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UNITED STATES REPORT ON REDFISH LANDINGS AND EFFORT

BY DEPTH ZONES FOR 1962

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THE TABLES HEREIN PRESENT THE LANDINGS AND EFFORT FOR REDFISH BY THE UNITED STATES OTTER TRAWL FLEET IN 50 FATHOM DEPTH ZONES FOR EACH MONTH AND DIVISION. THE FIRST TWO DEPTH ZONES ARE ACTUALLY 0 - 60 AND 61 - 100 RATHER THAN THE STANDARD 50 FATHOMS. LANDINGS OF REDFISH BY OTHER TYPES OF GEAR ARE NEGLIGIBLE. ALL SIZES OF OTTER TRAWLERS FROM 26 TO 300 GROSS TONS ARE INCLUDED WITHOUT WEIGHTING.

AREAS AND DEPTHS OF FISHING ARE OBTAINED BY INTERVIEW. LANDINGS AND EFFORT OF THOSE TRIPS NOT INTERVIEWED WERE PRORATED ACCORDING TO THE INTERVIEWED VESSEL'S ACTIVITIES, WITHIN PORTS AND VESSEL SIZE GROUPS. THE WHOLE OF THE REDFISH LANDINGS IS THUS ACCOUNTED FOR IN THESE DATA.

THE LANDINGS AND EFFORT IN DIVISION 5Y IN THE 0 - 60 FATHOM DEPTH ZONE IS DERIVED FROM A MIXED-SPECIES FISHERY, AND THE EFFORT MAY NOT HAVE BEEN DIRECTED PRIMARILY TOWARDS REDFISH. THE LANDINGS IN DIVISION 5 REPRESENT MOSTLY INCIDENTAL CATCHES.

FIGURE 1 PORTRAYS LANDINGS PER UNIT EFFORT FOR EACH DEPTH ZONE AND DIVISION FOR 1961 (SEE DOCUMENT No. 34, 1962 ANNUAL MEETING) AND 1962. THE DATA FOR 1961 IS BASED ON TRIPS LANDING MORE THAN 33 1/3 PERCENT OF THEIR CATCH AS REDFISH WHILE THE 1962 DATA IS BASED ON ANY VESSELS LANDING REDFISH.

THE LOW CATCH/DAY VALUES FOR THE DEPTH ZONE 0 - 60 FATHOMS WAS PRODUCED BY THE INCLUSION OF THE CATCH AND EFFORT OF VESSELS FISHING PRIMARILY FOR GROUND FISH OTHER THAN REDFISH. THE LOWER CATCH PER DAY VALUES FOR THE DEPTH ZONE 201-250 MAY NOT INDICATE A DECREASE IN ABUNDANCE OF REDFISH AT THESE DEPTHS BUT A LOSS IN EFFICIENCY OF OPERATING THE TRAWL GEAR DUE TO THE GREATER DEPTHS. THUS, THE APPARENT ABUNDANCE OF REDFISH DOES NOT SEEM TO VARY GREATLY OVER THE RANGE OF DEPTHS INCLUDED HEREIN.

