

# The 1963-73 New Zealand rock lobster landings by statistical area

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Occasional Publication: Data Series No. 11

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## Introduction

In the past the published landings figures for New Zealand's 2 rock lobster species, *Jasus edwardsii* (the red or spiny rock lobster) and *J. verreauxi* (the green or packhorse rock lobster), have been grouped primarily by the port or region of landing. These landing figures are available for 1945-74 in the Ministry of Agriculture and Fisheries (MAF) annual *Report on Fisheries*, for 1975-78 as MAF unpublished data, and for 1979 and 1980 in *Fisheries Research Division Occasional Publication: Data Series No. 9*.

However, for the management of the fishery, information on the quantity of rock lobsters caught in a given area is often more important than data on the port or region of landing. Landings data grouped by the statistical area in which the rock lobsters were caught were compiled for 1979 and 1980 in *Fisheries Research Division Occasional Publication: Data Series No. 1* and *9* respectively. Similar data for 1963-73 are presented here to provide more background information for the management of the fishery.

## Results and discussion

The data in this report were obtained from fishing returns submitted by commercial rock lobster fishermen and include only rock lobsters caught by potting. Landings of rock lobsters taken by diving, as a by-catch from other commercial methods, and by amateurs are not included.

The landings of *J. edwardsii* and the number of vessel-days fished grouped by statistical area fished for 1963-73 are shown in Table 1. The landings data for the North and South Islands combined (excluding the Chatham Islands) and the total landings for all of New Zealand are also shown in Table 1.

The boundaries of the statistical areas are shown in Fig. 1. The statistical areas used in the rock lobster fishing return scheme for 1963-73 differ from the current areas described in *Fisheries Research Division Occasional Publication: Data Series No. 1* and *9*.

