The Plymouth Mackerel Fishery of 1889-90. From Data collected by Mr. Wm. Roach, Associate Member M. B. A.

By James addition addition By James

## W. L. Calderwood.

THE returns kindly sent in by Mr. Roach have been tabulated in the following pages.

The period during which Mr. Roach made his observations extends

from October 23rd, 1889, to September 29th, 1890.

Concerning the particular localities in which the fish have been caught, it may be useful, for those who are not familiar with the coast, to explain that the fish make their appearance on the coast at a considerable distance to the east of Plymouth (18-20 miles). The shoals then appear to travel in a westerly direction, some going off into deeper water, all moving about in a more or less uncertain manner. The head-quarters of the fishery eventually become fixed south of Plymouth and Eddystone Light. Gradually the fish seem to approach the shore, swimming now in large shoals. Many enter Plymouth Sound and are taken in comparatively shallow water, while others travel west, also in shallow water. The "remarks" for August are instructive. We find that, besides the ordinary and large fish, there are also "small fish about the size of pilchards" in the Sound, that "numerous large shoals" are noticed, and that at a later date the fish "seem to be leaving Plymouth Sound." On September 1st we find the note that "the mackerel are going off into open water and the shoals breaking up." On the breaking up of the shoals the mackerel fishing is considered to be at an end.

Concerning the forming of the shoals Mr. Roach also makes some remarks. I quote from his paper, "May 3rd: Mackerel are now gradually drawing to land. Some years ago they used to shoal in May, but of late years they have not shoaled so early. . . . I think it is owing to our April month being often so stormy.

. . . Last year they did not shoal until July (1889)."

On June 21st he says, that, on an average, the shoal mackerel are much smaller than those taken with hook and line.

Such remarks as these serve to throw some light on the systematic movements of the mackerel shoals. Like the herring, they appear at certain parts of the coast at certain seasons, are driven by instinct to approach the land, and penetrate into the arms of the sea. At the same time shoals of younger fish are present, behaving in exactly the same way. The experience of fishermen goes to prove that the shoals of different sized fish do not intermingle; after a time the fish recede from the land and the shoals break up. But we also notice that there are certain causes which may retard or accelerate this series of movements. Meteorological conditions may affect the fish directly or they may affect their food, but since we have no regular record of the state of the weather, temperature of the sea in which the shoals swim, state of their food or reproductive organs, we are unable to discuss this point.

In relation to the state of the wind and the actual takes, however, this passing note may be made, that stormy weather seems to be favourable for "whiffing" (trolling a spinning bait), as the mackerel then seem to come to the surface, but whether the smaller classes of fish may not be taken at the same time by sunken nets is uncertain.

As a rule only the largest fish are caught by "whiffing." .

It is difficult to give, with any degree of accuracy, the total number of mackerel landed, since the record of the number of boats fishing is often incomplete. Such a record is, of course, not easily obtained except through some one regularly in attendance at the fish quays.

In studying the price column it is necessary to understand that in Plymouth, as in almost every other fishing centre, weights and measures are considerably distorted. In selling mackerel or herring by auction, as landed from the boats, 100 always means six score.

A few notes as to the methods of catching mackerel in this locality

may be of interest.

In addition to the ordinary sunk or floating net—too well known to require description—what is locally known as "brimming" is

much practised, especially by the Cornishmen.

Brimming is carried on during quiet nights. As the boat sails slowly along, a man in the bows, at short intervals, stamps loudly with his feet, lets the stock of the anchor fall suddenly on the rail, or makes some other noise, keeping at the same time a sharp lookout. The shoals of mackerel, startled by the sound, make one or two darts through the water, and cause quick flashes of phosphorescence. The suddenness of the flash distinguishes herring or mackerel from other less active fish. This is called the brim, and

