to Feb. 1			
Esk, North	From Sept. 1 to Feb. 15.	From Nov. 1 to Feb. 1			
Esk, South	From Sept. 1 to Feb. 15.	From Nov. 1 to Feb. 1			
Ewe	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 1			

Name of River.	Annual Close Time for Net-fishing.	Annual Close Time for Rod-fishing.			
Fincastle, Meaveg, Ballanachist, South Lacastile, Borve, and Obb (West		·			
Harris)	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24.			
Findhorn	From Aug. 27 to Feb. 10.	From Oct. 11 to Feb. 10.			
Fleet (Sutherlandshire)	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24.			
Fleet (Kirkcudbrightshire) .	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24.			
Forss	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Forsh.	From Aug. 27 to Feb. 10.	From Nov. 1 to Jan. 31.			
ryne. Soira, and Aray	, 0				
(Loch Fyne)	From Sept. 1 to Feb 15.	From Nov. 1 to Feb. 15.			
Girvan	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24.			
Glenelg	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Gour	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Greiss, Laxdale, or Thunga.	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Grudie or Dionard Gruinard and Little Gruin-	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
ard	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Halladale, Strathy, Naver,	110m Mug. 27 to 100. 10.	F10III 110V. 1 to Feb. 10.			
and Borgie	From Aug. 27 to Feb. 10.	From Oct. 1 to Jan 11.			
and Borgie	From Aug. 27 to Feb. 10	From Oct. 1 to Jan. 10.			
Hope and Polla or Strathbeg	From Aug. 27 to Feb. 10.	From Oct. 1 to Jan. 11.			
Howmore	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24.			
Inchard	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Inchard	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24.			
Inver	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Iorsa (in Arran)	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24.			
Irvine and Garnock	From Sept. 10 to Feb. 24.	From Nov 1 to Feb. 24.			
Kannaird	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Kilchoan or Inverie (Loch	From Aug 27 to Feb 10	From Nov. 1 to Feb. 10.			
Nevis)	From Aug. 27 to Feb. 10. From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Kirkaig	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Kirkaig	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Kyle of Sutherland	From Aug. 27 to Feb. 10.	From Oct. 1 to Jan. 10.			
Laggan and Sorn (Island of					
Islay)	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24.			
Laxford	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Leven	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Little Loch Broom	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10.			
Lochy	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10			
Loch Duich Loch Luing	From Aug. 27 to Feb. 10. From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10 From Nov. 1 to Feb. 10			
Loch Roag	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10			
Lossie	From Aug. 27 to Feb. 10.	From Oct. 16 to Feb. 10			
Luce	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24			
Lussa (Island of Mull) .	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10			
Moidart	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10			
Moidart	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10			
Mullanageren, Horasary,					
and Lochnaciste (North	7 7 10 1 71 01	T 1 1 2			
(Uist)	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24			
Nairn	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10			
Naver and Borgie, see Halla- dale.					
Nell, Feochan, and Euchar.	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10			
Ness	From Aug. 27 to Feb. 10.	From Oct 16 to Feb. 1			
Nith	From Sept. 10 to Feb. 24.	From Dec 1 to Feb. 24			
Orkney Islands (River from					
Loch of Stenness, &c.) .	From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 24			
Ormsary (Loch Killisport).					
Loch Head, and Storno-					
$\mathbf{way} (Mull of Cantyre)$.	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10			
Pennygowan or Glenforsa,		Enon Non 14- E-1 16			
and Aros	From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10			

Name of River.	Annual Close Time for Net-fishing.	Annual Close Time for Rod-fishing.			
Resort Ruel Sanda Scaddle Shetland Islands (River of Shetland Islands (River of Sandwater, &c.) Shiel (Loch Shiel) Sligachan, Broadford, and Portree (Isle of Skye) Snizort, Orley, Oze, and Drynoch (Isle of Skye) Spey Stinchar Tay (except Earn) Thurso Torridon, Balgay, and Shieldag Tweed Ugie	From Aug. 27 to Feb. 10. From Sept. 1 to Feb. 15. From Aug. 27 to Feb. 10. From Aug. 27 to Feb. 10. From Sept. 10 to Feb. 24. From Aug. 27 to Feb. 10. From Sept. 10 to Feb. 24. From Aug. 21 to Feb. 4. From Aug. 27 to Feb. 10. From Aug. 27 to Feb. 10. From Aug. 27 to Feb. 10.	From Nov. 1 to Feb. 10. From Nov. 1 to Feb. 15. From Nov. 1 to Feb. 10. From Nov. 1 to Feb. 10. From Nov. 16 to Jan. 31. From Nov. 1 to Feb. 10. From Oct. 16 to Feb. 10. From Oct. 16 to Feb. 24. From Oct. 16 to Jan. 14. From Oct. 6 to Jan. 10. From Nov. 1 to Feb. 10.			
Ullapool (Loch Broom) Urr	From Aug. 27 to Feb. 10. From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 10. From Nov. 30 to Feb. 24.			
Wick Ythan	From Aug. 27 to Feb. 10. From Sept. 10 to Feb. 24.	From Nov. 1 to Feb. 10. From Nov. 1 to Feb. 10.			

APPENDIX V.

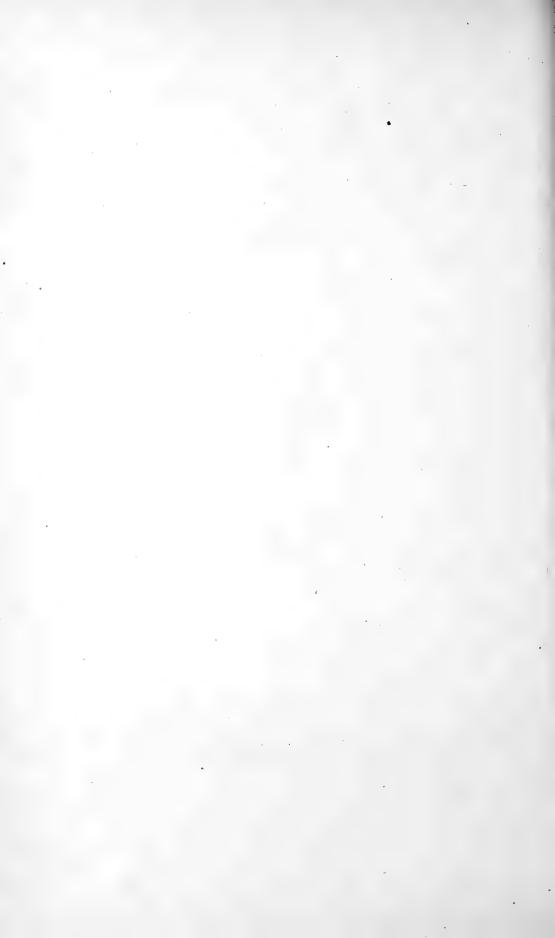
LIST OF CHAIRMEN AND CLERKS OF SALMON FISHERY DISTRICT BOARDS IN SCOTLAND.

DISTRICT.	Name and Address of Chairman.	Name and Address of Clerk.
Alness	Andrew Mackenzie, Esq., Dalmore	William J. Duncan, Solicitor, Ding-
Annan	House, Alness. John T. M'Glasson, Esq., Newbie Villa, Annan.	wall. David M'Jerrow, Solicitor, Lockerbie.
Ayr		C. Young, W.S., County Buildings, Ayr.
Balgay Bervie	C. R. Manners, Esq., C.E., 12 Lombard Street, Inverness. David Scott Porteous, Esq., of Lauris- ton, as Mandatory of the Commis-	Duncan Shaw, W.S., 15 High Street, Inverness. W. C. Walls, Solicitor, Montrose.
Broom	sioners of Woods and Forests. W Ewing Gilmour, Esq., of Inverlael, per A. W. G. Aitken, Esq., S.S.C., Edinburgh.	W. R. T. Middleton, Solicitor, Dingwall.
Carron (W. Ross)	Baron von Schroder of Attadale.	Arthur H. Duncan, Solicitor, Dingwall.
Conon	Brigadier-General Sir Walter Charteris Ross, K.B.E., C.B., C.M.G., Cro- marty, Mandatory of Commissioners of Woods, etc.	W. R. T. Middleton, Solicitor, Dingwall.
Cree	The Earl of Galloway, Cumloden, Newton-Stewart.	A. B. Matthews, Solicitor, Newton-Stewart.
Dee (Aberdeen) Dee (Solway) .	The Lord Provost of Aberdeen. Thomas Cross, Esq., Mandatory for Sir Charles Hope Dunbar, Bart., of	Alex. Duffus, Advocate, Aberdeen. John Gibson, Solicitor, Kirkeud- bright.
Deveron	St. Mary's Isle. Wm. MacIntosh, Esq., Fife Lodge, Banff.	William Simpson, Solicitor, Banff.
Don	George Davidson, Esq., Wellwood, Aberdeen.	Alex. Duffus, Advocate, Aberdeen.
Doon	Marquis of Ailsa, Culzean Castle, May- bole.	C. Young, W.S., County Buildings.
Dunbeath . Esk (North) .	Mandatory of Commissioners of Woods, etc., London. W. Douglas Johnston, Esq. (as Man- datory for Proprietors of Morphy	D. W. Georgeson, Solicitor, Wick.J. R. Findlay, Solicitor, Montrose.
Esk (South) .	Fishings), Montrose. W. Douglas Johnston, Esq., Montrose.	Alex. Middleton, Solicitor, Montrose.
Feochan	The Marquis of Breadalbane, Taymouth Castle, Aberfeldy.	David Stewart, Solicitor, Oban.
Findhorn	Viscount Novar, per J. J. Meiklejohn, Esq., factor.	C. Grant Mackenzie, Solicitor, Forres.
Forss	Major. C. R. E. Radelyffe, Forss House, Thurso.	D. B. Keith, Solicitor, Thurso.
Forth	Mandatory of Commissioners of Woods, etc., London.	Henry Robb, 11 Barnton Street, Stirling.
Girvan	John Campbell Kennedy, Esq., of Dunure.	T. Gerald Tait, Solicitor, Girvan.
Gruinard and Little Grui- nard	Alfred N. G. Aitken, Esq., S.S.C., Edinburgh, Factor and Commissioner for Hugh Mackenzie, Esq., of Dun- donnell.	W. R. T. Middleton, Solicitor, Ding- Dingwall.
Kyle of Suther-	Sir Charles Lockhart Ross, Bart., of Balnagowan.	John M'Crone, Solicitor, Dornoch.
Little Broom .	Alfred N. G. Aitken, Esq., S.S.C., Edinburgh, Factor and Commissioner for Hugh Mackenzie, Esq., of Dun- donnell.	W. R. T. Middleton, Solicitor, Dingwall.

APPENDIX V.—(continued)—List of Chairmen and Clerks of Salmon Fishery District Boards in Scotland.

DISTRICT.	Name and Address of Chairman.	Name and Address of Clerk.
Lochy	Factor and Mandatory for the Trustees of the late Lord Abinger, Inverlochy Castle, Fort-William.	N. B. Mackenzie, Jr., Solicitor, Fort William.
Nairn	Brodie of Brodie, Brodie Castle, Forres.	H. T. Donaldson, Solicitor, Nairn.
Ness	Major E. C. Ellice of Glengarry, Fort- Augustus.	Anderson, Shaw & Gilbert, Solicitors, Inverness.
Nith	The Provost of Dumfries.	J. E. Blacklock, Solicitor, Irish Street, Dumfries.
Sligachan, Broadford, & Portree(Skye)	G. M. Fraser, Esq., Solicitor, Portree, Mandatory for Lord Macdonald.	(Vacant.)
Snizort, Orley, Oze, and Dry- nock (Skye)	G. M. Fraser, Esq., Solicitor, Portree, Mandatory for Lord Macdonald.	(Vacant.)
Spey	The Duke of Richmond and Gordon, Gordon Castle, Fochabers, per George Muirhead, Esq., Commissioner.	T. R. Mackenzie and A. F. Macdonald, Solicitors, Elgin.
Stinchar .	The Earl of Stair, Lochinch, Wigtown-	Stair M'Harrie, Rephad, Stranraer.
Tay	P. D. Malloch, Esq., Mandatory for the Tay Salmon Fisheries Co., Perth.	Condie, Mackenzie, & Co., Solicitors, Perth.
Thurso	Peter Keith, Esq., Mandatory for Sir Archibald H. M. Sinclair, Bart., of Ulbster.	D. B. Keith, Solicitor, Thurso.
Torridon	C. R. Manners, Esq., C.E., 12 Lombard Street, Inverness.	Duncan Shaw, W.S., 15 High Street, Inverness.
Tweed (Police Committee of the Commis- sioners)	The Duke of Roxburgh, K.T., Floors Castle, Kelso.	David W. B. Tait, W.S., Kelso.
Ugie	Lieut. Col. Ferguson, of Pitfour, Mint-	David Troup, Solicitor, Peterhead.
Wick	Mrs. Duff Dunbar, of Hempriggs, Ackergill Tower, Wick.	D. W. Georgeson, Solicitor, Wick.
Ythan	Earl of Errol, Slains Castle, Aberdeen- shire.	D. M. A. Chalmers, Advocate, Aberdeen.

Note.—In addition to the districts specified above, the Duke of Sutherland is joint proprietor of the Brora with Mr. Peter Haig-Thomas, and is joint proprietor, along with Mr. F. W. Wignall and Dr. T. H. Ward, of the Fleet. The Duke's Factor is Mr. A. N. Macaulay, Sutherland Estates Office, Golspie. Mr. V. W. Macandrew is proprietor of the Halladale, and Messrs. Birtwistle and Midwood of the Naver; Mr. Barnett is proprietor of the Borgie. The Duke of Westminster is sole proprietor of the Laxford, and Mr. Geo. Morrison of the Inchard. Sir Wm. Coats Cross and Captain Alex. Cross and Mr. Alex Morrison are proprietors of the Kinloch. Mr. J. W. Stewart is sole proprietor in the Inver and Kirkaig districts (in charge of his factor, Mr. Murdo Kerr, Assynt Estate Office, Lochinver); The Board of Agriculture for Scotland are sole proprietors of the rivers Polla, Strathy, and Armadale, and part owners of the river Dionard with Mr. John Elliot of Balnakiel, Durness. Mr. J. D. Milburn is proprietor of the river Hope, and Lord Lovat of the river Beauly (under charge of his factor, Mr. J. T. Garrioch, Estates Office, Beauly); and the Countess of Cromarty is sole proprietrix of the Kannaird district (Mr. Alex. Taylor, factor, Cromarty Estate Office, Kildary).



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TABLE A.—No. I.

MEANS OF CAPTURE.—RETURN of Vessels, Gear, and Fishermen engaged in the Scottish Fishing Industry in the Year 1921.

I. SAILING VESSELS.

		of s.	ross	,	Value.		Fi	isherme	en.
No.	District.	Number of Vessels.	Total Gross Tonnage.	Vessels.	Fishing Gear.	Total.	Regularly Employed.	Partially Employed.	Total.
	EAST COAST.			£	£	£			
1 2 3 4 5 6 7 8 9 10 11 12 13	Eyemouth Leith Anstruther Montrose Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhorn Cromarty Helmsdale Lybster	29 177 139 123 63 52 173 263 93 170 25 96 75	86 979 679 568 83 78 407 350 350 1,395 138 637 254 107	454 2,799 2,333 2,423 740 570 3,298 3,825 2,400 7,176 625 3,844 1,521 594	2,563 2,289 1,511 1,080 1,210 3,016 2,770 4,690 14,055 1,109 10,187 1,675 1,353	5,362 4,622 3,934 1,820 1,780 6,314 6,595 7,090 21,231 1,734 14,031 3,196 1,947	204 198 198 69 90 257 218 338 68 387 112 95	145 35 	56 349 198 198 69 90 257 302 218 338 68 425 125
15	Wick	$\frac{180}{1,702}$	6,552	34,519		6,444 87,015		361	$\frac{445}{3,250}$
16	Orkney and Shetland.	360	877	4,235	5.941	10,176	714	6	720
17	Orkney and Shetland Totals	798	4,068	18,212	36,902	65,290	1,474	6	2,194
	WEST COAST.		-						
18 19 20 21 22 23 24 25 26 27	Stornoway Barra Loch Broom Loch Carron & Skye Fort-William Campbeltown Inveraray Rothesay Greenock Ballantrae West Coast Totals Grand Totals for 1921 Grand Totals for 1920	393 241 335 276 107 108 71 59 62 {175 *40 1,867	2,274 595 737 594 229 182 99 74 90 314 199 5,387	2,729 5,364 3,800 999 1,554 757 373 667 2,719 2,653 35,550	4,151 10,980 8,770 2,194 1,285 896 1,793 862 3,897 1,304 73,068	16,344 12,570 3,193 2,839 1,653 2,166 1,529 6,616 3,957 108,618	784 605 570 313 203 45 32 10 80 80 6,491	 	3,769 784 605 570 313 203 79 61 60 169 80 6,693
	Increase in 1921 Decrease in 1921	291	2,013			93,991		87	1,272

^{*} Sailing Trawlers.

TABLE A.—No. I.—

MEANS OF CAPTURE.—RETURN of Vessels, Gear, and Fishermen

II. MOTOR

•						To	tal.
No.	District.	Number of Vessels.	Gross Tonnage.	Number of Vessels.	Gross Tonnage.	Number of Vessels.	Gross Tonnage.
	EAST COAST.						
1 2 3 4 5 6 7 8 9 10 11	Eyemouth Leith Anstruther Montrose Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhown	49 72 87 10 15 117 53 112	1,598 1,811 3,438 446 656 5,032 1,796 4,912	32 59 62 114 21 28 63 66 82 14	183 261 288 1,040 182 280 268 414 485 85	81 131 149 124 21 28 78 183 135	1,781 2,072 3,726 1,486 182 280 924 5,446 2,281 4,997
12 13 14 15	EAST COAST. Eyemouth	1,565 94 237 12 1,227					
	East Coast Totals.	587	21,591	752	4,719	1,339	26,310
16	Orkney and Shetland.			62	210	62	210
17	Shetland	71	1,513				1,513
	Orkney and Shet- land Totals .	71	1,513	62	210	133	1,723
	WEST COAST.						
18 19 20 21 22 23 24 25 26 27	Stornoway Barra Loch Broom Loch Carron & Skye Fort-William Campbeltown Inveraray Rothesay Greenock Ballantrae	28 27 76 8 80 73 27 30 106	461 206 671 69 779 658 155	21 14 	125 67	28 27 76 29 94 73 27	411 461 206 671 194 846 658 155 176 704
_	West Coast Totals	480	4,290	35	192	515	4,482
	Grand Totals for 1921 Grand Totals for 1920		•				32,515 33,254
	Increase in 1921 . Decrease in 1921 .		847	33	108 	40	739

continued.

engaged in the Scottish Fishing Industry in the Year 1921.

VESSELS.

	Value.			Fishermen.			
Vessels.	Fishing Gear.	Total.	Regularly Employed.	Partially Em- ployed.	Total.	District.	No
£	£	£				EAST COAST.	
46,380 56,380 98,590 58,950 9,110 12,020 25,180 121,970 63,000 70,780	28,962 37,979 44,745 22,347 3,043 4,085 12,021 80,804 46,612 90,348	75,342 94,359 143,335 81,297 12,153 16,105 37,201 202,774 109,612 161,128	310 709 789 475 76 115 205 911 608 832	 4 18	310 709 789 475 76 115 209 929 608 832	Eyemouth Leith Anstruther Montrose Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie	
36,610 7,250 10,030 485 46,650	20,847 1,990 6,298 141 26,861	57,457 9,240 16,328 626 73,511	391 80 180 12 449		391 80 180 12 449	Findhorn Cromarty Helmsdale Lybster Wick	1 1: 1: 1: 1: 1:
663,385	427,083	1,090,468	6,142	22	6,164	East Coast Totals	_
						Orkney and Shetland.	
5,365 42,470	$1,062 \\ 21,168$	6,427 63,638	148 2 99	6	154 299	Orkney Shetland	10
47,835	22,230	70,065	447	6	453	Orkney and Shet- land Totals	
						WEST COAST.	
10,500 10,040 5,670 22,700 4,740 31,360 24,050 4,392 5,355 31,880	7,661 6,051 3,120 16,418 1,864 11,087 7,337 2,735 2,073 11,918	18,161 16,091 8,790 39,118 6,604 42,447 31,387 7,127 7,428 43,798	$\begin{array}{c c} 134 \\ 171 \\ 106 \\ 292 \\ 90 \\ 414 \\ 288 \\ 58 \\ 56 \\ 285 \end{array}$		134 171 106 292 90 414 288 69 70	Stornoway	13 13 20 21 22 24 24 24 24 25 26 27
150,687	70,264	220,951	1,894	25	1,919	West Coast Totals	_
861,907 1,133,470	519,577 649,736	1,381,484 1,783,206	8,483 8,510	53 68	8,536 8,578	Grand Totals for 1921 Grand Totals for 1920	
271,563	130,159	401,722	27		42	Increase in 1921 Decrease in 1921	

TABLE A.—No. I.—
MEANS OF CAPTURE.—RETURN of Vessels, Gear, and Fishermen
III. STEAM DRIFTERS

1					Scottish	1.		Partially	
	,				Value.	.]	Fis	hermer	1.
No.	District.	Number.	Tonnage.	Vessels.	Fishing Gear.	Total.	Regularly Employed.	Partially Employed.	Total.
1	EAST COAST.	20	694	£ 48,000.	£ 17,348	£ 65,348	180		180
3	Leith	3 56 *2	102 1,913	7,500 151,200 70	2,673 58,183	10,173 209,383 74	24 560 4		24 560 4
5	Montrose Stonehaven	3	176	11,500	3,444	14,944 53,328	30 116		30 116
6 7 8	Peterhead Fraserburgh	†27 122 85	1,851 4,182 2,931	182,000 269,250 188,200	$\begin{array}{c c} 22,540 \\ 121,700 \\ 71,124 \end{array}$	204,540 $390,950$ $259,324$	268 712 676	29	268 741 702
9 10 11 12		82 255 109	2,741 8,673 3,721 -31	$egin{array}{c c} 229,600 \\ 714,000 \\ 288,700 \\ 2,800 \\ \hline \end{array}$	73,951 251,003 104,320 750	303,551 965,003 393,020 3,550	574 2,262 981 9	36	574 2,298 981 9
13 14 15	Helmsdale Lybster Wick	 16	512	32,000	14,795	46,795	113		 113
	East Coast Totals.	794	28,000	2,157,720	762,263	2,919,983	6,509	91	6,600
	Orkney and Shetland.								
16	Orkney Shetland	12 —	433	31,125	8,734	39,859	91	1	91
	Orkney and Shet- land Totals	12	433	31,125	8,734	39,859	91		91
	WEST COAST.			0.1.000	1# 0#0				
18 19	Stornoway Barra	17	1,190	34,000	17,270	51,270	153		153
$\frac{20}{21}$	Loch Broom Loch Carron & Skye				•••	•••			
22	Fort-William .								
23 24	Campbeltown .		•••		•••				••
25	Inveraray Rothesay				***				
26	Greenock								
27	Ballantrae		•••		•••				
	West Coast Totals	17	1,190	34,000	17,270	51,270	153		158
	Grand Totals for 1921		29,623	2,222,845	788,267	3,011,112	6,753	1	6,844
	Grand Totals for 1920	854	30,223	2,889,890	1,101,433	3,991,323	6,977	110	7,087
	Increase in 1921 .			•••	•••				
	Decrease in 1921 .	31	600	667,045	313,166	980,211	224	19	248

^{*} Mussel Dredgers.

[†] Liners only.

continued.

engaged in the Scottish Fishing Industry in the Year 1921.

OR LINERS.

		O	ther than S	cottish.					
			Value.		Fi	sherme	n.		
Number.	Tonnage.	Vessels.	Fishing Gear.	otal.	Regularly Employed.	Partially Employed.	Total.	District.	No.
		£	. £	£				EAST COAST.	
3	113	9,000	2,917	11,917	27		27	Eyemouth	1
				***	***			Leith	2
								Anstruther	3
								Montrose	4
				•••				Stonehaven	5
								Aberdeen	6
†4	279	24,500	1,840	26,340	40		40	,	
5	125	11,250	4,690	15,940	48		48	Peterhead	7
5	179	10,600	4,025	14,625	40		40	Fraserburgh	8
								Buckie	10
								Findhorn	11
								Cromarty	12
								Helmsdale	13
				10. 550				Lybster	14
10	350	37,500	9,050	46,550	99		99	Wick	15
27	1,046	92,850	22,522	115,372	254	•••	254	East Coast Totals	
								Orkney and Shetland.	
26	988	78,000	17,706	95,706	 260		260	Orkney Shetland	16 17
26	988	78,000	17,706	95,706	260		260	Orkney and Shet- land Totals	
								WEST COAST.	
								Stornoway .	18
								Barra	19
								Loch Brcom	20
	•••							Loch Carron & Skye	21
	•••	,	• • • •					Fort-William .	22
	•••				•••			Campbeltown . Inveraray	23 24
								Rothesay	25
			•••					Greencek	26
			•••			•		Ballantrae	27
				•••				West Coast Totals	
53	2,034	170,850	40,228	211,078	514		514	Grand Totals for 1921	
333	12,200	1,222,250	326,565	1,548,815	3,324		3,324	Grand Totals for 1920	
								Increase in 1921	
280	10,166	1,051,400	286,337	1,337,737	2,810	•••	2,810	Decrease in 1921	
200	10,100	1,001,400	200,007	1,001,101	2,010		2,010	Decrease III 1921	

TABLE A.—No. I.—continued.

MEANS OF CAPTURE.—RETURN of Vessels, Gear, and Fishermen engaged in the Scottish Fishing Industry in the Year 1921.

IV.—STEAM TRAWLERS.

		of	oss e.		Value.		Fi	sherme	n.]
No.	District.	Number of Vessels.	Total Gross Tonnage.	Vessels.	Fishing Gear.	Total.	Regularly Employed.	Partially Employed.	Total.
	EAST COAST.			£	£	£			
1	Eyemouth								
2	Leith	\right\{ \pm 75 \\ \pm 2	4,536 154	$\begin{vmatrix} 412,500 \\ 12,000 \end{vmatrix}$	21,040 680	$433,540 \\ 12,680$	612	• • •	612
3	Anstruther	2						•••	
4 5	Montrose Stonehaven	26	2,097	228,000	9,640	237,640	255	•••	255
- 1		(237	17,509	1,739,850	106,650	1,846,500	2,500		2,500
6	Aberdeen	1 *25	2,008	185,400	11,300	196,700	273		273
7 8	Peterhead Fraserburgh	17	1,108	124,950	5,100	130,050	166		166
9	Banff								
10	Buckie Findhorn	19 6	$711 \\ 227$	76,000	4,750	80,750	171	• • •	171 54
$\begin{array}{c c} 11 \\ 12 \end{array}$	Cromarty		221	21,500	2,040	23,540	34		
13	Helmsdale							•••	
14 15	Lybster				• • •	•••	•••	4 5 0	
] 			
	East Coast Totals .	407	28,350	2,800,200	161,200	2,961,400	4,049		4,049
	Orkney and Shetland.								
16	Orkney								
17	Shetland			•••	• • • •				
	Orkney and Shetland Totals					***			
	WEST COAST.								
18	Stornoway								
19	Barra		•••						
20 21	Loch Broom Loch Carron and Sky					•••			
22	Fort-William	е			***				
23	Campbeltown								
24	Inveraray				•••	• • • •			• • • •
25 26	Rothesay Greenock	9	694	57,600	2,520	60,120	85		85
27	Ballantrae	2	154	20,900	450	21,350	18		18
	West Coast Totals .	11	848	78,500	2,970	81,470	103		103
	Grand Totals for 192 Grand Totals for 192		29,198 27,744	2,878,700 4,020,650	164,170 217,560	3,042,870 4,238,210	4,152 3,921		4,152 3,921
						-			

^{*} Steam Trawlers other than Scottish.

TABLE A.—No. I.—continued.

MEANS OF CAPTURE.—RETURN of Vessels, Gear, and Fishermen engaged in the Scottish Fishing Industry in the Year 1921.

V.—TOTAL STEAM FISHING VESSELS.

		of	oss çe.		Value.		Fi	is h erme	n.
No.	District.	Number of Vessels.	Total Gross Tonnage.	Vessels.	Fishing Gear.	Total.	Regularly Employed.	Partially Employed.	Total.
	EAST COAST.			£	£	£			
1 2 3 4	Eyemouth	23 80 58 29	807 4,792 1,922 2,273	57,000 43 2 ,000 151,270 239,500	20,265 24,393 58,187 13,084	77,265 456,393 209,457 252,584	207 654 564 285		207 654 564 285
5 6 7 8 9 10 11 12	Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhorn Cromarty	306 144 90 82 274 115	22,111 5,415 3,110 2,741 9,384 3,948	2,164,650 405,450 198,800 229,600 790,000 310,200- 2,800	162,758 131,490 75,149 73,951 255,753 106,360 750	2,327,408 536,940 273,949 303,551 1,045,753 416,560 3,550	3,197 926 716 574 2,433 1,035	29 26 36	3,197 955 742 574 2,469 1,035
13 14 15	Helmsdale Lybster Wick	26	862	69,500	23,845	93,345	212	•••	 212
	East Coast Totals.	1,228	57,396	5,050,770	945,985	5,996,755	10,812	91	10,903
	Orkney and Shetland.		,						
16 17	Orkney Shetland	38	 1,421	109,125	26,440	135,565	 351	•••	 351
	Orkney and Shet- land Totals .	38	1,421	109,125	26,440	135,565	351		3 51
	WEST COAST.								
18 19	Stornoway Barra	17	1,190	34,000	17,270	51,270	153		153
$ \begin{array}{c} 20 \\ 21 \\ 22 \end{array} $	Loch Broom. Loch Carron & Skye Fort-William.	•••							
23 24 25	Campbeltown . Inveraray Rothesay								•••
26 27	Greenock Ballantrae	9 2	694 154	57,600 20,900	2.520 450	60,120 21,350	85 18	•••	85 18
	West Coast Totals	28	2,038	112,500	20,240	132,740	256	•••.	256
	Grand Totals for 1921 Grand Totals for 1920	1,294 1,572	60,855 70,167	5,272,395 8,132,790	992,6 6 5 1,645,558	6,265,060 9,778,348	11,419 14,222	91 110	11,510 14,332
	Increase in 1921 . Decrease in 1921 .	278	9,312	 2,860,395	652,893	 3,513,288	2,803		 2,822

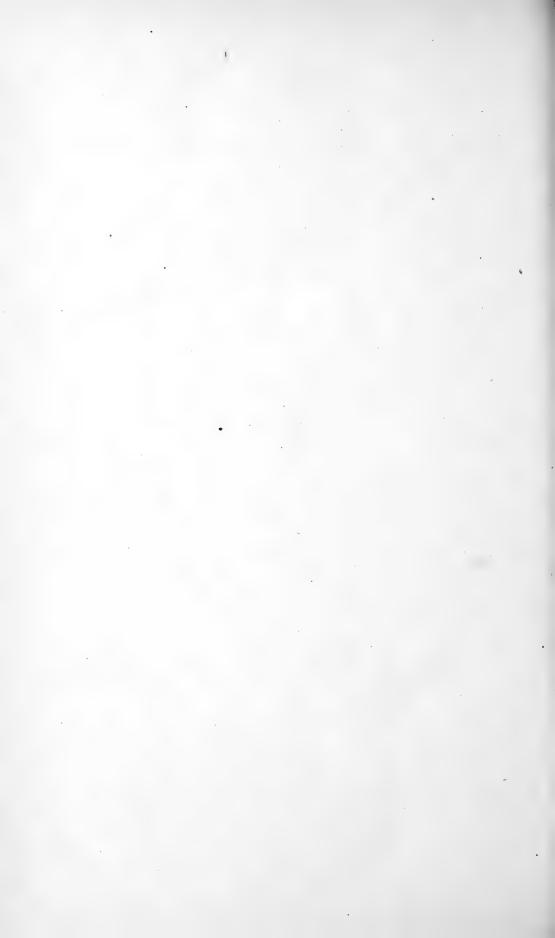


TABLE A.—No. I.—continued.

MEANS OF CAPTURE.—RETURN of Vessels, Gear, and Fishermen engaged in the Scottish Fishing Industry in the Year 1921.

VI.—TOTAL FISHING VESSELS.

		of s.	oss ge.		Value.		Fi	sherme	n.
No.	District.	Number of Vessels.	Total Gross Tonnage.	Vessels.	Fishing Gear.	Total.	Regularly Employed.	Partially Employed	Total.
	EAST COAST.			£	£	£			
1 -2 3 4 5 6 7 8 9 10 11 12 13 14 15	Eyemouth Leith Anstruther Montrose Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhorn Cromarty Helmsdale Lybster Wick	133 388 346 276 84 386 395 536 310 570 250 117 120 49 309	2,674 7,843 6,327 4,327 4,327 2,469 6,746 8,906 5,397 15,776 5,651 762 491 119 2,505	103,834 491,179 252,193 300,873 9,850 2,177,240 433,928 324,595 295,000 867,956 347,435 13,894 11,551 1,079 118,067	49,688 64,935 105,221 36,942 4,123 168,053 146,527 158,723 125,253 360,156 128,316 12,927 7,973 1,494 55,238	153,522 556,114 357,414 337,815 13,973 2,345,293 580,455 483,318 420,253 1,228,112 475,751 26,821 19,524 2,573 173,300	573 1,567 1,551 958 145 3,402 1,388 1.894 1,400 3,603 1,494 476 *292 *107	 145 33 79 36 38 13 17	573 1,712 1,551 958 145 3,402 1,421 1,973 1,400 3,639 1,494 514 305 124 1,106
	East Coast Totals.	4,269	90,258	5,748,674	1,425,564	7,174,238	19,843	474	20,317
	Orkney and Shetland.								
16 17	Orkney Shetland	422 547	1,087 7,002	9,600 169,807	7,003 84,510	16,603 254,317	*862 *2,124	12 	874 2,124
	Orkney and Shet- land Totals	969	8,089	179,407	91,513	270,920	2,986	12	2,998
	WEST COAST.								
18 19 20 21 22 23 24 25 26 27	Stornoway	435 269 362 352 136 202 144 86 101 323	3,875 1,056 943 1,265 423 1,028 757 229 960 1,371	58,435 12,769 11,034 26,500 5,739 32,914 24,807 4,765 63,622 58,152	61,867 10,202 14,100 25,188 4,058 12,372 8,233 4,528 5,455 17,569	120,302 22,971 25,134 51,688 9,797 45,286 33,040 9,293 69,077 75,721	*4,056 *955 *711 *862 *403 *617 *333 90 151 463	34 40 64 89	4,056 955 711 862 403 617 367 130 215 552
	West Coast Totals.	2,410	11,907	298,737	163,572	462,309	8,641	227	8,868
	Grand Totals for 1921 Grand Totals for 1920	1 . ,	110,254 122,318	, -,	1,680,649 2,535,229	7,907,467 11,916,468			32,183 36,319
	Increase in 1921 . Decrease in 1921 .	 529		 3 ,15 4 ,421	 8 54, 580	4,009,001	4,189	53 	 4,136

^{*} Included in these figures are crofter fishermen numbering 9,197 in all. † Includes 9,829 crofter fishermen.

TABLE A.—No. I.—

MEANS OF CAPTURE.—RETURN of Vessels, Gear, and Fishermen

								VII	FISHIN	G GEAR.—
						Nets.				
No.	District.	Drift.	Herring Seine.	Danish Seine.	Cod.	Trammel.	Flounder (Seine).	Flounder (Set).	Other Kinds.	Total.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	EAST COAST. Eyemouth Leith Anstruther Montrose Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhorn Cromarty Helmsdale Lybster Wick	Sq. Yards. 5,304,000 3,267,000 10,080,000 1,896,000 88,800 1,392,000 16,392,000 17,919,000 42,600,000 15,079,000 922,000 330,000 211,250 6,694,450	Sq. Yards 44,400 1,680	Sq. Yards	Sq. Yards. 100,800 538,560 81,000 63,900 366,720 1,641,600 2,028,600 1,092,000 366,400 66,600	Sq. Yards	Sq. Yards. 7,000 9,200 52,000 12,800 24,000 7000	\$q. Yards 1,000	Sq. Yards. 99,000 100,800 4,480 9,452 640	Sq. Yards. 5,503,800 8 419,200 10,986,520 2,039,452 95,040 1,416,700 16,484,100 18,285,720 14,544,400 44,754,600 1,087,600 717,100 211,250 6,761,050
	East Coast Totals	135,075,500	46,080	281,400	6,531,780	352,600	121100	1,000	214,372	142,623,832
16 17	Orkney and Shetland. Orkney Shetland . Orkney and	408,000 6,864,000			70,000					408,000 6,934,000
	Shetland Totals	7,272,000			70,000					7,342,000
18 19 20 21	WEST COAST. Stornoway . Barra Loch Broom . Loch Carron	6,131,800 1,035,000 2,129,400			610,500		360 	•••	•••	6,132,160 1,035,000 2,750,700
22 23 24 25 26 27	and Skye Fort-William Campbeltown Inveraray Rothesay Greenock Ballantrae	1,571,000 379,000 93,360 91,000 359,000 153,000 1,025,000	120,000 1,600 988,000 564,000 162,000 94,500 312,000		45,760 9,000 257,840	2,520 3,600 172,000	 1,280 49,400	5,300 16,500	348,480 12,160 14,320 186,000 65,100 1,200	2,042,000 438,520 1,100,560 669 300 707,000 312,600 1,833,940
	West Coast Totals	12,967,560	2,242,100		923,100	188,920	51,040	21,800	627,260	17,021,780
	Grand Totals for 1921 Grand Totals	155,315,060 187,710,400	2,288,180	281,400					841,632	166,987,612 198,532,760
	Increase in 1921 Decrease in 1921	32,395,340	125,960	281,400	448,060	274,900	74,340	113,700	240,768	31,545,148

continued.

engaged in the Scottish Fishing Industry in the Year 1921.

(a) QUANTITIES.

	Lin	es.		Bush Ropes,	Crab and		
Great.	Small.	Hand.	Total.	Buoy Ropes, and Stoppers.	Lobster Creels.	District.	No.
Yards. 864,000 180,000 3,244,500 596,100 80,640 2,328,960 1,592,640 1,434,960 561,600 114,720 163,200 118,800 34,800 210,480	Yards. 453,600 717,080 742,800 1,957,600 420,160 473,280 1,200,720 1,044,000 1,900,800 464,640 823,200 288,960 924,480 70,560 322,320	Yards. 12,160 13,500 19,320 41,700 10,200 5,880 184,560 115,760 59,520 53,640 13,980 7,080 14,760 23,040 149,760	Yards, 1,329,760 910,580 4,006,620 2,595,400 511,000 2,808,120 2,977,920 2,594,720 2,521,920 633,000 1,000,380 296,040 1,058,040 128,400 682,560	Yards. 375,150 164,560 578,709 288,080 88,660 273,440 783,580 1,006,690 680,320 1,638,880 761,240 34,675 11,360 16,470 353,340	Number. 2,640 1,920 3,830 2,105 950 200 164 1,970 960 400 260 180 950 290 4,730	EAST COAST. Eyemouth Leith Anstruther Montrose Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhorn Cromarty Helmsdale Lybster Wick	1 2 3 4 5 6 7 8 9 10 11 12 31 14 15
11,525,400	11,804,200	724,860	24,054,460	7,055,154	21,549	East Coast Totals.	
63,360 666,720 730,080	132,480 1,079,280 1,211,760	104,040 132,600 236,640	299,880 1,878,600 2,178,480	153,660 620,710 774,370	11,220 135 11,355	Orkney and Shetland. Orkney Shetland Orkney and Shetland Totals.	16
2,088,240 198,000 220,500	945,360 92,200 440,500	70,000 35,760 83, 9 40	3,103,600 325,960 744,940	318,140 119,060 117,040	7,265 6,460 3,880	WEST COAST. Stornoway	18 19 20
674,880 141,440 300,720 90,000 140,000 30,720 755,720	154,080 39,240 109,040 60,120 54,000 84,800 108,720	51,120 24,240 9,300 3,600 8,800 8,220	880,080 204,920 419,060 150,120 197,600 124,320 872,660	138,410 32,230 127,272 95,050 52,960 29,934 111,262	4,818 2,530 2,878 971 180 740 1,360	Loch Carron & Skye Fort-William Campbeltown Inveraray Rothesay Greenock Ballantrae	21 22 23 24 25 26 27
4,640,220	2,088,060	294,980	7,023,260	1,141,358	31,082	West Coast Totals.	_
16,895,700 16,838,980	15,104,020 16,784,680	1,256,480 1,448,840	33,256,200 35,072,500	8,970,882 10,352,069	63,986 63,873	Grand Totals for 1921 Grand Totals for 1920	
56,720	1,680,660	192,360	1,816,300	1,381,187	113	Increase in 1921 Decrease in 1921	-

TABLE A.—No. I.—

MEANS OF CAPTURE—RETURN of Vessels, Gear, and Fishermen

VII.—FISHING GEAR.—

	1	1								
						Nets.				
No.	District.	Drift.	Herring Seine	Danish Seine.	Cod.	Trammel.	Flounder (Seine).	Flounder (Set).	Other Kinds.	Total.
	EAST COAST.	£	£	£	£	£	£	£	£	£
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Eyemouth Leith Anstruther Montrose Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhorn Cromarty Helmsdale Lybster	32,620 30,500 59,360 9,840 564 15,220 101,970 114,030 86,000 280,000 88,265 8,580 1,650 813 40,412	990 98	298 120 80 3,520 3,980 	420 1,872 945 373 1,528 6,840 9,660 5,200 1,380 555	1,953	360 184 1,950 252 576 960 80 200 	20	825 1,100 262 340 2 	33,865 32,959 63,725 13,098 810 16,094 103,423 115,558 92,920 293,260 97,645 9,960 3,510 813 40,967
	East Coast Totals	869,824	1,088	7,998	30,613	1,953	4,582	20	2,529	918,607
16 17	Orkney and Shetland. Orkney	2,040 52,040 54,080			420				3	2,040 52,460 54,500
18 19 20 21 22 23 24 25 26 27	WEST COAST. Stornoway Barra Loch Broom Loch Carron & Skye Fort-William Campbeltown Inveraray Rothesay Greenock Ballantrae West Coast Totals	39,560 6,184 6,733 11,961 1,664 400 285 1,211 881 4,100 72,979	2,100 120 9,120 6,530 1,320 810 2,780		 2,340 429 30 3,012	70 35 36 808	17 40 494	26 440	3,881 76 224 744 372 28 5,325	39,577 6,184 9,143 17,977 2,289 9,820 6,871 3,275 2,063 11,662
	Grand Totals for 1921 Grand Totals for 1920	996,883 1.633.785	23,868 26,299	7,998	36,844 36,396	2,902 1,193	5,133 3,577	486 1,312	7,854 10,577	1,081,968 1,713,139
	Increase in 1921 . Decrease in 1921 .	636,902	2,431	7,998	448	1,709	1,556	826	2,723	631,171

continued.

engaged in the Scottish Fishing Industry in the Year 1921.

(b) VALUES.

	Lin	ies.		Bush Ropes,	Crab				
Great.	Small.	Hand.	Total.	Buoy Ropes, and Stoppers.	and Lobster Creels.	Trawl Gear.	Total.	District.	No.
£	£	£	£	£	£	£	£	EAST COAST.	
3,600 300 19,583 2,800 360 23,876 7,246 6,348 2,520 478 680 	1,104 2,613 1,776 4,463 1,764 1,972 3,567 4,279 7,920 1,452 2,573 1,204 3,391	28 35 35 72 34 25 253 130 91 89 28 20 48	4,732 2,948 21,394 7,335 2,158 25,873 11,066 10,757 10,531 2,019 3,281 1,224 3,885 520	10,299 6,741 19,332 5,235 909 8,056 26,577 32,014 21,562 60,027 25,285 1,689 340 74	792 576 766 632 238 80 41 394 240 100 65 54 238	21,720 10,645 117,950 5,420 4,750 2,040	49,688 64,935 105,221 36,942 4,123 168,053 146,527 158,723 125,253 360,156 128,316 12,927 7,973 1,494	Eyemouth Leith Anstruther Montrose Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhorn Cromarty Helmsdale Lybster	1 2 3 4 5 6 7 8 9 10 11 12 13
974 69,385	$\frac{1,630}{39,997}$	$\frac{372}{1,317}$	$\frac{2,976}{110,699}$	$\frac{9,277}{227,417}$	2,013 6,316	162,525	$ \begin{array}{r} 55,233 \\ \hline 1,425,564 \end{array} $	Wick East Coast Totals.	15
,	,							Orkney and Shetland.	
220 2,763	368 4,497	220 225	808 7,485	1,355 24 ,541	2,800 24	···	7,003 84,510	Orkney Shetland	16 17
2,983	4,865	445	8,293	25,896	2,824		91,513	Orkney and Shet- land Totals.	
					*			WEST COAST.	
6,932 660 661 2,989 518 527 300 300 100 2,836	3,048 344 1,762 667 133 250 150 162 159 527	175 88 140 109 60 23 6 26 33	10,155 1,092 2,563 3,765 711 800 450 468 285 3,396	9,955 1,634 1,613 1,840 384 789 669 749 403 469	2,180 1,292 781 1,606 674 963 243 36 184 288	2,520 1,754	61,867 10,202 14,100 25,188 4,058 12,372 8,233 4,528 5,455 17,569	Stornoway Barra Loch Broom Loch Carron & Skye Fort-William Campbeltown Inveraray Rothesay Greenock Ballantrae	18 19 20 21 22 23 24 25 26 27
15,823	7,202	660	23,685	18,505	8,247	4,274	163,572	West Coast Totals.	
88,191 97,720	52,064 63,794	2,422 3,704	142,677 165,218	271,818 418,164	17,387 19,029	·	1,680,649 2,535,229	Grand Totals for 1921 Grand Totals for 1920	1
9,529	11,730		22,541	146,346	1,642	 52,880	 854,580	Increase in 1921 . Decrease in 1921 .	

TABLE A.

RETURN giving Particulars regarding the State of the Fisheries at each

	,		F	SHI	NG BO	ATS A	ND VI	ESSE	LS belo	ongin	g to	Creek.			oats	Fisher and E	
STATION or (CREEK.	(Includ	1st (ling St	Class eam	Trawle	rs.)	2n Clas		3rd Class			Fotal,	0	crease n or	Seaworthy Boats Unemployed.	Regularly Employed.	ially
			eet kee ipward		30 to feet 1		18 to feet l		Unde feet l					crease n 1920.	Sear	Regu	Partially
Eyemouth Die	strict.†	*Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	No
North Shields (N	orthumber- land)	‡48 12 }			3		7	3	1	1	75	4,021	14	484	6	530	
Cullercoats	, ,						2	33		9	44	148	7	20	4	54	
Blyth	,,						2	2	1	1	6	17	3	8	1	12	
Newbiggin	,,			2	1		3	58		18	82	273	2	30	8	42	
Cresswell	1,				••'		••	2		2	4	8		2	1	9	
Hauxley Amble Alnmouth Boulmer Craster	3) 91 19 19 19			: 1: : : :	••	••	2 2 1 	1 5 1 18 16		3 2 2 2 1	6 9 4 20 20	17 26 9 54 59	3 1 :2 	12 2 1 3 4	2 2 1 5 3	12 12 6 20 26	
Newton	,,						2	12		7	21	54	4	10	2	18	
Beadnell North Sunderland	. 23	::	ï	i	2	••	· 7	15 22	••	8	30 3 5	91 245	8	21 35	5 7	40 62	
Holy Island	33				1	••	Б	8	1		15	65	Б	23	2	35	
Spittal	,,			••	2	••	2	2	• •	2	8	41	2	11		24	
Berwick	,,		2		1		2	6		1	12	107	6	19	3	30	
English Station	s—Totals -	60	3	3	10		48	204	3	60	391	5,235	30	579	52	932	-:-
Burnmouth (Berwi	ickshire) -		2	••	8		1	14	••	9	34	149	••	1	4	82	•••
Eyemouth	,,	20	35	1	3		1	2	••		62	1,924	2	114	6	409	

^{*} Drifters or Liners unless otherwise stated.
† Landings in English section not recorded by Board.