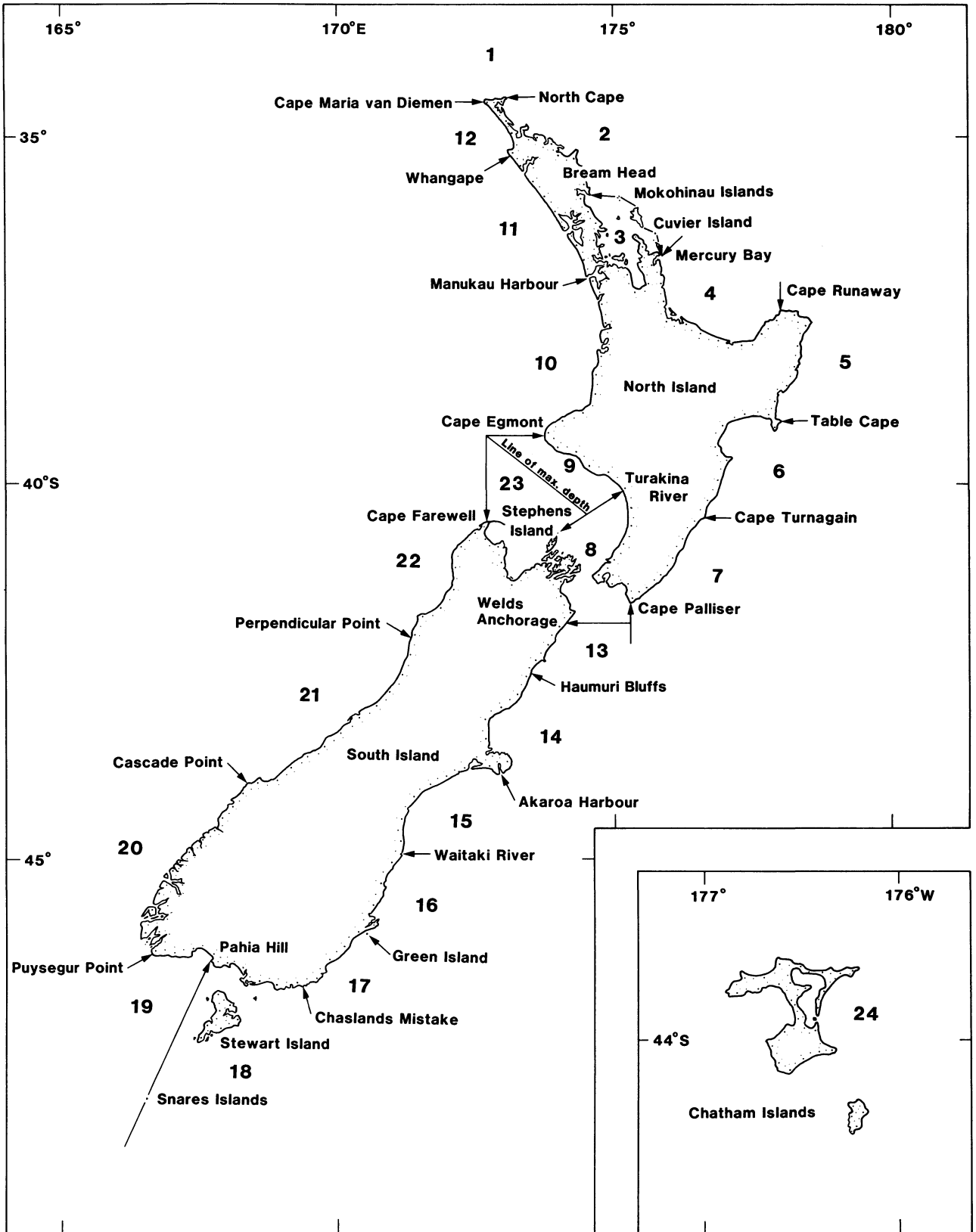


Fig. 1: Rock lobster fishing return scheme statistical areas, 1963-73.

The landed weights shown in Table 1 are all whole weight values. Pounds (lb) were divided by 2.204 to convert to kilograms (kg). When only tails were landed, tail weights were multiplied by 3 to obtain the approximate equivalent whole weights. Fishermen are permitted to tail their catch at sea and to land only the tails of rock lobsters caught between Waipapa Point and Bruce Bay. This "tailing-at-sea" area comprises most of statistical area 18, all of areas 19 and 20, and part of area 21 (Fig. 1). In the rest of New Zealand rock lobsters must be landed whole and alive.

The rock lobster fishing season in most areas runs from June-July to February-March. From about March to June both catch rates and effort are low. Thus, there is a natural break between seasons during these months, and the rock lobster fishing season is considered to extend from 1 June to 31 May. The landings for each calendar year have also been grouped into 2 time periods, 1 January-31 May and 1 June-31 December, to facilitate grouping the data by fishing seasons (Table 1).

The landings of *J. verreauxi* grouped by statistical area for 1967, 1968, and 1970-73 are shown in Table 2. No landings were recorded on the computer listings during 1963-66 and 1969.

Data on the landings of *J. verreauxi* by statistical area for 1962-66 are given by Kensler and Skrzyński (1970) (*New Zealand Journal of Marine and Freshwater Research* 4: 46-54). The figures were obtained from unpublished MAF (then the New Zealand Marine Department) sources and the authors used their local knowledge of the fishery to separate the landings of the 2 species. About 98% of the landings they reported were from statistical areas 1-4. During 4 of these years (1963-66) no landings of *J. verreauxi* were recorded on the MAF computer listings.

The original fishing return forms showed that most fishermen did not record landings of the 2 species separately. It appears that during some years a substantial proportion of the landings of *J. verreauxi* were included with the landings of *J. edwardsii* in the MAF computer listings. Therefore, the landings of *J. edwardsii* from statistical areas 1-4 for 1963-73 shown in Table 1 probably include considerable, but varying, quantities of *J. verreauxi*.