DELLETIME DE	wed od to the		Wind.		Weather.	Price per	Remarks.	
Date.	Locality.	No. of boats.	Catch per boat.	Force.	Direction.	weather.	100.	Remarks.
1000		0	2 2 2	20	Pe i	100	* 3	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1889. Oct.	9 9 F 4 W 5 E E		1 证 唯 是	2 8	V 4 .	8 5 4	8 2	
23	Between Bolt Head and Start	_	24,000 and under	_	2 -	_ E G	14/0-17/0	
40	Point Point		21,000 and and	E- 8	1 6 .	F- E- 2	18 8	
24	16 miles off Bolt Head	_	10,000 ,,	-	E.	Fine	14/0	
25	20 miles S.W. of Start Point		10,000 ,,	Fresh	E.	8 8 4	14/0-16/0	Good quality. Considerable damage done by do
00	20 miles com of como 2 onto		1 6 8 8	6	S S H.	0 8	# 6	fish (Acanthias). In 10,000 mackerel, 2000 t
			1 2 0	20	3, 3,	5 B 5	9 9	3000 will have pieces bitten out of them by dog
26	12 miles S. of Salcombe	-	6000 ,,	-	2 0 p	5 3 5	17/6	
30	S.S.W. of Salcombe	_	3000 "	_	_	日子吧	25/0 large	Storm.
	6 4 W W T W E E E		6 6 6 6	5 9	A S A	四 計 日	fish; 9/0	
	品名音音品音片		D 00 B 8	E 8	w.	Fine	small fish 20/0-24/0	Dog-fish again very numerous.
31	S. of Salcombe	-5	3000 "	10 -0	W.	Fine	20/0-24/0	Dog-usu again very numerous.
Nov.	7 8 8 8 m 8 4 E 4		000	Cala	w.	8 - 7	17/0-21/0	10 年 4 8 2 2 2 2 2 4 4 4
1	12 miles W.S.W. of Start Point	-	900 ,,	Gale	, vv .	雪 五 台	17/0-21/0	Too stormy.
2	10 7 9 691	16	400	RET	1 0	9 - 9	21/0-25/0	- 100 stormy.
4	10 miles S. of Salcombe	00	0000		5 _ 5	8 M E	20/0-26/6	L 两 T 甚 B B B B E B B B B A Z
5	6-10 miles S.W. of Start Point	-	A few hundred	8 -	8. E H	8 5 5	24/0	Fish scarce. Bright moon given as reason.
7	10 miles S.W. of Bolt Head 15 miles S.W. of Start Point	2 or 3	200	8_	D 15 55	0 # #	25/0	
8	20 miles S. of Salcombe	3	200	100		B 8 -	25/0	A TORRESTER
9	20 miles S. of Salcombe	-	200	-	-		2 2 0	Mackerel become so scarce boats starting pilchar
	图 R P 是 日 L E N 日				B B 6	5 5 5	THE T	fishing.
15	4 miles S.E. of Eddystone	3	200-300	8_B	- un H	B - B	37/0	The nets worked by these boats are half macker
10	2 miles cital of facilities	. 2	L. S. B.	E. 8	Fig. T	M. T. E	日日日	and half pilchard.
16	6 miles S. of Eddystone	4	200-1000	-	3 - 2	B = 3	30/0	P. Z. boats.
17	15 miles S.S.W. of Start Point	4	400-500	-		0 = 1	30/0	P. Z. boats. Dog-fish are reappearing.
18	15 miles S.S.W. of Eddystone	_	200 and under	-	5 4	0 -	30/0	
19	15 miles S.S.W. of Start Point	-	3000 ,,	_	- H	# 4 8	34/0	P. Z. boats using sunken nets. Thousands
	a o * 9 E E E o S		A B B B L	0	P 27	A . 9	05/0	small mackerel are along the coast.
20	Ditto	6	1500 ,,	-	-	4 6 9	27/0	B C E & E W B 医 C C F E L E
21	20-30 miles S.S.W. of Start	8	2500	Strong	E.	B 7 B	25/0-27/0	5 5 4 8 8 6 5 6 6 6 6 ° °
4.9	Point		000 7	B. B.	5 4 6	7 6 5	97/0	
22	15 miles S.W. of Start Point	-	800 and under	3 1	33	臣 豆 强	27/0 26/0	Stormy.
23	20 miles S.S.W. of Start Point	3	400 ,,	O Es	5 - P	PER	37/0	Stormy.
27	15 miles S.S.W. of Start Point	5	300 ,,	_			36/0	About 60 boats out.
28	15-20 miles S.W. of Start Point	6	1500 ,,				26/6	A great many boats given up for want of luck.
29	20 miles S.W. of Start Point	2	300				20/0	a Brone many source Brief ap an ap an