[‡] Trawlers.

.No. II.

Fishing Creek or Station on the Scottish Coasts during the year 1921.

		QUANTI	TY AND	VALUE O	FISH L	ANDED.		Stations.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.	Other (excli Shell	iding	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Sta	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
Trawl and drift nets and lines.	The North Sea.						Herrings, had- docks, cod, and flat fish.	18	28,025 crans herrings landed, value £81,450. Decreases of 22,062 crans and £67,391 from previous year. Decrease also in the num- ber of trawlers employed.
Lines and creels.	Inshore.		••		••		Codlings, had- docks, crabs		Decrease in landings.
,,	,,						and lobsters. Herrings, cod, haddocks, crabs and lobsters.	2	22 crans herrings landed, value £95 against 988 crans and £2,219 in previous year. Average white fishing.
,,	"						,,	1	15 crans berrings landed, value £79 Average line and crab fishing.
. ,,	,,				••		Codlings, had- docks, crabs and lobsters.		Average fishing.
,,	,,		::				,,		Do. do. Decrease in landings.
"	"	• • •		::			"		Average fishing.
,,	"						,,		Do. do. General decrease. 947 crans her
,,	,,				••		Herrings, had- docks, cod- lings, crabs	3	rings landed, value £1,984.
1)	,,				••		and lobsters. Haddocks, cod- lings, crabs and lobsters.		Average fishing.
Nets, lines, and creels.	2 to 20 miles offshore.		••		••		Herrings, had- docks, cod- lings, plaice, crabs and	3	Decrease in landings. General decrease. 2,655 crans her rings landed, value £4,874.
Lines and creels.	Inshore.		••		••		lobsters. Codlings, had- docks, plaice, crabs and		Average fishing.
,,	,,					}	lobsters. Herrings, had- docks, cod- lings, plaice.	4	Average line and crab fishing.
Nets, lines, and creels.	2 to 40 miles offshore.			••)	lings, plaice, crabs and lobsters.	5	Marked decrease in herrings. 1908 crans landed, value £3,534
·								36	
Nets, lines, and creels.	2 to 40 miles offshore.			2,796	3,387	7,458	Haddocks, cod- lings, crabs and lobsters.		Decrease in white fish and lobste returns; marked increase in crabs. Two local crews prose cuted summer herring fishing.
"	25	54,731	33,653	-5,460	6,723	98	Herrings, mackerel, haddocks, codlings and skate.	14	cuted summer nerring asing. Decrease in line fish landed Winterherring fishing exception ally good, but poor results ob tained from summer herring fishing. Forty-five crews prose cuted autumn herring fishing at Yarmouth, which proved un satisfactory.

TABLE A.-

														1		
		Fı	SHIN	G Boa	TS A	ND VE	SSEI	s belo	ngin	g to	Creek.				Fisher and B	
STATION OR CREEK.	(Includ	1st (ding St	Class eam '		rs.)	2nd Clas		3rc Clas		т	'otal.	01	rease	Seaworthy Boats Unemployed.	Regularly Employed.	Partially
		eet kee ipward		30 to feet k		18 to feet k		Unde feet k				from	rease 1 1920.	Sea	Regu Empl	Part
Eyemouth District—contd.	*Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No	Ton.	No.	No.	N
St Abbs (Berwickshire)		12		2		13	-	4	3	34	488	4	16	2	82	
												٠				
Scottish Stations—Totals -	20	49	1	13		15	16	4	12	130	2,561	6	129	12	573	_
English Stations—Totals -	60	8	3	10		48	204	3	60	391	5 ,2 35	30	579	52	932	
Grand Totals for District -	80	52	4	23	<u></u>	63	220	7	72	521	7,796	24	450	64	1,505	_
Leith District.	,															
Cove (Berwickshire)			-			3	5			8	23	1	3	3	21	
Dunbar (Haddingtonshire)				1		6	17		2	26	85		11	4	72	
North Berwick ,, -						4				4	11				14	
Port Seton and Cockenzie (Haddingtonshire)	1	27	1	27		14	1	. 1	4	76	1,666	1	23	2	402	
Prestonpans ,,									3	3	3	1	1		6	
Fisherrow (Midlothian)	1	5		9		8	5		2	30	388		125	2	208	
Leith ,,	15									15	714	9	294		117	
Newhaven ,,				2		18	9		2	31	131	11	51	3	113	
Granton ,,	$\left\{egin{matrix} \dagger 60 \\ 1 \end{smallmatrix}\right\}$			1						62	3,861		14	** .	525	
Bo'ness (Linlithgowshire)			5		2		1	• • •	1	9	193				. 9	
Alloa (Clackmannanshire)			2	••	7		4		7	20	274	3	73	3	10	
Kincardine (Fifeshire)			8		3		-			11	240	1		1	12	
Inverkeithing ,,						i			3	3 4	3 12				2 5	
									16	16	13	3	2	1	12	1
Kinghorn ,, -	-						2		4	6	6	3	8		5	
Kirkcaldy ,, -						4	3		32	39	41	2	. 1	1	24	
Dysart and Wemyss (Fifeshire							.4		19	23	25		1	1	10	
Totals -	- 78	32	16	40	12	58	53	1	96	386	7,689	5	63	21	1,567	1

^{*} Drifters or liners unless otherwise stated.

[†] Trawlers.

No. II.—continued.

		QUANTI	TY AND Y	VALUE OF	Fish L	ANDED.	ř	ations.	•
Methods of Fishing pursued.	Position of Principal Fishing Grounds,	Herr	ings.	Other (exclu Shell	iding	Value of Shell Fish.	Princi pal kinds of Fish Landed.	No. of Curing Stations.	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
Nets, lines and creels.	2 to 40 miles offshore.		••	405	452	2,593	Haddocks, cod- lings, crabs and lobsters.		Improvement in crab and lobster returns. Line fish mostly landed at Eyemouth. Eleven crews participated in summer herring fishing, and one in the autumn herring fishing at Lowestoft, both of which proved unremunerative.
		54,731	33,653	8,661	10,562	10,149		14	
		••						36	
								50	
					·				
Crab creels.	1 to 5 miles offshore.			735	352	1,452	Lobsters and crabs.		Decreased catch and value of crabs and lobsters.
Creels and lines.	1 to 10 miles offshore.	2,145	1,222	2,802	4,693	3,177	Herrings, had- dock and	2	Decrease in catch and value of crabs and lobsters, but increase
,,	1,	210	368	1,327	2,262	437	crabs. Haddock and		in quantity of white fish. Do. do. do.
Nets and lines.	Adjacent waters.			19,617	41,046	918	lobsters. Codling, had- dock and		Increase in quantity and value due to more active prosecution of small line fishing.
Lines.	1 to 5 miles offshore.			162	205	51	plaice. Codling and		Returns almost similar to those of 1920.
Nets and lines.	Adjacent waters.	2 6 8	113	390	697	34	haddock. Herrings and		Slight increase in quantity and value.
Dredges.	waters.	• •				133	codling. Mussels.	3	Decrease in quantity of mussels dredged.
Nets and line .	Firth of Forth	27,897	18,911	27,223	26,818	264	Herrings, cod- ling and had- dock.	10	Large increases in quantity and value attributable to greater success of herring and line fishings.
Otter trawling.	North Sea.	2,894	2,081	385,058	454,63 8		Codling, had- dock, and flat fish.		Decreases in quantity and value of trawled fish due to various labour disputes.
Bag-nets.	Upperreaches of Firth of Forth.	16	8	808	493		Codling.	٠.	Decreases in quantity and value.
**	,,	90	31	15,110	1,446	٠	Sprat .		Large increase in quantity, but value about same as last year. Sprats were very plentiful but
,,	,,	420	423	6,076	929		Herrings and		demand was poor. Increase in quantity, but value
Drift nets.	Foreshores.	781 424	479 264				sprats. Herrings.	::	similar to that of 1920. Decreases in quantity and value. Returns about the same as last
**	,,	584	415	35	68	2	,,		year. Decreases in quantity and value
Nets and	77	735	471	324	504		Herrings and		of herrings. Increases in quantity and value.
lines.	. ,,	505	333	583	874		codling. Herrings and		Do. do. do.
Lines.	19	5	5	533	558		haddock. Codling and Haddock.	.:	Returns about the same as last year.
				1	f	1		1	

TABLE A.—

			Fi	SHIN	ig Bo	TS A	ND VE	ESSE	LS belo	ngin	g to	Creek.			oats	Fisher and E	
STATION OR CREEK.		(Includ	1st (ling St	rs.)		2nd 3rd Class.			Total, Increase			rease n or	100	Regularly Employed.	sially loyed.		
Anstruther District.			45 feet keel and upwards.			30 to 45 feet keel.		18 to 30 feet keel.		Under 18 feet keel.				n 1920.	Sea	Regu	Partially Employed.
Anstruther District.		*Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	No.
Buckhaven	-				1		10	9		12	32	84	8	21	1	41	
Methil and Leven	-									4	4	4				6	
Largo · ·	-							5		8	13	22			1	26	
Elie and Earlsferry -							1		٫.	6	7	8				4	
St. Monans		9	48	6	6		5	3		8	85	2,754	5	144	5	472	
ou. Montens			10								00						
Pittenweem		12	12	2	2		22	7		1	58	1,223	1	77	3	316	
Anstruther and Cellardyke	-	. 35	14		3		5	12		5	74	1,906	4	83	4	525	
Crail					-		8	10		7	25	69	4	9	4	48	
				-													
Kingsbarns										2	2	4				4	
St. Andrews					1		11	12		1	25	127	1	4	3	62	
River Eden												`				5	
Tayport	-	†2						6		5	13	28			3	12	
Newburgh	-					8					8	98	2	28		30	
Totals .		58	74	8	13	8	62	64		59	346	6,327	15	192	24	1,551	
Montrose District.																	
Dundee	•	‡5				14			• •		19	468	2	22	4	82	
Broughty Ferry				1		3		13		6	23	148	3	39	3	50	
Westhaven										6	6	6				6	
Easthaven	-									4	4	7				8	
Arbroath	-		8		22		16	10		2	58	743	1	47	3	177	
Auchmithie	-				٠			9		6	15	27			4	16	

^{*} Drafters or Liners unless otherwise stated.

† Mussel Dredgers.

No. II.—continued.

		QUANT	TY AND	VALUE O	f Fish L	ANDED.		Stations.						
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.	(excl	kinds uding Fish).	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing St	GENERAL REMARKS.					
		Cwts.	£	Cwts.	£	£								
Nets and lines.	Firth of Forth	171	6 8	3,1 88	6,889	392	Haddocks and codling.		Decreases of 11% in quantity and 17% in value as compared with					
Lines and creels.	**	18	11	66	104	80	Plaice, codling, herring and		Of no importance as a fishing station.					
Nets and lines.	,,		••	2,119	3,288		haddocks. Haddocks, codling, and plaice.		Increases of 17% in quantity and 49% in value, chiefly in haddocks and plaice.					
,,	,,	1	1	117	167	6	Haddock, codling, and plaice.		of no importance as a fishing station. Slight decreases in quantity and value.					
>>	Firth of Forth and North Sea.		19,623	1,123	2,195		Herring, cod- ling and skate.	2	Very large increase in landings of herrings, due to revival of the winter fishing. Other kinds show slight decrease.					
,,	"	6,120	3,384	13,049	22,294		Haddocks, her- ring, codling, and plaice.	4	Do. Haddocks and plaice, slight increases in quantity and value					
Nets, lines and creels.	"	46,480	25,474	672	956	464	Herring, cod- ling, and had- docks.	4	Do. Cod show decreases of 40% in quantity and 63% in value.					
29	Along the coast to 10 miles off.	2,776	733	1,265	1,147	3,361	Herring, cod- ling, and had- docks.		An increase of 80% in total quantity, but a decrease in the tota value of 21% owing to the preponderance of herrings. A slight decrease in the value oshell fish.					
Lines and creels.	Along the coast.			20	25	267	Codling, plaice		Of no importance as a fishing station.					
Seine floun- ler nets, set nets and lines.	St. Andrews	••		5,843	7,725	10	and lobsters. Plaice, codling, and haddocks.		very large increases in landings o plaice, due to the adoption o flounder seine nets, but corre sponding decreases in landing of cod and haddocks.					
Mussel Dredging.	River Eden.	***			٠.	1,853	Mussels.		Increase of £827 in value of mussels.					
"	Estuary of Tay.	••		••		1,700	Mussels.		Increase of £143 in value of mussels.					
Bag-Nets.	River Tay.	••	••	1,873	860	• •	Sparlings, flounders, and sprats.		Decreases of 80% in quantity and 39% in value due to light land ings of sprats.					
		88,203	49,294	29,335	45,650	8,133		10						
Trawling and Bag-Nets.	River Tay and from 5 to 60 miles E. and E.S.E from Bell	583	292	72,618	104,587	••	Haddock, cod and cod- ling, whiting, sprats, and flat fish.	2	Increases in quantity and value of trawl fish landed, but large decrease in sprats.					
Nets and lines.	Rock. Tay Estu- ary.	123	25	113	117	138	Herrings and codlings.		Decreases of 80% in quantity and 90% in value of white fish due to falling off in plaice and dabs.					
Lines and creels.	Along coast.		••	56 42	27 45	60 103	Crabs.		Unimportant creek.					
,, Horring	Vicinity of	377	170				lobsters.							
Herring and seine nets, lines and creels.	Bell Rock and 1 to 30	317	170	30,481	58,285	477	Haddocks, plaice, and codlings.	6	Increases of 45.5% in quantity and 34% in value of white fish due to successful seine net fishing; but decrease of 41% in value of shelfish.					
Lines and creels.	Along coast.			248	246		Codlings.		White fish fishing similar to las year. Shell-fish fishing entirely neglected.					

TABLE A.—

			F	ISHI	NG BO	TS I	AND VE	SSE	LS belo	ngin	g to	Creek.			oats d.	Fisher and F	
STATION OR CREEK.		(Includ			class. cam Trawlers.)			2nd Class.		3rd Class.		Total.		rease n or	Seaworthy Boats Unemployed.	Regularly Employed.	ially oved
			eet keel ipwards.		30 to 45 feet keel.		18 to 30 feet keel.		Under 18 feet keel.		10(a),		Decrease from 1920.		Sear	Regu	Fartially Employed.
Montrose District-contd.		*Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	No
Usan (Forfarshire) -	-									2	2	3	2	3		8	
Ferryden ,,	-		2		17		7	1		15	42	311		6	4	148	
Montrose ,,	-	$\left\{ \begin{smallmatrix} 3\\ +20 \end{smallmatrix} \right.$		1						6	30	1,976		5	1	242	
Milton (Kincardineshire)	-									1	1	1		1		2	
Johnshaven ,, -	-				7		9	10		8	34	184	5	11	6	62	
Gourdon ,, -	-	†1	3	2	25		8	3			42	453	1	46	3	157	
Totals -		29	13	4	71	17	40	46		56	276	4,327	8	1414	28	958	
Stonehaven District.	-			100													
Shieldhill										3	3	3				4	
Catterline	-						2	3		6	11	19				14	
Stonehaven · · ·					10		8	7		32	57	224	3	17		110	
Cowie						0 0 0		1		5	6	8	2	4		8	
Skateraw							1	1		5	7	11		1		. 9	
Totals -	-				10		11	12		51	84	265	5	22	<u></u>	145	
Aberdeen District.	ľ																
Downies								3		1	4	11		• •		g	1
Portlethen	-							3		1	4	9				11	
Cove Bay · · · ·							1	6		3	10	19	1	1		16	
Aberdeen - · · ·	•	{ †237 ‡27 13	2		19		6	7		28	339	20,143	15	1,487		3,355	
Totals -		277	2	-	19		7	19		33	357	20,182	14	1,486		3,391	-

^{*} Drifters or Liners unless otherwise stated.

[†] Trawlers.

[:] Liners.

No. II.—continued.

		QUANT	ITY AND	VALUE O	F FISH L	ANDED.		ations.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	rings.	(excl	kinds uding Fish).	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Stations.	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
Lines and creels.	Along coast.			11	13	69	Crabs and lobsters.		Unimportant creek.
Herring and seine	$1 ext{ to 25 miles} $)				194	Mussels and whelks.		Fishermen land their catches at Montrose.
nets, lines and mussel dredging.	South Esk	} 42	19	14,169	21,242	2,298	Haddock, cod, codlings and plaice.	4	Steam trawlers operate from Aber deen. A decrease in trawl land- ings is counterbalanced by an
Lines and creels.	Along coast.			84	95	110	Crabs and		increase in line and net landings. Creek of no importance.
Seine and cod nets, lines and	1 to 20 miles off.	••		3,220	5,719	570	lobsters. Cod and cod- lings, plaice, crabs and	••	Line and net fishing similar to last year, but decrease of 30% in value of shell fish.
creels.	1 to 25 miles off.		••	21,792	22,799	637	lobsters. Haddocks, cod and cod- lings, whiting and crabs.	- 5	Slight increase in quantity, but decrease of £5,183 in value of white fish. Decrease of 33% in value of shell fish. The trawler
		1,125	506	142,834	213,175	4,656		17	operates from Aberdeen.
Lines and crab creels.	1 to 3 miles offshore.	••		53	58	463	Codlings, crabs and lobsters.		Slight increases in both white fish and shell fish.
" .	1 to 6 miles offshore.			589	589	1,257	"		Do. do. do.
Nets, lines, and crab creels.	1 to 60 miles offshore.	42	41	15,4 02	15,224	96	Haddocks, cod lings, whitings, mackerel, and	5	Increases in quantity and value of white fish; decrease in herrings shell fish, no change.
Lines and	1 to 5 miles			94	79	50	crabs. Codlings and		Decreases in both white fish and
crab creels.	offshore.		••	450	360	16	lobsters. Haddocks, whit- ings, and lobsters.		shell fish. Increases in both white fish and shell fish.
		42	41	16,588	16,310	1,882		5	
Small and hand lines.	1 to 10 miles offshore.			643	603	16	Codlings, had- docks, and whitings.		Slight increases in both white fish and shell fish.
Lines and creels.	99			1,091	1, 0 10	66	Codlings, had- docks, whit- ings, and crabs.		Results similar to last year's.
,,	,,	••		1,179	1,134	214	,,		Slight increases in both white fish and shell fish.
Trawl, lines, and nets.	to 61° N. Orkney, Shetland, Northey, Stern Grounds, St. Kilda, Rockall, Flannan Isles, Butt of Lewis, West Coast of Ireland, Faroe, and	31,166	17,066	1636024	2418240	6	Cod, haddocks, ling, saithe, whiting, hake, herring, hali- but, lemon soles, plaice, skate, meg- rims, etc.	Kipper curers 6; Tinners 5; } and white fish curers 162.	Large decreases in quantity and value of herrings. White fishals show considerable decreases notwithstanding great increase in number of arrivals.
	Iceland.	01.100	17 000	1.00000	0415005	000		170	
		31,166	17,066	1638937	2415987	. 302		173	

TABLE A.-

				Fı	SHIN	G BOA	TS A	ND VE	SSEI	s belo	ngin	g to	Creek.			ats d.	Fisher and B	
STATION OR CREEK.			(Includ	1st C	lass.	Frawlei	rs.)		2nd 3rd Class.				-1-1	Increase on or		Seaworthy Boats Unemployed.	larly oyed.	ally oyed.
		45 feet keel and upwards.			30 to 45 feet keel.		18 to 30 feet keel.		Under 18 feet keel.		Total.		Decrease from 1920		Seaw	Regularly Employed.	Fartially Employed.	
Peterhead	District.		*Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	No.
Newburgh (Abe	rdeenshire)										2	2	4				6	
Collieston	,,	-									10	10	8	1	4	2	13	
Whinnyfold	27		1		1				1		5	8	91	1	38	1	22	
Port Erroll	,,		2	•				4	1		12	19	104	4	6	6	56	
Bullers o' Bucha	n										2	2	2		-		2	
Boddam	>>	-	7	4				2	2	1	29	45	456		1	10	117	
Peterhead	"		{112 †17	11	3	8		37	14	'n	88	301	5,953	20	234	16	1,118	3
Rattray	"			••					7.		3	3	3				6	
	Totals -		139	15	4	8		43	18	12	151	390	6,621	16	207	35	1,340	3
Fraserburgh	District.																	
St. Combs and	Charlestown	Ω	6	10							48	64	724	1	45	5	172	
Inverallochy Cairnbulg -		:	13 6	9 15				·i		1 1	50 60	73 83	889 946	11 11	317 11	6	191 205	
Fraserburgh	· ·		50	60		13		30	2	8	48	211	4,730	24	1,286	12	1,024	3
Sandhaven				5				2			21	28	280		35	5	56	1
Rosehearty			7	18				7		1	21		1,049		13			
Pennan -		-	3					1		1	13	18	109	. 3	58	2	42	
	Totals -		85	117	-	13	-	41	2	12	261	531	8,727	2	923	42	1,894	7

^{*} Drifters or liners unless otherwise stated.

[†] Trawlers.

No. II,—continued.

		QUANTI	ITY AND	VALUE O	F Fish L	ANDED.		tions.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.	Other (excl Shell		Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Stations.	GENERAL REMARKS.
	1 to 4 miles off.	Cwts.	£	Cwts.	£	£			
Lines.	off.			24	30	535	Codlings, mus- sels.	••	Unimportant as fishing creek Increase of 139% in output of
,			••	405	607		Codlings, had- docks, and whitings.		mussels. Only small lines employed. Re sults rather better than in 1920.
••	"			417	500		Codlings and whitings.		Considerable increase in landings which were confined to smal craft.
Flounder nets and lines.	,,			952	1,412	1	,,		Slight decreases in catch and value. Drift net fishermen operate from Peterhead and other herring fishing centres.
Lines.	1 to 2 miles			12	14		Codlings.		Of very little importance.
,,	1 to 4 miles off.	••	• •	931	1,312	9	Codlings and haddocks.	3	Catch and value show little change Bulk of small line fish landed at Peterhead, while steam liners discharge principally at Aber deen. Drift net fishermer
Drift and flounder nets, motor trawling, and lines.	s. 1 to 2 miles off. 1 to 4 miles off. 1 to 4 miles off. 1 to 4 miles, and from 15 to 100 miles off.	202,860	92,691	24,626	29,468	220	Herrings, mackerel, cod, codling, haddocks, whitings, and plaice.	92	operate from the various her ring fishing centres. Decreases of 164,173 cwts. and £193,193 in quantity and value of herrings. A greatly reduced fleet took part in herring fishing while wises was leave to the for
Lines.	1 to 2 miles off.	••		104	126	••	Codling.		some years past. The quantity and value of white fish show little change. Increase in num ber of small-sized craft. Of little importance. Operations confined mainly to summer months.
		202,860	92,691	27,471	33,469	765		95	
	-								
Nets, lines, and creels.	1 to 5 miles off.			4,291	4,248	839	Codlings and crabs.		More attention paid to hand-line and cod-net fishing, and to crat and lobster fishing. The catcl shows a considerable increase.
} "	,,			5,543	4,955	1,056	Codlings, crabs, and lobsters.	٠	Catch of white fish about the same as last year. Crabs and lob sters show an increase.
,,	North Sea generally.	352,164	149,711	35,080	30,006	445	Herrings, cod, ling, haddocks and skate.	74	The catch shows a very large fall ing off, due to the pat tial failur of the summer herring fishing The value of herrings shows a decrease of 55%. The quantity of white fish was about the same
Lines and	1 to 5 miles			2 3 2	255	29 3	Codlings and		but the value slightly less. Slight increase in catch. Unim-
creels. Nets, lines, and creels.	off. 1 to 10 miles off.			3,598	4,803	472	lobsters. Codlings, had- docks and whitings.	2	portant as a fishing station, Catch about the same as in 1920 Codlings were more abundant but haddocks and whitings scarcer. Most of the fishermer
**	Along the	• • .	•••	212	229	98	Haddocks and codlings.		prosecute herring and great-line fishing at other stations during the greater part of the year. Slight increase in the catch Resident fishermen prosecute th
								1	fishing chiefly at other stations.

				F	SHI	G BOA	TS A	ND VI	ESSEI	Ls belo	ngin	g to	Creek.				Fisher and B	rme
STATION	or CREE	K.	(Inch	1st uding St	Class eam		rs).	2n Cla		3rd Clas		1	Potal.	0	erease n or	Seaworthy Boats Unemployed.		Partially
				feet kee upward		80 to feet k		18 to feet k		Unde feet k	r 18 ceel.				n 1920.	Ses	Reg	Par
Banft 1	Distri e t.		*Steam	n Moto	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	N
Crovie -		-	- 2			٠		6			19	27	131	1°	6	3	89	
Gardenstown			- 17	10		6		6		2	16	57	1,164	1	23	2	275	
Macduff -		-	- 33	13	2	12		. 8	1		9	78	1,847	2	91	5	400	
Banff -			- 20	2	2		••				10	34	809	2	61	2	174	
Whitehllls	- , -	•	- 2	9	1	4	••	35	1		10	62	719	1	25	1	257	
Portsoy -			- 7	3	1	5		6		1	11	34	519		11	2	140	
andend -		-	- 1	3				4	1		9	18	208		. 4	1	65	
	Totals		- 82	40	6	27		65	3	3	84	310	5,397	1	187	16	1,400	-
	TO COLOR TO C												٠					
Buckie Fullen -	District.		- { 25	5	2	••			7	2	12	54	1,331	6	108	1	331	
ortknockie			- 1 52	7	4				9		21	95	2,447	1	183	2	612	
indochty -			. 1 12	38				1	6	•	29	101	2,600	5	302	5	615	
Portessie - Buckie -	: :	:	- 27 - 97 +13	17 36	8	7	••	1 1	38		3 5	53 205	1,791 5,932	12	427 64	10	371 1,290	
Portgordon			· { 27	9	6			1	13		3	62	1,675	1	64	4	384	ļ
h	Totals		- 274	112	22	7		4	75	3	73	570	15,776	21	782	26	3,603	-
Findhor:	ı District	÷.																
Lossiemouth		•	- { 40 †5	15	1	10		16	•••	1	7	95	2,472	2	33	1	565	
Hopeman -		-	· { 18	3		7		12				41	. 991	3	20		280	
Burghead - Findhorn -	: :	:	24	1		5		11 2		1	4	46 3	1,010	3 1	53 2	1	276 10	
Vairn -			- 27	1	1	•		14		4	8	50	1,103	2	6		308	
Campbelltown								6	7		1	14	66	2	8	1	45	
inverness -									1			1	* 3	1	4		10	
							_	ļ		7				4	8	4	1,494	- -

^{*} Drifters or Liners unless otherwise stated.

		QUANTI	TY AND	VALUE O	F FISH L	ANDŁD.		tions.	
Methods of Fishing pursued	Position of Principal Fishing Grounds.	Herr	ings.	Other (exclusive)	ıding	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Stations	GENERAL REMARKS.
	1	Cwts.	£	Cwts.	£	£			v
Nets,lines, and creels.	Moray Firth.	}	••	10,436	11,748	63	Haddocks, cod, and whitings.	5	The quantity of fish landed i similar to 1920, but the valu- shows a considerable decrease
39	,,,	25,105	13,624	12,11 3	18,147	103	Herrings, had- docks, cod, and	7	owing to lower prices. Decreases in quantity and valu of herrings, but increases in other kinds.
Nets and lines.	"			63	80		whitings. Cod and had- docks.		Little change. Fishermen en gage in herring fishing at othe centres.
Nets, lines, and creels.	**	94	65	17,889	25,039	413	Haddocks, cod, and whitings.	4	Decreases in quantity and valu of herrings, but increases in other kinds.
Nets and lines.	,,	542	196	1,700	2,571		,,	2	Decreases in quantity and value of all kinds.
"	**			1,425	2,213		,,	1	Considerable decreases in quantit and value of cod and haddocks
		25,741	13,885	43,626	59,798	579		19	
Nets and lines.	Moray Firth.	12	6	826	936	154	Haddock and codling.	1	The fishermen usually engage in herring fishing at other centres few fish are landed locally.
**	"	269	90	694	953	21	**	3	Do. do. do.
Trawl, nets, and lines.	99 99 99 99	38,863	16,112	757 39;037	751 57,961	15 .: 134	Herrings, cod, h a d d o c k s, halibut, lemon soles, plaice, witches, skate,	3 1 18	Do. do. do. All fish are landed at Buckie. Large decreases in quantity an value of herrings; but marke increases in quantity and valu of all kinds of flat fish, as resul of introduction of the Danis seine net.
Nets and lines.	99	•••		2,481	3,067	77	etc. Haddock and codling.		Little doing at this creek. Fisher men prosecute fishing from other centres.
		39,144	16,208	43,795	63,668	401		26	
	•			*					
Nets, lines, and creels.	Moray Firth.	1,190	545	21,289	37,578	565	Herrings, cod, h a d d o c k, whiting, soles, and plaice.	6	Fishermen engage largely in hering fishing at other centres results proved exceptionall unremunerative. Large increasin landings of flat fish due tintroduction of seine net fishing.
Nets and lines.	"	35	33	9,156	13,522		Cod, haddock, whiting, plaice.	2	Do. do. do.
Lines.	33 33 ·	95	29	8,061 721	13,409 811	309	Haddock, whiting, and	3	Do. do. do. Unimportant. Considerable in crease in quantity of mussels.
Nets and lines.)) ·	63	21	4,599	7,430	2	mussels. Cod, haddock, whiting, plaice.		Fishermen largely dependent of the results of herring fishing Increase in quantity of had docks, but decrease in place.
29 .	,,			1,248	2,269		,,		Quantity similar to last year, by
"	Inverness and Beauly Firths.	6,368	1,310	5,823	2,259	30	Herring, sprat, c o d, a n d haddock.	3	decrease in value. Large decreases in quantity an value of herrings and sprats.
								-	-

Avoch			Fı	SHIN	G Bo	ATS A	ND V	ESSE	LS belo	ngin	g to	Creek.	-		oats d.	Fishe and F	
Cromarty District. *Steam Motor Sail Mot	STATION OR CREEK.	(Includ				rs.)						Cote1	0	n or	vorthy Beneficial	larly oyed.	ially oved.
Avoch												cour.	fron	<i>crease</i> n 1920.	Bear	Regu	Fart
Cromarty, Invergordon, and Saltburn	Cromarty District.	*Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	No.
Saltburn	Avoch	1		7	* *		8	37	••	4	57	607	1	5		296	15
Hilton	Cromarty, Invergordon, and Saltburn	••					1	1		23	25	56	2	1	2	54	14
Inver		• •			••		- 7	3		11	21	56		2	3	84	5
Inver	Rockfield and Portmahomack		••		••	,.	4	2		6	12	37		••	2	34	4
Tain and Tarlogie																	
Totals - 1 7 20 45 44 117 762 1 8 7 476 38 Helmsdale District. Embo					••		••	2			2	6		••		8	
Helmsdale District. Embo	Tain and Tarlogie		••	••	••		••	• •	••		• •	••	••	• •	• •	••	
Embo	Totals	_1		7		··	20	45		44	117	762	_1	8	7	476	38
Embo																	
Golspie	Helmsdale District.																
Brora <td< td=""><td>Embo</td><td>• • •</td><td></td><td>2</td><td></td><td>••</td><td>4</td><td>11</td><td></td><td>10</td><td>27</td><td>133</td><td>1</td><td>, 21</td><td>9</td><td>80</td><td></td></td<>	Embo	• • •		2		••	4	11		10	27	133	1	, 21	9	80	
Portgower 1 1 2 4 Helmsdale 1 1 1 1 1 1 1 1 1 1 1	-	* *		1	2				1								
Helmsdale	•	**			• •	••	3		••	7			1	1	3		10
Dunbeath 1 1 3 5 15 25 109 3 7 33 Totals 1 4 3 34 20 7 51 120 491 1 77 25 †292 13 Lybster District. Latheronwheel (Caithness-shire) 2 9 11 22 19 5 Forse (Caithness-shire)	Portgower	••			• •			1.			-1	2		••		4	••
Totals	Helmsdale · · · · •	• •			1	••	14	1	6	15	37	114	1	68	1	100	3
Lybster District. Latheronwheel (Caithness-shire)	Dunbeath	••	1	1	••		3	5	<i>:</i> .	15	25	109		3	7	33	
Latheronwheel (Caithness-shire)	Totals			4	3	<u></u>	34	20	7	51	120	491	1	77	25	†292	13
Latheronwheel (Caithness-shire)																	
Latheronwheel (Caithness-shire)	Lybster District.														8		
Lybster ,, 2 1 1 1 1 15 20 64 1 4 2 48 6 Clyth ,,							••		2	9	11	22	٠٠.			19	5
Lybster ,, 2 1 1 1 1 15 20 64 1 4 2 48 6 Clyth ,,	Forse (Caithness-shire)								1	6	7	13	1	2		10	4
	T 1.4.						1		1	15	20	64	1	4	- 1	48	6
Totals	Clyth ,, · · ·								••	11	11	20				30	2
	Totals						1	1	4	41	49	119	2	2	2	‡107	17

^{*} Drifters or Liners unless otherwise stated. ‡ Including 57 crofter fishermen.

[†] Including 17 crofter fishermen.

No. II.—continued.

		QUANTIT	TY AND V	VALUE OF	Fish L	ANDED.		ations.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herri	ngs.	Other (exclu Shell	iding	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Stations.	GENERAL REMARKS.
		Cwts	£	Cwts.	£	£			·
Drift and cod nets, and small lines.	Inverness, Beauly, and Moray Firths.			346	468	170	Haddocks and codlings.	••	Most of the fishermen engaged i herring fishing on the east an west coasts from May to Sepl ember, and thereafter in th small herring and sprat fishing in Inverness Firth. Decrease in quantity and value of whit fish.
Drift nets, s m a l l and hand lines.	cromarty and Ding- wall Firths, and off the "Sutors" 1 to 8 miles.	43	32	3,439	4,9 82	104	Haddocks, plaice, and codlings.	••	Slight decreases in quantity anvalue. Importance of creek declining.
Cod nets. mall and hand lines.	2 to 12 miles E. by S.			6,194	7,829	143	,,		Fair improvement in quantity an value of white fish, but marke decrease in lobsters.
27	Dornoch Firth, and 2 to 12 miles off Tarbat Ness.		••	2,747	3,179	252			Decreases in quantity and value of white fish; lobster fishing re sults similar to preceding year
Small	1 to 8 miles off the creek.			94	102				Of little importance as a fishin creek.
lines.	on the creek.				••	3 89	Mussels.		Output of mussels considerabless.
		48	32	12,820	16,560	1,058			
Lines.	1 to 5 miles off.		• •	4,361	6,197	438	Haddocks and plaice.		Considerable increases in quantit and value.
Lines and nets.	,,		• •	3,606	4,263	80	Cod, haddocks, and plaice.	2	Slight increases in quantity an value.
Nets, lines, and creels. Lines.	"			1,447	1,702	365	Codlings and haddocks. Codlings.	1	Decrease in quantity, but values similar to last year's. Fish landed here are carted the Helmsdale and included in the
Lines, nets, and creels.	1 to 12 miles off.	227	170	7,733	10,444	1,388	Haddocks, cod, and codlings.	2	Helmsdale landings. Decreases in quantity and value of herrings, but considerab
,,	1,	236	137	1,212	1,465	86	Haddocks and codlings.		increases in other kinds. Considerable decreases in quanti and value.
• .		463	307	18,359	24,071	2,357		5	
Nets, lines, and creels.	off.	77	44	347	362	45	Herring and codling.		Decreases in quantity and value owing to failure of inshore he ring fishing.
"	1 to 3 miles off. 1 to 6 miles	483	252	3,487	3,179	38	Herring, cod- ling, and had- dock.	2	Do. In November Lybster had bour was gifted to the distriby the proprietor.
Nets and lines.	off. 1 to 3 miles off.	14	8	194	192		Codling.		An unimportant creek, Fishis shows a falling off.
		574	304	4,028	3,723	83	1	2	

TABLE A.—

		F	ISHI	NG BO.	ATS A	AND V	ESSE	LS belo	ongir	g to	Creek.			onts	Fishe and I	rme Boy
STATION OR CREEK.	(Included 45 f	ding St	1			2n Cla	88.	3rd Class	88.		rotal.	Inc O De from	crease n or crease n 1920.	Seaworthy B.	tegularly mployed.	Partially
	and t	ipward	8.	feet l	keel.	feet l	reel.	feet 1	reel.		1		1		田田	
Wick District.	*Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	N
Whaligoe and Sarclet									8	8	16				30	1
Wick (Caithness-shire)	16	31	2	1		12		2	10	74	1,599	8	64	7	400	
Boathaven and Slaxigoe - (Caithness-shire)						4		- 2	6	12	38			1	22	
Ackergill ,,						6			6	12	34	1	3	3	18	
Keiss and Nybster "		-				1	••	8	4	13	32	1	2		30	
Auckengil and Freswick (Caithness-shire)									19	19	38	1	2		20	1
troma ,,						3		12	20	35	75	3	8		60	
Duncansbay and Huna ,,								1	12	13	27	1	1		30	
Fills and Mey ,,								2	8	10	21	2	3		28	
carfskerry and Ham ,, Brough and Dunnet ,,									13 10	13 10	26 20	1	2		18 18	
astletown and Murkle									2	2	4	1	2		4	
hurso and Scrabster ,,				7		2		6	10	25	113	4	14	3	70	1
rosskirk and Brims									3	3	6				6	1.
andside ,,						2			1	3	10				4	
ortskerra (Sutherlandshire)					.:	1			11	12	26	1	2	3	30	1
trathypoint and Armadale									6	6	12	1	2		10	
(Sutherlandshire) Kirtomy and Farr									2	2	4				11	
kerray ,,									4	4	8	2	4		18	
cullony "									1	1	2				4	
sland Roan ,,									2	2	4	1	2		16	
'almine and Portvasgo ,,									6	6	12				28	
Erriboll and Rispond ,,									14	14	28		• -		28	
Totals	16	31	2	8		31		33	178	299	2,155	11	93	17	†903	11
Orkney District.																
North Ronaldshay									7	7	9	1	1		16	
anday									34	34	34	4	5		56	
Vestray and Papa	4		1			1		2	65	69	127	11		10	132	

^{*} Drifters or Liners unless otherwise stated.

[†] Including 300 crofter fishermen.

No. II.—continued.

	1	QUANTI	TY AND V	ALUE OF	Fish L	ANDED.		Stations.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.	Other (exclushell)	ıding	Value of Shell Fish.	Princip al kinds of Fish Landed,	No. of Curing Sta	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
Lines and	1 to 4 miles			246	347	247	Codlings and		Improvement in results.
creels. Drift net, cod nets, and lines.	off. 1 to 7 miles off. Herring, (summer), 15 to 60 miles E. by N. to S.E.; (win- ter), 3 to 20 miles off	317,681	146,177	12,490	10,003	179	crabs. Herrings and cod.	60	Falling off in herrings lander winter fishing failed through over-supply of markets as summer fishing through scarci of herrings. Increase in oth kinds.
Nets, lines,	north coast. 1 to 7 miles			785	751	77	Codlings.	2	Considerable increases in quanti
and creels.	off. Sinclair Bay.	٠.		2,110	2,400	71	Haddock, cod,		and value of line fish. Do. do. but decrease in she
,,	,,	70	60	1,235	1,166	1,211	and plaice. Codlings, crabs,		fish. Improvement in line and she
Lines.	1 to 3 miles			528	220		and lobsters. Codlings.		fish fishings. Results show a falling off.
Lines and creels.	off. 1 to 4 miles off the coast of island.			1,251	673	325	Codlings and lobsters.	••	Increase in quantity of line fis but considerable decreases values of line fish and shell fis
Hand lines and creels.	Pentland Skerries, 1 to 5 miles off.	}		438	548	57	"		Slight increase in line fish, to decrease in shell fish.
"	"	99	44	1,597	1,356	650	Codlings, crabs, and lobsters.		Increase in line fish, but decreas in herrings and shell fish.
Lines.	Dunnet Bay.			160	154	2	Haddock and		A slight increase.
Drift nets, lines, and creels. Lines and	2 to 20 miles off North Coast. 1 to 4 miles	34,533	21,242	9,162 61	10,24 6 35	. 9 6 5	saithe. Herrings, cod, halibut, skate, and lobsters. Codling and	6	Large decreases in quantity a value of herrings, but increas in line fish and shell fish. A falling off.
creels.	off. Sandside Bay.	119	57	630	° 370	232	lobsters.		Results show a slight improvement
Nets, lines, and creels.	1 to 4 miles off.	} 777	279	618	50 0	175	Herring, cod, and lobsters.		ment. Increase in quantity, but decrease in value of landings.
Lines and	. **	12	8	25	21	110	Lobsters.		A slight increase.
creels.	. ,,	} ,218	94	424	400	348	Herrings, had- dock, and lobsters.		A decrease in net and line fish, k an increase in shell fish.
Nets, lines,	Inshore.	70	40	83	43	265	Haddock and		Do. do. do.
and creels.	1 to 4 miles	. 91	25	1,018	480	319	lobsters.		A considerable increase.
33	off.	213	73	209	170	1,051	Herrings, had- docks,lobsters, and unclassi- fied shell fish.	••	A falling off in landings, due stormy weather in latter h of year.
		353,883	168,099	33,070	29,883	6,426		68	
Creels and lines.	Inshore.			•			Lobsters.		Crofter fishermen. Lobster fishermen. Lobster fishermen.
"	"			58	48	679	,,		of 30% in the value of shell fis Crofter fishermen. Line fishing
"	North Sound and inshore.			170	163	1,085	Lobsters and cod.	•••	Crofter fishermen. Line fishing failure, but increase of 38% value of lobster catch.

TABLE A.—

			FI	SHIN	G BOA	TS A	ND VE	SSEI	s belo	ngin	g to (Creek.			Boats ed.	Fisher and B	
STATION OR CREEK.		(Includ	1st (ling Ste			rs.)	2nd Clas		3rd Clas		m.	otal.		rease	Seaworthy Boats Unemployed.	larly oyed.	ially
		45 fe and u	et keel pward	8.	30 to feet k		18 to feet k		Under feet k		10	36 81.	Dec from	rease 1920.	Sea	Regularly Employed.	Partially
Orkney District—contd.		Steam	Motor	Sail	Moto	Bail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	N
Eday and Pharay	-							2		26	28	. 40	1	2		52	
Stronsay	-	• •		1	••		••		1	. 9	11	54	5	67	1	26	
Shapinshay									-1	10	11	12	6	6		28	
Rousay, Egilsay, etc	-									11	11	13	3	9		21	
Evie and Birsay					• •				3	26	29	33	6	5	Б	64	
Kirkwall - · · ·	-		1		2		5	1	2	7	18	113	1	22		30	:
Tankerness and Deerness	-			1				1	2	10	14	83	4		1	28	
Holm - *-	-			••.					1	8	9	16	3	37	.,	19	
Burray	-			5					5	14	24	256	4	10	1	66	
Orphir to Scapa									3	1	4	7	1	1		9	
Stromness	-				••		1		14	15	30	. 53	2	1	2	54	
Hoy and Graemsay -	-					٠٠.		٠	6	16	22	30	1	2	2	43	
Walls	-			1			1			30	32	87	3	5	3	52	
Flotta	-			-					i	16 1	16	22	1	3		40	
Swona South Ronaldshay	-						1 3	2		3 36	47	. 11 84	1	2		111	
Totals -	•		1	9	2		12	6	47	345	422	1,087	51	139	-	*862	-
Shetland District.															•		
Fair Isle				7				1		3		5				18	
Grutness Quendale	-	1	2	7			1			18	12	407 282	1::	44	3 2 1	66 45	
Boddam	-	-		i				1		9 2 2	10	17 37	1	1	1	28	
Levenwick		2	5	9	::	::				6	22	90 707	1	21 25	2	48 131	
Sandsair				8						\	3	112			i	42	

^{*} Including 725 crofter fishermen.

		QUANTI	TY AND V	VALUE OF	Fish L	ANDED.		Stations.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.	Other (exclusive)	ding	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Sta	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
Creels and lines.	Inshore.			79	52	494	Lobsters and		Crofter fishermen. Decrease in shell fish.
Nets, lines, and creels.	5 to 60 miles E. by S. to S.S.E.	69,919	19,863	614	258	555	Herrings and lobsters.	17	Principal herring fishing station. Operations in summer on re- stricted scale, and results dis- appointing. Decrease of £41,232 in value of herrings landed. Slight decrease in value of
Lines and creels.	Inshore	}	`	188	216	879	Lobsters and cod.		Crofter fishermen. Lobster fish- ing is vigorously prosecuted throughout year. Slight de-
.,	,,			400	409	360	Cod, haddock, and lobsters.		crease in value of shell fish. Crofter fishermen. Line fishing results very unsatisfactory, and considerable decrease also in
,,	Stronsay Firth and inshore.	802	333	1 ,9 38	3,200	1,0 70	,,	4	shell fish. Results of line fisheries as last year, but decrease in value of shell fish. No herrings cured.
,,	Inshore.	••	• •	157	223	482	,,		Crofter fishermen. Decrease in line fish; slight increase in value of shell fish.
,,	"	56	21	97	114	112	,,	3	Herring fishing neglected since 1914; fisheries otherwise unim-
Nets, lines, and creels.	5 to 35 miles S.E. and inshore.	116	43	108	100	100	Herrings and cod.	3	portant. Line and shell fisheries unimportant. Five crews took part in Stronsay herring fishing with
Lines and creels.	Scapa Flow and inshore.	116	65	272	351	39 3	Haddock, cod, and lobsters.		moderate success. Decrease in line fish. Lobster fishing successful throughout year.
,,	1 to 10 miles S.W.	182	135	670	997	1,048	Cod, haddock, and lobsters.		Regular fishermen. Fisheries less productive; considerable de- crease in line fish; decrease of 20% in value of shell fish.
,,	Inshore.			673	676	443	,,		Crofter fishermen. Decrease of 28% in value of shell fish, but
,,	Pentland Firth and inshore.	} 7	4	825	991	540	Cod and lob- sters.		line fishing results similar. Chiefly crofter fishermen. Line and lobster fisheries successful throughout year. Satisfactory increase in landings.
} "	,,	42	18	1,106	1,392	327	,,		Crofter fishermen. Line fishing successful, especially during summer, but decrease of £1,056 in value of shell fish.
		71,240	20,482	7,355	9,190	8,567		27	III value of short fish.
Lines.	Inshore.							(;·	Crofting district. Falling off in great line fishing owing to slack
Nets and lines.	1 to 60 miles off.	\>		704	609		Cod, ling, saithe, haddocks, and	1 	demand for drying. Men mostly employed at Lerwick herring
} "	33	4,298	1,456	460	367		halibut. Herrings and haddocks.		Big decrease in landings. Only one curing station was open, as against three in 1920, which chiefly accounts for decrease. A number of men were employed
} "	,,			20	14	••	Haddocks.	{::	at the local copper mines. Crofting district. Little fishing carried on. Fishermen were employed at herring fishing at Lerwick.