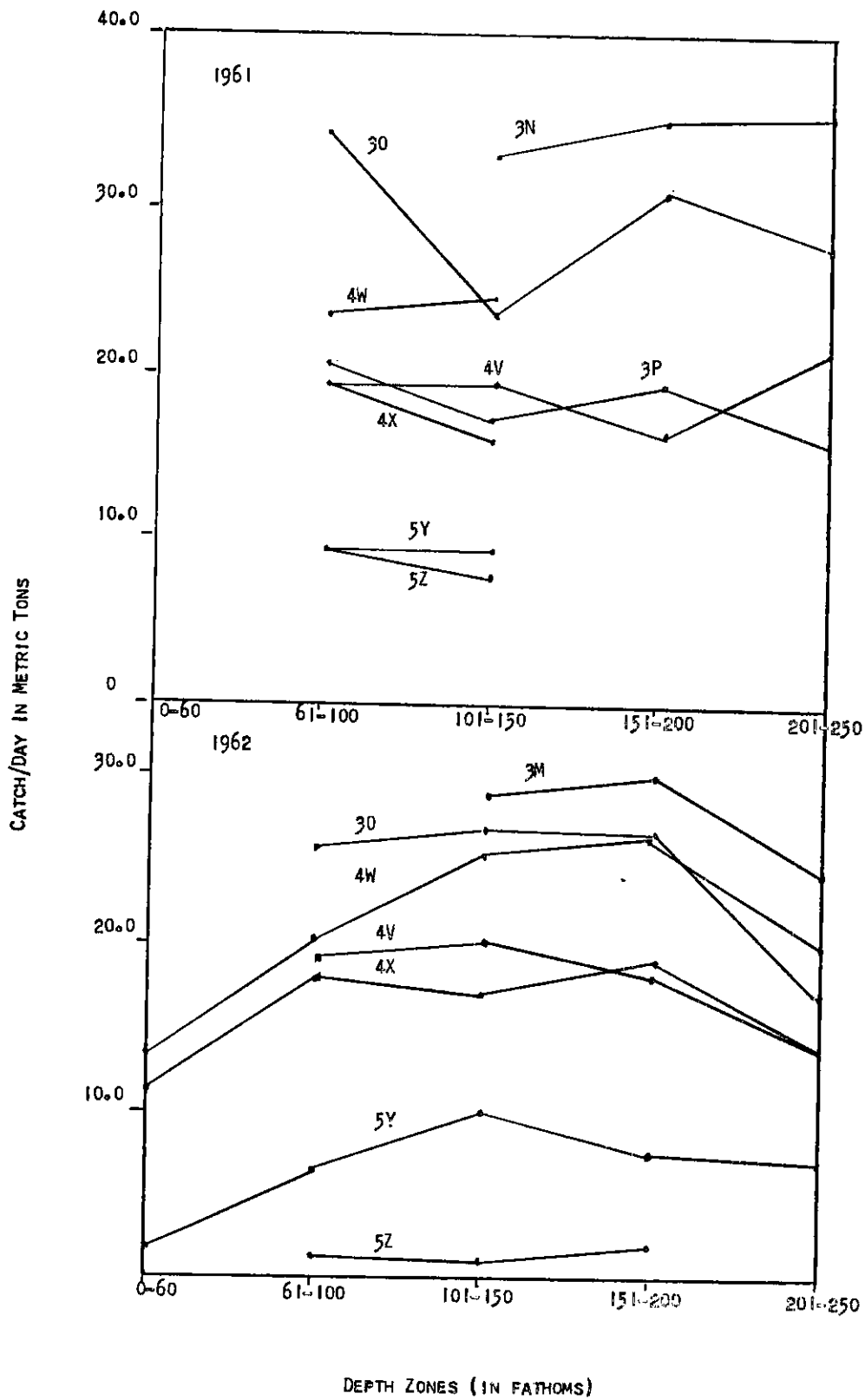


FIGURE 1 - LANDINGS OF REDFISH PER UNIT EFFORT FOR EACH DEPTH ZONE AND DIVISION FOR 1961 AND 1962.

REDFISH DEPTH ZONES

1962

OTTER TRAWL

LANDINGS IN METRIC TONS, ROUND FRESH

DIV	DEPTH ZONES (FATHOMS)	EFFORT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL		
		LANDINGS																
3N	---	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	---	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	61-100	DAYS FISHED	-	-	-	-	2.5	-	-	-	-	-	-	-	-	-	-	2.5
		TONS	-	-	-	-	114	-	-	-	-	-	-	-	-	-	-	114
	101-150	DAYS FISHED	18.6	20.9	16.0	7.5	-	7.4	14.6	13.5	9.0	22.8	24.7	45.0	200.0	-	-	200.0
		TONS	619	642	350	147	-	360	545	474	317	642	673	1001	5770	-	-	5770
151-200	DAYS FISHED	4.1	6.6	15.5	12.0	-	9.4	14.6	16.5	20.5	29.9	20.6	-	149.7	-	-	149.7	
	TONS	129	141	323	256	-	335	534	518	764	966	546	-	4512	-	-	4512	
201-250	DAYS FISHED	2.3	-	-	-	-	-	-	-	-	-	-	-	2.3	-	-	2.3	
	TONS	56	-	-	-	-	-	-	-	-	-	-	-	56	-	-	56	
TOTAL	DAYS FISHED	25.0	27.5	31.5	19.5	2.5	16.8	29.2	30.0	29.5	52.7	45.3	45.0	354.5	-	-	354.5	
	TONS	804	783	673	403	114	695	1079	992	1081	1608	1219	1001	10452	-	-	10452	

