

SEABIRDS FOUND DEAD IN NEW ZEALAND IN 1970, 1971 AND 1972

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ABSTRACT

During 1970, 2152 kilometres of coast were patrolled by 82 persons. 4613 dead seabirds, including high numbers of Lesser Broad-billed Prions (*Pachyptila salvini*), were found. During 1971, 2470 kilometres of beach were patrolled by 148 persons. 6244 dead seabirds, including high numbers of Fairy Prions (*P. turtur*), were found. During 1972, 2748 kilometres of beach were patrolled by 117 persons. 4046 dead seabirds were found but there were no major wrecks. During the three years there were new beach patrol records of Soft-plumaged Petrel (*Pterodroma mollis*), Fulmar Prion (*Pachyptila crassirostris*), Brown Booby (*Sula leucogaster*), Lesser Frigate Bird (*Fregata ariel*) and Antarctic Skua (*Stercorarius skua macormicki*). The single specimen of Manx Shearwater (*Puffinus puffinus*) is a new record for New Zealand.

INTRODUCTION

This paper records the results of the Ornithological Society of New Zealand's Beach Patrol Scheme for 1970, 1971 and 1972. The coastline of New Zealand is divided into 15 sections (Imber & Boeson 1969) with an additional grouping of "OI" for Outlying Islands, which includes patrols from the Chatham Islands during 1970.

Nomenclature follows the Annotated Checklist (OSNZ 1970), except that, to save space in the tables, some trinomials have not been used.

RESULTS AND DISCUSSION

The annual totals are summarised in Table 1 and totals of distances patrolled and birds found monthly on each coast are given in Tables 2, 6 and 10.

TABLE 1 — Summary of Annual Totals

	1970	1971	1972
Number of patrollers	82	148	117
Number of beach patrols	184	406	405
Number of specimen record cards	54	87	53
Total kilometres travelled	2717	3291	3247
Total kilometres covered	2152	2470	2748
Total seabirds found	4613	6244	4046
Birds per kilometre covered	2.14	2.52	1.47

Kilometres travelled are the total lengths of coast patrolled; kilometres covered are the lengths of coast covered monthly. Hence, if a kilometre of beach is patrolled 3 times in one month, 3 kilometres will have been travelled but only one kilometre covered per month.

Details of the more common seabirds found dead are given in Tables 3, 4, 7, 8, 11 & 12 and of the less common species in Tables 5, 9 & 14.

WRECKS

1970

The high number of birds recorded for Auckland West beaches in January was due to a continuation of the early summer wreck of Sooty Shearwaters (*Puffinus griseus*) and high numbers of Blue Penguins (*Eudyptula minor*). A rise in numbers of Blue Penguins found at this time of year is now considered normal.

On Auckland West beaches in late June, July and August and on Wellington West beaches in July, high numbers of Lesser Broad-billed Prions (*Pachyptila salvini*) were found. There is no reasonable explanation for this wreck which, at the time, was the highest ever recorded for this species. The average for all coasts in 1970 was 0.65 birds per kilometre covered. Higher numbers (1.8/km covered) were found during 1974 (Veitch 1976).

During October, following a long period of south-west winds, high numbers of Fairy Prions (*Pachyptila turtur*) were found on Auckland West and Wellington West beaches. Fewer birds than usual of this species were found earlier in the year, and so the total for the year was average.

In December there was the expected wreck of Sooty Shearwaters on Auckland West beaches.

1971

Data for January were significantly affected by a great increase in beach patrol activity on Auckland East beaches. Many new areas were covered and old remains of birds were found.

Also in January there were higher numbers than usual of Fluttering Shearwaters (*Puffinus gavia*), Buller's Shearwaters (*P. bulleri*), and Gannets (*Sula bassana*) found on Auckland West beaches. There is no obvious reason for this.

There also appears to be no single reason for the high numbers of Spotted Shags (*Stictocarbo punctatus*) found on Canterbury North beaches in July.

From September to November high numbers of Fairy Prions were found on Auckland West and Wellington West beaches and continued to be found on Auckland West beaches in December. During the early part of this period there were strong north-east winds, but after that fine weather prevailed west of New Zealand.

TABLE 2 — Numbers of dead seabirds recorded and kilometres patrolled on each coast in 1970.