TABLE A.-

		F	ISHII	NG BOA	ATS A	AND VI	ESSE	LS belo	ngin	g to	Creek.			oats d.	Fisher and E	
STATION OR CREEK.	(Inclu	1st ding St	Class eam		ors.)	2n Cla		3rc Clas		י	otal.	Inc	rease n or prease n 1920.	worthy Be	Regularly Employed.	Partially
		eet kee upward		30 to feet 1		18 to feet 1		Unde feet k				fron	rease 1 1920.	Sea	Regr	Par
Shetland District.—contd.	*Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	No
Bressay									5	5	5	2	2		26	
Lerwick *	- 8	7	16	8		6	7	•• (24	76	1,372		. 43	12	351	
	1	1 1	14	3	,	1 2	i		2 12	4 34	44 801	::	••	2	16 134	
D1101110D	- :	1	2	1			4		2 3	10 3	154 3	.:			25 10	
West Sandwick	-		::						3	3	3				10	
Gossaburgh									10	10	. 2 16			3	6 31	
Cullavoe and Gutcher -	-								10	10	10	1	2	3	35	
Westing and Snarravoe -				::					6	6	6			1	8 16	
	- ::	1	5	::		2			6 3 4	6 3 12	6 3 298	i	8	2 7	15 9 33	
									9	9	9			1	25	
Burrafirth	- ::	::			::				3	3	. 4		• • •		16 12	1 ::
Ollaberry	- :				::		1	::	12	5 12	$\frac{10}{12}$	2		5	18 24	
North Roe Fethaland and Sandvoe	: : :						1		7 4	8	11 4			2	22 12	
Ronasvoe	-							::	8	8	8			2 2	12 24	
	-					1			28	29	30	3	3	6	49	
									22 12	22 12	23 12	2	2 4	9 2	54 36	
Foula	-			::	::	ï			16	17	20	4		4	39	
Vaila Sound Sand			1						10	11	43 4		••	2	38 18	
Skeld and Raewick			3						6 8	6 11	6 130	1	51	2	20 48	•
	. 1	4	1	6		3			6	21	339	2	19	4	71	
Burra Isle		6	11 2	3		6			9	35 6	754 83	3	5	4	100	
Trondra South Havera				::					4 2	4 2	8 2	1	1		14	
								•		-	_	,	••			
Totals -	- 12	28	86	21	-	22	18		334	521	6,014	23	41	86	†1,854	
Stornoway District,																
SOUTH LOCHS SECTION. Gravir, Colbost, Marvaig Cromore, Garryvard to	3		2	1	5	3	25		23	59	402	2	9	2	370	
NORTH LOCHS SECTION. Lucrbost, Crossbost, Ranish			7	1	1		2		14	25	314	3	30	2	283	
Grimshader -	: \		'	1	1		4		1.4	20	014	0	00	2	200	• •

^{*} Drifters or liners unless otherwise stated.

No. II.—continued.

·		QUANTI	TY- AND	VALUE O	F Fish L	ANDED,		tions.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.		kinds ading Fish).	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Stations	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
Nets and lines.	Inshore. 1 to 70 miles off.	} 572738	196,456	14,990	10,227	429	Herrings, mackerel, cod, ling, tusk, saithe, haddocks, whitings halibut, and skate.	8 39	273,930 cwts. and decrease in value £25,589, chiefly referable to herrings, price of which was low owing to absence of Guarantee. Haddock catch shows increase, but value was less, and catch and value of halibut was
Lines.	Inshore. 1 to 60 miles off. Inshore.	4,348	1,042	3,273	2,506	5	Herrings, had- docks, halibut, and whitings.	('2 1	cwts. and £699, chiefly in her- i rings and haddocks. One her-
,, ,	"	• •		566	275		Saithe, had- docks, and whitings.	••	Crofting district. Increasing attention being devoted to agriculture.
} "	31			98	60		Saithe and haddocks.		Do, do. do.
Nets and lines.	1 to 60 miles off. Inshore.	2,174	603	890	482		Herrings, saithe, had- docks, and halibut.	9	Single curing station open at Baltasound was dependent on chance arrivals by boats fishing from Leiwick. Local fishermen spend most time on their crofts.
} "	,,			535	295		Saithe and haddocks.	{::	Crofting district. Fishing almost neglected.
Nets' and lines.	1 to 20 miles	}		207	214		Saithe, had- docks and halibut.	$\begin{cases} \cdots \\ 1 \end{cases}$	Less attention paid to fishing than formerly, chiefly because of costly and irregular transport.
Lines.	Inshore.)						(::	Results similar to 1920. Most of
Nets ["] and lines. Lines.	1 to 40 miles off. 1 to 10 miles	28	6	506	295	39	Cod, ling, saithe and haddocks.	1	the men manned boats only dur- ing the summer herring fishing at Lerwick.
Nets' and lines.	1 to 60 miles							(::	A number of curing stations were opened at Scalloway in early summer, but season terminated
Lines.	Inshore.	5,569	2,301	7,037	7,674	496	Herrings, cod, haddocks, halibut and mussels.	71	when Lerwick fishing began. A good haddock fishing from Scal- loway had to be discontinued when returns from Aberdeen fell away in spring. Increase in catch of herrings and had- docks, but decrease in net cod and line halibut; increase on whole of 1774 cwts. and £244.
		589,155	201,864	29,286	23,018	969		75	
Nets and lines.	The Minch and Sea Lochs.			1,797	731		Cod, ling, saithe, and haddocks.		Results similar to last year.
Nets, lines and creels.	"	1,420	532	922	758	206	Herrings, had- docks, and lobsters.		Increase in herring landings, but white fish shows a decrease. Lobster fishing received in- creased attention.

TABLE A.-

		Fı	SHIN	в Вол	TS A	ND VE	SSEI	LS belo	ngin	g to	Creek.			ats d.	Fisher and B	
STATION OR CREEK.	(Includ	1st (ling Ste			rs.)	2nd Clas		3rd Clas		'n	otal.	01	rease	Seaworthy Boats Unemployed.	Regularly Employed.	Partially Employed.
		et keel pward		30 to feet k		18 to feet k		Unde feet k					rease 1 1920.	Sea	Regu	Fart Empl
Stornoway District—contd.	*Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	No.
STORNOWAY SECTION. Stornoway, Sandwick, Holm, Melbost and Stenish	} 17	3	1	1	2	1	••	••	3	28	1,389	2	94	6	218	
GARRABOST SECTION. Swordale and Knock, Bayble, Garrabost	}		8				7		11	26	400	3	43		387	
PORTNAGURAN SECTION. Sheshader, Portvoller, Port- naguran, Shader	}		3	2			9		9	23	223	3	80	1	272	
BACK SECTION. Tong, Coll, Vatisker, Back, Tolsta	}					••	5		17	22	71	3	8		505	
NESS SECTION. Skegersta, Port of Ness, Borve, Shader—West	}						12		20	32	137	1	7		538	
SHAWBOST SECTION. Barvas, Brue, Arnol, Bragar, Shawbost	}						4		14	18	65		11	1	300	
CARLOWAY SECTION. Carloway, Tolstachuilish, Breasclete, Callanish	}				3		9		2	14	115		18	2	271	
BERNERA SECTION. Tobson, Valsey, Breaclete and Hacklet, Kirkibost	}						11		23	34	138	2	17		166	
VALTOS SECTION. Uigan and Arduig, Croulista, Islivaig, Breanish, etc., Loch Hamnevy	}						1		1	2	5		8		119	
North Harris Section. Scadabay, Plockropool, Drinnishader, Meavig, Derriclate, Tarransay Island, Scarp Island, Ardhasig, Tarbert and Urgha, Kyles of Scalpay, Mollinganish, Rennigedle, Marvig and				• •	2	, 1	19	• •	25	47	130	1	17	3	268	
SCALPAY SECTION. Scalpay and Scotasay Islands				11	3		25		14	53	322	1	55	3	150	
South Harris Section. Stroud, Finsbay, Cudinish, Flodabay, Manish, Geo crab and Licisto, Stockin- ish and Lachlee	}			,1		•••	30		21	52	164	11	67	2	209	
Totals	17	3	21	17	16	5	159		197	435	3,875	20	298	22	†4,056	
Barra District. Boreray Bernera						.;	1		1 0	2	4 61	1	2		6	
Dernera	••		•••			1	14	••	2	17	61	1	2		68	

^{*} Drifters or liners unless otherwise stated.

[†] Including 3,783 crofter fishermen.

		QUANTI	TY AND V	ALUE OF	Fish L	ANDED.		tions.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herri	ings.	Other (exclusive Shell)	ding	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Stations.	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
Nets and lines.	The Minch.	117,077	69,220	5,960	4,082	158	Herrings, cod, ling, and saithe.	27	Decreases of 53% in quantity and 60% in value of herrings as compared with 1920. Herrings were scarce and the quality the poorest within memory.
Nets, lines, and creels.	Broadbay.	649	247	2,356	1,984	911	Herrings, cod, ling, had- docks, and lobsters.		Decrease in quantity and value of white fish. Increase in number of lobsters landed.
)) .	"	1,631	904	1,717	1,351	140	Herrings, cod, ling, and had- docks.		Considerable increase in fish landed due to less frequent landings by local boats at Stornoway.
Nets and lines.	91	92	92	5,224	5,160		Haddocks.	••	This section ranks first for small line fishing. Landings show slight increase; the bulk was
gg 7	The Minch and off the Butt.	1,609	718	1,896	2,554		Herrings, cod. ling, and had- docks.	••	sold in Stornoway by hawkers. Considerable decrease in quantity and value of herrings, which were exceptionally scarce off
,,	Atlantic side of the island.	**	••	431	449	•24	Cod and ling.	••	this section. Fishing conducted very spas- modically. Results show marked decrease.
"	Loch Roag.	98	53	842	559		. 19	••	Results similar to those of 1920. Most attention devoted to crofting.
Nets, lines, and creels.	; , .	1,070	535	331	195	540	Herrings, had- docks, and lobsters.		Quantity of herrings similar, but value increased. Lobster fish- ing of most importance, but decrease in catch owing to bad
Nets and lines.	21	531	399	270	151	22	Herrings and haddocks.		weather on exposed coast. Unimportant as fishing creeks.
Nets, lines, and creels.	The Minch and Sea Lochs.	1,349	617	981	1,299	1,005	Herrings and lobsters.		Decrease in herrings. Increase in white fish and lobsters.
									•
33	,,,	9,077	8,457	784	650	2,035	,,	6	Quantity of herring similar to 1920, but value almost doubled. Motor boats belong mostly to energetic Scalpay fishermen who
**	,,	940	440	3,220	1,126	934	Herrings, saithe, and lobsters.	• •	have little crofting interests. Decrease in herrings. Increase in lobsters caught, but prices slightly lower.
		135,543	82,214	26,731	21,049	5,975		33	
								,	
Lines and creels.	Off shore.	••		812	503	1,406	Plaice, flounders, and lobsters.	••	Slight decrease in quantity and value of white fish. Number of lobsters similar to last year, but value £300 less.

TABLE A.-

		F	ISHII	NG BOA	TS A	AND VI	ESSE	LS belo	ngin	g to	Creek.	4		oats d.	Fishe and F	
STATION OR CREEK.	(Inclu	1st iding St	Class	Trawle	rs.)	2nc Clas		3rd Clas		T	otal.	0	rease a or	Seaworthy Boats Unemployed.	Regularly Employed.	ially
4		feet kee upward		30 to feet k		18 to feet k		Unde feet k					rease 1 1920.	Sea	Regu	Partially
Barra District—contd.	Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	N
							1 13 6 1		2 6 20	3 19 6 21	5 47 14 35	7 2 2	2 16 5 3		10 65 18 66	
Loch Carnan							12		22	34	6 9	3	19		104	
Loch Skipport Loch Boisdale	: ::			1		2	3 9		9 34	13 45	38 119	1 1	10 9	::	45 142	
Eriskay				8		2	14	••	14	38	249	8	1		155	
Bruernish		1		3 7	2	 2	8 1 		11 9 10 12	23 10 11 27	97 18 47 253	7 3 2 .5	7 5 24 79	3	83 34 41 118	:
Totals -		1		19	2	8	87		152	269	1,056	12	148	3	*955	-
Loch Broom District.		-														
CAPE WRATH TO LAXFORD.																
Poulin Didshoremore and Oldshoreb Kinlochbervie Badeall and Achriskill Ardmore	eg					i			4 11 9 9 5	11 9 10 5	9 27 15 25 11	1 1 1	 3 3 1		9 16 22 23 12	
Totals ·			-			1	<u></u>		38	39	87	-	4	6	82	-
LAXFORD TO BADCALL.																
Findlemore and Fanagmore Farbert and Scourie Badcall							ï		6 9 5	6 9 6	9 17 14	::	 1 4		9 18 8	
Totals -			-				1		20	21	40		3	7	35	
BADCALL TO DRUMBEG.																
Unapool and Glendhu - Ardvaar and Nedd	: ::		::	::		'n	i		2 5	2 7	3 15	ï	8	::	6 14	

^{*} All crofter fishermen.

		QUANT	ITY AND	Value o	F FISH I	ANDED.		tions.	•
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.	(excl	kinds uding Fish).	Value of Shell Fish	Principal kinds of Fish Landed.	No. of Curing Stations.	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
Nets, lines, and creels.	Offshore and Dunvegan Bank.	13,518	13,503	377	168	2,193	Herring, cod, saithe, flounders, lobsters, and whelks.	4	Four curing stations were opened at Lochmaddy, whereas practi- cally no herrings were landed in 1920. White fish a decrease. Lobsters show an increase in
,,	Off shore.	121	60	136	44	507	Herrings, mac- kerel, cod, and lobsters.		numbers but a decrease in value. Herrings decreased by over 50%, and lobsters by 30%.
"	Minch.	634	304	6 3	38	138 1,342	Lobsters. Herrings, lobsters.	3	Similar to last year. Herrings decreased by 58%, and lobsters by 24%. Other fisheries
Nets and lines.	21	••		700	575	••	Ling and flounders. (Herrings, mac-	1	increased. Increases in quantity and value.
Nets, lines, and creels.	23	55,700	5 6, 09 7	2,274	720	1,673	kerel, cod, ling, saithe, plaice, flounders, lobsters, cockles, and whelks.	{ 1 16	42% in quantity and 96% in value. Other fisheries show a
		69,973	69,964	4,362	2,048	7,259	WHEIRS.	25	or, moreasom varue.
Nets, lines, and creels.	Inshore and Lochs Clash and Inchard.		. ••	•• ·		•• •	Herrings, cod- ling, haddocks, and lobsters.	•	A section of crofter and regular fishermen who operate chiefly for herrings and lobsters. Lobsters show a decrease. The herring fishing in Loch Inchard in the fall of the year was hindered by stormy weather. Herrings show an increase of 1,408 cwts.
		3,759	712	395	328	329			
} "	Inshore and Lochs Lax- ford and Cairnbawn.		••	••		••	Lobsters.		Crofter fishermen. The lobster fishery was successfully prose- cuted, and increases of 2,955 and £139 are recorded. No large herring shoals were found in Loch Laxford.
		28	10	107	79	787		··	
} "	Lochs Glen- dhu and Cairnbawn.	••	.,	••			Herrings, had- docks, and lobsters.		Crofter fishermen. Landings of herrings and lobsters show a marked decrease. No herring shoal in Loch Glendhu during autumn.
								-	

TABLE A.

£ .		F	ISHIN	G Bo	ATS A	ND VI	SSE	LS belo	ngin	g to	Creek.			osts d.	Fisher and I	rmen Bo y s.
STATION OR CREEK.	(Inclue	1st (ling St	Class eam '		rs.)	2nd Clas		3rd Clas		Tr.	otal.	Inc	rease n or rease n 1920.	worthy B	larly oyed.	ially oyed.
		eet keel ipward		30 to feet k		18 to feet k		Unde feet k				fron	rease 1 1920.	Sear	Regu	Partially Employed.
Loch Broom District—contd.	Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	No.
DRUMBEG TO CULKEIN.																
Drumbeg				••		**	1 1 1		1 8 2 1	2 9 3 1	5 22 10 3		₁		6 17 9 2	
Totals		<u> </u>		<u> </u>			3		12	15	40	-		5	34	-
CULKEIN TO INVERPOLLY.	•					,										
Culkein (Stoer)						2	i		4 5 12 12 9 7	4 6 12 12 11 7	5 12 23 15 31	2 4 1 1 1	4 9 1 1 1 1		9 14 21 20 16 12	::
Totals					_		1		49	52	99	7	13	12	92	-
Totals -		<u></u>	¨		÷		Ť		40	32	98	-	10	12	34	<u> </u>
COIGACH AND TANERA.			-				}									
Achnahaird and Reif - Altandhu						··· ·· ·i	1 4 9 2		5 3 9 2 6	6 7 18 2 9	11 21 60 5 30	1 1 1 1	2 1 1 1 2		10 16 30 4 24	
Totals						1	16		25	42	127	4	6	10	84	-
LOCH BROOM AND ISLEMARTIN.												3				
Islemartin and Ardmair Rhue and Morefield Ullapool Rheroy, Ardendrean, Letters, etc.				 1		 1 2	 1 2		5 4 21 24	5 4 23 29	10 6 29 95	5 2	 5 5		6 5 21 32	
Totals			-	1		3	3		54	61	140	7		24	64	
ACHMORE AND LITTLE LOCH BROOM.																
Achmore and Scorraig Charnock and Badralloch - Ardessie and Badcall Durnamuck and Badlurach -						1	 1 2		2 3 2 7	3 3 9	10 5 10 23	1 2			8 5 14 15	::
Totals		<u> </u>				1	3		14	18	48	3	3	5	42	
GRUINARD TO AULTBEA. First and Second Coast - Sand and Laid - Achgarve and Udrigle - Opinin and Mellon Charles - Ormscaig and Balnaluib - Tenefin and Aultbea				1		::	2 1 2 1 1		3 5 3 7 9 3	3 7 4 9 11 5	5 18 14 26 30 23	1	1 7		4 16 9 31 17 10	
Totals -		-	-		-	1	7		30	39	116	1	6	11	87	-

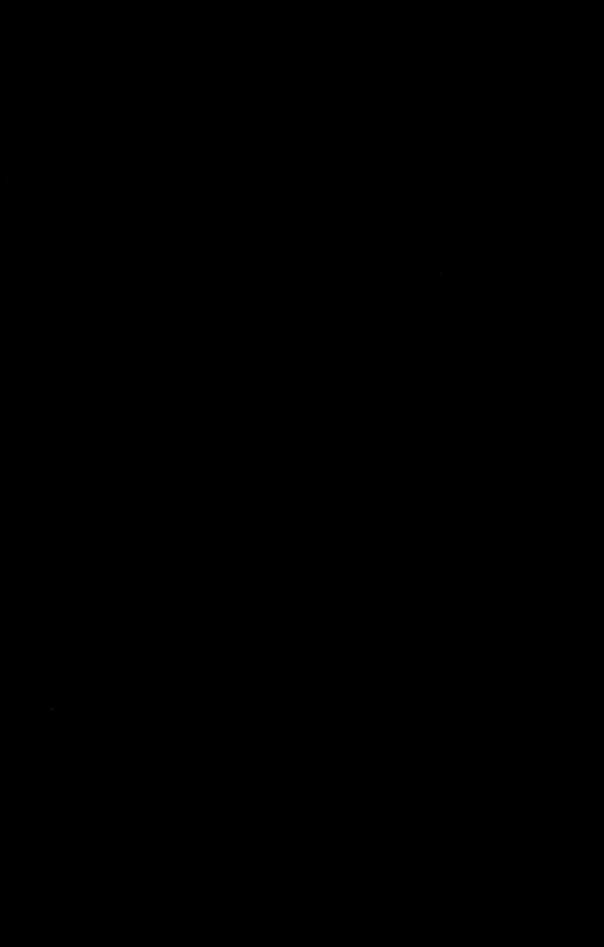
No. II.—continued.

		QUANTI	TY AND	VALUE O	F Fish I	ANDED.		Stations.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.	Other (exclu	iding	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Sta	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
} "	Inshore and Loch Cairn- bawn.	• •	••	••	•••		Herrings and lobsters.	••	Crofter fishermen. Many small boats wrecked by gales during past fourteen months have not been replaced, and many crofters have stopped fishing. A section of small importance.
		210	90	151	126	140			
Nets, lines, and creels.	M i n c h Lochinver, and Enard Bay.	-					Lobsters and codling.	• •	Crofter and regular fishermen. Here also the loss of craft has compelled many crofters to stop fishing. The section is waning yearly. The regular fishermen chiefly prosecute the lobster fishing.
		112	47	173	197	453		-:-	
} "	The Minch and Sum- mer Isles.	••	••				Lobsters.		The most important lobster fishing section, with energetic crofter fishermen. The bad weather was detrimental to this fishing with a consequent decrease of 4,024 and £542.
		104	56	195	148	1,083			
} "	Loch Broom, Ardmair Bay, and Summer Isle grounds.	,,					Haddock, cod, and saithe.		Once an important section, but continued scarcity of fish has driven fishermen to other em- ployment. A general decrease. No herring shoal entered Loch Broom, and no curing done.
		95	45	1,161	966	32			
									,
} "	Gruinard Bay and Little Loch Broom.	••		• •		••	Lobsters.		Crofter fishermen. Fishing irregu- larly prosecuted, and decrease in landings. Little but lobster fishing done.
		66	29	37	27	194	4	-:-	
) n	Loch Eweand Gruinard Bay.	••	•••		••		Lobsters, her- rings, and cod.	••	The crofter fishermen have mostly either stopped fishing, or fish on rare occasions, owing to scarcity of herrings. General decrease in landings except of lobsters.
		171	103	169	155	303			
		1/1	103	109	155	303			

				F	ISHII	NG Bo.	ATS A	AND V	ESSE	LS belo	ngin	g to	Creek	,		Soats	Fisher and I	
STATION OR C	REEK		(Inclu	1st (ding St	Class eam		rs.)	2n Cla		3r Cla		n n	otal.	0	rease n or	Seaworthy Boats Unemployed.	ularly oyed,	Partially
				eet kee upward		30 to		18 to		Unde feet l		1	Juni,		rease a 1920.	Sea	Regularly Employed,	Dort
och Broom District-	-conti	nued.	Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	[]
AULTBEA TO ME	LVAIG	١.																
Poolewe and Naast nverasdale -	. :		••					i	2		7 10	9	16 19	1	6 2		12 25	
Cove· · · Tota	· ·					••		$\frac{1}{2}$	2	•••	7 24	28	25 60	2		7	16 53	-
MELVAIG TO FLOV		T.10		<u></u>			<u></u>		-		24	20	- 00			<u> </u>	- 50	-
Melvaig - · Vorth Erradale	·										8	8	15	1	_ 1		12	
and trath	: :			::		::		2	4	• • •	1 2 2	1 8 3	1 31 23	2	11 1	••	17 13	1
Charlestown -		•		-:-			-:				1	1	2	••	••	••	2	-
Tota	ls -	-						3	4		14	21	72	1	9	3	46	
LOWERDALE TO SO		POINT																
Badachro - Port Henderson	: :							5 4	8		3	11 5	49 34	1	6		37 30	-
						i					• •	1	13	1	14		5	-
																		-
m _{a+a}	la				-							17					Ho	-
Tota Totals for Distric				 		1 9		9	4		3	17	96	2	20	2	*711	-
10tals for Distri	ci -	_		··	<u> </u>	3		24	.45		290	362	943	24	45	92	*711	
	J 67.							-										
Loch Carron an District.	и вкуе																	
och Torridon -		-				1		4	2		4	11	64 .	6	30		40	
Applecross -	• ` •					• •		7			5	12	85		••	2	37	
Kishorn								5				5	43				20	
Loch Carron - Loch Alsh -						2		7	3		4	16	111	1	4	2	57	
				1		•		1		1	••	3	62	- 1	10		12	
Joch Hourn -			••					••		••	11	11	16	1	10	1	18	
Sleat Kyleakin						2		6	7	1	8	16	60 69	5	18	3	41 26	
			••			2				1	•					4		
Broadford -			• •					2		·	6	8	27	5	17		19	
Scalpay Sound -	-	,	••			••		1	.,		27	28	55	8	4	2	39	
Sconcer and Braes		,	. * *					1		**	28	29	57	1	2	6	43	

^{*} Including 680 crofter fishermen.

		QUANTI	ty and V	ALUE OI	Fish L	ANDED.		tions.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.	Other (exclu Shell	iding	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Stations.	GENERAL REMARKS.
. ,		Cwts.	£	Cwts.	£	£			
Nets, lines, and creels.	Inshore and Loch Ewe.								Crofter fishermen. Landings show a slight decrease.
		136	74	717	6 08	21			
"	Inshore and Loch Gairloch.						Plaice and haddocks.		Crofter fishermen who land their catches of herrings and cod at Badachro.
				212	222	90		<u></u>	•
,	Minch, Longa Island grounds, and Loch Gairloch.	••					Cod, herrings, plaice, haddocks and lobsters.	2	Regular and crofter fishermen. The spring cod-net season was a failure, owing to bad weather and poor markets, and the herring fishing was little better. The motor fleet had partial success in Lewis and Skye waters during the summer Two curing firms operated in a very small way.
		777	310	1,675	912	198		2	
		5,860	1,677	5,914	4,257	4,243		2	
Nets, lines, and creels. Nets and lines.	Loch Torridon. Between Raasayand Applecross. Between	245 121	114 50	245 267	195 267	53	Herrings, cod, saithe. Herrings and codlings.	• •	Improved landings of cod, otherwise general decrease. Herring fishing lighter, other kinds similar to last year.
	Skye and mainland.	}		1,235	714	109	Saithe and hake.		Large decrease in value, slight decrease in quantity.
))))	"	26,053	17,715	4,152	3,591	24	Herrings, mac- kerel, saithe.	5	The war time boom has now passed and Kyle shows much lighter landings.
Nets, lines, and creels.	Loch Hourn.			50	37	33	Saithe and lobsters.		Creek of very little importance.
Nets and lines.	Inshore grounds. Between Skye and mainland.	346	132	335	301	510	Shell fish, her- rings, codling.	••	Improvements in quantity and value, shell fish slightly less. Considerable decrease in quantity
Nets, lines, and creels. Nets and	Scalpay	245	107	400	315	991	Shell fish, cod- ling, herring.		and value of herrings, slight in creases in other kinds.
lines.	Sound. Scalpay and Raasay Sounds.	89	27	49	31	328	Shell fish and herrings.		Increase in shell fish, otherwise landings lighter.



TARIF A No. II.—continued.

													T.	A.B.	LE .	A	NO. 11.								. 1	
			Fishi	NG B	OATS	AND V	ESSE	LS bel	ongin	g to	Creek.			Boats yed.	Fishe and	rmen Boys.		P. 111	QUANTIT	Y AND V	ALUE OF	Fish La	NDED.		Stations.	·
STATION OR CREEK.	45	ding feet k	el	Traw 80	to 45	18 t	nd ass. so 30 keel.	Cla Und feet	er 18	т	'etal.	Inc On Dec	rease n or erease n 1920.	Seaworthy Bo Unemployed			Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herri	ngs.	Other k (excludence) Shell F	ding	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing	GENERAL REMARKS.
	and	upwa	ras.	1881	Kee1.	1000	Keel.	1660	Keel.			1		_		-			Cwts.	£	Cwts.	£	£			
Loch Carron and Skye District—contd.	Steam	Mot	or Sail	Mot	or Sail	Moto	r Sail	Moto	r Sail	No.	Ton.	No.	Ton.	No.	No.	No.		Determine	197	90	694	364	1,521	Shell fish and	1	Disappointing year at this creek.
Portree					2	1	2	2	33	40	102	7	18		70		Nets, lines. and creels.	Between Skye and mainland.	101	00	004		_,,	mackerel.		
Staffin				1		2			4	25	58		1	2 2	63		"	Loch Śnizort.	300	96	14	14	400	Lobsters and herrings.	$\left\{ \overset{\cdot}{2}^{'}\right\}$	The fishing at this creek has been a failure for the year.
Loch Snizort Waternish					i	15	14 8	::	10	40 13	203 47	1 4	2 3	2	139 42		"	Off Dun- vegan.	924	284		:	1,615	**	{2	Herring fishing much lighter, slight decrease in shell fish.
Dunvegan		::]::		3	2		.:	12 16	31 30	110 53	8	8 9 1	1	67 71		11	Pooltiel and Bracadale.	608	263	152	156	309	,,	2	Considerable decrease in herring, improvement in other kinds, small decrease in shell fish.
Strathaird							l	l	10	10	21	4 3	6	1	20		} "	Lochs Sca- vaig, Slapin	1,550	561	598	434	239	Herrings, mac- kerel, shell,		General improvement in landings.
Lochs Slapin and Eyshort Isle of Soay'									6	7 8	10 12	. 3	6	2	22 16		Creels.	and Eyshort Inshore.					639	Lobsters.		Better landings of lobsters, value similar to last year.
		ļ	_	ļ			ļ.,	··-									1		30,678	19,439	8,191	6,419	6,771		12	
Totals -		1		18	3 1	58	81	4	194	352	1,265	52	145	26	*862											
Fort William District Loch Nevis and North Morar Mallaig and South Morar Arisaig and Loch Aylort Sunisary to Ockle Point Ockle Point to Loch Sunart Loch Sunart and Aline Loch Eil and Fort William North and South Corran Loch Leven and Kentallen Cuil, Appin and Creran Loch Etive and Coba						2 2 2 1 55	1 2 1 		2 2 4 4 21	2 10 3 8 5 23 1 2 2 12	5 60 7 23 10 34 2 4 8 8 85	1 1 1 1 1 6	3 		6 36 36 12 24 16 36 4 7 7 33		Lines. Nets, lines and creels Lines. Nets and lines. """ """ """ """ """ """	Loch Linnho	73,200 115 e. \} 14 43,311	81	59 83 305 444	109 20,906 55 105 139 390 7 15,160	1,080 549 182 12 62-	ling, eels, skate, etc. Haddocks, plaice, lobsters Cod, haddocks, plaice. Cod, saithe.		to reduced fleet at winter fishing and coal strike in early summer Increase in shell fish. Marked decrease in net-caugh cod. Slight decrease in lobsters. Decreases in quantity and value of white fish. Little fishing carried on. Do. do. Do. do.
Lismore Tobermory and Salen	::	::		::		2	1 2	1	1 3	2 8	4 14	1	7 3	.:	6 23		Lines.	and North of Ireland Loch Linnh Sound of Mull.			385	446	732	Saithe. Cod, haddocks eels, skate lobsters.	,	summer. Of no importance. Marked increase in lobsters.
Lochs Don, Spelve and Buie -	,.						1	l	2	3	6	1	3		io		22	Inshore.	25	22	1	86		Saithe.	-	Of little importance. Resulting similar to last year. Do, do.
Carsaig to Kintra Lochs Laich and Scriddan -									4	4	6	·:	3		10		Lines an	d ,,,	::	1 ::	183 63	77 57	41 60	Haddocks lobsters.	,	Do. do.
Ulva, Lochs Na Kael and			1						9	5 9	6 16	1	2	1	19 27		Creels.	,,				92	257	Lobsters.		Slight increase in number at value of lobsters. Increase in lobsters.
Tuadh Coll					1	1			5	7	32	1	9		23		Lines and creels.	Round island.	52			1				Slight increases in quantity as
Tiree						1	. 2	1	13	17	26	1	4	1	68		,,	• "	5€		425	1		Cod, haddocks	3,	value of white fish. Increases in quantity and value white fish.
Iona									1	1	2				4		Creels.	. "					388	lobsters. Lobsters.		Slight decrease in value of she
Canna			1 .		1				1	4	9				13		,,	,,					26	4 ,,		Increase in lobsters.
Totals		-	1 1		3	2	_	4	4	8 136	423	11	28		19				116,78	3 95,50	0 41,665	38,316	4,20	6	18	

^{*} Including \$09 crofter fishermen.

[†] Including 370 crofter fishermen.

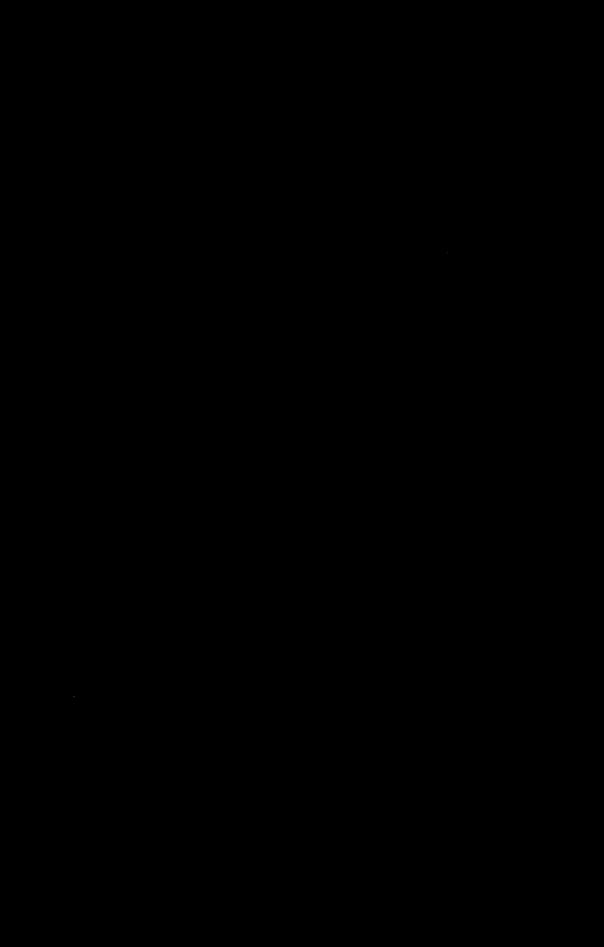


TABLE A. No. II.—continued.

															No. 11.—									
		Fisi	ing Bo	ATS A	ND VES	sels b	elong	ing to	Creek.			oats d.	Fishe and	rmen Boys,			QUANTI	FY AND V	ALUE OF	Fish L	ANDED.		Stations.	
STATION OR OREEK.	(Includ	1st Cla ling Steam	iss. n-Trawle	rs.)	2nd Class		3rd lass.		Total.	Inc	crease n or crease n 1920	vorthy Bo	arly yed.	ally ved.	Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herri	ngg	Other l	kinds	Value of	Principal kinds of Fish Landed.	Curing St	GENERAL REMARKS.
		et keel pwards.	30 to		18 to 3 feet kee		der 1 t keel	8		from	crease n 1920	Sea	Regularly Employed.	Parti					Shell F	rish).	Shell Fish.		No. of	
Campbeltown District.	Steam	Motor 8	Motor	Sail	Motor 8	ail Moi	or Sai	il No.	Ton.	No.	Ton.	No.	No.	No.			Cwts.	£	Cwts.	£	£			
Carradale and Torrisdale -			. 1		18	2		21	188	2	4	3	90		Seine nets.	Kilbrannan Sound,	5,581	2,217	87	31	32	Herrings and mackerel.	1	Decreases in herrings and mac- kerel, chiefly owing to poor
Campbeltown and Machrihanish.			. 3		58 1	2	2 3	78	622	2	25	6	309		Seine nets, lines, and creels.		83,899	43,638	3.638	3,972	. 482	Herrings, mack- erel, cod, whit- ings, haddocks and plaice.	6	summer fishing. Returns include herrings, etc. sold at sea. Considerable increase in herrings, owing to heavy winter fishing. After April herring fishing was very poor. Decreased returns from great and small line fishing:
Sanda			.		1	1		2	12	1	10	1	3		Creels and	Around the			3	3	93	Lobsters.		Increase in lobsters.
Southend					2	2		4	9				8		lines.	island. Along the			8	21	130	Cod and lob-		Considerable increase in lobsters.
Muasdale and Ballochantee -						1	3	4.	6				8		Creels.	coast.					386	sters. Lobsters.		Slight increase in number of lob-
Gigha	••				6	2	14	22	79	2	18	2	47		Drift nets, lines, and creels.	Around the island, and 1 to 5 miles S.W. from	32	22	1,096	1,096	747	Herrings, cod, and lobsters.	4	sters, decrease in value. Decreases in cod and herrings, increase in lobsters.
Port Ellen						7		7	12	1	1	1	16			Cara.	25	14	26	43	176	,,		Decreases in landings.
Portaskaig						7	1	11	26	1	3		28		Creels.	coast. Sound of					376	Lobsters.		Decrease in lobsters.
Portnahaven and Port Wemyss					1	0	12		25	8	14	5	40		Lines and creels.	Islay. 1 to 5 miles off Rhynns			193	155	46	Cod, saithe, and lobsters.		Slight increase in landings by line boats. Number of old unsea-
Bowmore						4	2	6	7				20		Drift nets	Light. Lochindaal.	57	41	176	447		Herrings, cod haddocks, and		worthy boats written off. Decrease in all fish landed.
Port Charlotte						4		4	7				10		,,,	***	32	27	102	179		plaice. Herrings, cod,		Landings similar to last year.
Bruichladdich						5		5	13			1	9		Drift nets,	,,	172	84	43	85	74	and flounders Herrings, cod flounders, and	,	Do.
Loch Gruinart]			i :		1	1				5		creels. Nets and lines.	Gruinart Bay.			1,120	132	201	lobsters. Saithe and un classified shell		Increase in landings.
Jura						2	4		10				8		Creels.	Around the island.	-,-				97	fish. Lobsters.		Number of lobsters similar but value less.
Colonsay							7	-	11	1	1	1	16		23	"					186	. "	11	
Totals	•••		4		88 6	2	2 46	202	1,028	_8	2	20	*617				89,798	46,043	6,492	6,164	3 026		- 11	
Inveraray District,																								_
Luing					1 4		26	31	50		. 3	4	21	10	Constant	Vioinite of	40	40			654	Herrings and	ı	Decrease in landings due chiefly
Crinan							1		7	1	1		5	4	drift nets	Vicinity of Luing. Vicinity of	1	40			290	lobsters.	1	to coal strike. Decrease in shell fish
Loch Kylesport					.		1	-	1	1			J		Creels.	Crinan.						oysters.	١	Of no importance.
Tarbert	.:				48		12	60	454	2	8	7	189	8	Seine nets and lines	Loch Fynd and Kil brannan	-	198	65	70	37	Herrings, cod and saithe.	, 2	Decrease in landings because more steamers buying at sea.
Ardrishaig					13 8		4	25	142	1	11	4	54	8	Seine nets	Sound.	5,131	1,460	139	185		Herring and	1 4	Slight decrease in landings, due to the poor winter and spring fishings.
Lochgilphead Castleton Lochgair Minard Crarae Furnace				::	2 3 4 2		1 2 2	3 2 6	21 19 2 40 13	 1 1	 3 	ï	11 12 4 21 8	3	and lines	s ,,	40	27	. 85	79		33		Slight decrease in landings. Lochgair and Furnace are of little importance.

^{*} Including 120 crofter fishermen.

		F	ishi	NG BO	ATS .	AND V	esse.	LS bel	ongin	g to	Creek.			oats d.	Fishe and E	
STATION OR CREEK.	(Inclu	1st ding St	Class	Trawle	rs.)	2n Cla		3r Cla		3	Total.	0	crease n or crease	Seaworthy Boats Unemployed.	Regularly Employed.	Partially
		feet kee upward		30 to		18 to feet 1		Und feet					m 1920.	S	Reg	Par
Inveraray District—contd.	Steam	Motor	Sail	Motor	Sail	Motor	Sail	Moto	Sail	No.	Ton.	No.	Ton.	No.	No.	No
Inveraray Cairndhu to Newton - Otter to Ardlamont -									2 1	4 2 1	4 1 1	1	2	2	3 3 2	3 2
Sold at sea	-														• •	
Totals -						73	15		56	144	757	1	9	18	*333	34
Rothesay District.																
Rothesay (Bute) - Port Bannatyne ,, -	:			1		6 2	1		9	16 6	63 8	1 1	2 5	5	18 6	8 2
St. Ninian's " -						3	1		6	10	33			2	8	3
Kilchattan Bay ,, -						2			4	6	21		••	2	5	E
Kyles of Bute (Argyll)						4	3	••	9	16	31			5	15	8
Toward to Holy Loch ,,						1	1	1	5	8	10	1	1	2	4	(
Blairmore to Loch Goil (Dumbartonshire	,						1		2	3	2			1	4	10
Kilcreggan to Arrochar (Dumbartonshire)						3	2	4	9	11	1	1	1	14	
Lochranza to Caticol (Arran) Pirnmill to Blackwater ,, Blackwater to Whiting Bay	-			·· 2		2 1			2	3	33 2	. 1	1	1	10 2	
(Arran Whiting Bay to Lamlash (Arran)								4	4	4			1	2	4
Totals -		<u></u>		3	•••	21	10	3	49	86	229		4	22	90	40
																,
Greenock District.																
areloch (Dumbartonshire) '						1		1	2	3	3	5			4
Ielensburgh ",						4			5	9	12	1	1	3	6	4
lasgow	*9			1				••		10	705	1	78		90	
Port Glasgow (Renfrewshire)					2			2	4	6	1	1	3	,	
reenock ,,	'				••	6	8	1	2	17	77	.1	1	5	13	7
Vemyss Bay ",								1		1	1				2	• •
łourock ",																
args (Ayrshire)						1		,	15	16	14	2	3	4	10	6
Cumbraes (Buteshire)						3			4	7	20	.4	5	1	6	e

* Including 7 crofter fishermen.

No. II.—continued.

		QUANT	TY AND	VALUE O	F Fish L	ANDED.		ations	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.	Other (exclusive)	ding	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Stations.	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
Drift nets	Upper Loch Fyne.	276	95	47	12		Herrings and mackerel.		Decrease in landings at Inveraray which are made chiefly by boat from other centres. The othe
Seine nets.	Loch Fyne.	91,852	41,794	1,265	567		19		creeks are of little importance. Thirteen steamers and one moto boat were employed buying and carrying fresh herring.
		98,124	43,614	1.601	913	981		8	
	Til-41		0.004	P.F.O.	741	10	Haminan and		
Nets and lines.	Firth of Clyde.	8,406	3,684	770	741 61	12 66	Herrings, cod, saithe, conger.	3	Marked decreases in herrings and white fish. Decrease in value of shell fish. Decrease in cod. Increase in
1,	S.E. from Bute.	10	7	199	258	13	Herrings, cod, mackerel.		value of shell fish. Marked decrease in herrings. Decrease in quantity but increase
,,,	Kyles of Bute.	165	. 74	305	432	197	Herrings, cod.		in value of white fish. Marked decreases in herrings an white fish. Increase in value of
,,	Off the coast.			182	346	101	Cod, plaice.		shell fish. Decrease in herrings and white fish Increase in value of shell fish.
} "	Lochs Long and Goil.	81	61	741	770	169	Herrings, cod, saithe.		Marked decrease in value of her rings. Decrease in quantity bu
} "	Firth of Clyde.	2,247	1,224	37	72		Herrings,		increase in value of white fish. Marked decreases in herrings and white fish.
, " ·	Off the coast.	223	214	47	77	361	Herrings, cod, lobsters.		Decrease in quantity of herrings Marked decrease in quantity an value of white fish. Increase in quantity but decrease in valu of lobsters.
		11,132	. 5.264	2,327	2,757	919		3	
Nets and lines.	The Gare- loch.		••	. 7	4	175	Mackerel and mussels.		Decrease in shell fish.
"	Firth of Clyde.	••		65	92	136	Cod and flounders.		Increase in shell fish, but decrease in other kinds.
Otter trawl, nets and	West Coast, Firth of Clyde.	2,572	741	202	478		Herrings and halibut.	24	Decided increase in total landing
lines. Nets and	Firth of			10	15		Codling.		A general decrease.
lines. Mussel dredge, nets and	Clyde.	705	424	12	20	- 310	Herrings and mussels.	2	Increase in landings of herrings but decrease of shell fish.
Nets and	"	••		156	196		Cod and		Slight increase in total landings.
lines.	***	358	83				whitings. Herrings		Herrings landed by boats from
Nets and	Firth of			264	366		Cod.		other districts. Decrease in landings.
lines.	Clyde.	50	31	233	432	. 10	,,		Decided decrease in herrings, but

TABLE A .-

					F	ISHI!	G Bo	ATS A	ND V	ESSE	LS belo	ngin	g to	Creek.			Soats ed.	Fishe and I	
STATION	or CRE	EK.		(Includ	1st (Class eam '	rawle	rs.)	2nd Class		3rd Clas		1	Cotal.	0	crease n or crease	Seaworthy Boats Unemployed.	Regularly Employed.	Partially
					eet keel ipward		30 to feet k		18 to feet k		Unde feet l				fron	n 1920.	Sea	Regu	Part
Greenock Di	strict— c	ontd.		Steam	Motor	Sail	Motor	Sail	Motor	Sail	Motor	Sail	No.	Ton.	No.	Ton.	No.	No.	N
airlie (A	yrshire)											5	5	4	1	••	4		
altcoats	1)	-	-						7	2		6	15	62	1	1	6	16	
rvine	,								3	2		2	7	31	1		2	8	
'roon	,,	-	-						1	6		1	8	25			5		
	Totals			*9	<u></u>		1		27	19	2	43	101	960	8	63	33	151	-
Ballantre	ie Distri	ct.																	
. y r		-	-						2	3		1	6	13	1	1	2	4	
unure -			-	••			7		9	8	• •		24	171	1	11	5	54	
aidens -									18	14			32	131	1	14	6	43	
irvan - arleton -		:	-						20	8	1	3	29	173 18	3	29	1	73	
allantrae			-						2	8		7	17	42	1	4	7	10	
airnryan		_							1	1			2	6	2	3		3	
tranraer - irkcolm -	: :	-	-	*2			6		15 3	5 1	1	12 5	41 9	366 17	5 3	23 1	8	66 6	
ortpatrick ort Logan			-							·i		5 6	.9	18 11	3 1	6 1	1 2	16	
rummore andhead -		-	-						5 2	4	2 2	9 10	20	62 17	2	3	4	24 10	
lenluce - ort William		:							1	1 2		6 13	14 7 16	7 29	2	2	3 2 3	6 12	
sle of Whitho	rn -		-						1	2		8	11	31	1	2	2	10	
arliestown reetown	: :	:	-		.:				::	2 2		3 6	5 8	10 11	2 2	2 3.	2	6	
irkcudbright ippford -			:					••		3	••	3	5 4	17 }		1		$\begin{cases} 4 \\ 6 \end{cases}$	
arsethorn										2			2	5					
lencaple nnan -	: :		-	*:			••			43	2	4	49	208		••	3	84	
	Totals			*2			10		0.4	110	9	100	909	1 071	10	EN	E0	445	
	T O OSFIE						13		84	113		102	323	1,371	10	57	56	445	-
Frand Totals	for 1921	-		‡1,214	541	193	353	58	936	1017	157	8 099	7568	106,058	245	1,634	667	†31 033	7
Frand Totals	for 1920			‡1,208	568	220	327	86	910	1118	142	3234	7813	107.692			760	† 323 33	6

^{*} Trawlers. † Including 9197 crofter fishermen in 1921 against 9829 in 1920. † 376 trawlers, 836 drifters or liners and 2 mussel dredgers against 354 trawlers, 852 drifters or liners and 2 mussel dredgers in 1920.