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Dec.	- XC college, W., of Didden	5	None	_		-	14-50-0   31-50-0	Got their nets full of dog-fish, greatly injuring
10	1 40 miles S. of Plymouth	9	ronc	-				the nets.
13	15 miles S.W. of Bolt Head	1 1	3700 700	-	-	-	37/0	
17	15 miles S. of Plymouth	3 50	900 and under	-	-	-	37/0-40/0	Very large.
1890.	Point 30-40 miles S. of Plymouth	J e	500 and ander	3 41	1 77			Many boats with no fish. Fish of poor quality.
Jan. 14 16	40 miles S. of Plymouth 30 miles S. of Mewstone	1	1150 700	=	=	=	87/0 84/0	The first take of mackerel for nearly a month.
Feb.		1 or 2	100		N.E. min			Poor takes. Attributed to the very bright moon.
12	35-45 miles S. of Plymouth	1 20	2000-3000 3000 & under	-		Stormy	35/0-40/0	The presence of dog-fish complained of, injuring the mackerel.
15	28 miles S.S.W. of Start Point	_	450 and under	-	E.S.E.	,,	47/0	A gale followed, blowing from N.N.W.
17	Commence of the Commence of th	_	200 ,,	_	S.S.E.	,,	100/0	Asserting and Action a
18	the second section of the second second	10	30 "	_	E. by S.	,,	1/0 each	Floating hate. Tillow the the carly storeing after
20	20 miles S. of Bolt Head	1	450	_		_	50/0	A calm followed.
22		2 75	700-1000 A few fish	-	-		41/0	Caught by "brimming," encircling fish seen at night by the phosphorescence they cause when frightened.
24	30 miles S.S.W. of Start Point	1	1900 1500	Strong	E.	Tille .	44/0	Sunken nets.
26	30 miles S.S.W. of Berry Head	70 Several	50 and under A few hundred 4400	-	-		39/0-44/0	with fish, and few house with more than a score of fish.
	an er artis e sentimente	1	3000		0.15	Pager		Heating note by Luminated lumbs Very for leads
Mar.	32-37 miles S. of Stoke Point	1	1000	-	S.W.	Line .		Most of the souts not out. No boat with move
3	35 sulles S.S. N. of Plymouth	80	1700 and under	-	=	-	880 <u>-8800</u>	20 Lowestoft boats arrived without any fish after trying for 3 or 4 days.
5	30 miles S.S.W. of Start	Many 1	Very few 250	Presh	30.70c	= .	50/0	Blooting dates. Several Denta put back, segre-
7	40 miles S. of Plymouth	1 8	300 20–30	Strong	s.w.	-	60/0	Floating nets.
10	35 miles S.S.W. of Mewstone	6	350 and under	_	W.	Fine	75/0	Floating nets.
12	80 valler's: 10 Mewatons	1 2 8	1500 700 200–1000	=	w.	Tine	40/0-48/0	
		1	400		~ ~ ~			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
13	25-30 miles S.S.E. of Mew- stone	30	1500 and under	-	s.s.w.	Very fine	37/0-41/0	Equally distributed between floating and sunken nets.