DIV	DEPTH ZONES (FATHOMS)	EFFORT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL		
		LANDINGS																
3O	---	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	---	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	61-100	DAYS FISHED	-	-	-	0.5	4.5	-	-	-	-	-	-	-	-	-	-	5.0
		TONS	-	-	-	5	122	-	-	-	-	-	-	-	-	-	-	127
	101-150	DAYS FISHED	-	0.5	1.0	2.5	18.7	6.0	-	-	-	-	-	-	3.3	-	-	32.0
		TONS	-	9	7	97	557	124	-	-	-	-	-	-	46	-	-	840
151-200	DAYS FISHED	-	-	2.5	9.5	10.5	23.6	4.0	21.9	0.9	7.0	0.5	-	-	-	-	80.4	
	TONS	-	-	33	276	320	596	155	520	21	200	5	-	-	-	-	2126	
201-250	DAYS FISHED	-	-	-	-	-	7.5	0.5	-	14.0	-	-	0.7	-	-	-	22.7	
	TONS	-	-	-	-	-	110	36	-	229	-	-	3	-	-	-	378	
TOTAL	DAYS FISHED	-	0.5	3.5	12.5	33.7	37.1	4.5	21.9	14.9	7.0	0.5	4.0	-	-	-	140.1	
	TONS	-	9	40	378	999	830	191	520	250	200	5	49	-	-	-	3471	

DIV	DEPTH ZONES (FATHOMS)	EFFORT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL		
		LANDINGS																
3P	---	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0-60	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	61-100	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	101-150	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151-200	DAYS FISHED	-	-	-	-	-	2.0	0.5	7.0	-	-	-	-	-	-	-	9.5	
	TONS	-	-	-	-	-	20	47	111	-	-	-	-	-	-	-	178	
201-250	DAYS FISHED	-	-	-	1.5	1.0	5.0	-	-	-	1.0	-	-	-	-	-	8.5	
	TONS	-	-	-	13	19	97	-	-	-	19	-	-	-	-	-	148	
TOTAL	DAYS FISHED	-	-	-	1.5	1.0	7.0	0.5	7.0	-	1.0	-	-	-	-	-	18.0	
	TONS	-	-	-	13	19	117	47	111	-	19	-	-	-	-	-	326	

DIV	DEPTH ZONES (FATHOMS)	EFFORT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	
		LANDINGS															
4R	101-150	DAYS FISHED	-	-	-	-	-	-	-	-	4.6	-	-	-	-	-	4.6
		TONS	-	-	-	-	-	-	-	-	62	-	-	-	-	-	62

DIV	DEPTH ZONES (FATHOMS)	EFFORT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	
		LANDINGS															
4T	151-200	DAYS FISHED	-	-	-	-	-	-	-	-	0.6	-	-	-	-	-	0.6
		TONS	-	-	-	-	-	-	-	-	5	-	-	-	-	-	5

DIV	DEPTH ZONES (FATHOMS)	EFFORT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL		
		LANDINGS																
4V	---	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	---	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	61-100	DAYS FISHED	1.5	-	-	0.6	12.2	15.5	23.7	13.4	15.1	8.3	2.0	-	-	-	-	92.3
		TONS	31	-	-	1	392	319	548	163	156	85	58	-	-	-	-	1753
	101-150	DAYS FISHED	1.5	-	1.5	4.0	32.9	36.7	34.8	12.4	3.9	2.0	-	5.3	-	-	-	135.0
		TONS	25	-	17	71	785	838	506	169	63	42	-	107	-	-	-	2723
151-200	DAYS FISHED	-	-	2.0	1.0	0.5	2.5	3.4	3.0	-	-	-	-	-	-	-	12.4	
	TONS	-	-	30	8	18	46	57	61	-	-	-	-	-	-	-	220	
201-250	DAYS FISHED	-	-	0.5	-	-	-	-	6.0	-	-	-	-	-	-	-	6.5	
	TONS	-	-	1	-	-	-	-	86	-	-	-	-	-	-	-	87	
TOTAL	DAYS FISHED	3.0	-	4.0	5.6	45.6	54.7	61.9	34.8	19.0	10.3	2.0	5.3	-	-	-	246.2	
	TONS	56	-	48	80	1195	1203	1211	479	219	127	58	107	-	-	-	4783	

LANDINGS IN METRIC TONS, ROUND FRESH

DIV	DEPTH ZONES (FATHOMS)	EFFORT LANDINGS	MONTHS												TOTAL			
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC				
4W	---	DAYS FISHED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		TONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0-60	DAYS FISHED	-	-	-	-	-	-	-	-	1.0	-	-	-	-	-	-	1.0
		TONS	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	13
	61-100	DAYS FISHED	22.5	16.2	31.0	43.8	29.3	45.8	69.8	62.3	57.1	35.7	16.5	20.7	450.7	8896		
		TONS	465	475	694	627	761	1096	1328	1149	1101	638	171	391	101.8	2579		
	101-150	DAYS FISHED	14.2	1.9	1.4	27.1	25.4	7.0	1.9	14.4	7.5	-	0.5	0.5	1	1	1	12.3
		TONS	484	30	14.0	692	630	142	16	266	176	-	-	-	-	-	-	329
151-200	DAYS FISHED	-	-	-	10.5	-	-	-	-	-	1.8	-	-	-	-	-	0.2	
	TONS	-	-	-	294	-	-	-	-	-	35	-	-	-	-	-	4	
201-250	DAYS FISHED	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	
	TONS	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	
TOTAL	DAYS FISHED	36.7	18.1	32.4	81.4	54.7	52.8	71.7	77.7	66.4	35.9	17.0	21.2	566.0	11821			
	TONS	949	505	834	1619	1391	1238	1344	1428	1712	642	173	392	11821				