No. II. - continued.

		QUANTI	TY AND \	VALUE O	Fish L	ANDED.		Stations.	
Methods of Fishing pursued.	Position of Principal Fishing Grounds.	Herr	ings.	Other (exclusive)	ding	Value of Shell Fish.	Principal kinds of Fish Landed.	No. of Curing Sta	GENERAL REMARKS.
		Cwts.	£	Cwts.	£	£			
Nets and lines.	Firth of Clyde.	6,336	3,197	26	48	2	Herrings.	1	Increase in quantity of herrings but decrease in value. Decrease
Nets, lines	,,	311	247	26	47	331	Herrings and		in other kinds. Increase in herrings and lobsters
and creels. Nets and	,,	81	18	143	246		lobsters. Cod and		decrease in codlings. Decrease in herrings.
lines.	**	60	48	- 40	42	••	flounders Herrings and cod.		Slight increase in total landings.
		10,423	4,789	1,184	1,986	964	teath	27	
Nets and lines.	Off coast.	21,743	7,083	510	381		Herring.		Landings mostly by boats from other creeks. Increase in her rings, but decrease in other kinds
,,	Clyde area.	1,360	574	967	1 544	225	Herrings, whitings, and flounders.		Decrease in landings. When her ring fishing successful, landing are made at Ayr, owing to poo transport facilities locally.
} "	"	771 11,494	459 4,898	1,255 7,453	2,090 8,599	252	Herrings, cod, and flounders.	4	Do. do do. Increase in quantity but decrease in value of herrings, and, in les
Cod and trammel	Ballantrae - Bank.			292	252		Cod.		degree, of white fish. Creek continues to decline; only few of the older men fish durin
nets. Trammel a n d flounder nets and lines.	Loch Ryan, Ballantrae Bank and Luce Bay.	2,866	1,013	5,852 478	10 8,017 714	1,513	Herrings, flounders, cod, and eels.	{i	the spring with cod nets. Reduced landings at Stranrae owing to failure of herring fish ing in Loch Byan and on Ballan trae Bank, and to withdrawa of steam trawlers. The oyste beds were less productive. Land
Lines. Nets and	Off coast.	6 78	8 45	859	2,111	57 24	Cod. Lobsters.		ings at Kirkcolm were normal. Slight decrease in landings. Herrings were secured during July
Lines, and flounder nets and creels.		{ ::		1,381 270 347 519	1,640 410 499 714	1,094 80 18 137	Cod, flounders, and crabs.		Decrease in landings from Luc Bay, especially of cod and plaice perhaps because fewer strange boats operating. Increase in
Lines and nets.	Wigtown Bay.	{ ::		141	271 20	$116 \\ 127 $	Sparlings and mussels.		shell fish. Creeks on Wigtown Bay. Sligh falling off in shell fish; other
Mussel dredging	Solway Firth.	{ ::		118	378	313 J 271 } 343 }	Mussels and whelks.		wise little change. Shell fish mostly hand gathered and marketed for consumption rather than for bait. Result
Flounder	Estuary of	<i>{</i>		230	176	}	Flounders.		show a decided falling off. Nith Estuary; decline in quantit and value of landings.
) stakenets. Beamtrawl.	Nith. Solway Firth.			339 2,014	631 2,014	6,514	Flounders and shrimps.		and value of landings. An industrious and energetic community of fishermen. Little change in quantity of landings but substantial reduction in value.
		38,318	14,080	23,065	30,506	11,084		5	
		2,461,896	1,173 789	2.738,333	3,736,835	102,832		784	
		3,155,165	2,244 680	3 170,774	4 275,303	106,846		771	

TABLE A.—No. III.

MAXIMUM LOCAL ACTIVITY IN HERRING FISHING.—RETURN for the Year 1921, showing the number of Boats and Persons engaged in the Herring Fishing Industry in the various Districts in Scotland during the week of greatest activity.

in Scotland duri	Date.		o. of			No. of Persons Employed.							
DISTRICT.				†	,				g,				
District.	Week ending.	Steam.	Motor.	Sail.	Total.	Fishermen and Boys.	Curers and Bnyers.	Coopers.	Gutters, Packers, &	Labourers.	Total.		
Eyemouth,	Aug. 27	120	58		178	1,544	50	73	822	250	2,739		
Leith,	Feb. 12	2	101	20	123	443	15	10	80	48	596		
Anstruther,	Feb. 26	6	93	10	109	743	34	12		59	848		
Montrose,	Feb. 19			9	9	32	2			2	36		
Stonehaven,													
Aberdeen, :	July 16	8	1		9	80	9	3	201	35	328		
Peterhead,	July 30	74	60	3	137	1,213	96	228	1,265	236	3,038		
Fraserburgh,	Aug. 13	100	130	10	240	1,880	100	175	1,294	291	3,740		
Banff,	Aug. 13	12	30		42	308	7	17	119	15	466		
Buckie,	Aug. 13	22	17	4	43	362	7	32	112	21	534		
Findhorn,	Nov. 19		6	26	32	160	10	. 3	15	10	198		
Cromarty,	Oct. 15			2	2	8				6	14		
Helmsdale,	Aug. 20		7	1	8	32	1			4	37		
Lybster,	Sept. 3	•	6	8	14	59	2	2	18	2	83		
Wick,	Aug. 6	100	65	3	168	1, 3 85	60	240	950	85	2 ,720		
Orkney,	Aug. 6	50	30	9	89	738	10	46	243	54	1,091		
Shetland,	July 16	67	152	72	291	2,171	45	243	1,284	131	3,874		
Stornoway,	Jan. 15	100	14	19	133	1,131	21	35	325	110	1,622		
Barra,	Aug. 13	105	60	15	180	1,600	18	57	342	32	2,049		
Loch Broom,	Dec. 17	5	3	19	27	112		2		4	118		
Loch Carron and Skye,	Jan. 8	12	1		13	138	10	9	32	25	214		
Fort William,	Jan. 22	50	15		65	570	103	26	95	77	871		
Campbeltown,	Jan. 29		80		80	373	. 32	1	25				
Inveraray,	Dec 17	-	178		178	783	7	3	24	4	821		
Rothesay,	Nov. 26		12		12	60	4		18	12	94		
Greenock,	July 9				13	65	27	16	82	100	290		
Ballantrae,	Feb. 26		52		52	208	. 14	7	16	12	257		

TABLE B.—No. I.

FISH LANDED.—Statement of the Total Quantity and Value of Herrings taken by Steam, Motor, and Sailing Boats respectively and landed in Scotland during the various Seasons of the Year 1921.

				ı		inter. to 31st M	(ar.)			Early Sun (1st Apri 30th Ju	il to
No.	DISTRICT.	Stea	m. ,	Mot	or.	Sail		Тот	AL.	Steam	ı.
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
	EAST COAST.	Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Eyemouth Leith Anstruther Montrose Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhorn Cromarty Helmsdale Lybster	3,209 200 5,096 151 3,230 11,039 33,363 3,038 28,743 808	1,567 74 2,745 79 1,324 4,974 13,561 1,051 12,020 379	23,860 29,596 81,186 377 364 637 592 176	12,509 19,933 45,786 170 142 232 182 53	1,916 893 123 581 10	1,314 209 25 224 15	27,069 31,712 87,175 651 3,230 11,403 34,000 3,038 29,335 1,565 10	14,076 21,321 48,740 274 5,116 13,793 1,051 12,202 656 15	143 41 21 2,947 5,628 935 199 49	221 28 13 1,701 3,393 182 167 41
15	Wick	132,386	71,611	152,195	7,285 86,292	3,829	1,936	148,099 377,287	79,045 197,613	3,087 13,050	9,081
16 17	ORKNEY AND SHETLAND. Orkney Shetland	392 2,059	186 735	. 88	59		•	480 2,059	245 735	7 12,082	5 7,785
	Orkney and Shetland Totals	} 2,451	921	88	59			2,539	980	12,089	7,790
	WEST COAST.	·									
18 19 20 21 22 23 24 25 26 27	Stornoway . Barra Loch Broom Loch Carron&Skye Fort-William Campbeltown Inveraray . Rothesay . Greenock . Ballantrae .	49,887 32 14,252 57,511	26,819 9 11,401 42,716	3,423 231 42 1,064 6,386 44,530 1,799 3,049 413 13,575	1,604 56 16 671 5,226 21,410 1,493 1,927 248 4,484	4,979 160 612 958 56	2,130 72 291 365 18	58,289 423 654 16,274 63,953 44,530 1,799 3,049 413 13,799	30,553 137 307 12,437 47,960 21,410 1,493 1,927 248 4,548	3,549 210 286 	3,252 313 266
	West Coast Totals	121,906	81,009	74,512	37,135	6,765	2,876	203,183	121,020	4,045	3,831
	Grand Tis. for 1921 Grand Tis. for 1920	345,620 516,683	191,315 385,616	226,795 158,990	123,486 102,081	10,594 48,337	4,812 16,896	583,009 724,010	319,613 504,593	29,184 237,744	20,702 180,706
	Increase in 1921 . Decrease in 1921 .	171,063	194,301	67,805	21,405	37,743	12,084	141,001	184,980	208,560	160,004

TABLE B.—

No

FISH LANDED.—Statement of the Total Quantity and Value of Herrings during the various Seasons

			Ear (1	rly Summe st April to	er—continu 30th Jun	<i>ied.</i> e.)			Summer July to		
No.	DISTRICT.	Mot	or.	Sai	il.	Тота	ъ.	Steam	m.	Мо	tor.
		Quantity.	Value.	Quantity.	value.	Quantity.	Value.	Quantity,	Value.	Quantity.	Value.
	EAST COAST.	Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£
1 2 3 4 5 6 7 8 9 10	Eyemouth Leith	7,106 1,298 413 150 42 2,026 12,257 31,546 3,851 2,858 35	9,493 995 325 67 41 879 5,119 16,785 3,850 1,007	39 13 728 879	22 18 281 190	7,249 1,378 426 171 42 4,973 18,613 33,360 4,050 3,085 35	9,714 1,045 343 80 41 2,580 8,793 17,157 4,017 1,339 25	7,679 2,904 385 192 22,469 106,701 120,061 5,717 3,318 325	3,604 2,084 137 98 12,984 48,773 49,152 2,781 1,285 146	12,734 848 217 111 	6,259 608 74 54 178 28,932 67,734 5,981 1,266 389
12 13 14 15	Cromarty Helmsdale Lybster Wick	58 7 14,035	60 8 12,599	84 425	96 385	58 91 17,547	60 104 16,319	116,116	43,713	401 189 68,901	245 69 28,065
	East Coast Totals	75,632	51,253	2,346	1,283	91,078	61,617	385,867	164,757	324,350	139,854
16 17	ORKNEY AND SHETLAND. Orkney	707 5 7,84 5	330 30 , 75 2	658 44, 30 7	226 21,017	1,372 114,234	561 59,554	32,278 151,996	9,112 46,016	26,323 217,717	7,597 68,372
	Orkney and Shetland Totals	} 58,552	31,082	44,965	21,243	115,606	60,115	184,274	55,128	244,04 0	75,969
18 19 20 21 22 22 23 24 25 26 27	WEST COAST. Stornoway	4,720 4,892 119 1,323 12,208 20,972 12,317 1,543 3,435 22,553 84,080	4,098 5,507 71 1,380 15,882 7,314 6,400 699 1,804 7,975 51,130	5,066 2,332 244 132 577 3 189 110 4 8,657	4,239 2,634 129 52 620 2 118 79 3 7,876	13,335 7,434 363 1,455 13,069 20,972 12,320 1,732 3,545 22,557 96,782	11,589 8,454 200 1,432 16,768 7,314 6,402 817 1,883 7,978 62,837	36,486 48,590 140 2,667 26,099 721 114,703 684,844	21,031 48,379 40 953 21,668 247 92,318 312,203	8,598 11.546 647 6,895 13,397 24,035 83,770 6,127 5,744 1,886 162,645	7,434 10,838 249 3,374 8,941 17,167 35,638 2,311 2,411 1,510 89,873
	Grand Tls. for 1920	123,809	93,017	20,717	14,523	382,270	288,246	1,321,283	976,932	623,485	411,783
	Increase in 1921 . Decrease in 1921 .	94,505	40,448	35,251	15,879	78,804	103,677	6 36,4 39	664,729	107,550	106,087

No. I .- continued.

taken by Steam, Motor, and Sailing Boats respectively and landed in **Scotland** of the Year 1921.

Great S	ummer a 1st July	nd Autum to 31st De	n—contd.			TOTA	LS.			GRAND	TOTAL.	
Sai	1.	Тот	AL.	Stea	am.	Mot	or.	Sail				No
Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£	
132 2,583 5,197 172 340 4,307 38 4 294 3,220	1,077 1,875 116 722 17 2 131 957	20,413 3,884 602 303 22,963 172,844 284,904 18,653 6,724 6,151 38 405 483 188,237	9,863 2,758 211 152 13,162 78,752 118,761 8,817 2,667 1,257 1,7 247 200 72,735	11,031 3,145 5,481 364 28,646 123,368 154,359 8,954 32,110 1,133	5,392 2,186 2,882 190 16,009 57,140 62,895 3,999 13,346 525 	43,700 31,742 81,816 638 42 2,520 76,181 191,729 16,615 6,516 1,730 459 196 98,343	28,261 21,536 46,185 291 41 1,057 34,193 84,751 9,831 2,455 467 305 77 47,949	2,087 906 123 3,311 6,076 172 518 4,888 48 4378 3,951	1,402 227 25 1,358 2,065 55 407 946 32 2 227 1,491	54,731 36,974 88,203 1,125 42 31,168 202,860 352,164 25,741 39,144 7,751 48 463 574 353,883	33,653 25,124 49,294 506 41 17,066 92,691 149,711 13,885 16,208 1,938 32 307 304 168,099	
16,287	5,018	726,504	309,629	620,180	283,223	552,227	277,399	22,462	8,237	1,194,869	563,859	
10,787 104,559	2,967 27,786	69,388 474,272	19,676 142,174	32,677 166,137	9,303 54,536	27,118 275,562	7,986 99,124	11,445 148,866	3,193 48,803	71,240 590,565	20,482 202,463	
115,346	30,753	543,660	161,850	198,814	63,839	302,680	107,110	160,311	51,998	661,805	222,945	-
18,835 1,980 4,056 3,387 265 261 235 224	11,607 2,156 881 1,243 163 152 81 209	63,919 62,116 4,843 12,949 39,761 24,296 84,005 6,351 6,465 1,962	40,072 61,373 1,170 5,570 30,772 17,319 36,719 2,658 1,554	89,922 48,832 140 16,919 83,896 721 224	51,102 48,701 40 12,354 64,650 247 64	16,741 16,669 808 9,282 31,989 89,537 97,386 10,719 9,592 38,014	13,136 16,401 336 5,425 30,049 45,891 43,531 4,937 4,463 13,969	28,880 4,472 4,912 4,477 898 261 238 413 110 80	17,976 4,362 1,301 1,660 801 152 83 327 79 47	135,543 69,973 5,860 30,678 116,783 89,798 98,124 11,132 10,423 38,318	82,214 69,964 1,677 19,439 95,500 46,043 43,614 5,264 4,789	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
29,319	16,536	306,667	198,727	240,654	177,158	321,237	178,138	44,741	27,238	606,632	382,584	-
160,952 104,117	52,307 63,126	1,576,831 2,048,885	670,206	1,059,648 2,075,710	524,220 1,543,254	1,176,144 906,284		227,514	87,521 94,545	2,463,306	1,174,388	
		2,020,089	1,451,841	2,010,710	1,040,204		500,081	173,171	94,040	3,155,165	2,244,680	1
56,835	10,819	472,054	781,635	1,016,062	1,019,034	269,860		54,343	• • •			

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Eyemouth during the Year 1921, and showing the catch and value during the previous Year.

Method of Fishing.		No.ofVessels arriving Aggregate No. of Days absent from	Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats Sparlings	fackerel	Total of Pelagic Fish.	DEMERSAL FISH—	Cod	Ling Torsk (Tusk) Saithe (Coal Fish)	" Large
Trawls.	Steam.	L -	:	Quantity.	Cwt. 4		: :			14	:::	26
,				Value.	δ 3		: :	·		88	:::	
	Steam.	6.	•	Quantity.	Cwt. £		::				87 34	
				Sunav	Cwt	::	: :			191 561	200	. 3,581
T	Motor.	3,772	:	Value.	ئ ر 33		: :	: .		61 846 84 1,917		81 5,672
Lines.	Ŋ	ev,	•	Quantity.	Cwt.	::	: :	:		3:	:::	109
	Sail.	2,025		Value.	33	: :	::			181	:::	107
	Total.	5,806	:	Quantity.	Cwt.	: :	: :	:		2,115		3,690 5,779
	tal.			Value.	43	::	: :			1,037	300	5,779
	Steam.	475	:	Quantity.	Cwt.	11,031	308	11,339		::	:::	:
	'n.	10	•	Value.	द	42	72	5,464		::	:::	:
	Motor.	2,143	:	Quantity.	Cwt.		368	44,068		·::	:::	:
Nets.	or.	*eg		Value.	43	28,261	.6	28,353		::	:::	:
ø,	Sail.	:	:	Quantity.	Cwt.	::	::			::	:::	:
	•			Value.	લ્ફ	::	: :	:		::	::::	:
	Total.	2,618	:	Quantity.	Cwt.		919	55,407		::	:::	:
	ıl.			Value.	33		164	33,817		::	: . :	:
		1921.	and Value.		Cwt.	54,731	949	55,407		2,134	231	3,746
		JI.	alue.		43	33,653	164	33,817		1.063	300	5,863
		19	and		Cwt.	61,692	708	62,400		3,204	115	5,346
		1920.	and Value.	•	લ્ફ	45,490	552	46,042		4,104	140	9,318

Whitings Conser Fels	::	: :	: :	::	434	272	::	::	434 35	272 38	::	• :	: :	::	::	: :	: :	::	434	38	464	805
Gurnards	:	:	:	:	: 0	: F	:	:	ox:	:=	:	:		:	:	:	i	:	· «	÷	.6	37
Cathsh	:	:	:	:	0	=	:	:	0	=	:	:	:	:	:	:	:	:	0		3	5
Hake	: :	::	::	: :	::	: :	::	::	::	:,:	: :	: :	: :	: :	: :	::	: :	: :	: :	: :	: :	: :
Total of Round Fish .	68	135	253	314	6,649	8,954	340	288	7,242	9,556	:	:	:	:	:	:		:	7,331	169'6	999,6	15,192
FLAT.																						
Turbot .	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:0	:	:5	
Halibut Lemon Soles	:ო	· 6	9 .	24	ည်း	8 24	: :	: :	24 ro	24	::	: :	: :	: :	: :	: :	::	::	# œ	388	27.2	106
Flounders	:	:	:	:	:	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
riaice, Large.	4	80	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	4	00	23	65
Brill	• :	:	:	:	:"	:	:	:	:	:	:	:	:	:	:	:	:	:	:"	: "	: 40	:
Usos	:	:	:	:	-	9	:	:	4	2	: :	: :	: 1	: :	: :	: :	: :	: :	1 :	:	,	0
Megrims	: :	: :	::	: :	::-	: :	::	::	::	: :	: :	: :	: :	: :	: :	::	: :	::		::	: :	::-
Total of Flat Fish .	7	17	9	24	24	113	:	:	30	137	:	:		:	:	:	:	:	37	154	98	249
Skates and Rays .	:	:	48	88	569	515	:	:	617	553	:	:	:	:	:	:	:	:	617	553	52	7.1
Squids . Unclassified kinds .	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::
GRAND TOTALS	96	152	307	376	7,242	9,582	340	288	7,889	10,246	11,339	5,464	44,068	28,353		:	55,407	33,817	63,392	44,215	72,204	61,554
						Ī			02	SHELL-FISH.	FISH.											
			Oysters.	13. £	Z	Lobsters. No. £	4	Cra No.	g	3. E.	Mussels. Cwts.	sels.	O	Clams.	ધ્ય	Uncla Cwts	Unclassified. Owts. £	•		10 149		177.8
TOTAL VALUE OF ALL FISH Fish used for Manure (included above)	included	above)	:	:	·							:		 :	:	}	:		: : :	54,364	: : : :	70,325

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Leith during the Year 1921, and showing the catch and value during the previous Year.

		1920, Total Quantity and Value.		3 3	21,086 1,190 435 318	23,029	151,763 7,956 5,594 304,315
		1920. Total Qua and Valı		Cwt.	22,622 3,881 83 327	26,913	112,371 6,891 17 11,979 256,583
	-	1921. Total Quantity and Value.		3	25,124 3,376 202 1054	29,756	132,599 7,925 7 3,723 266,919
		19 Total Gand		Cwt.	36,974 32,883 48 1326	71,231	97,732 7,674 12 7,091 224,128
	Total.		Value.	47	23,043 3,376 202	26,621	981
	To		Quantity.	Cwt.	34,080 32,883 48	67,011	1,259
	Sail.		Value.	#	1,402 1,755 202	3,359	641
Nets.	SS	• •	Quantity.	Cwt.	2,087 20,756 48	22,891	997
	Motor.+		Value.	43	105 31742 21536 12127 1621 	23157	340
	Mot	•	.ViitasuQ	Cwt.	31742	43869	
	Şteam.		Value.	43		105	: : : :
_	St.		Quantity.	Cwt.	251	251	::::::
	Total.	: :	Value.	33	200	56	23,786 1,614 5 356 36,119
	To		Quantity.	Cwt.	:::	50	15,101 1,229 10 625 15,942
			Value.	43	: : : : : : : : : : : : : : : : : : :	35	1,831 10
Lines.	Sail.		Quantity.	Cwt.	: : :	31	1,341 6 1,274
	ī.		Value.	43	21	21	9214 ',095 269 3991
	Motor.	: : .	Quantity.	Cwt.	: : : 19	19	12200 19214 751 1,095 466 269 14658 33991
	m.		Value.	43	::::	:	2,741 509 57 87
	Steam.		Quantity.	Cwt.	::::	:	1,560 472 10 159 10
'ls.*	ım.		.aulsV	લ	2,081	3,079	107,832 6,311 2 3,367 230,800
Trawls.*	Steam.		. Vitimen Q	Cwt.	2,894	4,170	81,372 107,832 6,445 6,311 6,466 3,367 208,186 230,800
Method of Fishing.		No.of Vessels arriving Aggregate No. of Days absent from Port	Description of Fish.	PELAGIC FISH	Herrings Sprats Spatings Mackerel	Total of Pelagic Fish.	DEMERSAL FISH— ROUND. Cod Codling. Ling. Torsk (Tusk) Saithe (Coal Fish) Haddocks, ex. La. Large " Medium Small Small

27,460 204 905 6,538 3,754	508,598	7,675 3,964 21,834 1751	29,127	51 2,468 2,951 1,926	71,747	3,962 1 441	811,709	10,191 617,969 456 650
35,229 67 2,624 6,357 3,314	435,532	2,607 1,091 5,828 827	11,033	35 4,480 1,353 926	28,180	7,851 2 752	499,230	.: 7,125 3,399
25,060 178 973 7,882 4,749	450,074	6,286 2,632 23,485 2,314	30,954	93 2,631 4,751 2,389	75,535	4,829 7 506	560,707	6468 567,175 1,282 1,87
34,828 60 2,864 7,276 4,653	386,370	1,895 632 6,592 1,154	11,221	29 5,021 2,093 1,200	29,837	9,480 12 827	497,757	 21,756 575
83 .:. 1,206 .:	2,279	 1,211	5,881	::::	7,092	21 ::	36,013	ied. £ 215
19 19 827 	2,124	.:	2,954	: : : :	3,674	42	72,851	Unclassified. Cwts. £ 945 . 21(
©.80°. ∴ : : :	733	. :	5	::::	64	:::	4,156	06
19	1,035	: :: 69	4	::::	73	:::	23,999	Clams. £ 592
827 1206	1089 1546		2950 5876	::::	3601 7028	42 21	48601 31752	Cl. Cl. 7,269
	:	: : : :	Si .		36	:::	105 48	}
		. ::::	:	::::	:		251 10	nssej
198 94 395	62,567	709 21 183	2,878	112	3,903	1,415	67,975	SHELL-FUSH. \$ Cwts. 3,317 4,515
137 39 331	33,414	143 7 123	1,132	ii6 	1,521	1,946	36,954	SHEL 5
98 8. : :	4,226	::08	355	:6 ::	505	4 :24	4,794	Crabs. No. 387,820
. : vi : :	2,778	23	207	:66 : ;	332	.: 16	3,159	2,900
305	54984	315 12 134	2,523	: 50	3,004	1,161 i.	59180	Lobsters.
27.2	284225	61 94	925	: 53	1,107	1,500 1	310555	Lob No. 62,055
::: 4 ::	3,357	394	:	::::	394	250	4,001	
:: ^{co} ::	2,214	:8 : :	:	::::	82	444 : :	2,740	Oysters. No.
24,853 1 973 6,281 4,749	385,228	6,286 1,923 23,464 920	22,195	93 2,519 4,751 2,389	64,540	3,393 7 472	456,719	
34,672 2 2,864 6,118 4,653 4,653	350,832	1,895 489 6,585 311	7,135	2,093 1,200	24,642	7,49 2 12 804	387,952	included a
Whitings Conger Eels Gunards Catfish Monks (Anglers)	Total of Round Fish .	FLAT. Turbot Halibut Lemon Soles Flounders Plaice, Large	" Medium	Brill Dabs Whitches Megrins	Total of Flat Fish .	Skates and Rays . Squids . Unclassified kinds .	GRAND TOTALS .	TOTAL VALUE OF ALL FISH Fish used for Manure (included above) """ """ """ """ """ """ """ """ """ "

* Included are landings by motor trawlers totalling 320 cwts., valued at £619, mostly haddocks and codling.

† Included are 2116 landings by flounder seine net vessels totalling 4168 cwts., valued at £7760, mostly plaice, and 1 landing by a Danish seine net vessel of 30 cwts. plaice, valued at £666.

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Anstruther during the Year 1921, and showing the catch and value during the previous Year.

		1920. Total Quantify and Value.	•	t.	81 1 9, 200 54 953 09 327 60 10	04 20,490	945 17,267 106 182 115 97 510 24,030
_			•	Cwt.	24,381 9,954 109 60	34,504	11,
		21. nantity alue.		વર	49,294 160 462 1	49,917	8,053 10,484 62 93 41 24,243
		1921. Total Quantity and Value.		Cwt.	88,203 1,600 154	89,959	8,053 62 . 41 12,712
	al.	75	.eulaV	49	49,225 160 462	49,847	1,663
	Total.	7,275	Quantity.	Cwt.	88,148 1,600 154	89,902	1,199
	-		Value.	બ	209 160 462	831	34
Nets.	Sail.	556	Quantity.	Cwt.	893 1,600 154	2,647	ed : : : :
ž	Motor.*	. 31	Value.	43	46,134	46,134	1,618
	Mot	6,521	Quantity.	Cwt.	81,774	81,774	1,169
	m.	~	Value.	બ	2,882	2,882	F ::: :
	Steam.	198	Quantity.	Cwt.	5,481	5,481	::: :
	al.	. 883	·9nlæV	33	69 : :	, 10	8,821 93 '24 24,243
	Total.	13,083	Quantity.	Cwt.		57	6,854 62 41 41
		6	Value.	લા	18	19	1,971
Lines.	Sail.	5,069	Quantity.	Cwt.	13	15	1,727
	tor.		Value.	43	51	51	77 6,666 11 48 25 16
	Motor.	6,7	Quantity.	Cwt.		42	4,997 31 25 10,904
	Steam.	. 23	Value.	43		:	184 45 8 :
	Ste		Quantity.	Cwt.	::::	:	130 31 16
Trawls.	Steam.		Value.	43	::::	:	: ::: :
Tra	Ste	•	Quantity.	Cwt.		:	: ::: ::
Method of Fishing.		No.of Vessels arriving Aggregate No. of Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats Sparlings Mackerel	Total of Pelagic Fish.	DEMERSAL FISH— ROUND. Cod Codling Ling Torsk (Tusk) Saithe (Coal Fish) Haddocks, ex. La. "Medium" Small Small

35	010		67	548	9	·4 · ·	62	79	3	စ္စက္
	392	:	42,012	 65 227 1,160	2,736		4,232	3. · ·	66,813	8,316 75,129 953
:88	278 15	:	26,002	.: 14 69 808	1,279	: ^{&} : :	2,200	65 ::	62,771	9,954
39	131	:	35,056	104 227 271	9,265	: 4::	9,871	100	94,944	8,133 103,077 160
31	164	:	21,172	78 139	6,061	: ::	6,304	103	117,538 94,944	1,600
: -:	; : :	:	1,663	2538	7,860	::::	8,098	:::	59,608	126 126
::	:::	:	1,199	:: 611	5,457	::::	5,576	:::	96,677	Unclassified. Cwts. £ 318 126
; :	. : :	:	34	238	107	::::	345	:::	1,210	
::	:::	:	23		52	::::	171	:::	2,841	Clams.
::	:::	:	1,618	::::	7,753	::::	7,753	· : : :	55,505	Owts
::	:::	:	1,169	::::	5,405	::::	5,405	:::	88,348	3.88.5 3.835
::	:::	:	11	::::	:	::::	:	:::	2,893	FISH. Mussels. Cwts. 52,442 3,8
::	:::	:	7	::::	:	::::	:	:::	5,488	SHELL-FISH M. £ Cwts 1,874 52,44
39	131	:	33,393	.: 104 227 33	1,405	: 4 : :	1,773	100	35,336	sqs.
31	164	:	19,973	78 20	604	: : :	728	103	20,861	Cr. 240,536
4:	: 13	:	4,966	: : .88	1,027	:4 ::	1,064	: : :	6,049	ers. 2,298
6:	: ::	:	3,557	: : :8	393	: : :	415	:::	3,987	Lobsters. No. 51,079 2,
34	ii9	:	28,185	 522 227	378	::::	657	8 ; ;	28,961	
88	151	:	16,236	:12 21 78 :	211	::::	301	73 : :	16,652	Oysters.
. 2	:::	:	242	52: :	:	::::	52	33	326	Q. S
:"	:::	:	180	12	.:	::::	12	೯ : :	222	92
::	:::	:	:	::::	:	::::	:	:::	:	ed abo
::	:::	:	:	::::	:	::::	:	1:::	:	71SH (include
Whitings Conger Eels	Gurnards Catfish Monks (Anglers)	Hake	Total of Round Fish .	FLAT. Turbot Halibut Lemon Soles	Flaice, Large	Brill	Total of Flat Fish	Skates and Rays . Squids Unclassified kinds .	GRAND TOTALS .	TOTAL VALUE OF ALL FISH . Pish used for Manure (included above) Bait (,,).

* Included are 1,587 landings by flounder seine net vessels totalling 4,622 cwts. plaice, valued at £6,133.

'FABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Montrose during the Year 1921, and showing the catch and value during the previous Year.

		1920. otal Quantity and Value.		93	1,652	:01	2,659		52,900	1,096	98,203
		1920. Total Quantity and Value.		Cwt.	1,201	.:	17,299		35,109	490	096'09
				g	506	276	1,257		59,224	1,163	
		1921. Total Quantity and Value.		Cwt.	1,125	456	6,443		38,733	541	61,921
	al.		Value.	43	506 475	:24	1,005		6,772	:::	:
	Total.	5,544	Quantity	Cwt.	1,125	.41	6,027		4,684	:::	:
	Sail.	7	Value.	43	475	::	200		18	:::	:
Nets.	Sa	141	Quantity.	Cwt.	123 4,861	: :	4,984		12	:::	:
-	Motor.‡	97	Value.	ભ	291	24	315		6,754	:::	:
	Mot	5,897	Quantity.	Cwt.	638	:4	629		4,672 6,754	:::	:
	Steam.		Value.	est	190	::	190		:	: : :	:
	Stee	9	Quantity.	Cwt.	364	::	364		:	:::	:
	-	24	Value.	33	::	208	208		28,582	521 4 140	45,682
	Total.	13,424	Quantity.	Cwt.	::	397	397		20,591	278 7 323	25,504
		00	Value,	બ		195	195		578	: : 42	184
. 68.	Sail.	1,698	Quantity.	Cwt.		374	374		514	. :	140
Lines.	or.	92	Value.	F	: :	13	13		26,805	511	45,498
	Motor.	11,676	Quantity	Cwt.	::	.53	23			129	25,364
	· i		Value.	ભ	::	::	:		-	310	:
	Steam.	22 :	Quantity.	Cwt.	: :	::	:			16 9	:
rls.	m.*	948 531	Value.	વ	::	4	44		7,726	267	7,645 5,288 28,823
Trawls.	Steam.*	948	Quantity.	Cwt.	::	18	18		3,201	268	3,539 2,884 29,928
Method of Fishing.		No.ofVessels arriving Aggregate No. of Days absent from Port	Description of Fisb.	PELAGIC FISH-	Herrings Sprats Sparlings	Mackerel	Total of Pelagic Fish	DEMERSAL FISH-ROUND.		Ling Torsk (Tusk) Saithe (Coal Fish)	

5,318 14 167 2,264 602 14	161,096	1,699 726 11,279 76	23,502	959 358 367	38,966	7.06	203,628	6,348 209,976 1,387
6,513 7 357 1,633 268 6	106,036	450 145 2,464 53	8,622	917 105 123	12,879	1,244	137,458	14,718
7,479 114 289 1,914 839	159,015	1,971 885 14,673 107	32,845	1,154 383 99	52,121	1,288	213,681	4,656 218,337 538 272
11,157 112 649 1,325 362	115,428	490 176 2,945 119	14,805	1,568 1,218 36	20,261	1,828	32.326143,959	5,763 334
:::::	6,772	:	23,844	645	24,546	e : :	32.326	
:::::	4,684	: : :69	12,094	1,111	13,275	es : :	23,989	Unclassified. Cwts. \$\mathcal{\mathcal{E}}\$ 1,265 323
:::::	18	::::	5	::::	5	:::	523	Unc Cwts 1,265
:::::	12	::::	က	::::	60	:::	4,999	• · · · · · · · · · · · · · · · · · · ·
::::::	6,754		12,048 23,763	641	13,223 24,461	m : :	18,577 31,533	Clarms.
::::::	4,672	. :::69		1,105	13,223	es : :	18,577	Cwts
	:	::::	92	: ::	88	:::	270	3 3 3 3 3 3 3 3 3 3
:::::	:	::::	43	: ::	. 49	:::	413	issel
2,854 114 .:. 444 	78,342	7 677 207 54	117	ii9 	1,181	532	80,263	SHELL-FISH # Cwis 0.004 15,98
5,233 112 307 	52,351	2 146 39 50	64	7.	375	582	53,705	
:::::	786	:::4	16	35	153	:::	1,134	Crabs. No. 128,791 1
:::::	709	: : :4	48	34	126	:::	1,209	
2,854 108 444 	75,985	7 377 207 9	41	:8 : :	728	307	77,033	Lobsters. 8
5,233 109 307 1	50,649	88 89 6	16	:4 : :	192	322	51,186	15,6
: 9 : : : :	1,571	300	:	: : : :	300	225	2,096	
. : : : : :	993	.: 57	: - ! -	::::	57	260	1,310	Oysters.
4,625 289 1,470 838	73,901	1,964 208 14,466	1,590	383 383 98	26,394	753	101,092	
5,924 649 1,018 361	58,393	488 30 2,906	1,558 556 1	383 121 36	6,611	1,243	66,265	'ISH included
Whitings Conger Eels Gurnards Catfish Monks (Anglers)	Total of Round Fish.	FLAT. Turbot Halibut Lemon Soles	Flaice, Large.	Brill Small Dabs	Total of Flat Fish .	Skates and Rays . Squids . Unclassified kinds	GRAND TOTALS .	Total Value of all Fish Fish used for Manure (included above) , , , Bait (, , , ,)

* Included is one landing by a motor trawler, absent from port one day, totalling 5 cwts.. valued at £4, mostly haddocks.

† Included are 2 landings by Danish seine net vessels totalling 49 cwts., valued at £80, mostly plaice.

‡ 3,703 , founder , 13,229 , £24,469, mostly plaice (sail: 2 landings, 3 cwts., £5; balance motor).

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Stonehaven during the Year 1921, and showing the catch and value during the previous Year.

Total. 163 1921. 163 1921. Total. Cwantity and Value. 5 Cwt. £ 42 41 42 41 208 118 180 180 180 180 180 180 180 180 180

784	:	:	:	:	:	14,231		:	.0	:	719	53	:	:	740	:	: :	15,963			2	17, 503
									.0		258				332			1 8				17
1,885						12,409				_								14,074			G	· · · ·
1,398	:	:	:	:	:	15,697		:	: 16	:	442	. 32	:	:	493	6.7	::	16,351			00	18,233
4,865	:	:	:	:	:	16,144		:	19	:	159	55	:	:	233	အ	::	16,630				::::
:	:	:	:		:	5		:	:-	:	442	50	:	:	463	:	: :	509				
:	:	:	:	:	:	9		:	:	:	159	.31	:	:	191	:	::	239			fled.	:
:	:	:	:	:	:	:		:	:	: :	:	::	:	:	:	:	: :	:			Unclassified. Cwts.	:
:	:	:	:	:	:	:		:	:	: :	:	::	:	:	:	:	: :	:			Þó	
:	:	:	:	:	:	20		:	:-	· :	442	.50	:	:	463	:	: :	509			6 3	:
		_	_	_		9	 			1 .	159	.:									Clams.	
:	:	:	:	:	:			:	:	:	15	: 0.3	:	:	191	:	::	239			ర్	•
:	:	:	:	:	:	:		:	:	: :	:	::	:	:	:	:	::	:			 43	: .
:	:	:	:	:	:	:		:	:	: :	:	::	:	:	:	:	::	:			Mussels. Cwts.	
1,398	:	:	:	:	:	7,695		:	α	2 :	:	.12	:	:	30	6.1	::	15,842		FISH	Ó	
4,865 1,	-	:	-	_	:	16,138 15,692	<u> </u>		. 🗷		:	.54	:	:	42	က	::	16,391		SHELL-FISH	43 8	600 , 1
88 4,		_					<u> </u> 					:=				 .		1	<u> </u> 	SI	Crabs.	· · ·
	•	_	_	_	•	3 1,298	<u> </u> 	•	•		•		•	-	55	.		6 1,421				
0) 200	:	:	_	-	:	1,313		:	:	: :	:	:01	:	:		:	::	1,526			Lobsters.	017
4,665 1,310	:	:	:	:	-	14825 14394	_	:	: 0			:63	:	:	0 19	3	: :	14865 14421			Lobste No.	8
4,66	•	: _	_	_	-	1485		-	• 00	7 :	- :		:	:	8	1	: :	1486			~Z;	4.
:	:	:	:	:	:	:		:	:	: :	:	::	:	:	:	:	: :	:			48	
:	:	:	:	:	:	:		•	:	: :	: :	::	:	:	:	:	::	:			Oysters. No.	
:	:				:	:			:	: :	: :	::		:	:	:	::	:			Z	• • • • • • • • • • • • • • • • • • • •
						-	<u> </u>						_									ароте
:	:				: :	:		:	:	: :	: :	::	:	:	:	:	::	:				rsH ncluded ",
Whitings	Conger Fels	Gurnards	Catfieh	Monks (Anolers)	Hake	Total of Round Fish .	FLAT.	Turbot	Halibut	Flounders .	Plaice, Large	Brill Dabs	Whitches	Megrims	Total of Flat Fish .	Skates and Rays	Squias Unclassified kinds	GRAND TOTALS .				TOTAL VALUE OF ALL FISH Fish used for Manure (included above "Balt",")

 $\bar{\mathbf{M}}$

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Aberdeen during the Year 1921, and showing the catch and value during the previous Year.

		.0.	nantity alue.		£	71,114	1,487	72,601	451,732 377,056 96,557 8,917 80,641 80,641 80,641 80,154
		1920.	Total Quantity and Value.		Cwt.	84,356	1,828	86,184	333,180 293,419 10,228 12,471 51,471 288,065
			alue.		ધર	17,066		18,585	385,211 298,204 14,826 44,826 44,831 23,917 349,037 105,938
		1921.	Total Quantity and Value.		Cwt.	31,166	2,097	33,263	204,545 211,303 128,193 15,448 87,351 16,615 180,151
	al.	90		Value.	43	7,440		7,509	183 379 80 755 217
	Total.	1,380		Quantity.	Cwt.	16,009	133	16,142	155 240 33 429 137
	Sail.			Value.	વર	:	:::	:	:::::::
Nets.	S.	•		Quantity.	Cwt.	:	:::	:	:::::::
	or.†	1,119		Value.	વર	1057	:::	1057	
	Motor.†	1,	•	Quantity	Cwt.	2520	:::	2520	175
	n.†	11		Value.	બા	6,383 2520 1057	69	6,452	148 81 80 753 217
	Steam.†	261	·	Quantity.	Cwt.	13,489	133	13,622	137 65 33 428 137
	al.	87		Value.	ઝ	: :	175	175	63,225 14,595 55,316 1,599 1,599 1,160 6,304 1,175
	Total	5,787		Quantity.	Cwt.	: :	172	172	43,593 111,772 80,980 14,197 3,220 878 3,088 3,088
	11.	68	•	Value.	સ	: :	169	169	989.1 1 988.7
Lines.	Sail.	1,809	•	Quantity.	Cwt.	: :	162	162	541 541 733 733 658
1	Motor.	2,599		Value.	43	: :	;	9	8942 1269 701 292 292 236 236
	Mo	<u>01</u>	·	Quantity.	Cwt.	: :	:9	100	4030 8942 797 1269 563 701 463 292 1 1 3086 6300 1546 1597
	Steam.	1,379	13,982	Value.	3	:	: : :	:	54,276 12,358 54,615 13,677 1,506
	Ste	1,5	13,	Quantity.	Cwt.	: :			39,558 10,434 10,434 14,197 2,756 877
Trawls.	Steam.*	9,196	47,456	Value.	લ્ફ	9,626	1,275	106,01	271,803 283,230 34,967 1,149 42,632 22,677 341,978 149,546
Tr	Ste		47,	Quantity.	Cwt.	15,157	1,792	16,949	160,797 199,291 47,219 1,251 84,131 14,704 176,634 90,514
Method of Fishing.		No. of Vessels arriving Aggregate No. of	Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Sparlings Mackerel	Total of Pelagic Fish .	DEMERSAL FISH— ROUND. Cod

86,813 1,085 570 7,178 8,056 33,034	2,117,977	16,318 336,434 103,344 14,533 16,546 16,803 1,580 2,212 2,212 2,31797	687,549	58,266 23 1,113	2,937,529	2,9 37,810
99,617 1,198 1,896 12,807 14,710	1,766,857	4,733 70,643 24,318 31,4900 4,900 7,932 7,932 7,932 1,532 10,328	172,627	99,443 48 2,518	2,127,677	11,346
92,118 518 450 7,510 8,990 45,943	1,656,727	18,811 317,473 135,922 19,198 129,055 12,505 1,503 1,503 1,817 9,737 21,832	669,192	86,956 84 1,509	2,433,053	302 2,433,355 17
106,402 919 2,338 12,322 20,726 22,877	1,330,701	5,375 71,624 30,653 30,653 5,706 4,577 4,715 9,606	161,536	140,019 292 4,292	1,670,103	 6,820 20
. 12 12 16	1,858	17,474 1,474 1,006 9,233 1,542 1,542 1,242 314	14,073	148	23,591	. , .
889 1 44	1,330	7 429 429 357 2,327 768 118	4,541	328	22,346	fled.
::::::	:	::;::::::	:	:::	:	Unclassified Cwts.
:::::	:	:::::::::	:	:::	:	
	350	 5691 720 6 394	6813	- : :	8221	ભા : જ
: : : : : :	202	 4445 476 999 399	2330	2	5054	Clams.
. 12 16 16	1,508	17,472 1,472 1,006 3,542 822 822 822 823 314	7,260 2330	147	15,370 5054	
8 :88 144 2	1,128	292 292 292 292 293 168 188	2,211	326	17,292	Mussels.
4,323 266 . 75 2 501	164,371	281,798	281,933	55,674	502,943	
5,513 334	167,106	13 64,864 16 	64,925	88,996 2,220	323,419	SHELL-FISH abs. £ 242
691	3,166		9	:::	3,341	SHE Crabs. No. 15,104
908	2,842	:::::::::::::::::::::::::::::::::::::::	3	:::	3,007	Z
	2.970	27	1153	3020	27,149	°e 0°
4611 3632	15,292 2	8 27 191 1045 	244 1153	4741	20,289	Lobsters, \$60
. 75	138,235	64,673 280,753	280,774	52,654 4741 3020 .790 .2	472,453	No. 684
	148,972		64,678	84,255	300,123	લક
87,790 252 468 7,434 8,972 45,441	1,490,498 148,972 138,235 15,282 22.970	18,746 35,667 134,448 18,192 119,765 12,212 1,581 1,581 1,581 1,581 1,581 1,581 1,581 1,581 1,581 1,581 1,581 1,581 1,581	373,186	31,134 84 716	1,906,519 300,123 472,453 20,289 27,149	Oysters. No.
100,881 585 2,270 12,181 20,681 22,617	1,162,265	5,355 6,754 30,754 30,754 5,254 3,869 1,600 1,600 1,547 9,588	92,070	50,695 292 2,067	1,324,338	. YsH included a
Whitings Conger Eels . Gurnards . Gatrish. Monks (Anglers) . Hake	Total of Round Fish .	FLAT. Turbot Halibut Lemon Soles. Flounders Plaice, Large " Small Brill Dals Whitches Whitches	Total of Flat Fish .	Skates and Rays . Squids Unclassified kinds	GRAND TOTALS .	Oys No. TOTAL VALUE OF ALL FISH Fish used for Manure (included above) " Bait (")

* Included are 3 landings by motor trawlers, representing an aggregate absence from port of 16 days, and totalling 87 cwts., valued at £307, mostly plaice and haddocks.

† Included are 84 landings by steam and 5 by motor vessels using Danish seine nets totalling 3,608 cwts. (mostly plaice and haddocks), valued at £5,894 (steam 3,583 cwts., £8,833; motor 25 cwts., £61), and 1,086 landings by motor vessels using flounder seine nets totalling 2,503 cwts. (mostly plaice), valued at £7,103. Landed by English vessels (included above), 36,135 cwts., valued at £58,618.

" F92,776 (for particulars see pp. 116-117).

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Peterhead during the Year 1921, and showing the catch and value during the previous Year.