To the state of th	F	No. of Catch per boat		7	Vind.	Weather.	Price per	Higher A.
Date.	Locality.	boats.	Catch per boat.	Force.	Direction.	weather.	100.	Remarks.
Mar.	-	B	500-T000 .		-			
14	30 miles S. of Mewstone	40	1300 and under	_	S.	Very fine	34/0-40/0	Sunken nets.
15	Ditto	20	100-300	_	1/1	-	38/0-41/0	A storm from S. followed.
10	35 miles & Camport Mewstone	40	None		76.	Eline	00/0 44/0	
19	Ditto Dimen	30	20-40	einoni	8.W.			
	Ditto	5	500-600	St. min	S 700	_	53/0	Floating nets.
	40 miles S. of Mewstone	3	1000-1500				mata	
20	40 miles S. of Plymouth	5	200-500	Fresh	N.W.	_	39/0-44/0	Floating nets. Several boats put back.
-		4	1000-2000		1			sufficient in our acres in
22	35 miles S.S.W. of Plymouth	20	1700 and under	-	-	_	31/0-33/0	Sunken nets.
24	Ditto	50	500 ,,	-	-		32/0-36/0	Storm from S.S.E. followed.
26	32-37 miles S. of Stoke Point	20	800 "		S.W.	Fine	44/0-50/0	Most of the boats not out. No boat with more than 800.
27	30-35 miles S. of Mewstone	30	20-1000	-	S.	Foggy	40/0	Floating nets by Lowestoft boats. Very few boats
26	30 miles S.S.W. of Berry		A few layinged		-	-		with fish, and few boats with more than a score of fish.
29	territoria de la composición dela composición de la composición de la composición de la composición dela composición del composición de la composición dela composición de la composición del composición dela composición dela composición dela composición dela composición dela composi	Several	Very few	_	_	_	_	
31	30-35 miles S. by W. of	1	2900	1	E.	Fine	48/0-50/0	The fish are being caught further and further
700	Plymouth Harbour	1	1000	Carlo San	100			west. The large takes were got by floating
NN I	and the second of the second	15	100-400		-			nets, the small by sunk nets.
April	20 miles 5, or how flend		920	-		-		a chair ronowed.
	30-40 miles S.W. of Eddystone	30	900 and under	3	E.	- 17	40/0-50/0	In floating nets.
2	30 miles S.W. by W. of Eddy-	20	800 "	3	E.	77	35/0-40/0	Floating nets. Taken in the early morning after
ID :	stone		460 and under		ESE.	- 22		the moon went down. Fish still travelling west. Each boat getting 10 or 12 garpike with the
			Supp & under					mackerel. Large quantities of small Crustacea
12	35-15 miles S. of Plymouth		2009-8600			Stormy		noted on surface of water.
5		_			N.E. a.m.			Poor takes. Attributed to the very bright moon.
		1 or 2	100		S.E. noon			Tool takes. Attituted to the very bright moon.
7	30 miles S. of Mewstone	4	400-500				84/0	Only 3 or 4 boats with fish.
10	20-30 miles S.S.W. of Start	50	130100					The their rater of my relevant for mently is month.
18,000	Point		- Time accord					
1890.	30-40 miles S. of Plymouth	7 6	800 and under	3	N.	_	25/0-35/0	Many boats with no fish. Fish of poor quality.
75	Harbour	344	25-100		-		82/0=10/0	continue Ray
112	20-30 miles S.S.W. of Eddy-	-	ODE send sender					Water Institute
18	stone		2000		4			
10	30 miles S. of Deadman Point		9500		The street			and note:
11	40 miles S. of Plymouth	4	400 and under	-	_	_	27/0	Floating nets. Fish of poor quality.