The annual total New Zealand landings of *J. edwardsii* and *J. verreauxi* combined for 1963-73 grouped by port of landing (taken from

TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

Year	Area 5			Area 6		
	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)
1963						
Jan-May	18 185	391	47	22 930	619	37
Jun-Dec	98 806	894	111	103 845	1 300	80
Total	116 991	1 285	91	126 775	1 919	66
1964						
Jan-May	42 678	444	96	44 949	607	74
Jun-Dec	169 365	1 488	114	142 862	1 349	106
Total	212 043	1 932	110	187 811	1 956	96
1965						
Jan-May	43 721	790	55	58 101	755	77
Jun-Dec	142 827	1 602	89	208 382	1 305	160
Total	186 548	2 392	78	266 483	2 060	129
1966						
Jan-May	63 148	1 208	52	79 487	706	113
Jun-Dec	173 489	2 569	68	137 785	1 248	110
Total	236 637	3 777	63	217 272	1 954	111
1967						
Jan-May	64 657	1 193	54	36 318	424	86
Jun-Dec	284 515	3 631	78	132 029	1 135	116
Total	349 172	4 824	72	168 347	1 559	108
1968						
Jan-May	116 505	2 287	51	31 852	490	65
Jun-Dec	246 316	5 001	49	134 076	1 764	76
Total	362 821	7 288	50	165 928	2 254	74
1969						
Jan-May	69 702	2 010	35	53 270	860	62
Jun-Dec	190 985	4 225	45	210 626	2 833	74
Total	260 687	6 235	42	263 896	3 693	71
1970						
Jan-May	40 106	1 435	28	44 670	791	56
Jun-Dec	165 915	3 949	42	144 777	2 816	51
Total	206 021	5 384	38	189 447	3 607	53
1971						
Jan-May	35 674	1 318	27	29 971	709	42
Jun-Dec	111 110	3 303	34	89 083	1 945	44
Total	146 784	4 621	32	115 054	2 654	43
1972						
Jan-May	37 573	1 369	27	25 591	877	29
Jun-Dec	94 072	2 775	34	97 314	2 598	37
Total	131 645	4 144	32	122 905	3 475	35
1973						
Jan-May	31 955	1 107	29	27 451	747	37
Jun-Dec	70 992	1 808	39	90 594	1 760	51
Total	102 947	2 915	35	118 045	2 507	47

TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

Year	Area 7			Area 8		
	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)
1963						
Jan-May	27 602	123	224	73 557	1 526	48
Jun-Dec	43 330	391	111	207 435	3 594	58
Total	70 932	514	138	280 992	5 120	55
1964						
Jan-May	33 910	167	203	78 152	1 085	72
Jun-Dec	119 012	656	181	219 103	3 222	68
Total	152 922	823	186	297 255	4 307	69
1965						
Jan-May	61 675	277	223	88 575	1 288	69
Jun-Dec	147 796	948	156	171 357	3 181	54
Total	209 471	1 225	171	259 932	4 469	58
1966						
Jan-May	142 357	788	181	177 693	1 985	90
Jun-Dec	155 912	1 213	129	191 121	3 485	55
Total	298 269	2 001	149	368 814	5 470	67
1967						
Jan-May	43 368	398	109	88 975	1 250	71
Jun-Dec	170 367	1 520	112	236 614	3 743	63
Total	213 735	1 918	111	325 589	4 993	65
1968						
Jan-May	73 652	728	101	86 393	1 618	53
Jun-Dec	148 940	1 813	82	215 398	4 837	45
Total	222 592	2 541	88	301 791	6 455	47
1969						
Jan-May	61 193	837	73	110 110	2 138	52
Jun-Dec	132 752	2 280	58	261 210	6 080	43
Total	193 945	3 117	62	371 320	8 218	45
1970						
Jan-May	54 985	906	61	77 797	2 050	38
Jun-Dec	191 209	2 938	65	229 624	5 600	41
Total	246 194	3 844	64	307 421	7 650	40
1971						
Jan-May	49 054	872	56	65 058	1 486	44
Jun-Dec	142 249	2 224	64	214 771	4 920	44
Total	191 303	3 096	62	279 829	6 406	44
1972						
Jan-May	52 937	926	57	66 106	1 694	39
Jun-Dec	146 550	2 139	69	192 935	4 721	41
Total	199 487	3 065	65	259 041	6 415	40
1973						
Jan-May	73 933	1 044	71	57 334	1 672	34
Jun-Dec	100 165	1 835	55	132 595	4 319	31
Total	174 098	2 879	60	189 929	5 991	32



TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

Year	Area 9			Area 10		
	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)
1963 Jan-May	-*	-	-	3 217	127	25
Jun-Dec	4 449	134	33	19 675	280	70
Total	4 449	134	33	22 892	407	56
1964 Jan-May	1 718	19	90	3 223	92	35
Jun-Dec	4 112	112	37	7 680	153	50
Total	5 830	131	45	10 903	245	45
1965 Jan-May	-	-	-	3 325	127	26
Jun-Dec	11 497	93	124	6 771	189	36
Total	11 497	93	124	10 096	316	32
1966 Jan-May	79	14	6	4 942	163	30
Jun-Dec	2 061	77	27	4 777	200	24
Total	2 140	91	24	9 719	363	27
1967 Jan-May	-	-	-	4 822	102	47
Jun-Dec	2 985	124	24	16 524	339	49
Total	2 985	124	24	21 346	441	48
1968 Jan-May	1 112	69	16	14 713	337	44
Jun-Dec	12 052	129	93	22 320	415	54
Total	13 164	198	66	37 033	752	49
1969 Jan-May	7 194	101	71	37 556	495	76
Jun-Dec	11 952	425	28	36 980	966	38
Total	19 146	526	36	74 536	1 461	51
1970 Jan-May	1 826	68	27	7 581	282	27
Jun-Dec	6 005	270	22	7 285	174	42
Total	7 831	338	23	14 866	456	33
1971 Jan-May	1 913	128	15	9 299	155	60
Jun-Dec	13 261	453	29	22 744	502	45
Total	15 174	581	26	32 043	657	49
1972 Jan-May	2 057	95	22	11 243	327	34
Jun-Dec	5 240	193	27	12 421	298	42
Total	7 297	288	25	23 664	625	38
1973 Jan-May	5 417	149	36	14 932	382	39
Jun-Dec	13 032	394	33	14 141	368	38
Total	18 449	543	34	29 073	750	39

\* No data supplied.

TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

Year	Area 11			Area 12		
	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)
1963						
Jan-May	20	2	10	-*	-	-
Jun-Dec	15	3	5	-	-	-
Total	35	5	7	-	-	-
1964						
Jan-May	-	-	-	-	-	-
Jun-Dec	-	-	-	-	-	-
Total	-	-	-	-	-	-
1965						
Jan-May	-	-	-	-	-	-
Jun-Dec	-	-	-	604	14	43
Total	-	-	-	604	14	43
1966						
Jan-May	-	-	-	3 565	32	111
Jun-Dec	-	-	-	510	20	25
Total	-	-	-	4 075	52	78
1967						
Jan-May	-	-	-	-	-	-
Jun-Dec	-	-	-	-	-	-
Total	-	-	-	-	-	-
1968						
Jan-May	1 820	16	114	1 148	16	72
Jun-Dec	-	-	-	-	-	-
Total	1 820	16	114	1 148	16	72
1969						
Jan-May	70	5	14	1 168	23	51
Jun-Dec	-	-	-	45 188	496	91
Total	70	5	14	46 356	519	89
1970						
Jan-May	1 105	34	33	44 121	551	80
Jun-Dec	22 256	260	86	53 037	1 065	50
Total	23 361	294	79	97 158	1 616	60
1971						
Jan-May	9 254	136	68	11 191	190	59
Jun-Dec	2 270	38	60	11 289	242	47
Total	11 524	174	66	22 480	432	52
1972						
Jan-May	583	16	36	6 538	143	46
Jun-Dec	1 474	32	46	6 351	165	38
Total	2 057	48	43	12 889	308	42
1973						
Jan-May	1 092	39	28	6 997	114	61
Jun-Dec	29	6	5	5 842	65	90
Total	1 121	45	25	12 839	179	72

\* No data supplied.

TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

Year	Area 13			Area 14		
	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)
1963 Jan-May	28 477	900	32	18 070	333	54
Jun-Dec	44 060	1 555	28	109 184	2 190	50
Total	72 537	2 455	30	127 254	2 523	50
1964 Jan-May	33 942	1 018	33	25 518	513	50
Jun-Dec	50 109	1 445	35	163 209	3 242	50
Total	84 051	2 463	34	188 727	3 755	50
1965 Jan-May	35 308	948	37	26 722	529	51
Jun-Dec	82 658	1 965	42	159 189	2 818	56
Total	117 966	2 913	40	185 911	3 347	56
1966 Jan-May	86 162	1 536	56	60 243	1 101	55
Jun-Dec	63 252	1 766	36	154 516	3 044	51
Total	149 414	3 302	45	214 759	4 145	52
1967 Jan-May	35 898	1 087	33	50 094	806	62
Jun-Dec	57 162	1 938	29	136 503	3 678	37
Total	93 060	3 025	31	186 597	4 484	42
1968 Jan-May	24 002	1 102	22	39 276	907	43
Jun-Dec	37 498	1 794	21	110 494	3 786	29
Total	61 500	2 896	21	149 770	4 693	32
1969 Jan-May	23 035	1 107	21	39 234	748	52
Jun-Dec	37 323	2 142	17	116 262	3 261	36
Total	60 358	3 249	19	155 496	4 009	39
1970 Jan-May	20 462	961	21	22 279	627	36
Jun-Dec	40 533	1 793	23	125 095	2 934	43
Total	60 995	2 754	22	147 374	3 561	41
1971 Jan-May	25 737	1 139	23	22 647	652	35
Jun-Dec	64 599	2 463	26	113 210	2 757	41
Total	90 336	3 602	25	135 857	3 409	40
1972 Jan-May	48 141	1 778	27	37 534	913	41
Jun-Dec	51 890	2 241	23	123 474	3 307	37
Total	100 031	4 019	25	161 008	4 220	38
1973 Jan-May	43 208	1 769	24	51 860	1 396	37
Jun-Dec	39 325	1 805	22	124 538	3 315	38
Total	82 533	3 574	23	176 398	4 711	37

TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

Year	Area 15			Area 16		
	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)
1963						
Jan-May	415	8	52	69 190	1 522	45
Jun-Dec	6 890	137	50	232 998	3 704	63
Total	7 305	145	50	302 188	5 226	58
1964						
Jan-May	455	22	21	87 625	1 877	47
Jun-Dec	9 267	200	46	229 512	3 767	61
Total	9 722	222	44	317 137	5 644	56
1965						
Jan-May	490	14	35	44 827	669	67
Jun-Dec	9 979	238	42	258 785	3 977	65
Total	10 469	252	42	303 612	4 646	65
1966						
Jan-May	6 947	89	78	17 009	531	32
Jun-Dec	9 874	266	37	370 722	3 673	101
Total	16 821	355	47	387 731	4 204	92
1967						
Jan-May	1 799	57	32	13 524	328	41
Jun-Dec	6 253	149	42	374 210	4 086	92
Total	8 052	206	39	387 734	4 414	88
1968						
Jan-May	1 077	30	36	10 890	388	28
Jun-Dec	1 941	102	19	456 010	4 006	114
Total	3 018	132	23	466 900	4 394	106
1969						
Jan-May	4	2	2	11 401	423	27
Jun-Dec	744	36	21	461 905	5 131	90
Total	748	38	20	473 306	5 554	85
1970						
Jan-May	-*	-	-	10 193	349	29
Jun-Dec	1 389	57	24	387 611	5 548	70
Total	1 389	57	24	397 804	5 897	67
1971						
Jan-May	-	-	-	33 261	460	72
Jun-Dec	1 855	84	22	263 024	5 073	52
Total	1 855	84	22	296 285	5 533	54
1972						
Jan-May	-	-	-	7 930	314	25
Jun-Dec	974	86	11	143 592	4 223	34
Total	974	86	11	151 522	4 537	33
1973						
Jan-May	11	1	11	28 076	772	36
Jun-Dec	825	68	12	335 235	5 716	59
Total	836	69	12	363 311	6 488	56

\* No data supplied.

TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

Year	Area 17			Area 18		
	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)
1963						
Jan-May	64 452	458	141	166 643	1 249	133
Jun-Dec	190 134	1 098	173	624 802	3 778	165
Total	254 586	1 556	164	791 445	5 007	158
1964						
Jan-May	48 150	569	85	206 235	1 858	111
Jun-Dec	133 705	1 188	113	751 315	5 380	140
Total	181 855	1 757	104	957 550	7 238	132
1965						
Jan-May	61 301	290	211	273 709	2 251	122
Jun-Dec	127 005	1 063	119	712 038	5 597	127
Total	188 306	1 353	139	985 747	7 848	126
1966						
Jan-May	103 854	514	202	337 737	2 706	125
Jun-Dec	184 952	1 005	184	780 667	5 555	141
Total	288 806	1 519	190	1 118 404	8 261	135
1967						
Jan-May	5 434	115	47	143 754	1 353	106
Jun-Dec	118 149	1 235	96	669 898	5 128	131
Total	123 583	1 350	92	813 652	6 481	126
1968						
Jan-May	8 400	182	46	233 664	1 860	126
Jun-Dec	174 288	1 302	134	586 672	6 046	97
Total	182 688	1 484	123	820 336	7 906	104
1969						
Jan-May	4 435	98	45	211 653	2 522	84
Jun-Dec	166 492	1 400	119	506 026	5 424	93
Total	170 927	1 498	114	717 679	7 946	90
1970						
Jan-May	2 058	67	31	269 097	2 760	97
Jun-Dec	181 788	1 358	134	998 892	7 451	134
Total	183 846	1 425	129	1 267 989	10 211	124
1971						
Jan-May	274	12	23	139 500	1 875	74
Jun-Dec	83 801	1 344	62	876 039	8 850	99
Total	84 075	1 356	62	1 015 539	10 725	95
1972						
Jan-May	1 840	47	39	122 439	1 900	64
Jun-Dec	40 919	862	47	438 901	7 696	57
Total	42 759	909	47	561 340	9 596	58
1973						
Jan-May	4 209	108	39	144 568	2 818	51
Jun-Dec	149 057	1 438	104	600 127	7 937	76
Total	153 266	1 546	99	744 695	10 755	69

TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

Year	Area 19			Area 20		
	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)
1963 Jan-May	28 322	112	253	924 621	2 838	326
Jun-Dec	88 026	300	293	788 171	2 464	320
Total	116 348	412	282	1 712 792	5 302	323
1964 Jan-May	39 207	229	171	627 458	2 342	268
Jun-Dec	163 657	638	257	433 115	2 537	171
Total	202 864	867	234	1 060 573	4 879	217
1965 Jan-May	95 994	365	263	558 579	2 822	198
Jun-Dec	245 861	1 499	164	399 303	2 548	157
Total	341 855	1 864	183	957 882	5 370	178
1966 Jan-May	153 684	933	165	540 957	3 922	138
Jun-Dec	164 233	1 185	139	523 219	3 038	172
Total	317 917	2 118	150	1 064 176	6 960	153
1967 Jan-May	130 198	869	150	465 232	2 840	164
Jun-Dec	129 575	928	140	378 730	2 655	143
Total	259 773	1 797	145	843 962	5 495	154
1968 Jan-May	149 365	951	157	424 971	3 322	128
Jun-Dec	70 787	580	122	340 298	3 458	98
Total	220 152	1 531	144	765 269	6 780	113
1969 Jan-May	51 674	498	104	473 373	4 649	102
Jun-Dec	84 112	619	136	391 908	3 623	108
Total	135 786	1 117	122	865 281	8 272	105
1970 Jan-May	50 490	480	105	320 703	3 614	89
Jun-Dec	79 874	615	130	506 694	4 076	124
Total	130 364	1 095	119	827 397	7 690	108
1971 Jan-May	92 500	642	144	463 173	4 130	112
Jun-Dec	133 998	1 292	104	553 257	5 247	105
Total	226 498	1 934	117	1 016 430	9 377	108
1972 Jan-May	53 213	573	93	391 029	4 545	86
Jun-Dec	93 541	994	94	501 402	6 250	80
Total	146 754	1 567	94	892 431	10 795	83
1973 Jan-May	58 104	846	69	343 075	4 021	85
Jun-Dec	108 705	1 300	84	582 915	4 776	122
Total	166 809	2 146	78	925 990	8 797	105

TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

Year	Area 21			Area 22		
	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)
1963						
Jan-May	70 122	162	433	4 404	55	80
Jun-Dec	86 331	186	464	5 737	77	75
Total	156 453	348	450	10 141	132	77
1964						
Jan-May	52 110	231	226	5 878	84	70
Jun-Dec	55 832	352	159	7 770	120	65
Total	107 942	583	185	13 648	204	67
1965						
Jan-May	100 035	429	233	30 968	215	144
Jun-Dec	96 833	603	161	60 968	362	168
Total	196 868	1 032	191	91 936	577	159
1966						
Jan-May	80 441	535	150	45 248	327	138
Jun-Dec	54 736	364	150	42 702	379	113
Total	135 177	899	150	87 950	706	125
1967						
Jan-May	66 430	495	134	21 372	268	80
Jun-Dec	60 932	381	160	27 876	366	76
Total	127 362	876	145	49 248	634	78
1968						
Jan-May	61 926	328	189	11 103	155	72
Jun-Dec	69 090	558	124	11 285	140	81
Total	131 016	886	148	22 388	295	76
1969						
Jan-May	84 371	957	88	8 776	128	69
Jun-Dec	57 860	560	103	10 626	122	87
Total	142 231	1 517	94	19 402	250	78
1970						
Jan-May	38 436	393	98	2 858	75	38
Jun-Dec	50 076	445	113	13 629	163	84
Total	88 512	838	106	16 487	238	69
1971						
Jan-May	64 062	403	159	30 500	324	94
Jun-Dec	87 786	651	135	30 636	418	73
Total	151 848	1 054	144	61 136	742	82
1972						
Jan-May	77 152	673	115	15 107	358	42
Jun-Dec	99 737	800	125	23 603	288	82
Total	176 889	1 473	120	38 710	646	60
1973						
Jan-May	73 398	862	85	21 359	392	54
Jun-Dec	91 770	1 069	86	25 828	471	55
Total	165 168	1 931	86	47 187	863	55

TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

Year	Area 23			Area 24 Chatham Islands		
	Landings (kg)	No. of vessel- days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel- days fished	Av. weight landed per day fished (kg)
1963 Jan-May	2 303	64	36	-*	-	-
Jun-Dec	3 469	207	17	-	-	-
Total	5 772	271	21	-	-	-
1964 Jan-May	859	67	13	-	-	-
Jun-Dec	40 718	196	208	-	-	-
Total	41 577	263	158	-	-	-
1965 Jan-May	33 766	179	189	584	19	31
Jun-Dec	51 538	434	119	4 827	53	91
Total	85 304	613	139	5 411	72	75
1966 Jan-May	34 972	193	181	314 992	490	643
Jun-Dec	39 528	294	134	1 149 458	1 168	984
Total	74 500	487	153	1 464 450	1 658	883
1967 Jan-May	9 941	122	81	766 836	849	903
Jun-Dec	9 615	174	55	2 315 833	2 278	1 017
Total	19 556	296	66	3 082 669	3 127	986
1968 Jan-May	4 459	91	49	2 258 578	2 916	775
Jun-Dec	18 140	235	77	4 082 984	7 239	564
Total	22 599	326	69	6 341 562	10 155	624
1969 Jan-May	917	48	19	2 108 534	4 937	427
Jun-Dec	12 867	346	37	2 180 159	9 734	224
Total	13 784	394	35	4 288 693	14 671	292
1970 Jan-May	695	47	15	918 287	4 160	221
Jun-Dec	3 454	51	68	790 727	5 757	137
Total	4 149	98	42	1 709 014	9 917	172
1971 Jan-May	-	-	-	427 704	2 748	156
Jun-Dec	5 461	137	40	695 286	4 891	142
Total	5 461	137	40	1 122 990	7 639	147
1972 Jan-May	839	24	35	291 298	2 036	143
Jun-Dec	16 515	410	40	645 610	3 315	195
Total	17 354	434	40	936 908	5 351	175
1973 Jan-May	3 360	43	78	259 026	2 004	129
Jun-Dec	2 826	170	17	685 058	3 806	180
Total	6 186	213	29	944 084	5 810	162

\* No data supplied.