								,	
		1920.	uantity alue.		43	285,884	1,765	287,649	2,421 13,865 479 30 445 2,748 1,378
		61	Total Quantity and Value.		Cwt.	367,033	4,023	371,056	1,848 10,428 424 424 555 619 1,894 993
		1921.	Total Quantity and Value.		લ	92,691	2,363	95,054	2,038 15,487 350 180 180 687 687 2,478
		18	Total Quant and Value.		Cwt.	202,860	7,033	209,893	1,407 11,116 288 19 1,256
	Total.	4,575		Value.	લ	92,691	2,099	94,790	115 330
	To	4,6		Quantity.	Cwt.	202,860	6,686	209,546	70 239
	Sail.	132		Value.	લ	1,358	:29	1,387	48
Nets.	Sa			Quantity.	Cwt.	3,311	. 84	3,395	42
~	Motor.	2,304		Value.	ಈ	34,193		35,180	81 288
	Mc	ભા	•	Quantity.	Cwt.	76,181	2,824	79,005	46
	Steam.	2,139	:	Value,	ધ	57,140	1,083	58,223	:::::::
	Ste	ez,		Quantity.	Cwt.	123,368	3,778	127,146	:::::::
	Total.	60		.9ulaV	43	::	264	264	1,697 14,885 350 18 657 539 2,362
	To	11,009	•	Quantity.	Cwt.	::	347	347	1,199 10,671 288 19 1,211 1,211 292 1,506
	Sail.	7,256		Value.	લ	::	175	175	229 7,858 331 331 877
Lines.	Ñ	7,5		Quantity.	Cwt.	. :	236	236	5,605 5,605 1 504 504
	Motor.	3,718	:	Value.	લા	::		68	173 308 1 5065 7,026 1 7 31 50 3 7 5 3 195 153 289 535 967 1485
	×	0,5		Quantity.	Cwt.	::	:=	1=	173 5065 31 7 195 289 967
-	Steam.	35	:	γslue.	43	::	:::	:	29,11
	δΩ			.VaitansuQ	Cwt.	: :		:	906 12 126 127 512
Trawls.	Steam.*	874	:	Value.	43	: :	:::		226 272 :: 30 :: 80 116
1	St			Quantity.	Cwt.	: :	:::	:	138 206 352 384 3852 3862 3862 3862 3862 3862 3862 3862 386
Method of Fishing.		No.ofVessels arriving	Days absent from Port	Description of Fish.	PELAGIC FISH.	Herrings	Sparlings Mackerel	Total of Pelagic Fish.	DEMERSAL FISH— ROUND. Cod Codling Ling Torsk (Tusk) Saithe (Coal Fish) Haddocks, ex. Large "Medium. Regium. Smedium.

349 10 19 69 3	22,427	16 1,895 3,416 4,620 3,876 476 222 529 7	11,879	90	322,867	163 323,030
538 6 80 80 3	17,371	2 403 76 11,497 11,456 286 286 286 286	4,226	925	393,641	::::
816 38 6	23,067	4 711 120 126 354 5,691 215 	7,554	. 22	126,160	765 126,925
1,101	17,653	146 25 26 96 1,593 1,593 1.243	2,295	481	230,331	::::
:::::	445	38 98 1,223 11 11	1,295	:::	96,530	
:::::	309		456	:::	210,311	. · · · લ્સ ·
::::::	76	:::::::::	:	:::	1,463	Unclassified.
::::::	49	:::::::::::::::::::::::::::::::::::::::	:	:::	3,444	Control Control
: : : : .	369	38 38 1,223 11	1,295	:::	36,844	• • • • • • • • • • • • • • • • • • •
: : : : : :	260		456	:::	79,721	Clams.
::::::	:	:::::::::::::::::::::::::::::::::::::::	:	;:::	58,223	to 10
:::::	:	*::::::::::::::::::::::::::::::::::::::	:	:::	127,146	SH. Mussels. 748. 6392 635
779 38 	21,773	704 86 15 351 283	1,439	452	23,943	SHELL-FISH. Mu Couts. 12 6,692
1,047	16,672	145 66 5 118 211	545	470 	18,040	
433	768,6		256	:::	10,328	Crabs. No. 1,100
506	7,416	:::80::8:::	172	:::	7,824	
346	10,229	58 9 284 	537	es : :	7946 10,888	Lobsters. \$ 105 218
541 32 	7565	.: 98 98 1119	240	<u>0</u> € : :	946	Lob No. 3,105
:es : : :	1,647		646	419	2,727	
:4 : : : :	1,691	133	133	440	2,270	£
£	849	4 120 2 2 333 4,117 204 	4,820	11 : 12	5,687	Oysters. No. 1
4. · · · · · ·	672	22 82	1294	11 :8	1980	includ
Whitings Conger Eels Gurnards Catfish Monks (Anglers)	Total of Round Fish.	FLAT. Turbot Halibut Lemon Soles Flounders Flounders Plaice, Large ", Medium Brill Brill Dabs Whitches Megrims	at Fish	Skates and Rays . Squids . Unclassified kinds	GRAND TOTALS . 1	Oysters. No. TOTAL VALUE OF ALL FISH Fish used for Manure (included above) "Bait (' ')

* Included are 845 landings by motor trawlers, representing an aggregate absence from port of 845 days, and totalling 1,127 cwts., valued at £4148, mostly plaice.

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Fraserburgh during the Year 1921, and showing the catch and value during the previous Year.

Method of Fishing.	Trawls.	200			Lines.	ŝ						Z	Nets.							
	Steam.*		Steam.	Motor.		Sail.	Total.	al.	Steam.	m.	Motor.	or.	Sail.	-	Total.	al.				
No.of Vessels arriving Aggregate No. of	15		30	6,950		6,441	13,421	21	2,205	22	4,802	63	1,574	41	8,581	-	1921.	1.	1920.	0.
Days absent from Port	:		:	:	•		:		:		:		•		•		Total Quantity and Value.	antity alue.	Total Quantity and Value.	alue.
Description of Fish.	Quantity.	Quantity.	Value.	Quantity.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value,	Quantity.	Value.				
HOMA STOR LANGE	Cwt. £	Cwt.	43	Cwt.	Cwt.	લા	Cwt.	વર	Cwt.	બ	Cwt.	43	Cwt.	લ	Cwt.	ધ્ય	Cwt.	બા	Cwt.	43
Herrings		:	:	:	: :	::		: :	154,359	62,895	191,729	84,751	6,076	2,065	352,164	149,711	352,164	149,711	501,041	363,473
Sparlings Mackerel		: :	:::	731 4	484 139	100	870	584	5,930	1,379	9,085	2,298	417	100	15,432	3,777	16,302	4,361	18,805	5,382
Total of Pelagic Fish .	:	:	:	731 48	484 139	100	870	584	160,289	64,274	200,814	87,049	6,493	2,165	367,598	153,488	368,466	154,072	519,846	368,855
DEMERSAL FISH—																				
ROUND.	19	881		2093 10 00 10 10	7564	7.668	17.759	21.302		• :	522	405	2.501	2,444	3,423	3,153	21,273	24,643	22,317	26,739
Codling Ling Torsk (Tusk) Saithe (Coal Fish)			22.24.2	215 1701 2193 3 11 7 24 939 444	93			2,408 1,056	:::	:::	:::	:::		. : :	::	17	1,908 14 2,092	$^{2,409}_{1,074}$	1,154 1 980	1,453 1 664
Haddocks, ex. La. Large "Medium Small	113 16	168	:	2759 5834	34 402	717	3,161	6,051	:	:	:	:	:	•	:	:	3,274	6,219	5,459	9,394

. 29 . 29 . 99 . 8	39,174	45 619 158	641	155 21 	1,641	713	410,383	1,888 412,271
829 185 19 8	30,957	9 144 27	179	92	459	697	551,959	::::
688 462 2 22 3	35,613	1,253	360	. 48 	1,753	2,748	194,207	3,203 197,410
1,218 344 13 13 19 24	30,182	282 16	119	. 30 10 10 10 10 10 10 10 10 10 10 10 10 10	441	1,980	401,120	::::
:::::	3,170	::::	17	::::	17	:::	156,675	
:::::	3,463	::::	9	::::	9	:::	371,065	sified. £ 445
	2,461	::::	17	::::	11	:::	4,643	Unclassified. Cwts. £ 910 445
::::;:	2,941	::::	9	::::	9	:::	9,440	લ : જ
: . : : : :	709	: : : :	:		:	• : : :	87,758	Clams.
	523	::::	:	::::	:	:::	64,274 201,336	
::::::	:	::::	:	;:::	:	:::	!	H. Mussels. Cwts.
::::::	:		:	::::	:	:::	160,289	FIS.
685 462 20 20 .:	32,075	1,253	228	48	1,529	2,736	36,943	SHELI bs. £ 1,998
1,212 344 13 13 17	26,501	282	80	:: 50	382	1,972	29,774	SHI Crabs. No. : 131,140 1,9
213	9,191	::::	177	:: 15:	189	- :-	9,482	
378	9,393	::::	83	: : :	69	L :10	9,607	bster
472 1 457 3 20 7 50	484 16,647 22,400	2261010	12 21	: 36	257 1097	2427	778 1035 19,389 26,426	Lol No. 8,777
834 341 13 17 19 17	34 16,64		17	:1 ::		308 1710 2427 44 is	5 19,38	eg
9	461 48	56 243	:	::::	56 243	 	103	Oysters.
	368 4		115		207	12 26		Oys
<u>о јаон</u>	218 36	3 91	33 11	; 	53 20		281 589	popn.
			_	<u> </u>		- : "	62	FrsH (incl
Whitings Conger Eels Gurnards Catfish Monts Hake	Total of Round Fish.	FLAT. Turbot . Halibut Lemon Soles . Flounders	Plaice, Large	Small Brill Dabs Whitches Megrins	Total of Flat Fish	Skates and Rays Squids Unclassified kinds	GRAND TOTALS	Oyste No. Total Value of all Fish Fish used for Manure (included above) " Bait (")

* Included is one landing by a motor trawler, absent from port one day, totalling 7 cwts. plaice valued at £15.

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Banff during the Year 1921, and showing the catch and value during the previous Year.

		.03	uantity 7alue.		43	23,110	:96	23,206		14,014	01 :	14	42,625
		1920.	Total Q		Cwt.	32,285	335	32,620		10,354	15	38	22,866
		1.	and Value.		43	13,885	398	14,283		11,053	201	62	41,368
		1921.	Total Q and V		Cwt.	25,741	1,558	27,299		11,572	223	219	22,368
	Total.	113		Value.	ઝ	13,885	398	14,283		4,454	. : :	:	:
	To	2,613	•	Quantity.	Cwt.	25,741	1,558	27,299		5,084	::	:	:
	i:			·ənlsV	43	55	::	55		185	: :	:	:
Nets.	Sail.	88		Quantity.	Cwt.	172	::	172		314	·::	:	p.F
Z	Motor.*	05		Value,	43	9,831	355	10,186		4.269	: :	:	:
	Mo	2,305	•	Quantity.	Cwt.	3,999 16,615 9,831	1,376	17,991 10,186		4.770	::	:	:
	am.	215	:	Value.	41		43	4,042		:	: :	: :	:
	Steam,	63	•	Quantity.	Cwt.	8,954	182	9,136		:	::		:
	Total.	10,341	:	Value.	5 12	: :	::	:		6.599			22,345 41,339
	To	10,		Quantity.	Cwt.	: :	:::	:	\$ 5.5	6.488	223	219	
	Sail.	921	:	Value.	43	: :	:::	:		242		:	820
68.	002			Quantity.	Cwt.	: :	: : :	:		218		: :	532
Lines.	Motor.	9,419	:	Value.	43	:	: : :	:		6.321			40,489
	MG	6		Quantity.	Cwt.	: :	: : :	:		6.230			21,813
	Steam.	_	:	Value.	sa.	:	: : :	:		38	::		:
	Ste		•	Quantity.	Cwt.	:	: : :	:		40	:	22	:
Trawls.	Steam.	1	:	Value.	33	:	: : :	:		:	:	: :	29
Tra	Ste			Quantity.	Cwt.	:	: : :	:		:	:	: :	23
Method of Fishing.		No.ofVessels arriving Aggregate No. of	Days absent from Port	Description of Fish.	PEL AGIC RISH	Herrings	Sparlings	Total of Pelagic Fish	DEMERSAL FISH-	ROUND.	Codling / Ling	Saithe (Coal Fish) .	", Large Medium Small

2 467	59,149	 94 1,409 48	1,570	::::	3,121	62	85,538	593 86,131
3,562	36,853	250 250 260 260	494	::::	790	99 : :	70,328	::::
3,494 11 52 	56,248	4 190 907 35	1,626	i; 6	2,945	203	73,683	579 74,262
6,233	40,709	1 43 150 12	467	: 82:	760	579	69,367	::::
::::::	4,454	892	1,438	:: ⁹ :	2,340	:::	21,077	Unclassified.
: : : : :	5,084	1.147	390	:: 63 :	540	:::	32,923	Uncla Cwts.
:::::	185	::::	:	::::	:	:::	240	્
:::::	314	::::	:	::::	:	:::	486	Clarns.
::::::	4,269	.: 892	1,438	:: ⁹ :	2,340	:::	16,795	5 · · ·
:::::	4,770	147	330	:: 8 :	540	:::	23,301	Mussels.
:::::::	:	::::	:	::::	:	:::	4,042	Muss Cwts.
: : : : :	:		:	::::	:	:::	9,136	
3,494 11 52 3	51,765	 190 11 35	176	1771	589	202	52,560	SHELL-FISH Crabs. \$1,154 491
6,233 233 80 60 	35,602	:4.2.21	73	: SS : :	215	577	36,414	SHE Ch No. 56,154
116	1,209	::::	:	:: 33	33	:::	1,242	
257	1,008	::::	:	13	19	:::	1,027	Lobsters. 1,282 88
3,378 11 52 52	50,513	.: 190 111 35	176	144	556	202	51,275	I N S
5,976 23 3 60 2	34,532		73	99 : :	196	577	35,325	, s
::::::	43	::::	:	::::	:		43	Oysters.
::::::	62	::::	:	::::	:	:::	62	
::::::	29	:: 4:	12	::::	16	1 ::	46	l above)
::::::	23	;:	4	::::	20	63 : :	900	SH SH Cluded
Whitings Conger Eels Gurnards Catfish Monks (Anglers)	Total of Round Fish .	FLAT. Turbot . Halibut Lemon Soles . Flounders .	Plaice, Large " Medium	Brill Dabs	Total of Flat Fish .	Skates and Rays . Squids . Unclassified kinds .	GRAND TOTALS .	TOTAL VALUE OF ALL FISH Fish used for Manure (included above) , , Bait (, ,)

* Included are 6 landings by Danish seine net vessels to talling 15 cwts. valued at £58, mostly plaice, also 4 ,, founder ,, ,, ,, 11 ,, ,, , £31, ,, ,,

TABLE B.—No II.—Return respecting Vessels arriving and Fish landed in the District of Buckie during the Year 1921, and showing the catch and value during the previous Year.

		20. ta1	ntity alue.		3	71,323	475	71,798	28,793 8,680 37 398 14,425
		1920. Total	Quantity and Value.		Cwt.	104,328	1,765	106,093	18,364 6,444 6,444 33 340 44 7,050
		l. baí	tity alue.		43)	39,144 16,208	219	16,427	23,893 6,460 69 228 2,845 12,619 431
		1921. Total	Quantity and Value.		Cwt.	39,144	443	39,587 16,427	21,472 5,322 67 67 356 6,766 6,766
	al.	0,		Value.	33	16,208	219	16,427	23,721 325 .: 226 2,350 1,676 281
	Total.	2,870	•	Quantity.	Cwt.	39,144 16,208	443	39,587	21,333 23,721 292 325 325 349 226 1,302 2,350 1,280 1,676 332 281
	-			√alue.	લા	407	15	422	3,148 8
Nets.	Sail.	722		Quantity	Cwt.	518	39:	548	2,690
Z	Motor.*	92		.sılue.	93	2,455	.50	2,475	15989 138 170 170 1124
	Mot	1,356	•	Quantity.	Cwt.	6,516 2,455	.83	6,598	14530 15 15 212 94 103
	Steam.*	192		.9µlsV	લા	13,346	184	13,530	4,584 312 312 80 80 2,180 1,552
	Stea		•	Quantity.	Cwt.	32,110	331	32,441	4,113 277 119 1,208 1,157 319
	al.	33		Value.	લા	: :	::	:	13 6,011 66 4 2
	Total	5,633	•	Quantity.	Cwt.	: :	::	:	10 4,900 64 4 7 7 5,190
	. ::	5,349		Value.	43	::	:::	:	5,570 34 2
SS.	Sail.	'n	•	Quantity.	Cwt.	: :	::	:	4,523 36 4,251
Lines.	cor.	279		.9µlæV	વર	: :	:::	:	441 2 2,159
	Motor.	63		Quantity.	Cwt.	: :	:::	:	3777
	Steam.	5	• • • • • • • • • • • • • • • • • • • •	.eulsV	63	: :	:::	:	113
	Ste		•	Quantity.	Cwt.	: :	:::	:	01 :26
Trawls.	Steam.	89	:	Value.	લા	: :	:::	:	159 124 3 3 455 150 150
Tra	Ste			Quantity.	Cwt.	:	:::	:	129 130 3 273 316
Method of Fishing.		No.ofVessels arriving Aggregate No. of	Days absent from Port	Description of Fish.	PRI AGIC RISH		Sparlings Mackerel	Total of Pelagic Fish .	DEMERSAL FISH— ROUND. Cod Codling Ling Torsk (Tusk) Satthe (Coal Fish) Haddocks, ex. La. "Large "Large" "Addium "Small "Small

1,733 50 182 3	54,416	1,514 234 348 348 331 760 12 9	3,247	482	129,950	76 130,026
1,439 .: 14 46 282 2	34,090	2 321 34 164 164 999 2222 3 3 18	898	366	141,421	::::
738 12 20 188 31	47,538	76 414 1,848 1,848 149 2,952 8,275 6,97 132 132 449	15,060	822	79,876	401 80,277
870 26 569 19	37,575	16 113 449 64 64 1,017 2,286 239 40 40 75 254	4,574	1,137	82,939	::::
181	28,761	293 1,438 2,786 7,001 105 105 63 406	12,726	582	58,508	sified. £ 111
548	25,417	940 112 1,931 214 22 41 20 20	3,877	743	69,657	Unclassified. Cwts. 342 111
:::: : :::	3,173	4. ::: III ::: : : : : : : : : : : : : :	133	47	3,775	 ⇔ :
	2,766		48	36	3,398	Clams, Cwts.
118	16563	28 150 107 107 10 10 10 13	2,247	271	21556	ే రీ
353	153201	6 29 398 398 3 6 6 6 6	888	248	228542	٠٠ دو:
1		24 125 7,331 ,531 494 63 893 893 40	10,346	264	33,177 25	Mussels.
	3,025	H 0/10	i			Mus Cwts.
	7,331	320 320 786 1,491 194 29 29 35 228	3,141	459 :33	43,405	
734	17,361	95 149 221 	210	173	18,044	SHELL-FISH abs. £
864 26 .: 13	11,078	;4 ;5 ;5 ; ;4 ; ;5 ; ;5 ; ;5 ; ;5 ;5 ;5 ;5 ;5 ;5 ;5 ;	193	224	11,495	SHI Crabs.
119	14,587	27 146 218 .: 45	436	54	15,077	
747 25 11 12 : :	9,601		173	8 ::	9,862	ste
123	2,727	:m : : : : : : : :	37	e : :	2,802	Lot No. 3,840
H : : : :	1,437	: : : : : : : : : : : : : : : : : : :	10	54	1,501	fers.
::::::	47	:63 :	37	18 : :	165	Oysters.
::::::	40	:9::::::::	10	82 : :	132	. (aa
4 :: 8 - 8	1416	20 410 1166 1166 127 27 27 27	1,824	. i.7	3,324	da abo
1811313	1080	274 1 274 1 274 1 274 1 27 27 1	504	170	1787	ISH .
Whitings Conger Eels Gurnards Gatfish Monks (Anglers)	Total of Round Fish .	FLAT. Turbot Halibut Lemon Soles Flounders Plaice, Large ,, Medium ,, Small Brill Dabs Whitches Megrims	Total of Flat Fish .	· Skates and Rays Squids Unclassified kinds .	GRAND TOTALS . 1	TOTAL VALUE OF ALL FISH . Fish used for Manure (included above)

* Included are 303 landings by steam and 22 by motor vessels using Danish seine nets totalling 6,841 cwts. (mostly haddocks and plaice), valued at £15,391 (steam 6,516 cwts., £14,694; motor 325 cwts., £697), and 59 landings by motor vessels using flounder seine nets totalling 494 cwts. (mostly plaice), valued at £1,408.

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Findhorn during the Year 1921, and showing the catch and value during the previous Year.

		1920. otal Quantity and Value.		43	24,919 1,206	26,129	15,520 12 .16 37,597
		19 Total Q		Cwt.	64,537 3,272	67,817	13,035 13 .33 20,377
		11. uantity alue.		33	1,938	3,370	10,756 66 8
		1921. 1920. Total Quantity Total Quantity and Value. and Value.		Cwt.	7,751 5,284	13,039	10,022 57 .i5 23,966
	al.		Value.	43	1,938 1,431	3,370	8,245 3 2 1,312
	Total.	2,334	Quantity.	Cwt.	7,751 5,28 4	13,039	8,044 5
	-1	0	Value.	¢á	946 1,094	2,040	2 ::: :
Nets.	Sail.	610	Quantity.	Cwt.	4,888 4,108 	8,996	89 ::: :
	*:	90	Value.	43	467 337	804	1404
	Motor.*	1,048	Quantity.	Cwt.	1,730	2,906	4,246 4404 .3 1 80 167
	n.*	9	Value.	49	525	526	3,7691
	Steam.*	676	Quantity	Cwt.	1,133	1,137	3,730 2 639
	al.	80	Value.	વ્ય	::::	:	2,393 63 . · 6 40,190
	Total.	13,103	Quantity.	Cwt.	::::	:	1,901 55 .io 22,828
		80	Value.	લ	::::	:	45
s,	Sail.	793	Quantity.	Cwt.	::::	:	31
Lines.	or.	94	Value.	93	::::		2,319 41 88,274
	Motor.	12,304	Quantity.	Cwt.	::::	:	1,845 33 .i0 21,600
	m.		Value.	43	::::	:	22 : :
	Steam.	9 :	Quantity.	Cwt.	::::	:	22 : : :
rls.	n.		Value.	લ	::::	:	118
Trawls.	Steam.	34	Quantity.	Cwt.	::::	:	604
Method of Fishing.		No. of Vesselsarriving Aggregate No. of Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats Sparlings Mackerel	Total of Pelagic Fish.	DEMERSAL FISH— ROUND. Cod Codling Ling Torsk (Tusk) Saithe (Coal Fish) Haddocks, ex. La. "Medium "Medium "Small

2,596	55,841	617 27 171 4.880	228	5,923	238	88,131	565 88,696
2,822	36,432	i31 6 97	160	2,154	433	106,836	::::
2,633	55,772	33 283 981 44 17 744	63 409 45	19,643	431	79,216	906 80,122
4,556 160 	38,776	8 59 221 32 5714	201 201 200 20	6,300	533	58,648	::::
· · · · · · · · · · · · · · · · · · ·	9,568	27 56 709 	50 6 361 45	13,474	66	26,502	fied.
10	8,792	14 160 	19 178 20	4,137	122	26,090	Unclassified. Cwfs. £
	72	; ; ; ; ; ; ;	5 ::::	37	:::	2,149	
::::::	89	:::: ox	::::	œ	:::	9,072	• : • :
::::::	4572	70	: :9 :	3055	17	8448	Clams.
::::::	4,339	16	::4:	983	19 ::	8,247	
m ::	4,924	27 56 639 	50 50 355 45	10,382	73	15,905	 688
$\begin{array}{c} 10 \\ \vdots \\ 2 \end{array}$	4,385	144 144 	19 5 174 20	3,146	103	8,771	sels.
2,628	45,411	222 80 84 44		5,109	307	50,827	
4,544 154 	29,492	 44 17 32 1776		1,887	366	31,745	SHELL-FISH Tabs. £ 0 47
105	2,066			994	" : :	3,061	SHEI Crabs. No. 5,400
232	1,491	20		346	67	1,839	
2,523	43,294	164 164 80 20 20	32 ::	4,060	182	47,536	iters. \$520
4,312 154 	27,954	.: 34 17 12 12	.: 16 ::	1,532	211	29,697	Lobsters. 8. 7,540 520
:::::	51		• • • • • •	55	124	230	
::::::	47	:6::	: ::::	6	153	209	Oysters. No
.:	793	6 192 	13 :48 :	1,060	34	1,887	O.y. No.
cd :: 4 ::	492	1 1 4 4 1 1 2 6	. :23 :	276	£ ::	813	sH .
Whitings Conger Eels Curnards Cattish Monks (Anglers)	Total of Round Fish .	FLAT. Turbot Halibut Lemon Soles Flounders Plaice, Large	", Small Brill Dabs Whitches Megrims	Total of Flat Fish .	Skates and Rays . Squids . Unclassified kinds .	GRAND TOTALS .	O.ys TOTAL, VALUE OF ALL FISH Fish used for Manure (included above) " Bait (", ")

* Included are 390 landings by steam and 73 by motor vessels using Danish seine nets, totalling 4,470 cwts. (mostly plaice), valued at £13,003 (steam, 4,091 cwts., £11,904; motor, 579 cwts., £1,099), and 170 landings by motor vessels using flounder seine nets, totalling 612 cwts. (mostly plaice), valued at £1,708.

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of **Gromarty** during the Year 1921, and showing the catch and value during the previous Year.

			1920. Total	Quantity and Value.		ets	323 162	::	323 162		16 3,659	:::	16 11,339
			. 7 6	Qua		Cwt.		: :			3,716		3 7,616
]. [3]	ty and ue.		43	88. 4	: ;	36		3,162	:::	8,131 10,873
			192 Tot	Quantity and Value.		Cwt.	84.0	::	53		3,009	:::	8,131
		Total.	212		Value.	33	32	::	36		330	:::	:
		To		٠	Quantity.	Cwt.	\$4 \$70	::	53		302	:::	:.
		Sail.	55	:	Value.	43	82.4	::.	36		22	:::	:
		SS	41,3	•	Quantity.	Cwt.	84.0	::	53		89	:::	:
	Nets.	Motor.	157		Value.	ધર	::	::	:		258	:::	:
		Mo	3	•	Quantity.	Cwt.	::	::	:		234	:::	
٠		Steam.	:		·sulaV	43	::	::	:		:	:::	:
)		Ste		•	Quantity.	Cwt.	::	::	:		:	:::	:
			Ø		Value.	Ŧ	::	::	:		2,832	:::	10,873
		Total.	5,702	:	-Viitansu Q	Cwt.	::	::	:		2,707	:::	8,131
			<u></u>		Value.	43	::	::	:		1,857	:::	7,055
	S.	Sail.	4,268	:	Quantity.	Cwt.	::	::	:		1,733	:::	5,176
)	Lines.	cor.	34		Value.	क्ष	::	: :	:		975	:::	3,818
		Motor.	1,434	•	- Viliansu D	Cwt.	::	::	:		974	:::	2,955
		Steam.			√alue.	લ	::	::	:		:	:::	:
		Ste	••	·	Quantity.	Cwt.	::	::	:		:	:::	:
	Trawls.	Steam.	:		Value.	43	::	::	:		:	:::	:
	Tra	Ste			.ViitasuQ	Cwt.	::	::	:		:	:::	:
	Method of Fishing.		No.ofVessels arriving	Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Sparlings Mackerel	Total of Pelagic Fish.	DEMERSAL FISH-	KOUND. Cod Codling	Ling Torsk (Tusk) Saithe (Coal Fish)	Haddocks, ex. La. " Large " Medium Small

1 : 19 : :	15,031	::	.43	1,514	27	::	1,584	.12	17,045	1,182 18,227
16 : : 23	11,371	::			. 12		745 1	359	12,801	
o			.09		. 28	_	<u>∞</u>		592 12,	1,058 17,650
3 329	14,365	: :		L,			3 1,898	1 291	8 16,592	17,0
466	11,607	::	36	827	: ⁸ :	:	883	321	12,868	::::
:::::	330	: :	: :	:	: : :	: :	:	:::	366	
	302		::	:		: :	:	:::	355	34. 180
::::::	72	::	::	:	: : :	: :	:	:::	108	Unclassified. Cwts. £ 253 18
: : : : : :	88	::	::	:	: : :		:	. : : :	121	Unclas Cwts. 253
::::::	258	::	: :	:	: : :	::		:::	258	ધ્ય :
:::::	234	::	::	:	:::	::	:		234	Clams.
:::::	:	::	::	:	::	::	:	:::	:	ð
::::::	:	::	::	:	::	::	:	:::	:	sels. £ 606
329	14,035	::	.09	1,810	. 28	::	1,89 8	291	16,226	SHELL.FISH. Mussels. 65 8,395
	11,305	::	36	827	. 20	::	883	321		
319	9,232	::	:	1,347	. 28	::	1,435	121	10,790 12,513	Crabs. No. 7,000
460 	7,370	::	.36	593	20.	::	649	131	8,154	• • •
10	4,803	::	::	463	::	::	463	170	5,436	Lobsters. No. £ 3,030 207
9	3,935	::	::	234	::	:, :	234	190	4,359	Lol No. 3,030
::::::		::	::	•	: ':	::	:	:::	:	्र इ
::::::		::	::	:	::	::	:	:::	:	Oysters, No.
::::::		::	::-	: .	::,	: :	:	:::	:	d above)
:::::;	:	::	::	:	::	: :	:	:::	:	, sa uclude
Whitings Conger Eels Gurnards Catfish Monks (Anglers)	Fotal of Round Fish .	Frar. Turbot Halibut	Lemon Soles Flounders Plaise I arm	Medium Small	Brill	Megrims	Total of Flat Fish .	Skates and Rays . Squids . Unclassified kinds .	GRAND TOTALS	TOTAL VALUE OF ALL FISH Fish used for Manure (included above) ", Balt (", ")

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Helmsdale during the Year 1921, and showing the catch and value during the previous Year.

			Total Quantity and	en e	વર	1,285	: .	1,285		5,588	- ::	13,546
			Oug.	>	Cwt.	2,088	::	2,088		4,570	" ::	9,751
			21. tal titty	ů d	43	307	: "	308		5,566	::"	14,376
			Total Quantity and	ਜ਼ੌ >	Cwt.	463	. 4	467		5,117	. : :01	11,185
		al.	612	Value.	33	307	:-	308		1,620	:::	:
		Total.	19 .	Quantity.	Cwt.	463	: 4	467		1,622	:::	:
		ii.		. Value.	બર	63 :	::	62		:-	:::	:
		Sail.		Quantity.	Cwt.	4:	::	4		:	:::	:
and the first one damper than the first part of the first	Nets.	Motor.	611	Value.	भ	305	:	306		1,620	: : :	:
2		M		Quantity.	Cwt.	459	:4	463		1,622	:::	:
omo Pr		Steam.		Value,	43	::	::	:		:	:::	:
9		Ste		Quantity.	Cwt.	::	::	:		:	:::	:
		al.	88	Value.	3 3	::	::	:		3,946	::1	14,376
		Total.	6,888	Quantity.	Cwt.	::	::	:		3,495	::07	11,185
		ii.	57	Value,	43	::	::	:		2,008	:::	2,284
5 0110 5	es.	Sail.	3,055	Quantity.	Curt.	::	::	:		1,817	:::	2,171
	Lines.	Motor.	3,833	Value.	43	::	::	:		1,678 1,938	::-	9,014 12092
1		Mo	က်	Quantity.	Cwt.	::	::	:		1,678	: :67	9,014
		Steam.	•.	Value.	4 3	::	::	:		. :	* * *	:
		Ste		Quantity.	Cwt.	::	::	:		:	:::	:
	wls.	Steam.		.eulaV	લા	::	::	:		:		:
	Trawls.	Ste		Quantity.	Cwt.	::	::	:		:	:::	:
	Method of Fishing		No.ofVessels arriving Aggregate No. of Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Mackerel	Total of Pelagic Fish .	DEMERSAL FISH-ROUD.	Coding	Ling Torsk (Tusk) Saithe (Coal Fish) Haddocks, ex. La.)	". Large Medium Small

Whitings Conger Eels	::	::	::	: '	328	161	\$ 1	œ 61	368	169 85	::	::	::	::	::	::	::	::	888	35	9 :	c1 :
Gurnards	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Catfish	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Monks (Anglers)	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Hake	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Total of Round Fish .	:	:	:	:	11,103 14225	1	4,029	4,302	15,132	18,527	:	:	1,622	1,620	:	:	1,622	1,620	16,754	20,147	14,328	19,137
FLAT.																						
Turbot	:	:	:	:	:	;	:	:	:	:	:	:	: '	:	:	:	:	: '	:6	:6	:	:
Halibut Tomor Solon	:	:	:	:	8	320	63	9	16	980	:	:	-	0	:	: :	-	o :	50	305	14	9
Flounders	::	::	::	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :
Plaice, Large Medium	:	:	:	:	494	1,196	88	2,175	1,382	3,371	:	:	31	100	:	:	31	100	1,413	3,471	957	2,085
Small Small																						
Dabs	::	::	::	: :	: :	: :	::	::	: :	: :	: :	: :	: :	::	: :	: :	: :	: :	: :	: :	: :	: :
Whitches	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Megrims	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Total of Flat Fish .	:	:	:	:	583	1,546	068	2,185	1,473	3,731	:	:	32	105	:	:	32	105	1,505	3,836	176	2,150
Skates and Rays .			:	:	26	33	:	:	56	39	:	:	9	48	:	:	40	48	96	87	28	30
Squids . Unclassified kinds .	::	::	::	::	::	::	::	::	::	::	::	: :	::	::	::	: :	::	::	::	::	::	::
GRAND TOTALS .		:	:	:	11,742 15810	1	4,919	6,487	16,661	22,297	:	:	2,157	2,079	4	23	2,161	2,081	18,822	24,378	17,415	22,602
		-						i a	SHELLERISH	FISH												
			Oysters.		IS So	sters.		Crabs.	Š.		fussels.		Clams.	. gi	ŭ	classif	jed.					
A A A A A A A A A A A A A A A A A A A	ŧ		No.		No. 16,314	No. £	-	No. 4,072	ed &	87	Cwts. 1	41 & 41 &	Cwts.	ы :	ර් ක්	3,237 752	25		: :	2,357	:	1,908
Fish used for Manure (included above)	ncluded above	· ⊛∽			• • •		• • •				• • •		· · ·				• •		::	::	::	::

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Lybster during the Year 1921, and showing the catch and value during the previous Year.

Method of Fishing.	Trawls.	wls.				Lines.							-	Nets.							
	Steam.	am.	Steam.	m.	Motor.	or.	Sail.		Total.		Steam.		Motor.		Sail.		Total.				
No. of Vessels arriving Aggregate No. of Days absent from Port	•		:		537	71	1,000		1,537		: :		74		166		240	L Co	Total Quantity	Qu I	Total Quantity
Description of Fish.	Quantity.	·salue.		Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Quantity.	Value.	Quantity.	Value.	>	alue.	>	alue.
Per Agic Righ	Cwt.	49	Cwt:	49	Cwt.	ch3	Cwt.	93	Cwt.	9	Cwt.	<u>ن</u> چ	Cwt.	Cwt.	ř.	Cwt.	43	Cwt.	49	Cwt.	43
Herrings	:	:		:	:	:	: :	: :	: :		: :	: :	961	777 39	378 227	574	4 304	574	304	1,604	975
Sparlings Mackerel	: : :	: : :	: : :	: : :	: : :	: : :	: : :	:::			: : :							::	::	::	::
Total of Pelagic Fish .	:	:	:	:	:	:	:	:	:	:	:	<u> </u>	196	77 37	378 227	7 574	4 304	574	304	1,604	975
DEMERSAL FISH.									<u> </u>												
Round.																					
Codling	:	:	:	:	1,010	891	1,619	1,418 2,	2,629 2,	2,309	:	:	:	· -	-	:	:	2,629	2,309	1,949	2,213
Torsk (Tusk)	:::	:::	::	::	::	:::	:::	:::	:::	: : :	: : :	: : :	:::			: : :	: : :	: : :	: : :	: : :	:::
Haddocks, ex. Ls. " Medium Small	:	: :	. ;	:	069	707	402	707	6	4	: :	::	:	•	•	:	:	1,399	1,41	1,399 1,414 1,137	1,495

Whitings Conger Eels . Gurnards	:::	:::	:::	:::	:::	:::	:::	:::	; : :	:::	:::	. : :	:::	:::	:::	: :	:	:::	:::	::::	:::	:::
Catfish . Monks (Anglers) . Haka	:::	:::	:::	:::	:::	:::	:::	:::	. : :	: : :	:::	: : :	:::	: : :	: : :	: : :	:::	: : :	: : :	: : :	· ::	· : :
Total of Round Fish .	:	:	:		1,700	1,598	2,328	2,125 4	4,028	3,723	:	:	:	:	:	:		4	4,028 3	3,723 3,	3,087	3,709
FLAT.																						
Turbot	:	:	:	:	:	:	:	:	:	:	: :	:	: :	: :	::	::	::	::	::	: :	:°	: 8
Lemon Soles.	::	::	::	::	: :	: :	: :	: :	: :	: :	: :	:	:	:	:	:	:	: :	: :	: :	::	: :
Flounders Plaice, Large	;/	• -	:	:	:	:	:	:	:	:	:	:	: .	:	:	:		:	:	:	:	
" Medium	:	:	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Brill	::	::	::	::	: :	::	::	: :	::	::	::	::	::	::	::	::	::	::	::	::	::	: :
Whitches	:	:	:	:	:	:	:	:	;	:	:	: :	: :	: :	::	: :	::	: :	::	::	::	: :
Total of Flat Fish	:		: :	: :		: :	: :			:	:	:	:	:	:	:	:	:	:	:	101	48
						T				T								\vdash	-			
Skates and Rays .	;	:	:	:	:	:	:	:	:	:	:.	:	: :	: :	: :	: :	::	::	: :	: :	::	: :
Unclassified kinds	::	: :	::	::	: :	: :	: :	::	: :	: :	: :	::	::	::	:	:	:	:	:	:	:	:
GRAND TOTALS .	:	:	:	:	1,700	1,598	2,328	2,125 4	4,028	3,723	:	:	196	77	378	227	574	304 4	4,602 4	4,027 4	4,701	4,732
								SHE	SHELL-FISH	H												
			Oysters. No.	318 34	No.	Lobsters. No. £		Crabs.	8. 3. 7.	ර්	Mussels.	4 4	Cwts.	Clams.		Unclassified. Cwts.	. 2 :		:	83	:	19
TOTAL VALUE OF ALL FISH . Fish used for Manure (included above) . Bait (,, ,) .	rsn . included al "	bove) .		: • • •				3									• • •		:::	011,	सं: : :	
																	١			-		

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Wick during the Year 1921, and showing the catch and value during the previous Year.

	Sail. Total.	351 6,052 1921. 1920.	Total Quantity Total Quantity and Value.	Value. Quantity. Value.	t. £ Cwt. £ Cwt. £ Cwt. £	3,951 1,491 353,883 168,099 353,883 168,099 537,377 393,656	10 3 5,873 3,798 5,873 3,798 1,894 818	3,961 1,494 359,756 171,897 359,756 171,897 539,271 394,474		16,134 14,148 15,		
Nets.	Motor.	2,642	:	Value.	vt. £ Cwt.	98,343 47,949 3,9	1,028 522	48,471		2,498 2,140	:::	
		3,059		Value. Quantity.	£ Cwt.	118,659	3,273	121,932 99,371		490 2,4	:::	
	Steam.	က် က်	•	Quantity.	Cwt.	251,589	4,835	256,424		632	:::	
	al.	8,826		Value.	લર	::	::	:		13,	149 2 386	
	Total.	<u>∞</u>	-	Quantity.	Cwt.	: :	::	:		15,612	189 1,078	
	i:	96		Value.	લર	::	::	:		3,100	.: 26	
Lines.	Sail.	3,696	:	Quantity.	Cwt.	: :	: :	:		3,708	. : 55	
	or.	13		Value.	43	: :	::	:		8,494	99 :02	
	Motor.	4,61	•	Quantity	Cwt.	: :	::	:			141	
	ım.	2		Value.	43	: :	::	:			292 20	
	Steam.	517	4	Quantity.	Cwt.	: :	::	:		1,893	897 1 28	
Trawls.	Steam.	20		Value,	43	::	::	:		17	:::	
T	St			Quantity.	Cwt.	: :	::	:	L	28	:::	- 1
Method of Fishing.		No.ofVessels arriving	Aggregate No. of Days absent from Port	Description of Fish.	PELAGIC FISH	Herrings Sprats	Sparlings Mackerel	Total of Pelagic Fish .	DEMERSAL FISH-ROUND.	Codling	Ling Torsk (Tusk) Saithe (Coal Fish) Haddocks ev La	Large

247	19,734	3,485 2 4 173	::	3,664	702	418,574	6,341 424,91 5
194 21	18,712	770 2 2 87	::	860	786	559,629	::::
	20,829	3,833 	::	4,072	1,184	197,982	6,426 204,408
.: 104 .: 4	24,668	89 3 	::	1,006	1,523	386,953	::::
::::":	2,641	:::: 52 ::	::	25	:::	174,563	
::::	3,152	:::: ⁶ ::	::	6	:::	362,917	Unclassified. Cwts. £ 1,344 412
::::::	10	:::::::::::::::::::::::::::::::::::::::	::	:	:::	1,504	Uncla Cwts. 1,344
:::::	18	:::: : ::	::	:	:::	3,979	ea :
::::":	2,141		::	22	:::	50,634	· · ·
::::4::	2,502	: : : :	::	80	:::	101881	Cwts.
:::::	490	::::: ^{en} ::	::	3	:::	122,425	€ 9 ;
:::::	632	:::: [#] ::	::	1	:::	23,376 257,057 122,425 101881 50,634	Mussels.
97	18,165	3,833	::	4,028	1,183	23,376	
104	21,477	893 863 863 863 863 863 863 863 863 863 86	::	988	1,519	23,984	SHELL-FISH Crabs. £ 136,494 1,422
::":::	4,405	93	::	137	: : :	4,539	No 136,49
:: 61	5,699	17. .: .:	: :	49	: : :	5,748	62
97	12,944 11,536	3,583	: :	3,734	1,100	2,467 15,241 16,370	Lobsters. No. 54,028 4,55
104	-	834	::	897	1,400 1	15,241	ιδ · · ·
:::::	2,227	157	::	157	83 : :	2,467	33.
::::::	2,834	: 4 :: : ::	: :	42	119	2,995	Oysters. No above.
::::::	g	: : : : : : : : : : : : : : : : : : : :	: :	61	F ::	43	ided
::::::	33	:::: 6 ::	::		4 : :	52	Fish (inclu
Whitings Conger Bels Gurnards Catfish Monks (Anglers) Hake	Total of Round Fish .	Turbot Halibut Lemon Soles Flounders Flounders Plaice, Large ,, Mediun Brill Brill Dabs	Winches	Total of Flat Fish	Skates and Rays . Squids . Unclassified kinds .	GRAND TOTALS .	Oyst No TOTAL VALUE OF ALL FISH . Fish used for Manure (included above)

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Orkney during the Year 1921, and showing the catch and value during the previous Year.

		1920.	uantity 7alue.		લા	61,793	6	61,802			1,275	3,614	:	869	1.00%	2,157	25
		19	Total Quantity and Value.		Cwt.	91,728		91,749			885	2,499 35	:	1,481	676	1.373	20
		1921.	uantity alue.		3	20,482	72	20,554			1,506	4,496 53		607		1.007	110
		19	Total Quantity and Value.		Cwt.	71,240	518	71,758			1,073	, , , , , , ,	: :	934	986	969	8
	Total.	1,231		Value,	93	20,482		20,554			:	::		:	:	: :	:
	To	1,2		Quantity.	Cwt.	71,240	518	71,758			:	: :	:	:	:	: :	
	Sail.	205	:	Value.	43	11,445 3,193	:01	3,195			:	: :	:	:	:	: :	:
Nets.	Š	ল		Quantity.	Cwt.		:	11,452			:	: :		:	:	: :	:
Z	Motor.	494	:	.eulaV	ез	3 7,986	:68	8,025			:	::	:	:	:	: :	:
	W W	4		Quantity.	Cwt.	27,118	266	27,384			:	::	:	:	: :	:	:
	Steam.	532	:	Value.	43	9,303	31	9,334			:	: :	:	:	: :	: :	:
	Ste	.e		Quantity.	Cwt.	32,677	245	32,922			:	::	:	:	: :	: :	:
	Total.	4,673		Value.	3	::	::	:			1,458	5.5	304	3	422	844	:
	To	4,	•	Quantity.	Cwt.	::	::	:			1,041	33.	0	40°	288	576	:
	Sail.	180	3,081 4,	Value.	43	::	::	:			822	202,40	904	3	174	340	:
Lines.	- S	ణ్	•	Quantity.	Cwt.	::	::	:			9 662	٠.	084		134		:
	Motor.	1,592		Value.	44	::	::				636		:		248		:
	M			.ViitasuQ	Cwt.	::	: :	:			379	18	:	:	154	- 30 -	:
	Steam.	•.	: :	Quantity.	Cwt. £	::	::	:			:	: :	:	· :	: :	:	- :
.83	J.		Value.	⊋ 3*	::	: :	:			148 19.5	:	:	:	: :	163	1011	
Trawls.	Steam.	: :	Quantity.	Cwt.	::	::	:			35		:	:	: .	123	90	
Method of Fishing.		No.ofVessels arriving ggregate No. of Days absent from	Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Sparlings Mackerel	Total of Pelagic Fish	DEMERSAL FISH	ROUND.	Codling	Ling	Saithe (Coal Fish)	Haddocks ex La	,, Large	" Medium	. Small

		eo →	0	-	6	l 1-	 -	0202
8 :::::	8,969	. 48 . 48	98		919	397	72,087	10,090 82,177 26 177
	7,031	214	15	. 15	291	317	99,388	.: 520 242
22 : : : : :	8,222	 440 	52	.: 36	630	266	29,672	8,567 38,239
16	6,356	. 5 3	27	19	225	256	78,595	.:
::::::	:	::::	:	::::	:	:::	20,554	
: • : : : :	:	::::	:	::::	:	:::	71,758	Unclassified. Cwts. £ 954 252
::::::	:	::::	:	::::	:	:::	3,195	Unck Cwts. 954
: : : : : :	:	::::	:	::::	:	:::	11,452	49 :
::::::	:	::::	:	::::	:	::::	8,025	Clams.
::::::	:	::::	:	::::	:	:::	27,384	Cwts.
:::::	:	::::	:	::::	:	:::	9,334	 લક : જું
::::::	:	::::	:			:::	32,922	T ISH. Mussels. Cwts
ī : : : : :	7,776	434	:		542	241	8,559	T.T.
16	6,014	.: 124 .:	:	.: 15	178	233	6,425	SHE STEP Trabs. £ 0 273
::::::	4,436	74	:	::::	74	106	4,616	Crabs. No. 27,900 2
::::::	4,001	277	:	::::	27	66 : :	4,127	
23 : : : : :	3,340	360	:	:° : :	468	135	3,943	Lobsters, S. No. 116,170 8,042
16	2,013	 97 39	:	15	151	134	2,298	116,11
::::::	:	::::	:	::::	:	:::	:	્લ : ' · ·
::::::	:	::::	:	::::	:	:::	:	Oysters.
::::::	446	. 6	52	:° : ;:	88	25	559	Oy No.
:::::	342	: 2	27	: : :	47	23:	412	rsh .
Whitings Conger Eels Gurnards Cattish Monks (Anglers)	Total of Round Fish .	Frar. Turbot Halibut Lemon Soles Flounders	Plaice, Large ,, Medium	Brill Dabs Whitches Megrims	Total of Flat Fish	Skates and Rays . Squids Unclassified kinds .	GRAND TOTALS .	Oye No. Fish used for Manure (included above)

TABLE B.—No II.—Return respecting Vessels arriving and Fish landed in the District of Shetland during the Year 1921, and showing the catch and value during the previous Year.

		o. nantity alue.		3	227,129	: :	570	227,699			2,703 748	1,011	302	,	9,109	4,338	1,225
		1920. Total Quantity and Value.		Cwt.	310,715	: :	1,742	312,457			3,654	1,375	5 113	2,000	8,905	4,489	1,786
		1. nantity alue.		43	201,864	: :	308	202,172			877	527	181		7,664	5,693	2,303
		1921. Total Quantity and Value.		Cwt.	589,155	: :	1,218	590,373			1,685	675	321	2776	8,055	6,422	3,217
	al.	-	·salue.	વર	201,864	: :	308	202,172			29	: :	:	:	: :	:	:
	Total.		Quantity.	Cwt.	48,803 589,155 201,864	: :	1,218	590,373			43	::	:	:	: :	:	:
	ni i		·ənlæV	43	48,803	: :	107	48,910			19	: :	:	:	: :	:	:
Nets.	Sail.	: ;	Quantity.	Cwt.	53,937 275562 99,124 148,866	: :	428	149,294			27		:	:	: :	:	:
Z	Motor.		·sılıe.	33	99,124	: :	107	99,231			01	: :	:	:	: :	:	:
	Mo		Quantity.	Cwt.	275562	: :	466	276028			16	: :	:	:	: :	:	:
	Steam.	: :	Value.	43		: :	94	54,031			:	: :	:	:	: :	:	:
	Ste		. Ądidasuģ	Cwt.	164,727	:	324	165,051			:	: :	:	:	: :	:	:
	Total.	•	Value.	43	:	: :	:	:			848					5,693	
	To		Quantity.	Cwt.	:	: :		:			1,642	675	32]			6,422	
	Sail.		Value.	43	:	: :	: :	:			319				2,281		
Lines.	Š	•	Quantity.	Cwt.	:	:	:	:			617			'	2,739		
ï	Motor.	: :	Value.	43	:	: :	:	:			335				3 5.383	3,852	1,468
	M		Quantity.	Cwt.	:	:	::	:			650	-			5,316	4,003 3,	1,85
	Steam.	: :	.eulsV	43	:	:	::	:			194	107	45	9 .	: :	:	:
	Ste		Quantity.	Cwt.	:	:		:			336	911	85	OTO	: :	:	:
Trawls.	Steam.	: :	Value.	43	:		::	:			:	: :	:	:	: :	:	:
Tre	Ste		Quantity.	Cwt.	:	:	: :	:			:	: :	:	:	: :	:	:
Method of Fishing.		No.ofVesselsarriving Aggregate No. of Days absent from Port	Description of Fish.	PELAGIC FISH	Herrings	Sprats	Mackerel	Total of Pelagic Fish .	DEMERSAL FISH-	ROUND.	Cod	Ling	Torsk (Tusk)	Haddocks ov I o	Laurocks, ex. La.		