12	20-30 miles S.W. of Eddy- stone	2 7	700-800 300-400	-	E. a.m. S. noon, backing.		27/0-30/0	Boats taking to the floating nets.
14	40-50 miles S.S.W. of Eddy- stone	4	1000 and under	4	E.	-	27/0-30/0	hand again to a second that have made
15	1-2 miles 8 of Mewstone	4	200	4	E., abating	-	10-12	Too stormy for much fishing.
16	50 miles S.S.W. of Eddystone	4	2000-3000	Strong		_	27/0-34/0	drift note.
17		_	. 10 do los	,,	E. by N.			A few boats with few fish.
18	13770	_	TO-271 00N	_	14.10	_	cleaning line	Too stormy for fishing.
19	45-50 miles S. by W. of Eddy-	3	2900 & under	Light	E. by N.	Fine	19/0-21/0	Sections of the property of th
TO	stone	Others	1200 ,,				, ,	complaint about the cun marting hore.
21	Ditto	4	2000 ,,	Fresh	S.	Foggy	19/0-20/0	By the heak and line bosts (whifing?), Great
23	Ditto	2	5000	,,	S.W.	- 889	30/0-34/0	Steine nebs.
-	AN MARKE OF A CHICAGO AND	3	2000 & under	"	~		00/0 02/0	
24	35 miles S. by W. of Eddystone	8	500 ,,	-	N.W.	3,00	30/0-32/0	Large quantity of small Crustacea noticed on surface.
28	20-40-miles of Reilly	5 or 8	2000-3000	_	W. by S.	Fine	28/0-30/0	Only a few hundred fish taken.
29	25 miles S.W. of Eddystone	8	500 and under	Fresh	S.E.	_	27/0	only a lew manarest his taken.
30	20 miles S.E. of Plymouth	20	100-300		E. by S.	_	31/0	Port Rinkla banta. Canglit by trolling.
May	20 miles c.is. of Trymouth	20	100 000		La. by b.		01/0	trolled mackarol.
1	20-30 miles S.W. of Eddystone	8	1000-2000	_	E.	Fine	30/0	Cawanad boats. Buch bout had also a few dozun-
2	10-15 miles S.S.W. of Eddy-	10	100-300	Calm	E.		27/0-29/0	Too calm to enable boats to go far to sea.
-	stone	10	100-300	Cam	Iv.	_	21/0-25/0	100 cam to enable boats to go far to sea.
3	10-15 miles S. of Eddystone	15	800 and under	Preship	S. by W.		17/0-18/0	Quality rather poor. The fish are now being
	10-15 miles 5. of Eddystone	10	300 and under	=	W. Spine		17/0-18/0	taken nearer the land. Mackerel said to be shoaling later.
5	5-8 miles S. of Eddystone	15	700 ,,	_	S.E.	_	30/0	shoaming layer.
6	Outside Eddystone	10	1000-1500		S.E.	Showery		
8	10-20 miles S. of Eddystone	Several	100-300		E. by S.	- Showery	17/0-18/0	Quality rather poor. Several Lowestoft boats
28	OH LOUIS LOUIS	Beverar	3000	Fresh	E. by 5.	Fine	17/0-20/0	visited Plymouth, but also doing very badly, although having tried off Falmouth and St. Ives.
10	Ditto		Poor takes	_	S.E.	Fine		arthough having tried on Falmouth and St. Ives.
12	Rame Head	**	100-300		S.W.			
13	30 miles W.S.W. of Eddystone	"	3000	-	N.	"	1010 0010	Also some houte got from 4-6 doz. by hook.
19	50 miles w.S. w. of Eddystone	1		_	IN.	33	16/0-20/0	meelt at this souson.
14 15		1	1000		0.777			sample tribus and set of people mind a sumple.
14, 15	8-10 miles 8 of Eddystone	T	A very few fish	Fresh	S.W.	"	11/6_13/0	Also 200-200 herrings per hone, Mucherel very
N.L			taken		200	Teme	permittable burner	
17	50 miles W.S.W. of Eddystone	1	5000	_	S.W.		16/0	Many boats out, but only about 1 in 20 with a few fish.
19	_	-	Poor takes	-	S.W.	Fine	_	No boat with more than 100 fish.
20	3-4 miles S. of Eddystone	3/0. of home.	Catch p.s boat.	Yords.	ina. Dignarian	Wealder.	$2\frac{1}{2}d$ . each (for bait)	Remarks.