DIV	DEPTH ZONES (FATHOMS)	EFFORT LANDINGS	MONTHS												TOTAL		
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
4X	0-60	DAYS FISHED	-	-	-	3.8	16.8	85.9	-	10.4	21.8	0.5	-	-	-	-	139.2
		TONS	-	-	-	5	1	1501	-	6	5	1	-	-	-	-	1515
	61-100	DAYS FISHED	21.5	46.4	59.9	47.4	156.1	51.2	70.7	90.6	95.5	44.5	62.8	19.5	766.1	9767	
		TONS	160	1101	1338	747	2396	637	1073	685	582	468	265	315	118.0	1408	
	101-150	DAYS FISHED	1.1	0.5	1.0	2.7	43.5	-	12.1	31.7	15.1	2.0	3.3	5.0	1	1	27
		TONS	8	2	15	36	742	-	78	337	161	27	1	1	1	1	27
	151-200	DAYS FISHED	-	-	-	-	-	-	-	-	-	2.0	-	-	-	-	-
		TONS	-	-	-	-	-	-	-	-	-	27	-	-	-	-	-
TOTAL	DAYS FISHED	22.6	46.9	60.9	53.9	216.4	137.1	82.8	132.7	132.4	49.0	66.1	24.5	1024.3	12717		
	TONS	168	1103	1353	788	3139	2138	1151	1024	748	523	266	316	12717			

DIV	DEPTH ZONES (FATHOMS)	EFFORT LANDINGS	MONTHS												TOTAL		
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
5Y	0-60	DAYS FISHED	11.6	13.9	8.5	9.3	8.7	18.7	24.9	25.2	134.9	142.3	65.4	58.2	521.6	758	
		TONS	26	67	19	91	128	15	45	49	18	117	125	58	758		
	61-100	DAYS FISHED	72.5	76.1	156.3	104.5	125.1	90.6	89.6	105.7	115.4	81.0	126.8	111.4	1255.0	8054	
		TONS	432	345	1386	590	1515	724	622	798	760	330	278	274	126.3	1247	
	101-150	DAYS FISHED	7.6	0.9	1.2	0.9	13.0	50.4	11.4	36.2	2.8	0.5	0.7	0.7	1	1	3
		TONS	86	2	10	11	182	514	122	306	13	1	1	1	1	1	43
	151-200	DAYS FISHED	2.5	-	-	-	-	3.2	-	-	-	-	-	-	-	-	-
		TONS	11	-	-	-	-	32	-	-	-	-	-	-	-	-	-
201-250	DAYS FISHED	-	-	-	2.3	-	-	-	-	-	-	-	-	-	-	-	
	TONS	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	
TOTAL	DAYS FISHED	94.2	90.9	166.0	117.0	146.8	162.9	125.9	167.1	253.1	223.8	192.9	170.3	1910.9	10118		
	TONS	555	414	1415	708	1825	1285	789	1149	791	448	404	335	10118			

DIV	DEPTH ZONES (FATHOMS)	EFFORT LANDINGS	MONTHS												TOTAL	
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
5Z	0-60	DAYS FISHED	150.8	91.0	86.6	-	151.2	244.4	237.8	115.9	93.6	137.3	4.6	13.5	1326.7	154
		TONS	12	1	1	-	21	64	22	12	7	10	1	3	154	
	61-100	DAYS FISHED	360.4	134.2	322.8	123.0	39.5	24.1	60.8	94.4	108.1	94.6	90.9	63.0	1515.8	1701
		TONS	80	129	195	117	423	175	127	205	199	22	16	13	1701	
	101-150	DAYS FISHED	86.1	33.2	17.2	13.4	16.7	3.3	3.3	51.8	56.8	13.0	208.7	108.6	604.3	436
		TONS	9	1	78	19	193	27	24	27	10	1	24	23	436	
	151-200	DAYS FISHED	-	-	-	-	-	-	-	-	-	19.4	-	-	19.4	45
		TONS	-	-	-	-	-	-	-	-	-	45	-	-	45	
TOTAL	DAYS FISHED	597.3	258.4	426.6	136.4	207.4	271.8	302.1	262.1	258.5	264.3	296.2	185.1	3466.2	2336	
	TONS	101	131	274	136	637	266	173	244	216	73	41	39	2336		