1,080	ဗ	:	:	:	22,248		1.976	£,010;	: :	:	91	:	:	4,467	393	::	254,807		Š	495 255,302	757
1,237	: 4	-:	-:	:	27,916	<u> </u>		7 :	::	:	72	:	:	1,513	823	::	342,709			_ &	2,319
_		_			<u> </u>	_		_									+-				
1,627	:	:	:	:	20,139		. 0	4,001	: :	27		:	:	2,408	163	::	224,882			969 225,851	1,239
2,661	9	:	:	:	26,729			0 :	: :	22	:8	:	:	952	387	::	618,441			: :	3,412
:	::	:	:	:	23		:	: :	:	:	: :	:	:	:	:	::	202,201				
:	: :	:	:	:	43		:	: :	:	:	: •	:	:	:	:	: :	590,416		gig	. 612	
:	: :	:	:	:	19		:	: :	: .	;	: :	:	:	:	:	::	48,929		Unclass Cwts.	2,427	
:	: :	:	:	:	27		:	: :		:	: :	:	:	:	:	: :	149,321		, 4 9	: .	
:	::	:	:	:	10		:	: :	: :	:	::	:	:	:	:	::	99,241		Clams. Cwts.	: .	
:	: :	:	:	:	16		:	: :	:	:	::	:	:	:	:	::	276044		J		
:	::	:	:	:	:		:	: :	:	:	::	:	:	:	:	::	54,031		sels.	OS .	
:	: :	:	:	:	:		:	: :	:	:	::	:	:	:	:	::	165,051	TSH.	Mussels.	1,410	
1,627	÷ ₹	:	:	:	20,110		0.291	,,	:	27	.09		:	2,408	163	: :	22,681	SHELL-FISH.	5 0		
2,661	:	:	:	:	26,686		040	:	: :	22	:8	:	:	952	387	::	28,025	Si I	Crabs.	•	
1,158	::	:	:	:	7,189		969	3 :	:	25	39	:	:	927	33	: :	8,149		ž	: .	
2,018	: :	:	:	:	11,066		:4		:	20	:4	:	:	477	88	::	11,631		TS.		
469	: 4		:	:			1 222	4	:	6/1	.21	:	:	1,356	. 97	: :	3864		Lobsters.	2	. •
643	. 9	:	:	:	14463 12411		:61	:	:	61	18	:	:	432 1,	226	::	15121		Æ i	. 4	
:	::	:	:	:	510		195	3 :	: :	:	: :	:	:	125	33	::	899		€ 2	: .	
:	: :	:	:	:	1,157		:8	:	:	:	::	:	:	43	73	: :	1,273		Oysters. No.	:	30Ve)
:	::	:	:	:	:			: :		:	::	:	:	:	:	::	:				ded ar
:	: :	:	:	:	:		:	: :	:	:	: :	:	:	:	:	::	:			FISH	(nnclu (
Whitings	Conger Eels Gurnards	Catfish	Monks (Anglers)	Hake	Total of Round Fish .	FLAT.	Turbot	Lemon Soles .	Flounders	riaice, Large	Brill Small Dabs	Whitches	sungani	Total of Flat Fish	Skates and Rays	Unclassified kinds	GRAND TOTALS			TOTAL VALUE OF ALL	Figh used for Manure (included above)

Landed by foreign vessels (not included above) 1,410 cwts. herrings, value £599, and 4,750 cwts. cod, value £2,997 (for particulars see pp. 116-117).

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Stornoway during the Year 1921, and showing the catch and value during the previous Year.

						T		
61 1,231 345 	19,566	1,320	ಣ	::::	1,728	1,171	208,207	5,691 2 13,898
82 1,317 259 	23,341	 492 373	က	:::::	868	1,761 3,130	306,658	::::
1,300	17,334		88	::::	1,116	601 1,513	103,263	5,975 109,238 2,645
1,433	20,626	247 247 6 344	99	::::	663	1,074	162,274	3,662
::::::	35	: : :	26	::::	61	14	82,859	
::::::	06	:::	27	; : : :	37	.: 13	137,576	Unclassified. Cwts. £ 190 151
::::::	:		:	::::	5	:::	18,187	
::::::	:	:::01	:	::::	10	:::	29,276	Clams. Cowis.
::::::	38	: : : :	26	::::	56	: : 41	13306	B :
::::::	06	::::	27	::::	27	: :	16948 13306	•
:::::	:	::::	:	::::	:	:::	51,366	Mussels.
::::::	:	• : :	:	::::	:	:::	91,352	ISH. M. Cowite
1,300 287 .:	17,249	.: 62 1 399	32	::::	1,055	601	20,404	SHELL, FISH
1,433	20,536	247 6 334	39	: :	626	1,074	24,698	SI Crabs. No.
287 287 .: 33	14,780	521 339	32		955	466	17,700	
235 : : 20 20 20 20 20 20 20 20 20 20 20 20 20	17,205	212 6 334	33		591	851	21,109	Lobsters. 6. £ 30 5,824
:8 : : :	202	13:	:	::::	3 12	, ::	217	Lobs No. 96,230
95	235	: ::	:	.::::		::	244	96,
	2,267	:88 : :	:	: . :	88	132	2,487	<u> </u>
499	3,096	35 : :	:	::	32	217	3,345	Oysters. No. above)
- : : : : :	:	::::	:	::::	:	:::	:	ded.
:::::	:	:::	:	::::	:	:::	:	'Ish inclu
Whitings Conger Eels Gurnards Catfish Monks (Anglers)	Total of Round Fish .	FLAT. Turbot . Halibut . Lemon Soles . Flounders .	Plaice, Large ,, Medium	Brill Dabs Whitches Megrims	Total of Flat Fish	Skates and Rays . Squids Unclassified kinds .	GRAND TOTALS	Oyste No. FOTAL VALUE OF ALL FISH Fish used for Manure (included above)

* Included are 3 landings by flounder seine net vessels, totalling 27 cwts. plaice, valued at £56.

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Barra during the Year 1921, and showing the catch and value during the previous Year.

				ęż			88 .	77	15		20	17	375	130
			1920.	otal Quantit and Value.		43	63		29,315					
				Ĕ		Cwt.	41,163	602	41,765		468	218	13 955	250
			1921.	Total Quantity and Value.		વ	69,964	54	70,018		187	72	316	52
			19	Total Q and V		Cwt.	69,973	206	70,479		243	128	1,293	144
		al.			Value.	क्ष	69,964	54	70,018		:	:	::	:
		Total.	•	•	Quantity.	Cwt.	69,973	506	70,479		:	.:	::	• :
		1.			Value.	43	4,862	:00	4,870		:	:	: :,	:
	Nets.	Sail.			Quantity.	Cwt.	4,472	:8	4,532		:	:	::	:
	Ŋ	or.			Value.	43	16,401	.32	16,433		:	:	::	:
1		Motor	•	·	Quantity.	Cwt.	16,669	219	16,888		:	:	::	:
		m.			Value.	43	48,832 48,701 16,669 16,401	14	48,715 16,888		:	:	::	:
		Steam.	:		Quantity.	Cwt.	48,832	. 227	49,059		:	:	::	:
		al.			Value.	43	::	::	:		187	72	316	55
		Total.	:		Quantity.	Cwt.	::	::	:		243	128	1,293	144
					Value.	43	::	::	:		159	67	255	55
)	es.	Sail.			Quantity.	Cwt.	::	::	:		199	110	995	144
	Lines.	Motor.			Value.	લ્સ	::	::	:		23	ro.	.41	
		Moi			Quantity.	Cwt.	::	::	:		27	18	178	:
		Steam.	:		Value.	વર	::	::	:		70	:	:83	:
		Ste	·		Quantity.	Cwt.	::	::	:		17	:	120	
	Trawls.	Steam.	:	:	Value.	का	::	::	:		:	:	::	:
	Tra	Ste			Quantity.	Cwt.	::	:.:	:		:	:	::	:
	Method of Fishing.		No.ofVessels arriving Aggregate No. of	Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Sparings	Total of Pelagic Fish.	DEMERSAL FISH—Round	Cod	Ling	Saithe (Coal Fish) .	". Large ". Medium ". Small

,	::::	::::	::::	::::	::::	::::	::::	: : : :	::::	: : : :	: : : :	::::	::::	: : : :	::::	::::	: : : :	::::	::::	: : : :	.: 49	: 83
	: : :	:::	12		: 4	:07	::	::	.16		::	::	::	::	::	::	::	::	. 16	L	: 63	:
Total of Round Fish .	:	:	149	30	227	7.1	1,448	536	1,824	637	:	:	:	:	:	:	:	:	1,824	637	1,955	1,087
<u> </u>																						
	:	:	:	: -	: -	:"	:		: 6	. 6	:	:	:	:	:	:	:	:.	:	: 67	:6	: 10
	::	::	1 :	1 :	1 :	' :	: :8	·	: 0		: :	: :	: :	: :	: :	: :	: :	: :	: 080	. 20		7.5
	:	:	: :	: :	: :	: :	367	923	367	229	: :	: :	: :	: :	: :	: :	: :	: :	367	229	560	410
_				: :	. :	: :	:	:		:		:	:	:	:	:	:	:		:	:	:
_	 : :	: :	: :	: :	: :	: :	: :	: :	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	_	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	: :	: :	: :
	:	:	: -	: -	: -	: -	. 000	: 000	1 990	. 00	:	:	:						1 988	880	1 160	1 013
	:	:	7	4	4	-	000,		207	200	:	:	:	:	:	:	:	:	7,400	3	,,	
: .	: :	: :		::	10	es :	32	= :	24 :	14	::	::	::	: :	::	::	::	: :	. 42	14	261	163
_			:		::	:	752	454	752	•454	:	:	:	:	:	:	:	:	752	454	924	558
		-	150	31	238	75 3	3,468	1,888	3,856	1,994	49,059	49,059 48,715 1.6,888 16,433	.6,888	16,433	4,532	4,870	70,479	70,018	74,335	72,012	46,065	32,136
L		_							.00	SHELL-FISH	FISH						÷					
			No.	Oysters. No.		No.	Lobsters. No. £	***	Crabs. No.	કુ જુ	ර්	Mussels.	43	Clams. Cwts.	lams.		Unclassified. \mathcal{E} Cwts. \mathcal{E}	fied. £ 715		7.259		7.049
Toral Value of all Fish used for Manure (inclu " " Bait (TOTAL VALUE OF ALL FISH Fish used for Manure (included above) "Bait" "Bait"	. (ove	:							:			:						::::	79.271	:::	39,185

TABLE B.—No. II,—Return respecting Vessels arriving and Fish landed in the District of Loch Broom during the Year 1921, and showing the catch and value during the previous Year.

Lines,	Sail. Total. Steam. Motor. Sail. Total.	1920.	Total Quantity Total Quantity and Value.	Value. Quantity. Value. Quantity. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value.	Owt. £ Cwt. £ Cwt. £ Cwt. £ Cwt. £ Cwt. £ Cwt. £	2 1,301 5,860 1,	9 22 39 22 39 32 39 32	39 22 39 22 140 40 808 336 4,912 1,301 5,860 1,677 5,899 1,699 7,302 2,627			1,645 5,496 3,78		316 171 316 171 299 60 158 65 457 125 773 296 1,289 416	
Quantity. :	Value. Quantity. :	Value. Quantity.	Quantity.		Cwt.	4,912	:::	4,912			192	:	158	:
	: :	:				0					872			:
č	Steam.	:	:					140				:	::	:
	otal.	:		Value.		:								1,631
-	-			Quantity.	Cwt.	: :								1,931
Sail.		:	:							·				7 1,599
							-				131 1,23		: ::	32 1,897
	Motor.	:	:	Quantity.	Cwt. £	: :	:::				131 15	: :	: :	25 25
	Ġ			.ealue.	3	: :	:::				:	: :	: :	:
	Steam.	:	:	Quantity.	Cwt.	: :	:::				:	: :	:	:
	m.			Value.	43	: :	::	:			F1 1	ص :	:	4
	Steam.	•	:	Quantity.	Cwt.	: :	::	:			4 1	۵.	:	10
		No.ofVessels arriving Aggregate No. of	Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Sparlings Mackerel	Total of Pelagic Fish	DEMERSAL FISH-	ROUND.	Codling	Ling Torsk (Tusk)	Saithe (Coal Fish) Haddocks, ex. La.	" Large " Medium " Small

103	6,474	. 4 8 0g	441	::::	483	.: 78	10.	436 143 35
	_ !					,	5 9,707	15,
134 69 36 	9,126	: 24	266	::::	296	57	16,895	: : :
117 113	3,678	:°::	411	: 12	419	29	5,934	4,243 10,177 .40
140	5,360	:01 ::	280	:" :"	284	45	11,774	
::::::	662	::::	35	::::	35	:::	2,374	• • •
::::::	1,521	::::	30	::::	30	:::	7,411	fled. 18
::::::	171	::::	9	::::	9	:::	1,478	Unclassified. Cwts. £ 15
::::::	350	::::	9	::::	9	:::	5,268	
::::::	491	: : : :	53	::::	53	:::	856	Clams.
:::::	1,171	::::	24	::::	24	:::	2,003	Cwts.
::::::	:	::::	:	::::	:	: : :	40	
:::::	:		:	::::	:	:::	140	ISH. Mussels. Cwts. 331
17 13	3,006	:	375	:"::	381	29 .:	3,547	SHELL-FISH. M Cowto
140 15 52 	3,825	: 8 : :	249	:"::	252	186	4,347	Crabs. &
66 17 13 	2,843	: . :	375	:" : :	381	29	3,384	[
140 15 52 	3,660	: . :	249	: : :	252	45 186	4,182	8. 8. 4. 4. 18. 1
::::::	163	::::	:	::::		:::	163	Lobsters. 56,972 4,1
	165	: : : :	:		:	:::	165	N. 26,8
: : : : : :	:	::::	:	::::	:	: : :	:	Oysters.
::::::	:	::::	:	::::	:	:::	:	
	10	::::	1	: ::67	65	:::	13	above)
::::::	14	::::	F	:::	2	:::	16	SH chuded
Whitings Conger Eels Gurnards Gaffsh Monks (Anglers)	Total of Round Fish .	FLAT. Turbot. Halibut Lemon Soles.	Plaice, Large "Medium "Smell	Brill	Total of Flat Fish .	Skates and Rays . Squids . Unclassified kinds .	GRAND TOTALS .	TOTAL VALUE OF ALL FISH Fish used for Manure (included above) ", "Bait (",")

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Loch Carron and Skye during the Year 1921, and showing the catch and value during the previous Year.

		1920.	Total Quantity and Value.		rt. £	03 58,215	60 3,120	63 61,335			190'8 96	148 178	374 2,978	312 340
_		ı	ry Tota		Cwt.	19,439 80,403	906 5,360	45 85,763			11 2,596	69	3,674	390
		1921.	Total Quantity and Value.		41			20,345			1,311		1,408	
		31 .	Total (Cwt.	30,678	2,104	32,782			1,372	63	2,955	370
	Total.			Value.	લા	19,439	899	20,338			99	ĸ	1,119	:
	To		•	Quantity.	Cwt.	30,678	2,093	32,771			55	4	2,465	:
		*		Value.	લા	1,660	159	1,819			18	:	:"	:
Nets.	Sail.	:	:	Quantity.	Cwt.	4,477	469	4,946			==	.:	:4	:
Z	or.			Value.	બર	5,425	.: 423	5,848			84	70	1,116	:
	Motor.	:	•	Quantity.	Cwt.	9,282	1,075	10,357			44	4	2,461	:
	am.			.sulav	. 43	16,919 12,354	317	12,671			:	:	::	:
	Steam.	ľ	•	Quantity.	Cwt.	16,919	549	17,468			:	:	::	:
	Total.			√alue.	લ્ફ	:	. :	2			1,245	64	289	380
	To		•	Quantity.	Cwt.	:	: :=	11			1,317	29	490	370
	Sail.			Value.	ધા	:		7			1,072	44	182	380
s,	Sa		•	Quantity.	Cwt.	:	: :=	=			1,155	43	324	370
Lines.	Motor.			Value.	બર	:	: : :	:			95	10	:27	:
	Mo		•	Quantity.	Cwt.	:	:::	:			92	œ	:8:	:
	m.			•sulsV	લા	: :	: : :	:			18	10	95	:
	Steam.	:	:	Quantity.	Cwt.	: :	: : :	:			20	00	146	:
vls.	m.			Value.	લા	: :	:::	:			:	:	::	:
Trawls.	Steam.		•	Quantity.	Cwt.	: :	: : :	:			:	:	::	:
Method of Fishing.		No.of Vessels arriving Aggregate No. of	Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Sparlings Mackerel	Total of Pelagic Fish.	DEMERSAL FISH-	ROUND.	Codling	Ling	Saithe (Coal Fish)	". Large Medium Small

Whitings Conger Fels	::	; :	::	::	: 24	:08	119	119	143	149	: : :	.:::	:::	:::	: : :	:::	:::	:::	143	149	36 216 1	40 245 1
Gurnards	:	: :	:	:	: :	: :	:	' :	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Monks (Anglers) .	: : :	: :	: : :	: : :	.: 15	.37	::	:::	.15	.37	::	::	541	1,517	::	::	541	1,517	556	1,554	747	1,979
Total of Round Fish .	:	:	224	183	159	184	2,018	1,812	2,401	2,179	:	:	3,050	2,686	15	ដ	3,065	2,707	5,466	4,886	7,730	8,822
FLAT																						
Turbot	:	:	:	:	:	:	:	:	: 0	: 0	:	:	:	:	: :	: :	: :	: :	:	· 00	; c1	:∞
Halibut Lemon Soles	::	::	× :	:	::	::	: :8	::1	1 :80	110	:::	: : :	.:12		: : :	:::	15.	.56	101	136	:03	
Figurates Plaice, Large Medium	: :	: :	: :	: :	: :	:	3 -	60	1	က	:	:	17	54	:	:	17	54	18	2.2	11	27
Brill .	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:		:	: :	:	: :	: :	: :
Dabs Whitches	::	::	::	::	::	::	::	::	::	::	::	::	::	::	: :	::	::		: : :	: :	: : :	
Megrims	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:			À	
Total of Flat Fish .	:	:	63	œ	:	:	87	113	68	121	:	:	32	8	:	:	32	8	121	IQ.	0	104
Chatas and Rans					40	32	76	ಚ	116	105	:	:	.88	32	:	:	28	32	144	137	183	156
Squids	: : :	: : :	:::	:::	: "	:60	:49	:43	. 52	.46	.::	::	295	231	.6	13	304	243	356	289	448	445
GRAND TOTALS .	1:	1:	226	191	202	219	2,241	2,048	2,669	2,458	17,468 12,671 13,762	12,671	1 8	8,877	4,970	1,852	36,200	23,400	38,869	25,858	94,199	70,862
									SHE STATES	SHELLERISH	Щ	-		-								
	,	,	No.	Oysters. No.	Q	Lobsters.	ers.	Z	Crabs. No.	લા	5	Mussels. #ts.		Clams.	.sa :	DO4,	Unclassified Cwts. 4,456 2,4	ied. £ 2,459	•	6,771	:	8,480
TOTAL VALUE OF ALL FISH Fish used for Manure (included above) , Bait (", ")	rsn . included	above)		• • •						:									:::	32,628	:::	24.84

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Fort-William during the Year 1921, and showing the catch and value during the previous Year.

			1920.	Total Quantity and Value.		का	236,703	:	10,023	246,726			12,081	2,934	1,722	569
			19,	Total Quanti and Value.		Cwt.	95,500 290,069	:	11,137	301,206			9,956	2,565	3,111	432
			1921.	Total Quantity and Value.		લા	95,500	:	4,838	100,338			8,421	1,570	844	828
			19.	Total Quanti and Value.		Cwt.	95,500 116,783	:	7,634	124,417			8,837	1,898	12 1,805	632
		al.		;	Value.	43	95,500	:	4,838	100,338			21.6	:	91	:
		Total.	•	٠	Quantity.	Cwt.	116,783	:	7,634	124,417			1,101	:	167	:
4		ii.			Value.	વર	801	:	55	856			109	:	46	:
)	Nets.	Sail.		•	Quantity.	Cwt.	868	:	146	1,044			109	:	:83	:
	N	Motor.*		:	Value.	43	64,650 31,989 30,049	:	1,085	31,134			898	:	45	:
)	Mo			Quantity.	Cwt.	33,980		3 1,523	33,512			992	:	. 85	:
		*			Value.	41	64,65(:	3,698	68,348			:	:	::	:
		Steam.*	•	•	Quantity.	Cwt.	83,896	:	5,965	89,861			:	:	::	:
		Total.			Value.	Ŧ	:	:	: :	:	,		7,313	1,567	749	682
		To			Quantity.	Cwt.		:	: :	:			7,597	1,893	1,632	475
		Sail.			Value.	3	:	:	::	:			491	:	445	295
	Lines.	Sa	•	•	Quantity.	Cwt.	:	:	::	:		-	449	:	952	234
	Li	Motor.	:	:	Value.	43	:	•		:			1,310	261	:20	339
,		Mc	•	•	Quantity.	Cwt.	:	:	::	:			1,526	336	172	216
		Steam.	:	:	Value.	લા	:		: :	:			5,512	1,306	245	
		Ste			Quantity.	Cwt.	:	: :	: :	:			5,622	<u>–</u>	508	- 8
	Trawls.	Steam.	:	:	Value.	43	: :		::	:			131	က	:4	176
		š	Direc-	<i>c</i> · 1	Quantity.	Cwt.	?						3	٠.	: 9	157
	Method of Fishing.		No.ofVessels arriving Aggregate No. of	Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Sparlings	Mackerel .	Total of Pelagic Fish.	DEMERSAL FISH-	ROUND.	Codling	Ling Torsk (Tusk)	Saithe (Coal Fish) Haddocks, ex. La.	,, Large ,, Medium ,, Small

344 9,695 .1 621	28,075	21 3,061 13	1,006	10	.9	4,131	9,648	288,925	2,511 291,436
289 8,148 	24,953	476	492	63	43	987	8,200	335,913	· ::::
168 6,530 1 2,796	21,196	44 1,352 15 4	1,473	28		2,929	9,14 6 206	133,815	4,206 1 38,021
156 9,644 2 873	23,861	10 262 6 2	647	00	; 20 co	943	8,538	1 1	::::
:::::	1,068	::::	535	:	:: :	536	.: 13	101,955 158,448	sified. £ 732
:::::	1,268	::::	182	:	; ;	183	. : 23	125,890	Unclassified. Cwts. £ 1,640 732
::::::	155	::::	00	:	:::	σο	::03	1,021	٠ دي -
::::::	191	• • • • • •	4	:	:::	4	::	1,244	Clams,
::::::	913	. ::::	391	:	:::	391	::=	34,742 32,449	Cwts.
:::::	1,077	::::	136	:	:::	136		34,742	
:::::	:	::::	136		ë : □	137	:::	68,485	Mussels.
:::::		1.	42	:	: .	43	:::	89,904	1 . k
164 6,528 	19,798	1,345	400		:::	1,749	8,770 i93	30,510	SHELL-FISH 58. £ CA 135
9,641 	22,266	261 	277	.:	:::	540	8,017	31,490	Crabs. 9,660
9	1,364	:::4	286	:	:::	290	10	1,668	
106	1,751	: : : 67	206	:	.:::	208	8 :83	1,992	ers.
1,367 	3,553	309	114	.:	:::	423	2,719	6,748	Lobsters. 55,794 3
45 2,340 	4,707	.: 51	7.1	:	: : :	122	2,682	22,094 7,713	
5,155	15,808 14,881	1,036	:	:	:::	1,036	6,047		STS.
7,293	15,808	210 	:	:	:::	210	5,327	21,785	Oysters. No. Lbove)
401 :uuo	330	44 77 151	538	28	:∞4	644	376	1350	led s
10 to : 01 01 00	327	01.0	188	00	: 10 62	220	521	1068 1350	se nclud
Whitings Conger Eels Gurnards Catfish Monks (Anglers)	Total of Round Fish .	FLAT. Turbot Halibut Lemon Soles	E .	Small	ches	Total of Flat Fish .	Skates and Rays . Squids . Unclassified kinds .	GRAND TOTALS	Oy TOTAL VALUE OF ALL FISH Fish used for Manure (included above) " Bait (" ")
Whiting Conger Gurnard Catfish Monks (Hake	Total o	Turbot Halibut Lemon S	Plaic	Brill	Dabs . Whitches Megrims	Total o	Skate Squic Unch	GRAD	Torat. Fish us

* Included are 4 landings by steam and 5 by motor vessels using Danish seine nets totalling 133 cwts. (mostly plaice), valued at £411 (steam, 43 cwts., £137; motor, 90 cwts., £274).

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Campbeltown during the Year 1921, and showing the catch and value during the previous Year.

Gurnards Catfish		· 673	:=	300	128	1 0 :	707	116	99	: :	::	::	: :	: :	: :	: :	: :	116	38	145	142
Catfish	:	1	1	3	}	:									:	:	:	:	:	:	:
Catfish	:		:	:		:	:	:	:	:	:	•	:	:	:						
Man Land American	•	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	•	:
MOURS (Augusts)	:	:	:		:	:		:	:	:	:	:	:	:	:	:	:	:		:	
Hake	:	:	:	67	9	:	:	23	9	:	:	:	:	:	:	:	:	4	0	0	10
Total of Round Fish .	:	45	4	3,036	2,939	1,750	1,233	4,831	4,216	:	:	382	287	63	6.1	384	587	5,215	4,505	6,398	6,366
HT AT		-									<u> </u> 										
		_		,	c			-	c									_	cc	6	oc
Turbot	:	:	:0	1 %	3 7 5	:	:	- 10°	167	:	:	:	:00	:	: :	:	· 63	26	170	37	202
Tamon Colos	:	:	4	3	3	:	:	3			: :	1	4	: :	: :	-	4	7	7	9	35
Flounders	: :	: :	: :	:07	: 4	53	1117	55	121	: :	: :	:	' :	::	:	:		55	121	39	118
Plaice, Large							-	1	0		-	•				200	GE !	600	0	0110	1 404
" Medium	:	:	:	63	9	145	426	147	432	:	:	136	212	:	:	007	7)+	200	#O8	0)0	1,404
b-in Small															:	;		:	:		:
Dahs		:	:	:	: :	:=	:33	: =	31	: :	: :	: :	: :	: :	: :	: :	: :	11	31	15	41
Whitches	:	:	:	:	:	1	!	;	:				:	:	:	:	:	:	:	:	:
Mosnims	:	:	:	:	:	:	:	:			: :	: ;	: :			:	:	:	:	:	:
· · · · · · · · · · · · · · · · · · ·		:	:	:	:	:	•	:	:	:	:		:								
Total of Flat Fish	:	:	62	93	178	209	574	239	754	·:	:	138	479	:	:	138	479	377	1,233	475	1,813
Skates and Rays .	:	14	=	338	211	:	:	352	222	:	:	:	:	:	:	:	:	352	77.77	574	537
Squids .	:	:-	:-	:	:		:	:	:	: :	: :	: :	: :	: :	: :	: :	: :	:	Ξ.	: :	: :
Oliciassilled Allica		÷	4	:	:	:		1	•	:	:	:	:								
GRAND TOTALS	:	99	58	3,404 3,328 1,959	3,328	1	1,807	5,423	5,193	:	:	90,604 4	46,860	263	154	90,867	47,014	96,290	52,207	81,469	53,331
			Ī							Ì											
								SHE	SHELL-FISH	H											
				1-1			Č	9		Mfr			Clomo	,	IIn	lassiflad					
	No.	ers.		No.	320		S. S.	Crabs.		Cwts.	Cwts.		Cwts.	4 43	Cwts	Cwts.			2006		0.674
Tours Varing On art. Press	:	:	r)	27,412	2,265	9	080	,		400	<u>ځ</u>		:	: '	ď,	£20 .	٠	: :	55.233	: :	56.205
Fish used for Manure (included above)	ed above)					٠.	٠.			• •									1 049	1.697	047
" Dall "										•	•								-,0-1	2017	

* Included are 135 landings by flounder seine net vessels totalling 238 cwts., valued at £647, mostly plaice and codlings.

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Inveraray during the Year 1921, and showing the catch and value during the previous Year.

		mtity ue.		क्ष	36,281	1,051	37,332	
		1921. 1920. Total Quantity Total Quantity and Value.		Cwt.		2,311	96,293	316
-		intity T		chs	43,614 93,982	576	44,190 9	309
		1921. Otal Quantii and Value.		Cwt.	4	1,306	99,430	244
	.r.		Value.	e3	43,614	576	44,190	157
	Total.	:	Quantity.	Cwt.	98,124	1,306	99,430	39
			Value.	લા	88	6	92	::::::
Nets.	Sail.	: :	Quantity.	Cwt.	238	41	279	: : : :
Ż	or.		Value.	43	43,531	567	44,098	157
	Motor.		Quantity.	Cwt.	98,886	1,265	99,151	39
	n.		Value.	93	: :	::	:	: ::: :
	Şteam.	:	Quantity.	Cwt.	::	::	:	::::::
	al.		Value.	લા	: :	::	:	152
	Total.		Quantity.	Cwt.	::	::	:	104
	ii.		Value.	લા	::	::	:	.: 19
Lines.	Sail.	•	Quantity.	Cwt.	::	::		14 : : 6 :
	or.		Value.	43	::	::		133
	Motor.		Quantity.	Cwt.	::	::	:	96
	am.	:	Value.	43	::	::.		: ::: :
	Steam.	•	Quantity.	Cwt.	::	::	:	: ::. :
Trawls.	Steam.		Value.	લ્ફ	::	::	:	: ::: :
Tra	Ste		Quantity.	Cwt.	: :	::	:	: :::::
Method of Fishing.		No.ofVessels arriving Aggregate No. of Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Sparlings Mackerel	Cotal of Pelagic Fish .	Cod Cod Cod Cod Cod Codling Ling Torsk (Tusk) Saithe (Coal Fish) Haddocks, ex. La. "Large "Large "Medium "Medium "Small "Small

Whitings Conger Bels Gurnards Catfish Monks (Anglers) Hake	::::::	::::::		::::::		:4 : : : :	::::::	:::::	:01 : : : :	4	::::::	::::::	::::::	::::::	:::::	::::::	::::::	::::::	· ₆₂ : : : :	: * : : : :	17	
Total of Round Fish .	:	:	:	:	96	138	20	22	116	160	:	:	179	177	:	:	179	177	295	337	515	591
FLAT.																						
Turbot	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:		: :	: :	: :	: :	: :
Halibut Lemon Soles	: :	: :	: :	::	::	::	::	::	::	::	: :	::	::	: :	::	::	: :	: :	: :	: :	: :	::
Flounders	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	o	G.
", Medium	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Dabs	:	:	:	:	:	:	:	:	:	:	:	:	:	: :	: :	: :	: :	: :	: :	: :	: :	: :
Whitenes Megrims	::	: :	::	::	: :	::	: :	::	: :	: :	: :	::	::	: :	::	: :	:	:	:	:	:	:
Total of Flat Fish .	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	5	13
£ 1														:	:	:	:	:	:	:	13	43
Squids	: :	: :	::	: :	: :	::	: :	: :	: :	: :	: :	::	:	:	:	:	:	:	:	:	:	: :
Unclassified kinds .	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:					
GRAND TOTALS .	:	:	:	:	96	138	20	22	116	160	:	6	99,330	44,275	279	92	609,66	44,367	99,725	44,527	96,826	37,979
									5	SHELLERISH	HSIP											
					,									1		Trologgi	ر ا					
			Oysters. No. £	ers. Se se	No I	Lobsters. No. £	eo 5	No.	o.	•	Cwts.	• 4 a ∶	Ď.	Cwts. £		Cwts. £ 392 102	£ 105		:	186	:	1,940
TOTAL VALUE OF ALL FIS	H.							:	•	•					•				: :	45,508	: :	39,919
Figh used for Manure (included above)	ciuded a	,)							. ,										:	:	:	:

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of **Rothesay** during the Year 1921, and showing the catch and value during the previous Year.

		20°	alue.		લા	19,417	560	19,977		100	÷,102	335	61
		1920.	and Value.		Cwt.	50,596	1,356	51,952		0.610	44	415	н
		21.	and Value.		લા	5,264	406	5,670		1 969		154	:
		1921.	and Value.		Cwt.	11,132	839	11,971		1 109	:	228	:
	tal.			Value,	લર	5,264	406	5,670		Š	· :	120	:
	Total.	•	• 、	Quantity.	Cwt.	11,132	839	11,971		27	:	170	:
	Sail.*			Value.	43	327	114	441		006	:	.49	:
ts.	Sa		•	Quantity.	Cwt.	413	241	654		0,4	:	. 62	:
Nets.	Motor.*			·9nlæV	બ	4,937	292	5,229		80	3:	7.5	:
	Mot	•	•	Quantity.	Cwt.	612,01	598	11,317.		798	3 :	108	:
	Steam.			.eulaV	બર	::	::	:			: :	: :	:
	Ste	•	•	Quantity.	Cwt.	::	::	:			: :	::	:
	al.			Value.	3	::	::	:		957	:	:45	:
	Total.	•	•	Quantity.	Cwt.	::	::	:		576	:	28	:
	il.			Value	વ	::	::	:		75.9	:	17	:
Lines.	Sail.			Quantity.	Cwt.	::	::	:		431	:	17	:
l.	or.		<u>.</u> .	Value.	43	::	::	:		30k	:	17.	:
	Motor.	•		Quantity.	Cwt.	::	::	:		145	:	:4	;
	Steam.		:	Value.	43	::	::	:			: :	::	:
	Ste			Quantity.	Cwt.	::	::	:			: :	::	:
Trawls.	Steam.	:	:	Value.	43	::	::	:			: :	::	:
Tra	Ste	·		Quantity.	Cwt.	::	::	:			: :	::	:
Method of Fishing.		No.of Vessels arriving Aggregate No. of Days absent from	Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Sparlings Mackerel	Total of Pelagic Fish.	DEMERSAL FISH-	ROUND.	Coaing	Torsk (Tusk) Saithe (Coal Fish) Haddocks, ex. La.	., Large Medium Small

Triumga Gonger Eels Gatish Monks (Anglers)	: : : : :	: : : : : :	:::::::	::::::	:4:::	:27 : : :	<u>+</u> : : : : :	8 : : : :	44 : : : :	84 : : : :	:::::	:::::	: : : : : :	::::::	· · · · · · · · · · · · · · · · · · ·	:::::º	::::::	:::::º	44 : : : .	824 : : : 9	38	64 795
					230	267	462	797	692	1,064	:	:	495	681	224	350	719	1,031	1,411	2,095	3,890	5,447
	::::	::::	::::	::::	. : :		: : :		: : : 52	::	::::	::::	:::	:::8	:::=	: : :88	:::8	: : :8	:::4	 .: 172	: : :8	36
	:	;	:	:	4	41	14	31	18	35	:	:	00	32	-	17	15	4 9	33	84	56	238
	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::	::::
		1		:	19	62	25	89	44	147	:	:	15	09	18	49	33	109	77	256	98	333
Skates and Rays		: : :	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::	; ; ;	:::	359	372
·			:	:	249 3	346	487	865	736	1,211	:	:	11,827	5,970	968	840	12,723	6,810	13,459	8,021	56,287	26,129
Frsh.	Oys No. TOTAL VALUE OF ALL FISH. Fish used for Manure (included above) , , Bait (, , ,)	Oysters. No. *£ thouse) thouse)			Lobsters. No. £ 3,692 272	ers. 272		Crabs.	SHEI SHEI	SHELL-FISH	04	Mussels, 5, 527 308	• • •	Clams.	• • • • • • • • • • • • • • • • • • •	₽\$ ⁸	Unclassified.	339 339	::::	919 8,940 	::::	765 26,894

* Included are 14 landings by motor and 9 by sail vessels using flounder seine nets totalling 26 cwts. (mostly flounders and plaice), valued at £89 (motor 15 cwts., £60; sail 11 cwts., £29).

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Greenock during the Year 1921, and showing the catch and value during the previous Year.

_		Δ.					,	
		1920. otal Quantity and Value.		લા	6,085	516	6,601	1,218 60 46
		19 Total C and		Cwt.	9,373	985	10,355	5538 44 : 42 · 6
		1. nantity alue.		43	4,789	:82	4,874	881 33 4 19 36
		Total Quantity and Value. Total Quantity and Value.	•	Cwt.	10,423	186	10,609	503 59 10 34
	al.		Value.	લ્વ	4,542	. 82	4,627	105
	Total.		Quantity.	Cwt.	9,702	186	9,888	₹ ::: :
			Value.	લા	79	78	157	105
	Sail.		Quantity.	Cwt.	110	179	289	4 ::: :
Nets.	or.*		Value.	લા	4,463		4,470	:::::
	Motor.*		Quantity.	Cwt.	9,592	:	9,599	:::::
	in.		Value.	ધર	::	::	:	: ::: ;
	Steam	: :	.viitnauQ	Cwt.	::	::	:	: : : : :
-	al.		Value,	લા	: :	::	:	33 33 36 36
	Total.		Quantity.	Cwt.	::	::	:	449 59 10 34
	il.		Value.	ધર	::	::	:	.: 13
Lines.	Sail.	: :	Quantity.	Cwt.	::	::		382 .: 22 21
I	Motor.	: :	Value.	का	:::	::	:	171
	Mo		Quantity.	Cwt.	::	::	:	107
	Steam	: :	Value.	ધર	::	::	:	e & & . :
_	St		Quantity.	Cwt.	::	::	:	01 68 50 : :
Trawls.	Steam.	: :	.9ulaV	ea	247	::	247	:::: 1:
Tra	Ste		Quantity.	Cwt.	721	::	721	:::::::
Method of Fishing.		No.ofVessels arriving Aggregate No. of Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings Sprats	Sparlings Mackerel	Total of Pelagic Fish .	DEMERSAL FISH— ROUND. Cod Codling: Ling Torsk (Tusk): Saithe (Coal Fish): Haddocks, ex. La. Large " Large " Medium

8 : : :	1,474	378	74	::::	455	129	8,675	1,036 9,711
59	732	1 : 1	21		166	143	11,406	::::
51 : : : : E	1,063	.: 407 290	113	::::	810	. 26	6,775	964 7,789
103	069		53	::::	253	51	11,607	
:::::	105		12	::::	243	:::	4,975	
:::::	42	:::	က	: : : :	121	:::	10,063	Unclassified. £ 779 233
::::::	105	: : :3	12	::::	2.2	:::	319	Inclass Wts.
::::::	54	: :: 3	ಣ	::::	23	:::	372	
	:	186		:::::	186	:::	4,656	Clams.
:::::	: '	: : :6	:	::::	92	:::	9,691	CCwts.
::::::	:	::::	:	::::	:	:::	:	. £ 400
:::::	:	::::	:	::::	:	:::	:	Mussels. Cwts. 3,463
138 : : : :	958	 59	101	::::	567	23 : 23	1,553	SHELL-FISH. * \$ Cwt 3,46
10 : : : :	636	: ² : 8	56	::::	132	51	823	sqr
188 : : : :	722	: ::	° 50	::::	77	c3	802	, N
#10 : : : :	426	.::	7	::::	38	1 :4	469	
E3 : : : : :	190	:::∞	75	::::	83	:::	273	Lobsters. No. £ 4,176 331
12 : : : : :	131	: : : 6/	19	::::	21	:::	152	L 4,17
::::::	46	407	:	::;:	407	33 : :	478	4a :
::::::	79	73:	:	::::	73	ુક : :	202	Oysters. No.
:::::	:	::::	:	::::	:	:::	247	Oy No.
::::::	:		:	::::	:	:::	721	ssr .
Whitings Conger Eels Gurnards Catfish Monks (Anglers) Hake	Total of Round Fish .	FLAT. Turbot Halibut Lemon Soles	Plaice, Large.	Brill Dabs Whitches Megrins	Total of Flat Fish .	Skates and Rays . Squids . Unclassified kinds .	GRAND TOTALS .	TOTAL VALUE OF ALL FISH . Fish used for Manure (included above) , , Bait (, , , ,)

* Included are 70 landings by flounder seine net vessels totalling 86 cwts., valued at £177, mostly flounders.

TABLE B.—No. II.—Return respecting Vessels arriving and Fish landed in the District of Ballantrae during the Year 1921, and showing the catch and value during the previous Year.

		1920. Total Quantity and Value.		લા	19,072	2,459	21,628		14	1,100	1,639
				Cwt.	34,640	3,879	38,535		10,750	382 2,268	1,020
		1921 Total Quantity and Value.		લ	14,080	236 705	15,021		11,291	295	843
		1921 Total Quanti and Value.		Cwt.	38,318	.: 1,033	39,402		10,001	1,049	517
	tal.		Value,	સ	14,080	236 598	14,914		3,890	183	112
	Total		Quantity.	Cwt.	38,318	51 926	39,295		4,927	969	99
	Sail.*		Value.	33	47	236	359		989 .	.:	:
Nets.	Sa	: :	Quantity.	Cwt.	80	51	202		557	. : 43	:
4	Motor.*		Value.	સ	13,969	525	14,491		3,204	156	112
	Mot	: :	Quantity.	Cwt.	38,014	852	38,866		4,370	926	99
	m.		Value.	43	64	::::	64		:	:::	•
	Steam.		Quantity.	Cwt.	224	:::	224		:	:::	:
	al.		Value.	બ	:	101	101		7,401	.:	731
	Total.		Quantity.	Cwt.	:	107	107		5,074	194	451
	ii.		Value.	43	:	::	91		1,640	:::	06
Lines.	Sail.		Quantity.	Cwt.	:	: :82	82		973	:::	45
7	Motor.		Value.	બર	:	.: 16	16		5,606	.:7	641
	Mo	- ` .	. Viitneu D	Cwt.	:	::22	25		4,011	. Se	406
	Steam.	: ;	Value.	4 4	:	:::	:		155	ž : :	:
	Ste		Quantity.	Cwt.	:	:::	:		06	S ::	:
wls.			Value.	બ	:	:::	:		:	:::	:
Trawls.	Sail.	: :	Quantity.	Cwt.	:	:::	:		:	:::	:
Method of Fishing.		No.ofVesselsarriving Aggregate No. of Days absent from Port	Description of Fish.	PELAGIC FISH—	Herrings	Sprats Sparlings Mackerel	Total of Pelagic Fish.	DEMERSAL FISH.— ROUND.	Codling	Torsk (Tusk). Saithe (Coal Fish).	Medium

4,561 836 20 8	326	23,702	144 54 111 1.973	13,934	30 342 71 24	16,683	1,848	64,051	12,249 76,300
2,696 643 82	187	18,030	50 14 19 858		111 183 41 15	7,488	1,784	65,979	::::
3,571	7.0	17,635	84 13 807	8,161	.: 188 ::	609,6	2,317	44,586	11,084 55,670
1,901	.53	14,858	26 16 569	4,106	146	4,940	2,180	61,383	::::
::::	36	4,221	78 .: 13 807	5,686	138	6,909	453	26,497	led. £ 7,118
::::	:17	5,973	. 25 . 25 . 269	1,935	:82 74 :	2,687	431	48,386	Unclassified. Cwts. \$ 5,959 7,118
::::	::	713		435	.: 36	1,278	155	2,505	
::::		009		182	.:	767	141	1,713	Clams.
::::	36	3,508	78	5,251	102	5,631	298	23,928	Cha Cwts.
: : : :	:1	5,373	. 23	1,753	66	1,920	590	46,449	sels.
::::	::	:		:	::::	:	:::	64	Mussels. Cwts. 3,305 73
::::	::	:	:::	: :	::::	:	:::	224	
3,571	.34	13,414	902.	461	148	989	1,864	16,075	SHELL-FISH Crabs. £ 0. \$ 194 896
1,901	.:	8,885	1 16	157	. 1 1	239	1,749	10,983	SHELL- Crabs. No. 146,694 86
441	::	2,171	:::	253	105	358	114	2,738	
240	::	1,258	:::	: 88	: 49	129	104	1,576	Lobsters. 14,523 82
3,130	.34	10,301	. A :	208	 43 	303	1,212	11,832	144
1,661	. 12	7,012	77 :	74	188	105	1,215	8,357	ors. £ 1,513
750	:::	942	İ	: :	::::	25	538	1,505	Oysters. 210,875 1.
200	::	615	: 2:	: :		. 07	430	1,050	
::::	:::	:	:::	2,014	::::	2,014	:::	2,014	d above
::::	:::	:	:::	2,014	::::	2,014	:::	2,014	ISH include
Whitings Conger Eels Gurnards	Monks (Anglers)	Total of Round Fish.	FLAT. Turbot	Plaice, Large	Small Brill Dabs Whitches Megrins	Total of Flat Fish .	Skates and Rays . Squids . Unclassified kinds .	GRAND TOTALS	TOTAL VALUE OF ALL FISH Fish used for Manure (included above) "Bait ("" ")

* Included are 1,173 landings by motor and 26 by sail vessels using flounder seine nets, totalling 2,231 cwts. (mostly plaice), valued at £6039 (motor 2207 cwts., £5977; sail 24 cwts., £62).