		No. of	Catch per boat.	N	Vind.	Weather.	Price per	Remarks.
Date.	Locality.	boats.	Caten per ooat.	Force.	Direction.	w caulci.	100.	Itemat ve.
May 22 23	S. of Eddystone 8–10 miles S. of Eddystone	8	A few hundred 1800 and under	-	S.E. E.	Fine	Sold for bait 11/0-13/0	Also 200-300 herrings per boat. Mackerel very small. These were L. T. boats, using a smaller
26	Between Penlee Point and	1	5000	_	E.	"	12/0-14/0	mesh at this season. Also some boats got from 4-6 doz. by hook.
27 28 29	Rame Head Ditto Off Penlee Point Ditto Off State of State	$\frac{-2}{1}$	4-6 doz. 3000 A few hundred 3000		E. E. W.	Fine	12/0 12/0	By hook. Seine net. Drift nets. Seine net.
June 2	Close off Penlee Point —	18	2000–3000		N.W.a.m.	Shawar	17/02/18/0	Port Rinkle boats.
3	40 miles S. of Penzance	2	3000 2000–3000 2000–3000	Fresh	W. p.m. S. by W.	=	13/0-14/0 14/6	Cawsand boats.  Lowestoft boats.  Large fish.  Plymouth boats.
4 5	½ mile off Penlee Point	10	2000–3000 2000–3000 3000 2000		s.w.	1770	14/6 12/6 12/6	Cawsand boats. Cawsand boats. Cawsand boats. Each boat had also a few dozen
6	26 miles S.E. of Eddystone 20 miles S.E. of Plymouth	2	6000 1000–2000	Strong	s.w.	=	14/0	trolled mackerel. Port Rinkle boats. Caught by trolling. Each boat had also a few dozen trolled mackerel.
7 9	30-40 miles off Scilly Off Scilly Off mouth of Plymouth Sound	5 or 6	2000–3000 A few thousand 10–15 doz.	-	s.w. w.	Fine	16/0 12/0 1/4-1/6 per	Very large fish. P. H. boats having very poor success.
10	Off Cawsand	2	2000 20–30 doz.	1 <u>200</u> 40	3.W.	1,000	doz. 14/6	Seine nets. By the hook and line boats (whiffing?). Great
11	Ditto	3	10-20 doz.	Light	w.s.w.	Fine	1/2-1/4 per	complaint about the gun practice here. By hooks (whiffing?).
12	Ditto	-	10-40 doz.	Same	N.W.	-		By hooks (whiffing?). A few also caught in the drift nets.
13	1-2 miles S. of Mewstone	-	10-15 doz.	-	E.	-	1/0-1/5 per doz.	sea than they would otherwise have done.
14	Off St. Ives	10	500–1000	13	w.	Fine	12/0	Taken in drift nets. Sold at Plymouth. Boats bound home to Lowestoft. They have made £100 to £380 in 6 to 8 weeks.
	NU-SU mines is, w. or vectory-		200-500		S. BOOR		21/0-20/0	nonce guerns to the housing hear

16	Ditto	. 8	500-600		s.w.	"	13/0	These boats also bound home to Lowestoft. Two of them are said to have made £380; the rest about £200 each.
17	Between Rame Head and the Eddystone	-	200-900	=	s.w.	"	15/0-16/0	Small fish; about the size of pilchards, " and a re-
18	S. of Eddystone	157	600-700		W.S.W.		15/0	Taken by hook.
19	6-10 miles S. of Eddystone		400-700	_	W.	33	13/0-15/0	By drift nets.
20	5-10 miles S. of Eddystone		100-200	_	Validable	,,	13/0-15/0	Drift nets.
20	0-10 lines S. of Eddystone	-	200-300				10/0 10/0	YYYI I M
21		_	200-600		S.W.	Fine	14/0	Whiffing.
21		_	200-300	The sale in	D. W.	Fine	14/0	Drift nets. Gun practice said to break up the
	Mend				Sacra Nice	Pine	14/8	shoals.
23	20-30 miles S. of Plymouth	-	400-500	-	W.	Fine	14/0	Whiffing 2-3 fathoms below surface.
100		20-30	1000-1800	_	_	_	15/0	Whiffing. These boats went out on 22nd.
25		_	400-500	-	S.W.	Fine	16/0	Whiffing.
26	a month of Allenders control	40	400-500	-	W.N.W.	,,	16/0	A number of boats after whiffing to sunset shot drift nets, but only took about 50 fish per boat.
27	Cawsand Bay and Whitsand	_	200-500		14 MA	PSITH	17/0	Whiffing.
28	25-30 miles S. of Mewstone	_	300-400	_	1	_	16/0	The whiffing boats have made from £10 to £18 in
	20 00 miles of of mewstone		000 200				1	the past week.
- 3	Between Penlee Point and		2000	_	N	-	12/0	Seine net. Almost all boats have given up trying
	Rame Head		2000			- Bossey	77/0	to catch mackerel by drift nets.
30	Traine Treat	2	4000	_	N.W.	_	14/0	Seine net.
July	Ponles Point	-	1000		2			
1	Port Rinkle	4	1000-2000	Presh	S.W.	_	15/0-16/0	Whiting,
3	Ditto	6	1000-2000		2.11.	-	16/0	Seine net.
3	20 miles S. of Eddystone	_	400-1000		N.W.	Fine	16/0	Whiffing.
4	20 miles 5. of Eddystone		400-500		14.11.		14/0	Whiffing.
5	Curenad	I	500-1000		- SIMIS		13/6	Whiffing.
7	Mouth of Pignouth Sound	2	1000-2000	Strong	s.w.	Rain	14/0	Seine nets.
	ALL PRODUCES OF THE PRODUCES OF	-	100-2000		D. W.	Italii	11/0	Drift nets.
8		20	100-600	([62,500])	2016		16/0-18/0	Whiffing. Wind increased to a gale, which seemed
0		20	100-000		Legis -	Trible 1	10/0-10/0	to favour the whiffing, the mackerel coming to
38		T		-		Fine		the surface in great numbers.
10		-	1000	-	S.W.	Fine	_	No mackerel to be found by any boat. Messages
22		-		Fresh			16/0	sent over from Guernsey asking boats to come over, fishing being good there.
16	Between Penlee Point and Eddystone	-	2 or 3 doz.	-	· N <u>.W</u> , ·	Dall n.m.	17/0-18/0	Still no mackerel on usual ground.
17	Ditto	_	10-15 doz.	_	Variable	Showery	2/0 per doz	Fresh shoals of mackerel arrived. Whiffing.
11	Ditto	1	2000		· arrable	Diowery	21/0	Seine net.
		1	1000	LOLOR	DIESEE:OF		21/0	Seine net.
Date.	Locality.	70.	1000			Weather.	Tables her	Bensite.