TABLE 1: Landings (whole weight) of *Jasus edwardsii* and effort data for 1963-73 by statistical area; area boundaries shown in Fig. 1 (continued)

		Areas 1-23			New Zealand totals		
		North and South Islands combined					
Year		Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)	Landings (kg)	No. of vessel-days fished	Av. weight landed per day fished (kg)
1963	Jan-May	1 593 079	12 608	126	1 593 079	12 608	126
	Jun-Dec	2 915 052	28 451	102	2 915 052	28 451	102
	Total	4 508 131	41 059	110	4 508 131	41 059	110
1964	Jan-May	1 450 903	14 032	103	1 450 903	14 032	103
	Jun-Dec	3 032 492	32 599	93	3 032 492	32 599	93
	Total	4 483 395	46 631	96	4 483 395	46 631	96
1965	Jan-May	1 686 190	14 471	117	1 686 774	14 490	116
	Jun-Dec	3 224 611	35 564	91	3 229 438	35 617	91
	Total	4 910 801	50 035	98	4 916 212	50 107	98
1966	Jan-May	2 167 650	20 994	103	2 482 642	21 484	116
	Jun-Dec	3 358 458	36 571	92	4 507 916	37 739	119
	Total	5 526 108	57 565	96	6 990 558	59 223	118
1967	Jan-May	1 298 686	14 483	90	2 065 522	15 332	135
	Jun-Dec	3 160 168	38 846	81	5 476 001	41 124	133
	Total	4 458 854	53 329	84	7 541 523	56 456	134
1968	Jan-May	1 456 017	18 144	80	3 714 595	21 060	176
	Jun-Dec	3 035 576	46 988	65	7 118 560	54 227	131
	Total	4 491 593	65 132	69	10 833 155	75 287	144
1969	Jan-May	1 413 272	22 824	62	3 521 806	27 761	127
	Jun-Dec	3 153 243	54 612	58	5 333 402	64 346	83
	Total	4 566 515	77 436	59	8 855 208	92 107	96
1970	Jan-May	1 112 464	19 460	57	2 030 751	23 620	86
	Jun-Dec	3 514 636	51 507	68	4 305 363	57 264	75
	Total	4 627 100	70 967	65	6 336 114	80 884	78
1971	Jan-May	1 313 252	18 257	72	1 740 956	21 005	83
	Jun-Dec	3 086 346	51 442	60	3 781 632	56 333	67
	Total	4 399 598	69 699	63	5 522 588	77 338	71
1972	Jan-May	1 147 440	21 113	54	1 438 738	23 149	62
	Jun-Dec	2 302 270	49 148	47	2 944 880	52 463	56
	Total	3 449 710	70 261	49	4 386 618	75 612	58
1973	Jan-May	1 067 279	21 755	49	1 326 305	23 759	56
	Jun-Dec	2 653 513	46 242	57	3 338 571	50 048	67
	Total	3 720 792	67 997	55	4 664 876	73 807	63

TABLE 2: Landings (whole weight) of *Jasus verreauxi* by statistical area for 1967, 1968, and 1970-73 (only areas where landings were recorded are shown); area boundaries shown in Fig. 1

Year	Landings (kg) by area					N.Z. total
	1	2	3	4	11	
1967	22 757	4 433	760	2 632	-*	30 582
1968	40	5 277	-	1 049	-	6 366
1970	365	2 174	146	6	499	3 190
1971	22 403	4 110	260	-	-	26 773
1972	6 685	6 696	68	-	-	13 449
1973	146	574	6	-	-	726

\* No data supplied.

TABLE 3: Comparison of total landings (whole weight) by port of landing and statistical area of *Jasus edwardsii* and *J. verreauxi* combined, for 1963-73

Year	Total landings (t)		Difference (%)
	Port of landing	Statistical area	
1963	4 554	4 508	-1.0
1964	4 597	4 483	-2.5
1965	4 986	4 916	-1.4
1966	6 566	6 991	+6.1
1967	8 095	7 573	-6.4
1968	10 933	10 839	-0.9
1969	8 915	8 855	-0.7
1970	6 450	6 339	-1.7
1971	5 689	5 550	-2.4
1972	4 583	4 400	-4.0
1973	4 781	4 666	-2.4