TABLE B.—No. II.—FISH LANDED.—STATEMENT of the Total Quantity and Value of the different kinds of White and Shell-Fish landed on the East Coast of Scotland during the Year 1921.

	1920. Grand Total Quantity and Value.	ႷႨ	1,323,332 5,001 762 11,251			1,195,429	108,044 8,963 88,653	1,551,671	129,008 1,817 1,684 16,687 12,615	3,1
	1920. Grand Total Quantity and Value.	Cwt.	1,805,475 33,189 192 30,495	1,869,351		899,294	120,490 10,301 144,629	1,255,185 1,169,657	152,927 1,693 4,939 21,432 18,600	87,
	21. Total ntity alue.	ध्भ	568,859 5,446 664 14,273	589,242		962,538	103,008 14,874 50,854	1,255,185	135,235 1,542 1,747 17,687 14,772	2,603,562
	1921. Grand Total Quantity and Value.	Cwt.	1,194,869 44,633 202 35,982	1,275,686			139,439 15,511 100,157	915,748	172,603 1,772 5,870 21,365 26,322	63,566 2,099,098
	Value,	બ	557,083 5,446 664 10,550	573,743		54,916	. 245	6,880	1,210 1,210 1,88	63,566
E	Quantity.	Cwt.	1,176,763 44,633 202 30,850	1,252,448		51,100	394	4,435	37 19 68 830 596	57,484
	.slue.	બ	8,219 3,488 664 147	12,518		6,700	.: 52	:	88	6,834
NETS.+	Vitang Q	Cwt.	22,449 31,330 202 541	54,522		7,140	::	:	19	7,294
Motor	Value.	બ	277,348 1,958 4,299	283,605		38,821	139	489	1,206	40,774
×	Quantity.	Cwt.	271,516 552,185 13,303 6,104 14,808	580,296		34,999	215	308	 827 357	36,707
	Value.	બો		277,620		68'6		6,391	8 :1 4.69	15,8
Steam	.vditanuQ	Cwt.	602,129	617,630		8,961	. 121	4,126		13,483
A.	Value.	લ	69	1,475		6.4	61,081 13,723 4,312	266,932	17,904 1,206 1,272 1,272 4	467,511 586,756
Torat	Quantity.	Cwt.	55	2,101		-	85,501 14,258 8,823	154,751	31,021 1,166 19 1,195 6 284	467,511
Sail	Value.	ધ્ય	.: 787	802		36,375	972	31,447	2,679 109 2 109	71,741
LINES.	Quantity.	Cwt.		1,148		32,1	1,668	22,080	3,796 65 8 81	59,874
LIN Motor.	Value.	4 3	51	670		109	4,837 15 1,371	234,315	15,225 817 3 1,084 65	366,797
¥	Quantity.	Cwt.	42 911	953			8 3,723 8 2,559	1,170 131784	27,225 00 757 16 18 9 971 20 20	8 249890
Steam.	Value,	43	,::::I	:			4 13,708 6 1,969		.: 280 3 . 79 4 520	7 148,21
St	.vdidanuQ	Cwt.	::::	:			14,234 7 4,596	3 887	344 344 143 1043	157,74
VLS. m.*	Value.	બો	11,707	14,024		•	41,924 1,151 46,297	981,373	117,314, 253, 1,730, 15,205, 14,570, 45,533	1,953,24
TRAWLS.	Quantity.	Cwt.	18,051	21,137		455,748	1,253 90,940	756,562	141,545 587 5,783 19,340 25,720 22,689	1,574,103 1,953,240 157,747 148,218 249890 3
	DESCRIPTION OF FISH.	PELAGIC FISH.	Herrings Sprats Sparlings Mackerel	Total of Pelagic Fish	DEMERSAL FISH. (a) ROUND.	Coding }	Torsk (Tusk) Saithe (Coal Fish) Haddocks, ex. La.	", Large (Whitings Conger Bels Gurnards Catfish Monks (Anglers)	Total of Round Fish

-	25,763 349,595 138,971 3,716	270,927	1,672 6,709 13,275 26,112	836,740	06,590	1,663	:	,393,087	:	:					
a.	7,803 73,737 33,110 2,096	84,023	8,627 5,976 11,384	227,387	112,314	3,340	:	4,772,145 5,393,087	:	:					
	27,185 328,253 178,297 3,106	278,855	1,888 6,392 15,742 24,409	864,127	99,957	2,093	4,159,072	:	:	1,234,015	,		£ 47,368 48,230	862	
	7,786 74,108 41,156 1,652	83,123	678 9,197 7,389 10,883	235,972	158,700	304 5,269	3,775,029	:	 -	997,116				_	
	104 362 4,514 1,540	75,171	1,187 1,187 1,087 118	84,254	892	: 15	722,470	1,396,377	:	673,907		00	1921 1920	:	
-	27 102 1,086 937	31,809	63 1,650 582 582	36,314	1,278	:	1,347,562	1,885,592	:	538,030		Unclassified. Jwt. £ ,952 2,638	Total Value of Shell-Fish for 1920	:	
	18 297	282	::::	601	47	::	20,000	39,123	:	19,123		Unel Cwt. 8,952	e of Shel	21	
	5 188	115	• : : :	309	36	::	62,161	102,121	:	39,960			otal Valu	Decrease in 1921	
	32 155 1,243	51,951	1,082	55,582	361	::	380,322	451,590	:	71,268		Clams.	I	Decre	
	7 47 194 749	24,883	13 1,551 12	27,457	354	::	644,814	544,261	100,553	:		Cla Cwt. 7,269			£4,208,440 5,441,317 £1,234,877
	68 189 3,442	22,938	151 105 1,062 116	28,071	484	15	322,148	905,664	:	598,623 583,516					1921, £4, 1920, 5, 1921, £1,
	19	6,811	570 570 570	8,548	888	:88	640,587	1,239,210 905,664 544,261	:	598,623	و	Mussels. £ 8,151			Grand Total Value of Fish and Shell-Fish for 1921, £4,206,440 1920, 5,441,317 Decrease in 1921, £1,234,877
	55 290,055 588 644	15,552	8.68	307,790	63,659	864	960,544	914,967	45,577		SHELL-FISH.	Cwt. 92,900			nd Shell- "Dec
	15 .66,723 166 403	6,253		74,187	97,752	2,322	613,873	555,751	88,122	:	SHE	18.651			f Fish a
	133	6,455	.: .:	7,404		27	80,158	88,149	:	7,991		Crabs			Value o
,	. 26	2,649	315	3,265		. 25	64,536	68,114	:	3,578		No. 1,560,091			l Total
	7,261 579 210	260'6		17,704	9,264	32	394,467	368,540	25,927	-		ers. 17,336			Grand "
Noncome	1 1,617 1 1,617 163 131	3,604	312	5,837	54,214 11,436	73	268189	230029	27,641 38,160			35			
	65,080 282,661	:	::::	282,682		805	485,918	458,278				No. 268,929			
		:	::::	65,085	86,092	2,234	311,148	257,608	53,540	:					
	27,026 37,836 173,195 922	188,132	1,717 4,309 14,655 24,291	472,083	35,406	1,214	2,476,058	3,081,743	:	605,685		Oysters. No.			
	7,744 7,283 39,904 312	45,061	615 6,920 6,807 10,825	125,471	59,670	2,909	1,783,594 2,476,058 311,148 485,919 268189 39	2,330,802 3,081,743 257,608 458,278 230029 36	:	547,208		NO.			
(b) FLAT.	Turbot . Halibut . Lemon Soles . Flounders .	Flaice, Large	Brill	Total of Flat Fish .	Skates and Rays .	Unclassified kinds	Total for 1921	Total for 1920	Increase in 1921 .	Decrease in 1921					

Included are landings by motor trawlers totalling 1,546 cwts, valued at £5,093, mostly plaice, haddocks and codlings.

Included are 779 landings by steam and 107 by motor vessels using Danish seine nets fotalling 15,013 cwts. (mostly plaice and haddocks), valued at £37,492 (steam 14,239 cwts., £35,511; motor 774 cwts., £1,931), and 9,048 landings by motor and 2 by sail vessels using flounder seine nets totalling 26,104 cwts. (mostly plaice), valued at £49,910 (sail 3 cwts., £5; balance motor).

TABLE B.-No. II.-FISH LANDED.-STATEMENT of the Total Quantity and Value of the different kinds of White and Shell-Fish landed in Orkney and Shetland during the Year 1921.

	0.	Total tity alue.	બ	288,922	289,501		8,340	1,056 302 2,427	17,919	1,170	:::	31,217
	1920.	Grand Total Quantity and Value.	Cwt.	402,443	404,206		7,703	1,410 688 6,594	17,249	1,299	. : : :	34,947
		Fotal sity slue.	બ	222,346	222,726		7,232	580 181 1,517	17,199	1,648	: : :	28,361
	1921.	Grand Total Quantity and Value.	Cwt.	660,395			6,419	708 321 4,153	18,771	2,677	:::	33,085
	r	.sulaV	બ	222,346	222,726		53	:::	:	::	::::	59
	TOTAL.	Quantity.	Cwt.	660,395	-		43	:::	:	::	::::	43
		.salue.	બ	51,996	52,105		19	:::	:	::	::::	19
rs.	Sail.	Quantity.	Cwt.	160,311	160,746		27	:::	:	::	: : : :	27
NETS.	Motor.	.eulaV	બ	63,240 302680 107,110	-		10	:::	:	::	: : : :	10
	Mo	Quantity.	Cwt.	302680			16	:::	:	: :	: : : :	16
		,enlaV	બ	63,240	63,365		:	:::	:		: : : :	:
	Steam	Quantity.	Cwt.	197,404	197,973		*	:::	:	• • •	: : : :	:
	Δī.	.enlaV	બ	::::	:		2,030	580 181 1,517	16,926	1,648	· : : :	27,886
	TOTAL.	Quantity.	Cwt.	::::	:		6,277	708 321 4,153	18,558	2,677	· : : :	32,700
		.enlaV	બ	::::	:		3,684	235 45 1,023	5,480	1,158	::::	11,625
ES.	Sail.	Quantity.	Cwt.	: : : :	:		8,370	324 84 2,317	6,924	2,018	::::	15,067
LINES	or.	.eulaV	બ	::::	:		3,152	238 326 326	11,446	490	:::	12
	Motor.	Quantity.	Cwt.	: : : :	:		2,541	265 175 1,196	11,634 11,	659	:::	16,476 15,7
	m.	Value.	બ	::::	:		194	104 168	:	:::	:::	510
	Steam.	Quantity.	Cwt.	::::	:		366	119 62 61 0	:	:::	:::	1,157
VLS.	m.	Value.	બ		:		173	:::	273	:::	:::	446
TRAWLS.	Steam.	Quantity.	Cwt.	::::	:		129	:::	213	:::	:::	342
	THO THOUSAND	DESCRIPTION OF FISH.	PELAGIC FISH.	Herrings Sprats Sparlings Mackerel	Total of Pelagic Fish	DEMERSAL FISH.	Cod Codling	Ling Torsk (Tusk) Saithe (Coal Fish) Haddocks, ex. La	" Large " Medium	ಜಿಕ್ಷಕ	Catfish Monks (Anglers) . Hake .	Total of Round Fish

	5,154	: 8	. 30	.118	::	5,386	280	::	:	326,894	:	:					
_	1,655	47	15	87		1,804	1,140			442,097 32	 .						-
_		•	_	:	::			• •		442	:	_				_	
	2,761	102	79	: 96	::	3,038	429	::	254,554	:	:	72,340		-	9,536 10,585	1,049	
	986.	: 53	49	: 79	::	1,177	643	::	697,036	:	254,939	:					
-	::	::	:	::	: :	:		::	22,755	290,309	:	67,554		ed. £ 864	::	:	
	::	::	:	::	::	:	:	::	662,174 222,755	405,990 2	256,184	-		Unclassified. ε Cwt. ε 3,381 864	sh for 192 192	:	
	::	::	:	::	::	:	:	::	52,124	29,456	22,668	:		٠ ښ:	Total Value of Shell-Fish for 1921	921	
	::	::	:	::	::	:		• ;	160,773	45,400	115,373	:		Jams.	tal Value	Decrease in 1921	
	::	::	:	::	::	:		::	63,365 303428 107,266	35,753	71,513	:		Cwt.	To	Dec	
_	::	::	:	::	::	:	:	::	303428		251241	:		300 300			£264,090 337,479 £73,389
	::	;;	:	::	::	:	:	::	63,365	225,100 52,187	:	161,735		Mussels.			
	::	::	:	::	::		:	::	197,973	308,403	:	110,430	SHELL-FISH.	Cwt. 1,410			Grand Total Value of Fish and Shell-Fish for 1921, 1920, "Decrease in 1921
	eį.	æ:	27	:6	::	2,950	404	::	31,240	36,354	:	5,114	SHELI	3. £ 273			nd Shell- " Dec
_	994	.39	ឌ	. 75	::	1,130	620	::	34,450	35,947	:	1,497		Crabs.			Fish an
	937	::	ส	.89	::	1,001	139	::	12,765	13,142	:	377		No. 27,900			Value of
	442	::	8	.42	::	204	187	::	15,758	13,590	2,168	:		8,099			Total
		.82	61	.:	::	1,824	232	::	,807	,336	:	1,529		bsters			Grand
_		:89	61	:8	::	583	360	::	17,419 17	16,907 19	512	-:		No. 116,930	-		
_	3 125	::	:	::	::	125	88	::	899	3,876	:	3,208			*1		
_	. 43	::	:	::	::	43	73	::	1,273	5,450	:	4,177	:4	બા ;			
	:01	14 24	27 52	: 8	::	7 88	25	::	2 559	231	328	:		Oysters.			
_		:-	~	:	::	47	83	::	412	160	252	:		, Š.			
(b) FLAT.	Turbot	Flounders	". Medium	Brill	Whitches	Total of Flat Fish .	Skates and Rays	Unclassified Finds	Total for 1921	Total for 1920	Increase in 1921 .	Decease in 1921					

TABLE B.—No II —FISH LANDED.—Statement of the Total Quantity and Value of the different kinds of White and Shell-Fish landed on the West Coast of Scotland during the Year 1921.

				2 9	0	က္ခ			9	61 rb O	10	© ∞ ∞ 0	0110	-
	90.	Total atity alue.	ધ	632,426	21,66	654,183			48,956	6,702 165 8,850	14,415	5,946 13,208 . 378	2,975	101,604
	1920.	Grand Total Quantity and Value,	Cwt.	947,247	37,488	984,751			42,185	5,582 231 19,008	12,955	3,635 11,437 378	1,255	96,670
	1921.	Grand Total Quantity and Value.	બો	606,632 382,584	- 1	391,100			32,026	4,262 95 4,617	13,573	4,518 9,494 301	1 4,478	73,366
	19	Grand Tota Quantity and Value.	Cwt.	606,632	16,087	622,770			31,186	4,336 145 13,721	13,257	2,592 12,580 289	1,496	909'62
	II.	Value.	બ	382,337	8,144	390,717			6,916	1,751	112	:::	1,559	10,345
	TOTAL.	Quantity.	Cwt.	605,911	15,930	621,892			8,141	6 4,485	99	: : :	555	13,253
	Sail.	.enlaV	બ	27,288	202	28,229			1,323	188	:	::::	9	1,517
NETS.	Sa	Quantity.	Cwt.	44,741	1,596	46,388			1,082	351	:	::::	. :	1,436
4	Motor.	.slue.	ધો	178,138	3,146	181,284			5,593	1,563	112	::::	1,553	8,828
	Mo	Quantity.	Cwt.	321,237	6,163	327,400			7,059	4,134	99	.::::	552	11,817
	Steam.	Value.	બ	176,911	4,293	181,204	•		:	:::	:		:\:	:
	Ste	Quantity.	Cwt.	23	8,171				:	:::	:	::::	::	:
	AL.	Value.	વ્ય	:::	136	oet			24,978	4,247 95 2,862	13,281	4,514 9,492 301	2,911	62,681
	TOTAL.	Quantity.	Cwt.	:	157	/cT	m. L. Wal. 15. W		22,902	4,320 145 9,230	13,029	2,587 12,577 289	. 933	66,012
		Value.	બ	: : :	1 6	120			8,122	1,901 81 1,948	12,123	8880 301	. 36	26,280
LINES.	Sail.	Quantity.	Cwt.	: : : :		Н		1	7,115	1,791 120 6,695	12,306	666 994 289	. 22	29,998
II	or.	Value,	બ	:::	16	2			10,044	614 160	1,110	3,626 2,198	256	8008
	Motor.	Quantity.	Cwt.	:::	8 8	3			8,854 10,	530	698 1,1	1,921 3,626 3,278 2,198	105	15,998 18,
	·m·	.enlaV	બ	:::	:	:			6,812	1,732 14 754	48	6,414	2,619	
	Steam.	Quantity.	Cwt.	:::	:	:				1,917 25 2,005	52	8,305	:808	20,016 18,393
VLS.	*.	.enlaV	બ	247	047	147				x :4	180		œ	340
TRAWLS.	Steam.*	Quantity.	Cwt.	121 : :	: 707	127			143	9:	162	ro . 60	¢1 ∞	341
	TO WOYNGT GOOD	DESCRIPTION OF FISH,	PELAGIC FISH.	Herrings Sprats Sparlings	Mackerel	rotal of Felagic Fish	DEMERSAL FISH.	(a) KOUND.	Codling }	Ling Torsk (Tusk) Saithe (Coal Fish)	Large	Whitings Conger Eels Gurnards	Monks (Anglers) . Hake .	Total of Round Fish

•	176 4,705 167	3,633	17,537	04 88 88 8 8 8 8 8 8	26,756	14,112	3,347	:	800,002	:	:						
	57 1,046 34	2,111	8,082	13 198 45 20	11,606	13,335	5,335	:	1,111,697	:	:						
	131 2,635 35	2,592	11,520	28 318 196 7	17,462	12,492	2,578	496,998	:	:	303,004			£ 45,428 48,031	2,603		
	37 630 15	2,135	5,829	80 80 4	8,896	12,426	4,466	728,164	:	:	383,533						
	78		6,899	.: 138 187 1	8,452	485	270	410,269	684,605	:	274,336		ifled. £ 12,561	1921	:	٠	
	25.	730	2,345	: 82 74 1	3,261	459	. 339	639,204	1,007,571	:	368,367		Unclassified. Cwt. £ 18,571 12,56	Total Value of Shell-Fish for 1921	:		
	:::	888	478	.: ::	1,403	155	. 14	31,318	48,770	:	17,452		28	ie of Shell	1921		
	:::	616	202		884	141	. 14	48,813	75,511	:	26,698		Clams.	otal Valu	Decrease in 1921		
_	78 17 3		6,285	 102 187	6,912	330	. 256	197,610	240,901	:	43,291		Cwt.		Ď		
	22 - 25	114	2,101	68	2,384	318	325	342,244	406,510	:	64,266		Mussels. \mathfrak{t}			,426	607
-	:::	:	136	:::	137	:	::	181,341	394,934	:	213,593	ISH.	Mu Cwt. 9,326			Grand Total Value of Fish and Shell-Fish for 1921, £542,426	Decrease in 1921, £305,607
_	:::	:	8 42	:::	9	:	::	83,105 248,147	2 525,550	:	7 277,403	SHELL-FISH,	3 3 1,038			ish for 1	rease in 1
_	2,625	1,463	2,068	180	6,349	11,631	2,308	83,10	106522	:	23,417	90	Crabs.			Shell-F	Deci
_	628	1,405	1,281	76	3,399	11,446	4,127	85,141	97,763	:	12,622		No. 156,934			ish and	
	526	1,376	1,661	137	3,703	969	2,121	32,922	40,384	:	7,462		16			ie of F	
_		1,386	1,111	: ::	2,775	1,117	3,481	37,503	43,834	:	6,331		ers. £ 28,688			otal Valu	
		84	407	:43 :	1,079	4,	. 26	23,339	30,975	:	7,636	_	Lobsters.			T pus:	
	916	19	170	: 18	301	4,291	205	20,820	26,375	:	5,555		No. 444,390			Ö	
	1,567	:	:	::::	1,567	6,753	131	26,844	35,163	:	8,319		=		,		
	323	:	:	::::	323	6,038	441	26,818	27,554 35,163 26,375	:	736 8,319		1,541				
	4-21	:	2,553	% :∞°	2,661	376	::	3,624 26,818 26,844 20,820	8,875	:	5,251		Oysters,				
	01-19	:	2,203	യ്മെ	2,236	521	::	3,819	6,363	:	2,544		O No. 214,979				
(b) FLAT.	Turbot . Halibut .	Flounders	", Medium	Brill Dabs Whitches Megrins	Total of Flat Fish .	Skates and Rays	Unclassified kinds	Total for 1921	Total for 1920 .	Increase in 1921 .	Decrease in 1921 . 2						

* Included are 2,014 cwts. plaice, value £2014, landed by sailing trawlers.

† Included are 4 landings by steam and 5 by motor vessels using Danish seine nets totalling 133 cwts. plaice, valued at £411 (steam 43 cwts., £137; motor 90 cwts., £274) and 1,395 landings by motor and 35 by sail vessels using flounder seine nets totalling 2,608 cwts. (mostly plaice), valued at £7,008 (motor 2,573 cwts., £6,917; sail 35 cwts., £91).

TABLE B.—No. II.—FISH LANDED.—STATEMENT of the Total Quantity and Value of the different kinds of White and Shell Fish landed in Scotland by Foreign Vessels in the Year 1921.

	.0.	Total ty and ue.	વર	::::	:	1,477 821 7 7 66 66 83 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,966
	1920.	Grand Total Quantity and Value.	Cwt.	::::	:	808 808 808 848 848 84 84 84 84 84 84 84 84 84 84	1,751
	21.	Total ty and ue.	વર	599	669	. 48,198 556 556 101 101 102 808 82 12 12 12 12 12 82 83 82 82 83 84 85 86 86 87 88 88 88 88 88 88 88 88 88 88 88 88	45,095
	1921.	Grand Total Quantity and Value.	Cwt.	1,410	1,410	56,002 148 148 218 218 218 218 198 198 56 56 56	58,509
	AL.	· .9ulsV	વર	599	669	;	25
	TOTAL.	Quantity.	Cwt.	1,410	1,410	:":::" [©] :::::::::	11
	80	Value.	ಎ	::::	:	.:;::::::::::::::	:
NETS.	Sailing.	Quantity.	Cwt.	::::			:
Z	or.	Value,	્ય	::::	:	:¤ ::: ≈ 2 ::::::	25
	Motor.	Quantity.	Cwt.	: : : :	:	:T :::T [©] :::::::	=
		,enlav	વા	283	599	:::::::::::::::	:
	Steam.	Quantity.	Cwt.	1,410	1,410	:::::::::::::::	:
	AL.	Value.	વ	::::	:	42 655 63 101 60 	42,879
	TOTAL	Quantity.	Cwt.	::::	:	55,506 138 148 80 	55,871
	ing.	Value.	વ	::::	:	42,655 63 101 101 80	42,879
LINES.	Sailing.	Quantity.	Cwt.	::::	:	55.505 138 148 80 80	55,871
LI	Motor.	Value.	વ	::::	:	:::::::::::::::::	:
	M	Quantity.	Cwt.	::::	:	:::::::::::::::::::::::::::::::::::::::	
	am.	Value.	ચ	::::	:	:::::::::::::::::::::::::::::::::::::::	:
	Steam.	Quantity.	Cwt.	:,:::	:	:::::::::::::::::::::::::::::::::::::::	:
TRAWLS.	am.	.eulsV	ગ	::::	:	543 461 581 582 805 45 45 820 820 820 820 820 820 820 820 820 820	2,191
TRA	Steam.	Quantity.	Cwt.	::::	:	4497 6005 1444 1446 1388 1388 108 108 1088 1088 1088 1088 1	2,627
		KINDS OF FISH.	PELAGIC FISH.	Herrings Sprats Sprats Sparlings Mackerel	Total of Pelagic Fish	DEMERSAL FISH. (a) ROUND. Cod Codling. Cling. Torsk (Tusk) Sathe (Coal Fish) Haddocks, ex. Large. , Medium Whitings Comer Bels Comer Bels Carfish Monks (Anglers) Hake.	Total of Round Fish .

	1				
.: 19 67	: : : : : :	112	1 : :	2,079	: :
: 88	: " : : : : : : : : : : : : : : : : : :	32	.: 1	1,784	: :
 106 275	174 174 8 7 7	651	. 3	46,372	44,293
.: 31 100	17 40 6 7 7 17	228	87	60,264	58,480
:::	39 113 1 : 3	156	:::	780	780
:::	;; ; ;; ;; ;; ;; ;; ;; ;; ;; ;; ;; ;; ;	43	:::	1,464	1,464
:::	:::::::	:	:::	: :	: :
:::	:::::::	:	:::	: :	: :
:::	39 118 1 1 3	156	:::	181	181 :
:::	11. 28. 1	43	:::	54 :	46 :
:::	· : : : : : : :	:	:::	599	599
:::	: : : : :	:	:::	1,410	1,410
:::	:::::::	:	:::	42,879	42,879
:::	: : : : : : :	:	:::	55,871	55,871
:::	:::::::	:	:::	42,879	42,879
:::	:::::::	:	:::	55,871	55,871
: : :	:::::::::	:	:::	: :	: :
:::	::::::	:	:::	: :	: :
:::	:::::::	:	:::	: :	: :
:::	::::::	:	:::	: :	: :
106		495	. 54 . 8	2,713	634
.: 81 100		180	87 .:	2,929	1,146
(b) FLAT. Turbot Halibut Lemon Soles	Flounders. Plaice, Large ,, Mediun , Small Brill Dabs Whitches Megrims	Total of Flat Fish .	Skates and Rays Squids Unclassified kinds	Total for 1921 . Total for 1920.	Increase in 1921 . Decrease in 1921 .

Note.—The above landings were composed as follows:—
HERRINGS.—Landed at Shetland by a Swedish vessel.
TRAWL FISH.—Landed at Aberdean in fresh condition vessel (6 arrivals, 69 days' absence).
LINE FISH.—Landed A Aberdean in fresh condition: balance represents estimated equivalent fresh of wet-salted fish brought direct from the fishing grounds, viz, LINE FISH.—Landed by Raroses smacks; coding at A Aberdean in fresh condition: balance represents estimated equivalent fresh of wet-salted fish brought direct from the fishing grounds, viz, 4750 cwts. cod (value £2997) representing 1928 cwts. wet-salted landed at Aberdean.
NET FISH.—Landed by a Danish vessel, using the snurrevaad (2 arrivals).

TABLE B.—No. II.—FISH LANDED.—Statement of the Total Quantity and Value of the different kinds of White and Shell-Fish landed in Scotland during the Year 1921.

_											
	.jo	Total ntity alue.	લા	2,244,680 5,001 859 33,490	2,284,030	,	1,254,523	115,809 9,430 99,969	1,584,119	136,124 15,025 2,065 16,703 12,616 36,128	3,282,511
	1920.	Grand Total Quantity and Value.	Cwt.	3,155,165 33,189 208 69,746	3,258,308		950,690	127,488 11,220 170,373	1,199,938	157,861 13,130 5,321 21,452 18,602 16,996	2,693,071
	1;	Total tity alue.	બા	1,174,388 5,446 900 22,933	1,203,667	· .	1,045,550	107,903 15,251 57,093	1,286,924	141,483 11,036 2,064 17,700 14,779 50,601	2,750,384
	1921.	Grand Total Quantity and Value.	Cwt.	2,463,306 44,633 253 53,805	2,561,997		771,616	144,627 16,125 118,249	948,818	178,070 14,352 6,221 21,409 26,336 24,475	2,270,298
	ΔI.	.slue.	બ	1,162,365 5,446 900 19,074	1,187,785		61,863	1,996	7,015	17 83 12 1,210 198 1,561	73,965
	TOTAL.	Literal	Cwt.	2,444,479 44,633 253 48,516	2,537,881		59,285	8	4,511	37 68 830 596 596	10,791
		Value.	બ	87,503 3,488 900 961	92,852		8,042		:	883 .:. 17	8,370
NETS.	Sail.	.vditang	Cwt.	227,501 31,330 253 2,572	261,656		8,249	408	:	19 19 58 88	8,757
NE	or.	Узіие.	બ	562,596 1,958 7,591	572,145		44,426	1,702	624	 1,206 119 1,553	49,637
	Motor	.vditasuQ	Cwt.	512,266 1176102 13,303 10,522 21,703	522,788 1211108		42,075	6,349	385	 827 357 552	48,551
	ė	Value.	બ	512,266	522,788		9,395	. 3	6,391	: 8 21489	15,958
	Steam	Quantity.	Cwt.	1,040,876	1,065,117		8,961	. 121	4,126		13,483
	AI.	.sulaV	બ	69 .: 1,542	1,611		294,458	65,908 14,100 8,751	297,139	24,066 10,698 310 1,272 3,496	720,202
	TOTAL.	Quantity.	Cwt.	55 2,203	2,258		255,309	90,529 14,872 22,286	186,338	36,285 13,743 314 1,195 6	622,094
	11.	Value.	બ	.: 907	925		668'06	2,184 227 4,003	49,050	4,725 989 303 109	152,525
LINES.	Sail.	Quantity.	Cwt.	13	1,280		-	2,159 352 10,790	41,310	6,480 1,059 292 81	160,810 152,525
LIN	Motor.	·9nlæV	બ	51	989		122259	5,689 110 1,857	1,218 144116 246871	19,341 3,015 7 1,084 321	400556
	Mo	Quantity.	Cwt.	42 :: 936	828		81,300 94,201 122	4,285	144116	29,805 4,035 22 971 5	282364
	Steam.	Value.	બ	::::	:			58,035 13,763 2,891		6,694 . 79 3,139	167,121
	Ste	Quantity.	Cwt.	::::	:			83,770 14,321 7,211	912	8,649 143 1,070	178,920
TRAWLS.	, &c.*	Value.	બ	11,954	14,271		0	41,985 1,151 46,346	932,770	117,400 255 1,742 15,218 14,577 45,544	1,956,217
TRA	Steam, &c.	Quantity.	Owt.	18,772 :: 3,086	21,858		457,022	54,090 1,25 91,08	757,969	141,748 590 5,839 19,384 25,734 22,700	1,577,413 1,956,217 178,920 167,121 282364 400556
		DESCRIPTION OF FISH.	PELAGIC FISH.	Herrings Sprats Sparlings Mackerel	Total of Pelagic Fish	DEMERSAL FISH.	(a) ROUND. Cod Codling	Ling Torsk (Tusk) Saithe (Coal Fish) Haddocks, ex. La.	" Large	Whitings Conger Bels Gurnards Castian Monks (Anglers)	Total of Round Fish

25,939 359,473 139,205 7,433	1,712 7,210 13 355 26,147	868,994	81,493 24 5,010	6 599 049	200,220	:		
7,860 76,441 33,157 4,254	644 8,912 6,021 11,404	240.829	126,790 50 8, 6 75	604 706 8		:	:	
27,316 333,755 178,607 5,800	1,916 6,813 15,965 24,423	885,278	112,902 91 4,674	966	:	:	1,565,066	102,332 106,846 4,514
7,823 75,765 41,271 3,840	686 9,441 7,486 10,892	246,268	171,856 304 9,770	5,260,493 4	:	:	1,067,230	
182 365 4,531 2,669	171 1,328 1,274 119	92,862	1,377		2,371,291	:		fled. £ 16,063 1920
52 103 1,089 1,667	34,195 63 1,734 656 59	39,618	1,737	1	3,289,103	:	648,749 1,015,017	Unclassified. Cwt. Cwt. Gwt. E Cwt. 16,004 Total Value of Shell-Fish for 1921 Decrease in 1921
18 1,186	98 : :	2,004	202	103,442	223,032 117,349	:	13,907	Cw Cw 30,9 30,9 30,9
:	16	1,143	177	271,747	223,032	48,715	:	Clams. f. f. Total Value of ' Decrease in 192'
	208,389 1,187 212 2	62,650	691	685,379	728,244	:	42,865	Cwt 7,26
	27,025 1,619 1,619 1	29,884	672	567,453 1290540 685,379	1002958	287,582	:	£5,059,328 6,628,908 £1,569,580
68 189 3,442	23,074 151 105 1,062 117	28,208	484	567,453	1,525,698	:	958,245	Mussels. 586 10 886 10 890 1920, £ 1920, € 1920, €
19 50 892	6,858 50 50 670 83	8,591	88 .88	1,088,117	2,073,163 1,525,698 1002958 728,244	:	985,046	Cw 103,6 Fish fo
6.1	17,647 1,166	317,089	75,694			59,925	:	SHELLI-FISH. s. £ 19,962 Fish and Shell-1 Diec.
17 68,345 172 1,847	7,556	78,716	109,818	819,335	125,538 141,675 689,461 1057843	27,049 129,874	:	SH. Crabs. 25
1,596 1,596 1,810	8,141 . 549 	12,108	1,018	168,724	141,675	27,049	:	No. 2,144,925
	3,780	6,544	1,528	173,668	125,538	48,130	:	s and Tot
6	9,506	6,721 20,607	13,676	435613	418851	16,762	:	srs. 54,123
	3,776 363 	1	61,000 16,087 13,	306428	273311	16,114 33,117 16,	_:	Lobsters. 2830,249 54,11
5 65,446 284,353	: ::::	65,451 284,374		513,431	497,317		:	8308
	: ::::	65,451	92,203	339,239	290,612	48,627	:	1,541
	190,813 1,745 4,319 14,690 24,304	475,327	35,831 91 1,217	2,482,954 339,239 513,431 306428 435613	2,339,109 3,092,928 290,612 497,317 273311 418851	:	609,974	1,6
7,754 7,317 40,010 326	47,313 6,929 6,829 10,833	127,934	60,301 304 2,944	1,790,754	2,339,109	:	548,355	Oysters. No. 214,979
(b) Flat. Turbot Halibut Lenon Soles Flounders	Mediun Small Brill Dabs Whitches Megrins.	Total of Flat Fish .	Skates and Rays Squids Unclassified kinds	Total for 1921	Total for 1920 .	Increase in 1921 .	Decrease in 1920 .	

* Included are 1,546 cwts. (mostly plaice, haddocks and codlings), value £5,083, landed by motor trawlers, and 2,014 cwts. plaice, value £2,014, landed by sailing trawlers.

† Included are 753 landings by steam and 114 by motor vessels using Danish seine nets totalling 15,200 cwts. (mostly plaice and haddocks) valued at £38,084 (steam 14,282 cwts., £35,648); motor 918 cwts., £4,500 cwts. (mostly plaice) and 10,443 landings by motor and 37 by sail vessels using flounder seine nets totalling 28,712 cwts. (mostly plaice), valued at £56,918 (motor 28,674 cwts., £56,822; sail 38 cwts., £96).

TABLE B.—III. SUMMARY of the Means of Capture and Fish Landed for the Years from 1889 to 1921 inclusive.

	Number	Value of	Total C	Catch.†	Number of
Year.	of	Boats and	Quantity	Value	Fishermen
i ear.	Vessels.*	Gear.	(excluding	(including	and Shore
	v esseis.	Gear.	shell fish).	shell fish).	workers.
			SHEII HSII).		
1000	34 - 34	£	Cwts.	£	
1889 .	. 14,714	1,603,307	5,589,239	1,517,376	•••
1890 .	. 14,352	1,590,636	5,864,488	1,691,959	•••
1891 .	. 13,933	1,637,305	5,434,206	1,838,659	•••
1892 .	. 13,862	1,756,800	5,436,138	1,676,043	•••
1893 .	. 13,491	1,785,365	6,208,018	1,700,250	•••
1894 .	. 13,297	1,796,530	6,188,774	1,635,709	•••
1895 .	. 13,098	1,820,429	6,107,044	1,830,424	
1896 .	. 12,040	1,873,870	6,146,738	1,649,457	88,242
1897 .	. 11,633	1,922,685	5,001,672	1,710,157	81,549
1898 .	. 11,576	2,029,384	6,557,768	1,956,996	86,964
1899 .	. 11,245	2,383,776	5,145,076	2,270,484	84,538
1900 .	. 11,275	2,711,877	5,369,265	2,401,900	82,809
1901 .	. 11,201	3,001,301	6,385,170	2,319,399	83,905
1902 .	. 11,097	3,212,455	6,866,028	2,580,619	85,367
19 03 .	. 11,008	3,448,168	6,518,808	2,474,885	84,553
1904 .	. 10,891	3,431,284	7,947,829	2,307,902	86,621
1905 .	. 10,581	3,304,695	7,856,310	2,719,810	88,201
1906 .	. 10,554	4,117,549	7,593,369	3,049,915	92,305
1907 .	. 10,365	4,857,816	9,018,153	3,221,331	94,783
1908.	. 10,078	5,223,149	8,645,252	2,586,224	92,857
1909 .	. 9,889	5,291,533	7,423,185	2,961,499	92,060
1910 .	. 9,724	5,439,857	8,753,380	3,185,566	90,813
1911 .	. 9,543	5,628,087	8,511,974	3,127,929	89,152
1912 .	. 9,290	5,777,102	8,587,106	3,656,178	89,715
1913 .	. 8,991	6,035,952	7,828,350	3,997,717	90,710
1914 .	. 8,869	6,297,745	7,440,321	3,208,536	87,119
1915 .	4,653	1,668,765	2,319,390	2,109,465	35,461
1916 .	. 4,650	1,827,346	3,412,030	3,206,550	37,009
1917 .	. 4,609	1,902,167	3,079,768	3,704,789	35,746
1918 .	4,614	3,038,592	3,313,228	6,066,588	37,624
1919 .	. 6,534	9,223,456	5,969,015	6,148,251	60,159
1920 .	. 8,177	11,916,468	6,327,723	6,628,908	70,983
1921 .	7,648	7,907,467	5,260,493	5,059,328	65,327

^{*} Although the number of vessels shows a steady decrease there was a marked increase in the catching power, owing to the gradual adoption of steam and motor propulsion.

† Inclusive of landings by foreign fishing vessels.

TABLE C.

FISH USED IN A FRESH STATE.—Table showing the Estimated Quantity of each Species of Fish consumed fresh in Scotland, or dispatched from Scotland in a fresh state, in the Year 1921.

Description	of Fish.			Year 1921.	Year. 1920.
				Cwts.	Cwts.
Herrings				611,052	700,288
Sprats				32,788	31,989
1 0			.	253	208
Mackerel			.	44,351	65,903
Cod and Codlings .		•		572,712	621,011
Ling				84,237	38,220
Torsk (Tusk)			.	14,211	8,844
Saithe			.	78,545	65,340
Haddocks			.	469,072	415,400
Whitings				133,001	69,007
Conger Eels			.	14,352	13,130
Gurnards			.	$6,\!221$	5,321
Catfish				20,177	18,036
${f Monks}$				26,336	18,602
Hake				24,475	16,996
Squids				304	50
Turbot				7,823	7,860
Halibut				75,769	76,441
Lemon Soles				41,271	33,157
Flounders			.	3,840	4,254
Plaice				89,067	92,136
Brill			.	686	644
Dabs			.	9,441	8,912
Whitches and Megrim	s .			18,378	17,425
01 / 170				171,728	126,328
Unclassified kinds .	•	•		9,770	8,675
	Total		.	2,559,860	2,464,177

TABLE D.—No. I.

FISH CURED.—RETURN showing the Quantity of each Species of Fish Cured, and the Mode of Cure, in the Year 1921.

				(a) Her	RINGS.		
No.	DISTRICT.	Barrels Gutted.	Barrels Un- gutted.	Barrels (Crans) Kip- pered.	Barrels (Crans) of Bloa- ters or Reds.	Barrels (Crans) Tinned.	Total Number of Barrels.
	EAST COAST.						
1 2 3 4 5	Eyemouth Leith Anstruther Montrose	1,482 53	• •	23,523 4,931 131 78	1,736 300 400 2	2,373 163	29,114 5,231 584 243
6 7 8 9 10	Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhorn	40,555 63,739 6,128 1,750 95	2,010	20,045 23,329 26,213 1,501 3,561 40	7,376 126 10	1,423 174 825	28,844 64,058 92,913 7,639 5,971 135
12 13 14 15	Tidilorii Cromarty Helmsdale Lybster Wick	82 80 59,300	6,656	743 28,700	•••		82 823 94,656
	East Coast Totals	173,264	9,326	132,795	9,950	4,958	330,2 93
	Orkney and Shetland.						
16 17	Orkney	25,864 $199,646$		4,598		••	25,864 204,244
	Orkney and Shetland	225,510		4 ,59 8		•• (230,108
	WEST COAST.						
18 19 20 21 22 23 24 25 26 27	Stornoway Barra Loch Broom Loch Carron and Skye Fort-William Campbeltown Inveraray Rothesay Greenock Ballantrae	17,797 26,748 483 921 9,324 454 1,050 55 1,901 45		18,206 1,358 2,992 295 12 635 12,682 921	 		36,003 26,748 483 2,279 12,316 749 1,062 698 14,641 986
	West Coast Totals	58,778		37,101	.86	• •	9 5, 965
	Grand Totals for 1921 . Grand Totals for 1920 .	457,552 552,828½	9,326 20,735	174,494 253,483	10,036 14,700	,	656,366 879,991½
	Increase in 1921						
	Decrease in 1921	95,2761	11,409	78,989	4,664	33,287	223,6251

Note 1.—No essel was fitted out for curing at sea during the year.

2.—The above figures represent the quantities pickled as 'bungpacked,' i.e. as finally packed. Corresponding particulars of the quantities in the 'seastick' state, i.e. before the herrings have "pined," will be found in Table D.—No. II.

3.—Included above are 2,168 barrels gutted herrings cured "spiced" in Shetland for Sweden; and 683 crans kippers, 8,732 crans reds or bloaters, and 300 crans tinned manufactured from herrings brought from England; and 470 crans kippers from herrings imported from Norway.

TABLE D.—No. I.—continued.

FISH CURED.—RETURN showing the Quantity of each Species of Fish Cured, and the Mode of Cure, in the year 1921.

	(b) Ѕресі	ES OTHER	тнан Н	ERR IN GS	3.	
Description of Fish.	Dried.	Smoked.	Pickled.	Tinned	Total 1921.	Total 1920.
	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.
Sprats			11,845		11,845	1,200
Mackerel			376	4,445	4,821	2,114
Cod and Codling	19,367	56,302	27		75,696	136,773
Ling	18,213	2,883			21,096	30,752
Torsk	638		• •		638	792
Saithe	3,766	11,369		• •	15,135	46,846
Haddocks .	373	238,444		1,086	239,903	388,227
Whitings .		22,535	• •		22,535	44,427
Catfish		493	••		493	1,708
Skate	43	• •	••		43	154
Total in 1921 .	42,400	332,026	12,248	5,531	392,205	652,993
Total in 1920 .	104,468	536,033	1,971	10,521	• •	
Increase in 1921	• •	• •	10,277			
Decrease in 1921	62,068	204,007	• •	4,990	260,788	

Note 1.—In addition to the above there was imported from Iceland, Faroe and Norway in a wet-salted state, and dried in Scotland, 20,203 cwts. of fish (cod, 19,338 cwts.; ling, 582 cwts.; saithe, 136 cwts.; and haddocks, 147 cwts).

^{2.—}The above figures represent the weight after sure.

TABLE D.—No. II.

HERRINGS CURED.—STATEMENT showing the Numbers of *Barrels of Herrings Cured, Gutted and Ungutted, on the East and West Coasts of Scotland, for the Hundred and eleven years ended 31st December 1921.

Vocas	(with	East Coast (with Orkney and Shetland).	and).		West Coast.		E
rear enged	Gutted.	Ungutted, Kippered, &c.	Total.	Gutted.	Ungutted, Kippered, &c.	Total,	GRAND TOTAL.
6th April 1811	2,008	6,630	8,6381	62,186	19,110	81,296	89,934
., 1812	$4,325\frac{1}{2}$	10,332	$14,657\frac{1}{2}$	65,922	24,518	90,440	105,0971
,, 1813	9,179	$20,950\frac{1}{2}$	30,129	$76,561\frac{3}{4}$	31,0254	107,5874	137,716
,, 1814	9,503	$46,800^{\frac{1}{2}}$	$56,303\frac{1}{2}$	37,969	5,773	43,742	100,045
1815	24,314	36,827	61,141	$76,021\frac{1}{4}$	7,756	83,7774	144,918
1816	$55,411\frac{1}{2}$	18,4163	73,828	73,2921	2,5784	$75.870^{\frac{3}{2}}$	149,698
., 1817	$90,710\frac{1}{2}$	$26,252\frac{1}{8}$	116,963	60,5813	3,233	63.815^{*}	180,778
,, 1818	$118,594\frac{3}{4}$	$8,287\overline{4}$	126,882	76,765	4,4913	81,2564	208,1384
1819 "	$221,959_{2}^{1}$	22,158	244,1173	75,1974	6,441	$81,638\frac{1}{3}$	325,756
,, 1820	267,5563	$27,391\frac{1}{2}$	294,948	$72,629\frac{1}{5}$	4,512	77,1413	372,089
,, 1821	$318,473\frac{1}{2}$	$23,909\overline{4}$	$342,382\frac{3}{4}$	$88,626\frac{5}{1}$	2,613	$91,239\frac{1}{4}$	433,622
,, 1822	229,070	$12,808^{\frac{3}{4}}$	$241,878\frac{3}{4}$	56,3423	1,328	57,670	299,549
,, 1823	183,687	$15,256\frac{1}{4}$	$198,943^{\hat{1}}_{4}$	$34,211^{2}$	2454	$34,456\frac{2}{3}$	233,399
,, 1824	$272,340\frac{1}{2}$	32,402	$304,742\frac{1}{2}$	52,792	8021	$53,594\frac{1}{2}$	358,336
,, 1825	227,667	$28,849\frac{3}{4}$	$256,516\bar{3}$	64,623	593	$65\overline{,}216^{2}$	$321,732^{\frac{3}{4}}$
,, 1826	289,101	$31,703\frac{1}{4}$	$320,804\frac{1}{4}$	42,602	121	42,723	363,527
,, 1827	$211,042\frac{3}{4}$	$22,241\frac{1}{2}$	$233,284\frac{1}{4}$	43,231	117	43,348	276,632
,, 1828	$287,906\frac{1}{2}$	$37,882\frac{1}{2}$	325,789	45,632	2,0393	47,6713	373,460
,, 1829	249,3653	$41,047\frac{1}{4}$	$290,412\frac{3}{4}$	47,525	945	48,470	338,882
,, 1830	$216,427\frac{1}{2}$	$35,226^{-}$	$251,653\frac{1}{2}$	59,494	639	60,133	311,786
33	315,479	$51,609\frac{3}{4}$	$367,088\frac{3}{4}$	46,631	855	47,486	414,5743
5th April 1832	$259,197\frac{1}{2}$	36,1831	295,381	$49,216\frac{1}{4}$	3,167	52,3831	347,764
,, 1833	267,928	$45,564\frac{3}{4}$	$313,493\frac{1}{4}$	77,144	573	77,717	391,210
., 1834	$315,159^{-}$	56.3743	371 5333	64 4971	137	61 5611	436,0081

* The figures in this table, so far as relating to pickled herrings, gutted or ungutted, represent the numbers of barrels of "sea-sticks." Vide Note 2 to Appendix D.—No. I. (p. 122).