Date.	Locality.	No. of	Catch per boat.	Wind.		Weather.	Price per	72 1	
Date.		boats.	Catch per boat.	Force.	Direction.	weather.	100.	Remarks.	
July	Ditto		10-12 qvv		. Z. majablo	Showery	alo ben'oux	Fresh abouts of sandarrel arrived. Whilling.	
21	1 mile S. of Mewstone, Penlee Point, and Rame Head	_	100-300	_	N.W.	Dull a.m. Fine p.m.	17/0-18/0	Whiffing.	
22	— —	_	100-200	Fresh	N.W.	Eme p.m.	16/0	Whiffing.	
10		1	1000 1500	Fresh	8, W.	Fine	10/0	No amekated to be found by any boat. Mossage,	
23	-		100-200 1500	-	N.W.	Fine	_	Whiffing.	
$\frac{24}{25}$		2 2	800 500–600	Fresh Light	W.	= '	12/0 11/6	Seine nets. The whiffing has rather fallen off.	
	Mouth of Plymouth Sound	30	100-300	_	S.An.	100.511	12/6	Whiffing.	
26	Cawsand	1	1000	_	S.W.	_	750	Seine net.	
29 30	20 miles S. of Eddystone	=	100-300 100-150	=	S.W.	Fine	12/0	Whiffing. Whiffing.	
31	Between Knap Buoy and	1	1000 100–200	Fresh	s.w.	=	11/6 11/0	Whiffing.	
lug.	Penlee Point		7090	-	M.W.	-= 1	14/0	to eatch mackerel by draft nets. Seine net.	
1 2	Between Penles Point and	-	5-10 doz.	-	S.W.	Foggy	11/6	received the received have the control of the contr	
	25-20 miles S. of Movatone	_	A few hundred		N.	"	16/0	6 large shoals of mackerel seen off the Sound, but not taken in any quantity (a few hundred by whiffing).	
4	Cawsand Bay and Whitsand Bay	6	1000-1500	_	N.W.	Fine	10/0-11/0	Seine nets.	
5		_	3000	0	W.N.W.	,,	11/0	A number of hones after whilling to sunset she	
6	_	5	1000-2000	_	R W	27	14/0-14/6	Seine net.	
7	Directors follows: The Administration	3	3000	_	_		13/0-14/0	Seine net	
9	Between Mewstone and Rame	_	100-300	-	200	10.1	15/0	Whiffing.	
	Head		4000	_	E.	Fine	14/6	Seine net.	
11	=	_	100-200	Fresh	W.	1,270	15/0	Whiffing. Many small mackerel on the coast a present. When caught sold at 4/0 per 100.	
12	o To mines as or sandy come	_	100-150	-	_	_	14/6		
19	Plymouth Sound, inside	_	3–4 doz.	-	Variable		2/0-2/6 per doz.	By drift nets	
22	Eddaysone	_	100-200		m s m	_	12/0-14/0	Large fish.	
11	Carason inguis programme rus		100-200	_	w.	Fine	2/0-4/0	Small fish; about the size of pilchards.	
23	Between Penlee Point and Rame Head	_	100-200	-	200	_	18/15/0	Numerous large shoals noticed, but poor fishing Seem to be leaving Plymouth Sound.	