TABLE D.—No. II.—continued.

Year ended Gutted Sth April 1835 1836 343,693½ 1836 343,693½ 343,693½ 1837 229,371 307,625 1839 308,581 308,581 1840 345,074½ 334,539 1842 404,502¼ 376,374 1843 384,729 5th January 1845 305,461¾	h Orkn	Coast	nd).		West Coast.		GRAND TOTAL.
1835 1835 1836 1838 1840 1841 1842 1843 1844		tted, ed, &c.					GEAND LOIAL.
1835 1836 1837 1839 1840 1841 1842 1843 1844			Total.	Gutted.	Ungutted, Kippered, &c.	Total.	
1836 1837 1838 1840 1841 1842 1843 1844		3391	199,879	45,0913	633	45,724	245,6033
1837 1838 1840 1841 1842 1842 1844 1844		$891\overline{3}$	$412,585\frac{1}{4}$	46,554	479	47,0331	$459.618^{\frac{3}{2}}$
1838 • 1840 1841 1842 1843 1844 1845 1845		4491	$300.820^{\frac{1}{4}}$	54.859	1.8921	56,751	357,5713
1839 1840 1841 1842 1843 1844		$82,634^{\frac{3}{2}}$	$390,259^{\frac{3}{2}}$	68,9903	2,3743	71,365	461.6243
1840 1841 1842 1843 1844		$119,489^{\frac{3}{2}}$	$428,070^{\frac{3}{2}}$	$66.046\frac{1}{5}$	1,6721	67,719	495,7893
1841 1842 1843 1844		160^{-}	448,234	54.208	343	54,5511	502,786
1842 1843 1844 1845		78,225 1	$412,764\frac{1}{4}$	$87,562\frac{1}{5}$	3,4023	$90,965^{\circ}$	$503,729\frac{1}{4}$
1843 1844 1845		675 <u>3</u>	521,178	78,7553	2,1831	80,939	602,117
1844 1845		$118,755\overline{3}$	$495,129\frac{3}{4}$	$61,568\frac{1}{9}$	1,627	$63,195\frac{1}{2}$	$558,325\frac{1}{4}$
1845		9271	490,656	81,643	4,776	$86,419^{2}$	577,075
		$649\overline{4}$	$378,110^{\frac{3}{2}}$	80,836	901	81,737	$459,847\frac{3}{2}$
1846		£209	426,534	64,056	3,7534	67,809	494,344
		$137,296\overline{3}$	480,3063	67,613	11,263	78,876	559,1823
		479	$458,950\frac{1}{2}$	46,636	9,570	56,2063	515,157
		$155,654\frac{1}{4}$	$493,104\overline{4}$	$52,473^{-}$	6,981	59,454	$552,558\frac{1}{4}$
	_	530	579,668	77,1713	$25,029\frac{3}{4}$	$102,201\frac{1}{4}$	$681,869\overline{4}$
	_	$129,532\frac{3}{4}$	$450,025\frac{3}{4}$	57,694	21,134	78,828	$528,853\frac{3}{4}$
		933	458,506	$68,660\frac{1}{4}$	$36,220\frac{3}{4}$	104,881	563,387
mber 1852		89,355	$420,410\frac{1}{2}$	$44,623\frac{1}{2}$	13,903	$58,526\frac{1}{2}$	478,937
		$459\frac{1}{4}$	$647,476\frac{1}{4}$	78,350	$28,431\frac{1}{2}$	106,7813	$754,257\frac{3}{4}$
, 1854 410,33		$132,977\frac{1}{2}$	$543,309\frac{1}{2}$	$48,247\frac{1}{2}$	$31,207\frac{1}{2}$	79,455	$622,764\frac{1}{2}$
		$136,687\frac{1}{2}$	$642,169\overline{4}$	$77,175\frac{1}{2}$	32,631	109,806	$751,975\frac{3}{4}$
		92,4003	$489,050\frac{1}{2}$	$69,755\frac{1}{2}$	$32,492\frac{1}{2}$	102,248	$591,298\frac{1}{2}$
		$712\frac{1}{2}$	450,4873	$74,447\frac{1}{2}$	$25,763\frac{1}{2}$	100,211	$550,698\overline{5}$
	~ ·	$440\frac{3}{4}$	$521,965\frac{1}{2}$	$59,868\frac{1}{2}$	23,350	$83,218\frac{1}{2}$	605,184
		55,584	$364,102\overline{4}$	72,541	20,487	93,028	$457,130\frac{1}{4}$
		$103,086\frac{1}{4}$	$527,287\frac{3}{4}$	71,894	37,8913	$109,785\frac{1}{2}$	$637,073\overline{4}$
		97,207	$545,138\frac{1}{2}$	$71,241\frac{1}{2}$	$34,336\overline{5}$	105,578	$650,716\frac{1}{2}$
_		911	$625,513\frac{1}{2}$	$119,257\frac{1}{2}$	$52,685^{-}$	171,9425	797,456

TABLE D.—No. II.—continued.

Year ended	(with	East Coast (with Orkney and Shetland).	land).		West Coast.		GRAND TOTAL
	Gutted.	Ungutted, Kippered, &c.	Total,	Gutted.	Ungutted, Kippered, &c.	Total.	
31st December 1863	$445,596\frac{1}{2}$	$75,511\frac{3}{4}$	$521,108\frac{1}{4}$	61,3964	26,810	88,2063	$609,314\frac{3}{4}$
,, 1864	378,752	$88,107\frac{3}{4}$	$466,859\overline{3}$	$99,737\frac{1}{2}$	42,889	$142,626\frac{1}{2}$	$609,486^{\frac{1}{4}}$
1865	374,424	73,8141	448,2383	$95.920\overline{i}$	57,207	153,1273	601.366^{\bullet}
1866	398,358	$72,420^{1}$	470,778	99,396	74,431	173,827	644,6053
1867	$492,172\frac{1}{4}$	81,978	574,1503	139,547	90,392	229,9391	804,090
., 1868	363,9223	62,906	426,828‡	81.546	129,8864	$211.432\frac{1}{4}$	638,2603
1869	395,5003	$61,809\frac{3}{2}$	$457,310\frac{1}{2}$	93,3304	124,502	$217,832^{\frac{3}{2}}$	675,143
1870	508,805	98,318	607,1233	$148,254^{2}$	77,783	226,037	833,1604
., 1871	585,172	94,178	679,350	83,3174	62,808	146,1253	825,4753
., 1872	$623,443\frac{1}{2}$	62,341	685,7844	$48,260^{2}$	39,815	88,075	773,859
,, 1873	$710,376\frac{1}{2}$	$96,983\frac{1}{2}$	807,360	86,5254	45,348	$131,873\frac{1}{2}$	939,2331
,, 1874	$789,345\frac{1}{2}$	$77,489\frac{3}{2}$	866,8354	$97,657^{2}$	36,0683	$133,725\frac{3}{4}$	1,000,561
,, 1875	774,2931	67,729	$842,022\frac{1}{5}$	60,529	40,4283	100,957	942,980
,, 1876	$454,164^{-}$	59,230	$513,394^{-}$	$32,074\frac{1}{2}$	52,729	84,8033	598,1974
,, 1877	$618,116\frac{3}{4}$	$65,529\frac{1}{4}$	683,646	$98,754\frac{1}{2}$	$65,318\frac{1}{4}$	$164,072\overline{3}$	847,718
,, 1878	$702,433\frac{1}{2}$	70,9273	773,361	$69,122\frac{1}{2}$	$63,284\frac{1}{2}$	132,407	905,768
,, 1879	563,754	$62,833\frac{1}{2}$	$626,587\frac{1}{2}$	$92,237^{-}$	$122,971\frac{1}{2}$	215,208	841,796
,, 1880	$1,096,953\frac{1}{2}$	$104,151\frac{1}{2}$	1,201,105	127,245	$145,250\frac{1}{4}$	$272,495\overline{4}$	1,473,6004
,, 1881	$830,751\frac{2}{5}$	$73,602\frac{1}{4}$	$904,353\frac{3}{4}$	$84,346\frac{1}{2}$	122,455	$206,801\frac{1}{2}$	$1,111,155\frac{1}{4}$
,, 1882	$879,243\frac{1}{2}$	98,983	978,2263	101,512	203,235	304,747	1,282,973
,, 1883	$960,428\frac{1}{2}$	87,477	$1,047,905\frac{3}{4}$	$72,658\frac{1}{2}$	148,848	$221,506\frac{3}{4}$	$1,269,412\frac{1}{2}$
,, 1884	$1,323,989\frac{1}{2}$	$132,061\frac{1}{4}$	$1,456,050\frac{3}{4}$	$128,223\frac{1}{2}$	112,803	$241,026\frac{1}{2}$	1,697,077
,, 1885	1,244,259	$74,723\frac{1}{2}$	$1,318,982\frac{1}{2}$	108,190	145,7793	$253,969\overline{3}$	$1,572,952\overline{4}$
,, 1886	1,017,152	$125,287\frac{3}{4}$	$1,142,439\frac{3}{4}$	76,211 .	93,5723	$169,783\frac{1}{2}$	$1,312,223\frac{1}{4}$
,, 1887	962,116	127,588	1,089,704	$101,937\frac{3}{4}$	$111,782\frac{1}{2}$	$213,720\overline{4}$	1,303,424
" 1888	790,458	$.82,155\frac{1}{4}$	$872,613\frac{1}{4}$	116,542	129,717	$246,259^{-}$	1,118,8724
,, 1889	1,071,686	112,171	1,183,857	105,417	108,233	213,650	1,397,507
" 1890	1,042,089	$81,218\frac{1}{2}$	$1,123,307\frac{1}{2}$	$142,340\frac{1}{2}$	38,955	$181,295\frac{1}{2}$	1,304,603
1881	797.219	61.427	858.646	208.024	59.402	267.426	1 196 079

TABLE D.-No. II.-continued.

Vear ended	(with	East Coast (with Orkney and Shetland).	land).		West Coast.		GRAND TOTAL.
Togi onno	Gutted.	Ungutted, Kippered, &c.	Total.	Gutted.	Ungutted, Kippered, &c.	Total.	
31st December 1892	1,012,452	82,267	1,094,719	125,299	37,924	163,223	1,257,942
1893	1,177,365	110,236	1,287,601	90,977	$30,960\frac{1}{4}$	121,937	$1,409,538\frac{1}{4}$
1894	1,312,926	98,783	1,411,709	91,489	14,879	106,368	1,518,077
1895	1,314,225	79,695	1,393,920	114,902	19,312	134,214	1,528,134
1896	1,232,549	101,098	1,333,647	132,234	26,035	158,269	1,491,916
1897	732,454	72,457	804,911	143,319	41,212	184,531	989,442
1898	1,500,533	92,8833	1,593,4164	174,743	37,188	211,931	1,805,347
1899	912,841	71,512	984,353	154,768	36,534	191,302	1,175,655
1900	968,077	98,673	1,066,750	156,522	32,333	188,855	1,255,605
1901	1,334,010	118,173	1,452,183	$109,\!056$	44,646	153,702	1,605,885
1902	1,507,138	125,933	1,633,071	123,437	46,651	170,088	1,803,159
1903	1,331,664	138,949	1,470,613	105,654	42,543	148,197	1,618,810
1904	1,737,345	170,510	1,907,855	102,548	52,571	155,119	2,062,974
1905	1,766,734	164,098	1,930,832	112,156	68,613	180,769	2,111,601
1906	1,679,947	166,011	1,845,958	116,343	35,561	151,904	1,997,862
1907	2,181,017	189,892	2,370,909	147,945	59,414	207,359	2,578,268
1908	1,787,835	183,495	1,971,330	163,931	64,808	228,739	2,200,069
1909	1,507,914	180,740	1,688,654	148,410	53,201	201,611	1,890,265
., 1910	1,934,320	211,236	2,145,556	145,628	37,690	183,318	2,328,874
,, 1911	1,667,432	207,335	1,874,767	139,272	32,708	171,980	2,046,747
., 1912	1,660,972	178,116	1,839,088	148,414	34,945	183,359	2,022,447
1913	1,407,323	172,591	1,579,914	253,804	52,878	306,682	1,886,596
., 1914	1,176,361	185,854	1,362,215	185,925	66,387	252,312	1,614,527
1915	28,597	61,502	90,099	44,852	40,518	85,370	175,469
1916	322,398	149,043	471,441	89,709	72,847	162,556	633,997
1917	109,976	178,770	288,746	120,743	67,566	188,309	477,055
1918	25,942	268,641	294,583	11,750	80,748	92,498	387,081
., 1919	729,612	346,272	1,075,884	47,057	75,634	122,691	1,198,575
,, 1920	591,303	272,854	864,157	93,904	58,911	152,815	1,016,972
1991	497 314	163 640	660 954	68 846	37 187	106 033	766 987

APPENDIX E.—No. I.

CURED FISH BRANDED.—Return showing the Number of Barrels of Cured Herrings Branded, distinguishing the different Brands, and the Amount of Brand Fees collected, during the Year 1921.

	No.		p(61 K	4	100	٥٢	∞ c	10	=:	2 5	41	3		16	-				
	DISTRICT.	EAST COAST.	Eyemouth.	Leith. Anstruther.	Montrose.	Stonehaven.	Aperueen. Peterhead.	Fraserburgh.	Buckie.	Findhorn	Cromarty.	Lybster.	Wick.	East Coast Totals.	Orkney and Shetland. Orkney.		Orkney and Shetland Totals.	Grand Totals Branded.	Rejected.	Totals Presented.
Я	Received.		8 10 e:	: :		:	483 6 2	612 3 4	- 1	:	•	0.5	4	1,655 19 2	111 16 2	3	774 8 10	2,430 8 0	:	:
NDED.	Total.		510	: :	:	:	28,998	36,730	785	:	:	£9 92 046	000,12	99,3571	6,708±	20.00	46,4662	145,824	3,321	149,145
VGS BRA	Spent.		:	: :	: :	:	9	 	•	:	:		80	1321	88 6		240	3724	:	3721
HERRIN	La. Spent.		ಣ	: :	::	:	1,1874	1,605	000	:	:	1791	2711	3,046	170	0,100	6,879	9,925	7	9,932
NUMBER OF BARRELS OF CURED HERRINGS BRANDED.	Mattie.		155	: :	:	:	9,488	10,348	1681	:		0.0641	2,00,tg	$30,069\frac{1}{2}$	1,830	200	7,708	37,7774	1,142	38,9191
ARRELS C	Matt. Full.		219	: :	: :	:	$10,048\frac{1}{2}$	14,514	3371	:	:	19 5001	12,0002	39,9011	3,200	20160	12,965	52,866 <u>1</u>	1,1941	54,061
SER OF BA	Full.		133		:	:	7,545	9,084	248	:	: :	44 7 1401	2,1±0g	24,065	1,4204		14,1971	$38,262\frac{1}{2}$	8554	39,118
NUMB	La. Full.		:	::	:	:	7231	1,116	22	:	•	1311	ZOTT	2,143	4 477	2,2	4,477	6,620	122	6,742
any a diameter and	DISTRICT.	EAST COAST.	Eyemouth	Anstruther	Montrose	Stonehaven	Peterhead	Fraserburgh	Buckie.	Findhorn	Gromarty	Lybster		East Coast Totals .	Orkney and Shetland. Orkney Shetland		Orkney and Shetland Totals	Grand Totals Branded .	Rejected	Totals Presented
	No.			27 00	41		-	ж с	10,0	= 5	2 2	41	2		16					

TABLE E.—No. II.

FISH EXPORTED.—RETURN showing the Total Quantity of Fish Exported to England, Ireland, the Continent, and Places out of Europe during the Year 1921.

	I	–HERRI	NGS.			
			DESTINAT	TION.		
DESCRIPTION OF FISH-	Eng- land.	Ire- land.	The Continent.	Places out of Europe.	Total 1921.	Total 1920
CURED GUTTED HERRINGS. (a) Graded or Branded—	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.
La. Full	566		$\begin{array}{c} 4,211\frac{1}{2} \\ 96,455 \\ 125,070 \\ 127,530 \\ 27,537\frac{1}{2} \\ 1,390\frac{1}{2} \\ 489\frac{1}{2} \end{array}$		$\begin{array}{c} 4,211\frac{1}{2} \\ 97,021 \\ 125,070 \\ 127,530 \\ 27,537\frac{1}{2} \\ 1,390\frac{1}{2} \\ 489\frac{1}{2} \end{array}$	$ \left.\begin{array}{c} 29,672\frac{1}{2} \\ 48,889 \\ 59,094 \\ 2,939 \\ 13,766 \end{array}\right. $
Total Graded or Branded (b) Not Graded or Branded	566 4,718	6281	382,684 232,837	$72,296\frac{1}{2}$	383,250 310,480	154,360½ 171,595
Total Cured Gutted . Total Cured Ungutted . Herrings Sprinkled or Iced	5,284 152	6281	615,521 6,611 15,543½	72,296½	693,730 6,611 1 5 ,695½	325,955½ 10,285 5,816
Grand Totals for 1921 Grand Totals for 1920	5,436 18,377	628½ 1,886	$637,675\frac{1}{2} \\ 252,741\frac{1}{2}$	$72,296\frac{1}{2}$ 69.052	*716,036½	342,056 <u>1</u>
Increase in 1921 Decrease in 1921	12,941	1,257½	384,934	3,244½ ··	373,980	• •

^{*} Includes 279,382½ barrels, branded or graded, and 23,581 barrels unbranded of 1920 cure.

		II.—	-OTHER	KINDS.			
Cod, Ling, &c., dried Do., picklee Mackerel, do. Sprats, do.	:	Cwts. 31,800	Cwts. 6,607	Cwts. 22,803 71 1 5 7 4,040	Cwts. 4,886	Cwts. 66,096 71 165 4,100	Cwts. 116,156 18 218 7,29

Note.—In addition to the above there were exported via Glasgow 2,109 barrels of Irish herrings to America, and of preserved fish 9,991 cwts. to America, 4,325 cwts. to Australia, 1,630 cwts. to Spain, 327 cwts. to Ireland, and 242 cwts. to England, making a total of 16,515 cwts. preserved fish. 763½ barrels of Irish herrings and 10 barrels of Iceland herrings were also exported to Hamburg via Leith.

TABLE E.—No. III.

DESTINATION OF EXPORTS.—STATEMENT showing the Ports or Places to which Herrings exported to the Continent were shipped.

DESTINATION.		From East Coast.	From Orkney & Shetland.	From West Coast.	Total . 1921.	Total 1920.
GERMANY AND BALTIC:—	THE	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.
Cuxhaven .						1,290
Altona	•	2,3961	3,654	2,536	8,5861	1,290
Hamburg .	•	$42,788\frac{1}{4}$	79,033	5,37 4	127.195	17.957
Stettin	•	125,3441	78,157	10,180	213,681	4,667
Neufahrwasser		120,0442	15,101	10,100	210,0015	398
Danzig .		75,458	27,7941	10,580	113,8324	91,408
Königsberg	•	15.382	$16,542\frac{1}{4}$	10,000	31,924	
Memel .	•	10,002	10,0125	* *.	31,3244	13,803
Libau	•	8,5891	3,8171	• •	12,407	10,134
Riga		9,273	$2,014\frac{1}{4}$	$3,775\frac{1}{2}$	15,063	31,045
Reval		17,5541	14,194	_	31,7481	• •
Wyborg .	•	3.443	1,550	• •	4,993	10.005
Kotka .	-	3,761	1,550	• •		10,025
Helsingfors .			1,484	• •	3,761	10.010
Abo		19,1061		• •	20,5901	10,219
Wasa	•	1,076	••	• •	1.076	3,000
wasa	•	1,076	• •	••	1,076	• •
Sweden:—						
Stockholm .		5,4891	6,900		$12,389\frac{1}{2}$	14,996
Gothenburg.		2,612	6,404		9,016	7,390
Marstrand .		, .	1,098		1,098	
Lysekil .			868		868	
NORWAY:-			I			
Christiania .		1,0071			1,0071	100
DENMARK:-		2,001.2			2,00.2	100
Copenhagen .		1851			1051	FOOL
		100 5	• • • •		185 1	108
HOLLAND :						
Amsterdam .		151	• •		151	
Ymuiden .		1,290		• •	1,290	
Vlaardingen.		1,014	• •	• •	1,014	
Rotterdam .		573		• •	5 73	$502\frac{1}{2}$
Belgium :						
Antwerp		9361			9364	7,5891
Ostend		4.1371			4.137	4,171
Astride.		2,10,2			2,20.9	837
France:-	-					
PRANCE:— Dunkirk .		106			106	
	•	196	••	• •	196	60
Boulog n e	•	200	• •	• • .	200	9.000
Fécamp .	•	4,634	••	• •	4,634	3,266
Havre .	•	102	• •	• •	102	1001
Rouen	•	40			40	$190\frac{1}{2}$
PORTUGAL:-				1		
Lisbon						$52\frac{1}{2}$
ROUMANIA:						·
Galatz		4,768	$10,209\frac{1}{2}$		$14,977\frac{1}{2}$	$19,530\frac{1}{2}$
Totals .		351,5091	253,7201	32,4451	637,6751	252,7411

Note.—Included above are 1,966 barrels Spiced Herrings (Marstrand 1,098, Lysekil 868); 6,611 barrels ungutted (Hamburg 197, Vlaardingen 736, Ostend 1059, Fécamp 4,594, Rouen 25); and 15,543½ barrels Sprinkled or Iced (Altona 8,586½, Hamburg 5,015, Amsterdam 151, Ymuiden 1,290, Rotterdam 386, Antwerp 115).

TABLE E.-No. IV.

VALUE OF CURED FISH.—RETURN showing the estimated Value—after Cure—of Herrings Cured (distinguishing Herrings Branded) and of Cod, &c. Cured during the Year 1921.

	1	ALUE	OF CURE	D HERF	RINGS B	RANDEI).
DISTRICT.	La. Full.	Full.	Mat. Full.	Mat- tie.	La Spent.	Spent	Total Branded.
EAST COAST.	£	£	£	£	£	£	£
Eyemouth		2 66	394	248	4		912
Leith		• •					• •
Anstruther		• •	• • •	• •	• •	• •	
Montrose		• •			• •	• •	
Stonehaven						• •	• •
Aberdeen	1.500	15 045	17 900	15 410	1 200	• • •	F1 40F
Peterhead	1,592	15,845	17,208	15,418	1,366	6	5 1,435
Fraserburgh.	2,511	19,531	24,674	$16,557 \\ 1,332$	1, 76 6	66	65,105
Banff	355 44	3,962 4 97	3,804 540	2 5 3	10	3	9,532 $1,344$
Findhorn				203		• •	1
O		•••	• •	1	• •	• •	• •
Helmsdale		• •		• •	• •	• •	• •
Lybster		8	3	- : :	• •	• •	· · 11
Wick	237	9,767	21,266	14,503	175	60	46,008
East Coast Totals	4,739	49,876	67,889	48,311	3,397	135	174,347
Orkney and Shetland Totals	10,073	29,886	16,112 21,5 5 2	12,333	7,715	285	70,312 82,061
WEST COAST							
Stornoway							
Barra							
Loch Broom							
Loch Carron and Skye .							
Fort-William .		*					
Common haltan							
Campbeltown							1
Inveraray							
Inveraray	• •				• •	*	• •
Inveraray		• •					• •
Inveraray		• •	• •			*	
Inveraray	• •	••	• •	• •		* 	
Inveraray		••	::	• •			••
Inveraray		79,762	89,441	• •	••	420	••
Inveraray Rothesay Greenock Ballantrae West Coast Totals. Grand Totals for 1921 Grand Totals for 1920 .	14,812	79,762	89,441	60,644	11,329	420	256,408 †1,278,098
Inveraray	14,812	79,762	89,441	60,644	11,329	420	256,408

[†] Cured Herrings Branded or Accepted under Government Guarantee in 1920. Total includes £24,286 in respect of Tornbellies.

TABLE E.—

VALUE OF CURED FISH.—RETURN showing the estimated Value—and of Cod, &c. Cured

	VALUE OF CURED HERRINGS NOT BRANDED.					
DISTRICT.	Gutted.	Un- gutted.	Kip- pered.	Bloaters or Reds.	Tinned.	Total not Branded.
EAST COAST.	£	£	£	£	£	£
Eyemouth	1,458		87,192		21,970	117,313
Leith			19,974			21,099
Anstruther	80	• •	393			1,513
Montrose.		• • •	265	3	1,010	1,278
Stonehaven	• •	• •	75,712	1 064	0.730	00.71
Peterhead	19,068	•••	93,316		6,738	83,514
Fraserburgh	47,266	3,015			1,392 5,363	113,776 161,126
Banff	1,693	3,010	7,505		1	9,228
Buckie	1,544	825			• •	14,83
Findhorn	166		180			340
Cromarty						
Helmsdale	164					164
Lybster	118		3,474			3,592
Wick	54,798	8,320	134,172	• •	••	197,290
East Coast Totals	126,355	12,160	539,499	10,585	36,473	725,072
Orkney and Shetland. Orkney Shetland	34,481 439,692	• •	11,495	••	• •	34,481 451,187
Orkney and Shetland Totals	474,173	••	11,495		••	485,668
WEST COAST.						
Stornoway	51,611		72,824			124,435
Barra	99,355					99,355
Loch Broom	845				• •	848
Loch Carron and Skye .	2,072	• •	9,778		• •	11,850
Fort-William	31,745 1,135		16,466 1,549			48,211
Inveraray	2,625	. ••	43		• •	2,684 2,668
Rothesay.	140		3,238			3,418
Concess of	5,418		68,482	261		74,161
treenock	135		4,517			4,732
			176,897	381	••	372,359
Ballantrae	195,081	• •				
Greenock. Ballantrae West Coast Totals Grand Totals for 1921	195,081 795,609	12,160		10,966	36,473	1,583,099
Ballantrae West Coast Totals		12,160			36, 4 73 331,266	1,583,099 2,226,078
Ballantrae West Coast Totals Grand Totals for 1921 .	795,609	12,160	72 7 ,891			

Note 1.—Included above are £5420 for gutted herrings cured "spiced" in Shetland for Sweden; and £3059 for kippers. £13,982 for reds or bloaters, and £1500 for tinned manufactured from herrings brought from England; and £1480 for kippers from herrings imported from Norway.

No. IV .- continued.

after Cure—of Herrings Cured (distinguishing Herrings Branded) during the Year 1921.

Grand Total	VAI	LUE OF	CURED	COD, LING	, &c.	Grand Total
Value of Cured Herrings.	Dried.	Pickled.	Tinned.	Smoked.	Total.	Value of Cured Fish.
£	£	£	£	£	£	£
118,225 21,099 1,513 1,278 83,514 165,211 226,231 18,760 16,177 346 164 3,603	1,000 75 97,514 690 2,074 380 1,280 	5,630 35 2,380	549 6,280 306 5,859 	1,680 9,342 360 59,209 10,405 1,050,753 4,740 7,136 23,180 7,840 15,776 1,566 2,925 384	1,680 14,972 1,360 59,833 10,405 1,154,547 5,736 15,104 23,560 9,120 18,156 1,566 2,925	119,905 36,071 2,873 61,111 10,405 1,238,061 170,947 241,335 42,320 25,297 18,502 1,566 3,089 4,072
243,298 89 9, 419	103,763	8,045	12,994	3,368 1,198,664	1,323,466	247,331 2,222,885
46,230 521,499 567,729	315 7,906 8,221	50 187 237		3,780	365 11,873 12,238	46,595 5 33 ,372 579,967
124,435 99,355 845 11,850 48,211 2,684 2,668 3,418 74,161 4,732	607 242 141 615 53	20			607 242 161 615 53	125,042 99,597 1,006 11,850 48,211 3,299 2,668 3,418 74,214 4,732
1,839,507 3,504,176	113,642 307,460	8,302 2,424	12,994 50,017	1,202,444 1,798,584	1,337,382 2,158,485	3,176,889 5,662,661
		5,878		1,790,004	2,100,400	
	193,818		37,023	596,140	821,103	

Note 2.—In addition to the above there was imported from Iceland, Farce and Norway in a wet-salted state and dried in Scotland fish to the value—after cure—of £43,680 (cod £41,795, ling £1397, saithe £231, and haddocks £257).

TABLE F.—
PERSONS EMPLOYED.—RETURN showing the Total Number of branches of the Sea Fisheries

No.	DISTRICT.	Fishermen and Boys (regularly or partially employed.)	Fishmongers.	Hawkers of Herring and other Fish,	Fishcurers.	Coopers.	Gutters and Packers.	Clerks.	Carters and Labourers,	Persons gathering Bait and Baiting Lines.
	EAST COAST.									
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Eyemouth Leith Anstruther Montrose Stonehaven Aberdeen Peterhead Fraserburgh Banff Buckie Findhorn Cromarty Helmsdale Lybster Wick	573 1,712 1,551 958 145 3,402 1,421 1,973 1,400 3,639 1,494 514 305 124 1,106	2 653 25 258 5 192 6 5 3 11 22	346 31 194 31 272 27 20 48 24 110 25 16 6 56	13 22 27 44 6 173 89 80 24 21 37 6 12 2	36 29 25 8 7 129 264 410 28 89 12 6 5	247 144 81 43 17 1,318 1,023 960 240 288 404 210 90 32 840	12 261 12 32 6 351 43 75 5 31 14 	74 353 19 71 9 1,772 220 390 24 34 7 9 4 160	70 82 239 383 63 63 54 90 72 60 15 15 40
	East Coast Totals .	20,317	1,194	1,212	610	1,258	5,937	865	3,175	1,270
16 17	Orkney and Shetland. Orkney	2,998	3	14 9 23	6 39 	12 115 127	45 594 639	19	43 117 160	52
10	WEST COAST.	4,056	20	40	15	35	1,600	14	120	
18 19 20 21 22 23 24 25 26 27	Barra Loch Broom Loch Carron and Skye. Fort-William Campbeltown Inveraray Rothesay Greenock Ballantrae	955 711 862 403 617 367 130 215 552	8 3 3 17 686 94	14 15 6 47 891 65	7 8 17 16 26 7 3 27 16	3 10 5 1 3 	306 12 45 24 28 24 18 82 18	3 5 3 124 1	32 6 18 8 12 7 12 237 46	10 89 20 15
	West Coast Totals .	8,868	831	1,081	142	77	2,157	151	498	147
	Grand Totals for 1921 Grand Totals for 1920	32,183 36,319	2,028 1,889	2,316 2,262	797 822	1,462 1,738	8,733 9,403	1,035 899	3,833 3,790	1,469 1,570
	Increase in 1921 . Decrease in 1921 .	4,136	139	54	25	276	 670	136	43	101

No. I.

Persons employed in each District in connection with the various during the Year 1921.

durin	g the	Year	1921.								
Boxmakers.	Boxmakers.	Basketmakers.	Persons making and mending Nets.	Persons manufacturing Barrel Staves.	Person ploye board Curing portin Carr Herrin other	ed on Vessels g, Ex- g, and ving	Person ploye board Impo Salt, Wood Hoo	ed on Vessels rting Stave I, and	Other Occupations.	Total Persons employed.	DISTRICT.
Ä	Bos	Ваз		Persons	British.	Foreign.	British.	Foreign.	Other	Total Pe	
											EAST COAST.
4i i3 2i5 10 6 8 3	15 65 19 12 1 1,050 22 26 54 160 12 5	31 5 18 	12 552 170 23 40 465 118 110 38 95 20 6	25 24 40 5 6	37 184 2 13 208 238 664 4 69 2 51	16 15 9 24 286 429 41 34 21 	4 12 	122 81 147 	363 28 44 360 25 12 30	1,117 4,871 2,242 2,101 330 10,159 4,024 5,565 2,000 4,610 2,227 788 483 176 3,104	Eyemouth. Leith. Anstruther. Montrose. Stonehaven. Aberdeen. Peterhead. Fraserburgh. Banff. Buckie. Findhorn. Cromarty. Helmsdale. Lybster. Wick.
336	1,456	65	1,695	118	1,472	1,192	358	404	863	43,797	East Coast Totals.
••	31 32 63	•	. 57 57	12	40 571 611	157 539 696	10 255 265	iė1 161	10 21 31	1,243 4,719 5,962	Orkney and Shetland. Orkney. Shetland. Orkney and Shetland Totals.
											WEST COAST.
7	18 5 15 6 2 10 10 7 4	4	10 187	•••	232 109 15 18 42 172 89 22 359	76	22 53 2 2 2 20 4		12 3 1 36	6,302 1,468 772 1,081 551 904 518 262 2,907 803	Stornoway. Barra. Loch Broom. Loch Carron and Skye Fort-William. Campbeltown. Inveraray. Rothesay. Greenock. Ballantrae.
7	77	4	239		1,058	76	103		52	15,568	West Coast Totals.
343 282	1,596 3,376	69 69	1,991 2,260	130 169	3,141 2,881	1,964 631	7 2 6	5 6 5 769	94 6 716	65,327 70,983	Grand Totals for 1921. Grand Totals for 1920.
61		.,			260	1,333	••	••	230	••	Increase in 1921.
	1,780	••	269	39	••	••	412	204	••	5,6 56	Decrease in 1921.

ABLE I.—No. 1.

HARBOUR WORKS.—ACCOUNT of RECEIPTS and PAYMENTS by the Fishery Board for Scotland for Building, Extending, and

S.		$\begin{array}{ccc} 0 & 0 \\ 17 & 4 \\ 0 & 0 \end{array}$	52 10 0	54 15 0	8 10 2	7 5 19 11	
	ધ્યે *	1,000 0 284 17 850 0	52	54	∞	18,977 7 5 £21,227 19 11	
Repairing PIERS or HARBOURS in Scotland in the Year 1921.	Dec. 31. By Payments for Harbour Works during the year, viz.:—	Macduff	,, By R. Gordon Nicol, O.B.E., M.Inst. C.E., allowance to provide professional assistance	" By W. A. Knight, Clerk of Works, allowance for Inspection of Harbour Works	", " By Travelling Expenses	" " By Balance in hand	
RBOUR	s. d.	4 11	0 0	2 6	39 68	27 19 11	1
ts or HA	£ s. 6	327 4 11	3,000 0 0	36 19	39	10 1 2 £21,227 19 11	
ing PIER	•	ni bec	Quays		do.	do.	ı
Repair	•	deposit	Piers or Quays		70		
1							
	•	amount .	ap. 64)		do.	do.	
e	Salance	Interest on amount Bank	Grant in aid of Pi (5 Geo. IV. cap. 64)	Bank	do. do.	do. do.	
6	1921. Jan. 1. To Balance	Mar. 31. To Interest on amount deposited in Bank		Bank			

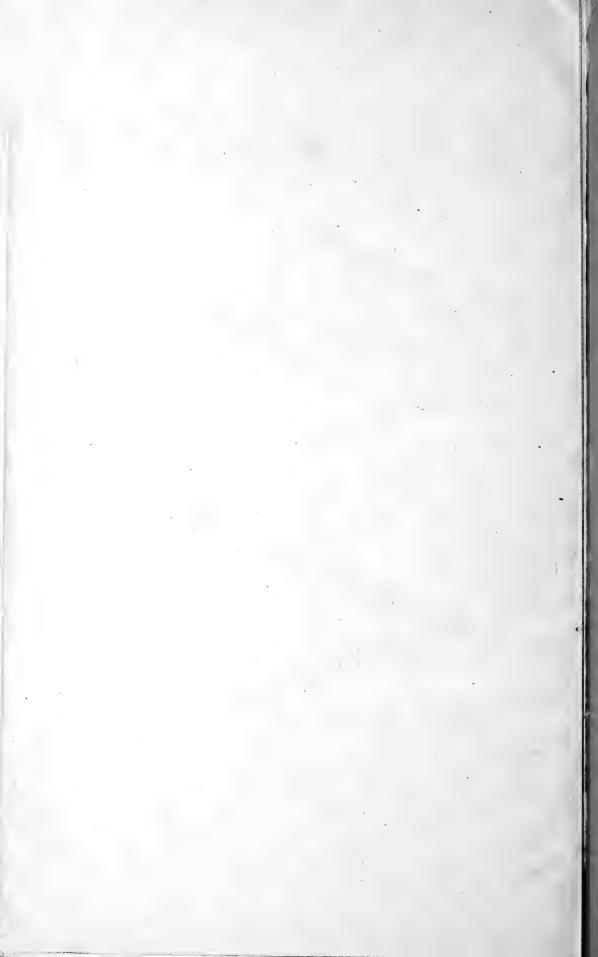
TABLE I.—No., II.

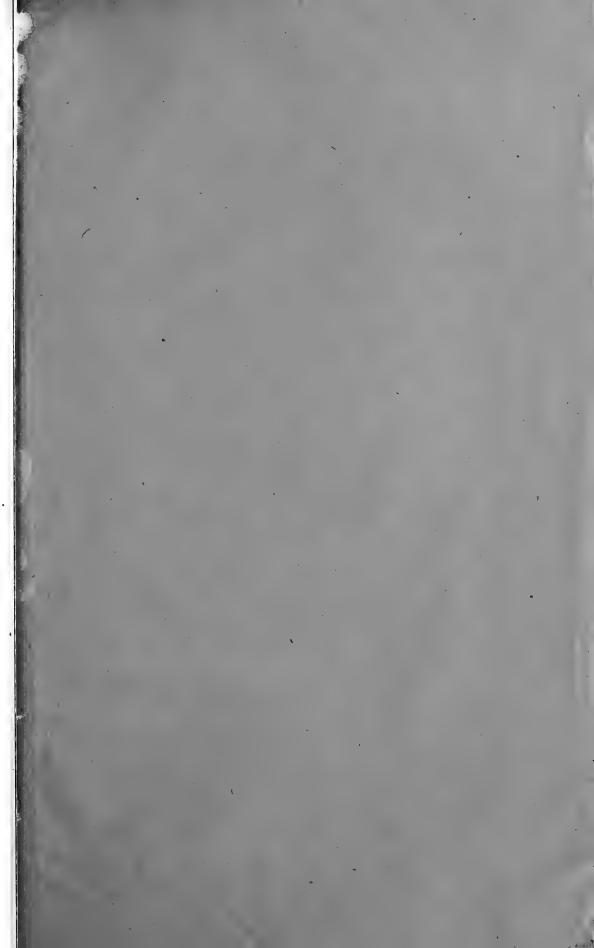
RETURN of the PIERS and HARBOURS Erected or Improved by the FISHERY BOARD FOR SCOTLAND from 1st January 1883 to 31st December 1921, showing for each undertaking the Contribution made by the Board.

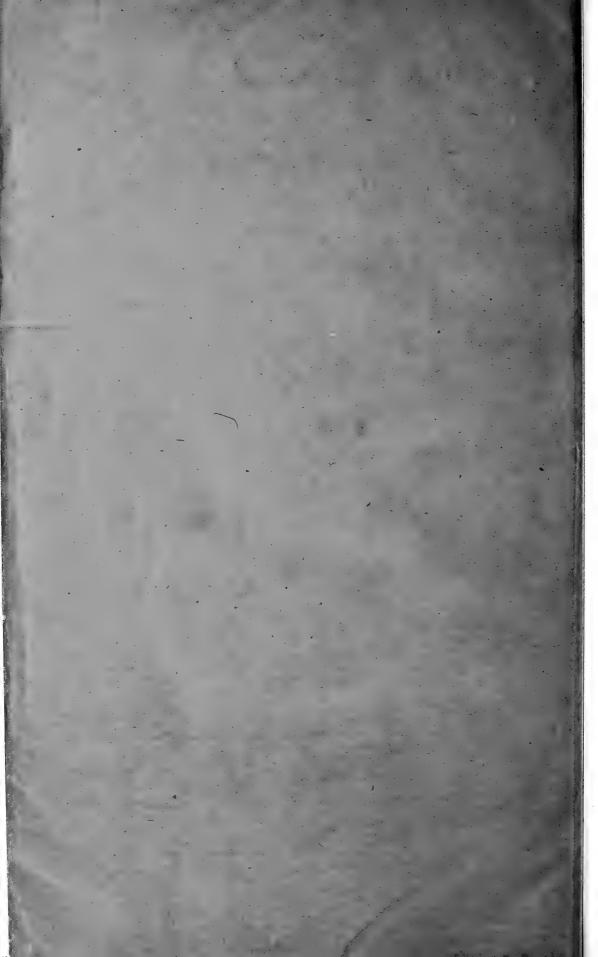
County.	Pier or Harbour.	Contributions by the Board.		County.	Pier or Harbour.	Contribution by the Boar			
		£	s.	d.			£	s.	d.
					Bro	ught forward	81,169	1	7
Aberdeen	*Rosehearty	3,881	10	11	Elgin .	Lossiemouth	-,	0	()
	Pennan .	1,320	13	4	Fife	St. Monance	5,839	18	1
	Collieston .	5,482	0	7		Pittenweem	4,450	0	0 1
	Sandhaven	738	10	9		St. Andrews	5,670	2	1
	Fraserburgh	5,000	0	0		Cellardyke	1,300	0	
*	Buchanhaven	850	0	0	Forfar .	Auchmithie	4,125	0	
Argyll .	Carsaig, Mull	5	17	0	Haddington	Port Seton	180	0	0
O.	Waterfoot,				Inverness .	Broadford,			
	Cantyre.	24	0	0		Skye .	7,875	0	0
Ayr	Dunure .	512	6	8	Kincardine	Stonehaven	2,900	0	0
•	Ballantrae -	105	0	0	Northum-	Greenshaven	319	16	1
	Maidens .	1,181	19	6	berland .	Craster .	1,000	0	0
Banff .	Crovie .	971	16	3	Nairn .	Nairn .	5,587	10	0
	*Findochty	9,331	8	9	Orkney and	Holm, Ork-			
	Buckpool .	1,474	18	11	Shetland	ney .	1,102	0	10
	Buckie	·				Whitehall,			
	(Cluny).	15,000	0	0	• '	Stronsay	3,000	0	0
	Portknockie	6,993	16	0	Ross and	Balintore	5,805	13	0
•	Whitehills.	10,012	4	7	Cromarty	Rockfield .	10	0	0
	Sandend .	432	18	4	•	Ness, Lewis	8,072	6	7
	Cullen .	3,100	0	0		Cromarty .	300	0	0
	Banff	5,750	0	0		Avoch .	1,900	0	0
	Macduff .	6,000	0	0	Sutherland	Portnacon.	900	0	0
Berwick	Coldingham	3,000	0	0					
Ca	rried forward	81,169	1	7			142,506	8	3

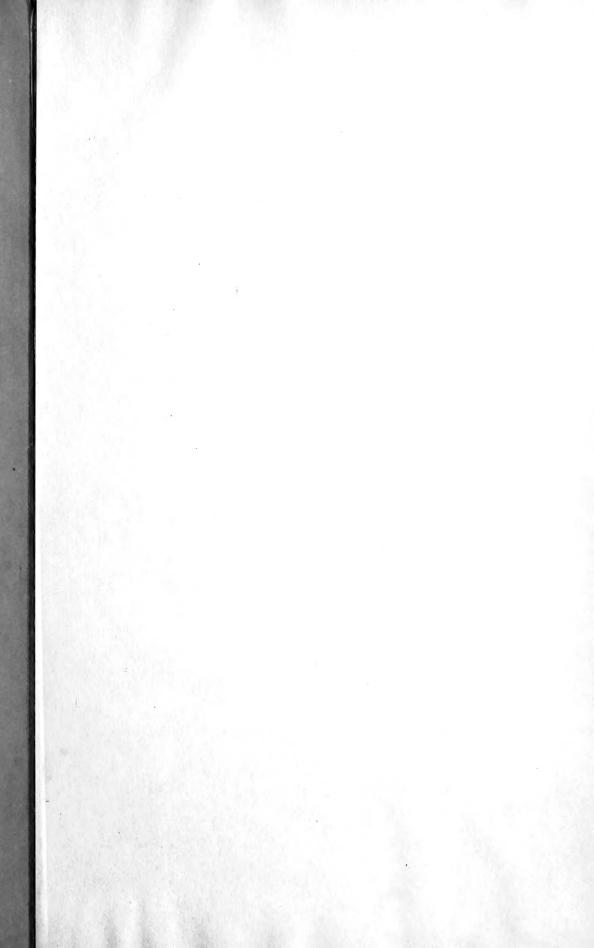
^{*} These harbours were begun by the old Board, but the whole of the payments made towards the works are now given.

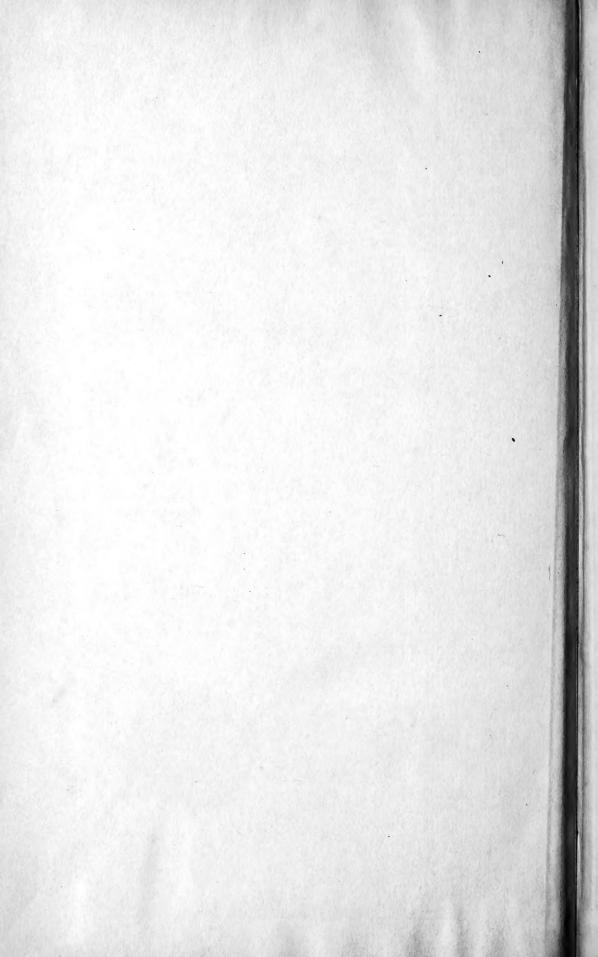
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