25	_	_	100-300		-	_	14/0 and 3/0	Large and small. Whiffing.
26	_		100-300	_	- 1		14/0 and 3/0	<del>-</del>
30			50-100			_	25/0	Large.
90			100-200		_	_	7/0	Small.
Sept.	5-10 miles S. of Eddystone	2	200-400	-	-	-	35/0	Drift nets. These boats are now fitting out, the mackerel going off into open water. Shoals breaking up.
2	Ditto	4	500-1000	_	_	_	_	Drift nets.
3	Dicco	-	300-1500	_	N.W.,	-	_	
9	_	_	500-1500		backing		ES 8	
			500-800	_	N.W. and	_	25/0-35/0	
4	a		1-2 doz.	0.5	S.W.		2010 0010	Whiffing. Large fish.
	Centre of Sound	-			D. W.		10/0-15/0	Drift nets. Also large quantities of small mackerel
5	_		500-3000	-		28 =	10/0-10/0	by hook and net.
6	_	_	100-2000	=	Very variable		6/0-7/0	Market too full of all kinds of fish for prices to be good. Pilchards as low as 1/6 per 1000.
8	5-10 miles S. of Eddystone	-	500-5000	-	E.	Fine	-	Still enormous quantities of pilchards and thousands of common shad.
11		60	500-1500		-6.18	123	10/0-12/6	世間 単しし一5年 7年 8日
13	_	00	500-1000		34	<u> </u>	10/0-12/6	
	_	_	100-500			2 2 3	14/0-16/0	
15		_	Poor takes		S.E.	_ /_ 9	0/9-2/6 per	
18		_	Foor takes	-	D.E.	3 9 5	doz.	
		10	100		S.W.	5 E	15/0-17/0	
23	_	10	400	-	S.W.	-	19/0-17/0	# # # # # # # # # # # # # # # # # # #
24	_	2	2500		B 08		THE ST	
	_	5	600		P = 5		17/0	# # # 1 2 3 9 4 <u>. 5</u> 5 7 8 P. &
	_	40 - 50	25-2000	1		-	17/0	
25	_		100-600	-		5 9	17/6	35 : : : 6 tohan 200 600
26	10-15 miles S. of Eddystone	40	2000 and under	-		_	15/0-17/0	Majority of catches 300-600.
	8-10 miles off Foyee and Lowe	40	2000-4000	-		9	17/0	[변경: 전, 또, 변, 분 연 · 프림 전 · · / / 시 · · / 명 · 휴
27		3	2000		S.W.	Fine	11/0-13/0	
		6	800-900		E E E			[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [
	_	20	100-200		RECI		1 5 E 8	
29	_	4	300 and under			-		7 4 9 3 2 5 E 5 U U

by it the size of the shoal is estimated, as well as the depth at which the fish are swimming. The net is regulated accordingly, and the shoal encircled.

The famous Lochfyne herring are also for the most part caught by this process.

Whiffing or trolling for mackerel with a spinning bait has also been practised for many years. Each boat works six lines. Each line is attached to a sinker, from which depend first a fathom of snood, then a fathom or a fathom and a half of gimp, a swivel, a foot or so of gut, and the swivel bait or spinner. When fish are plentiful, the bare spinner will take fish well. At other times it is necessary to have a fish bait.

The bait most preferred is called "britt" or "mackerel bait" (young sprat, whitebait). When this cannot be procured a substitute is manufactured by cutting about an inch out of the under or white surface of a mackerel's tail.

One remarkable circumstance of last season's "whiffing" was that boats engaged in this method of fishing south of the Eddystone had to be sailed in a southerly direction. In June boats sailing for ten to fifteen miles south of the Eddystone would pick up from 200—400 in one course. They then got "outside" of the fish, and had to return to their starting-point to repeat the process. While sailing back, although the lines were kept out all the while, only a very few fish could be taken.

This method of fishing can only be employed during daylight.