COAST	CODE	MONTH												TOTALS		BIRDS/KM /COAST	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	KM	BIRDS		
AUCKLAND WEST	AW KM	50	48	55	61	80	69	68	68	55	150	51	60	815			
	BIRDS	142	62	16	41	45	133	597	357	42	369	80	393	2277	2.79		
TARANAKI	TA KM	—	6	6	24	24	16	23	6	29	11	6	6	156	103	0.66	
	BIRDS	—	4	6	12	5	17	18	4	11	8	6	12	1692	2.90		
WELLINGTON WEST	WW KM	21	56	27	58	39	6	140	50	61	60	11	55	584			
WESTLAND	WD KM	—	—	—	—	11	—	5	—	—	—	—	2	19	37	11	0.30
	BIRDS	—	—	—	—	2	—	0	—	—	—	0	9	102	1.52		
AUCKLAND EAST	AE KM	—	—	—	—	—	—	—	—	43	—	11	13	67			
BAY OF PLENTY	BP KM	6	—	—	—	—	—	—	—	58	—	28	16	19	41	2.16	
	BIRDS	14	—	—	—	—	12	—	—	—	0	15	—	5	3	0.60	
EAST COAST NORTH IS	EC KM	—	—	—	—	—	—	—	—	—	—	—	5	—	—		
WAIRARAPA	WA KM	—	—	—	—	—	—	—	—	3	29	5	—	37	3	0.60	
	BIRDS	—	—	—	—	—	—	—	—	2	3	7	—	12	0.32		
CANTERBURY NORTH	CH KM	2	2	—	—	2	2	2	5	—	—	—	2	17			
CANTERBURY SOUTH	CS KM	11	5	—	—	4	0	1	2	—	—	—	7	30	1.76		
	BIRDS	27	5	21	5	21	5	8	14	14	6	13	8	147	81	0.55	
OTAGO	OT KM	32	2	6	2	12	1	0	5	7	3	7	4	57	33	0.58	
	BIRDS	2	—	2	11	—	5	8	3	14	8	2	2	143	150	1.05	
WELLINGTON SOUTH	WS KM	4	—	1	7	—	0	2	0	5	5	1	8	31	54	1.74	
	BIRDS	6	—	13	—	18	6	76	5	—	11	—	8	37	24	0.65	
NORTH COAST SOUTH IS	NS KM	14	—	10	—	37	3	79	1	—	2	—	4	150			
	BIRDS	—	16	—	2	—	—	—	—	11	2	—	—	31	54	1.74	
OUTLYING ISLANDS	OI KM	—	16	—	6	—	—	—	—	31	1	—	—	37			
	BIRDS	32	—	—	—	—	—	—	—	—	—	—	5	24	0.65		
		22	—	—	—	—	—	—	—	—	—	—	2				
TOTAL KM TRAVELLED			179	188	148	185	235	185	393	198	290	303	193	220	2717		
TOTAL KM COVERED			146	133	123	161	195	112	330	151	230	279	114	178	2152		
TOTAL BIRDS RECORDED			255	164	56	141	132	176	1548	427	228	632	172	682	4613		
BIRDS/KM COVERED/MONTH			1.75	1.23	0.46	0.88	0.68	1.57	4.69	2.83	0.99	2.27	1.51	3.83		2.14	

No patrols were reported from Southland or Fiordland.

TABLE 3 — Coastal distribution of the more common seabirds found dead in 1970.

SPECIES OR SUBSPECIES	AW	TA	WW	WD	AE	BP	COAST							TOTAL BIRDS	
							EC	WA	CN	CS	OT	WS	HS		OI
<i>Eudyptula minor</i>	127	10	39	-	11	6	-	-	-	2	3	5	12	4	219
<i>albosignata</i>	-	-	-	-	-	-	-	-	2	11	-	1	4	-	18
<i>Diomedea</i> spp*	3	-	12	-	-	-	-	-	-	2	-	1	-	1	19
<i>exulans</i>	24	-	-	-	-	-	-	-	-	-	-	1	-	-	25
<i>melanophris</i>	20	-	6	-	-	-	-	-	-	-	-	-	-	-	26
<i>chrysostoma</i>	22	-	8	-	1	-	-	-	-	-	-	-	-	-	31
<i>cauta cauta</i>	24	1	2	-	1	-	-	-	-	-	1	2	-	-	31
<i>Phoebastria palpebrata</i>	13	-	2	-	1	-	-	-	-	-	-	-	-	-	16
<i>Macronektes giganteus</i>	16	1	10	-	1	-	-	1	1	1	-	2	-	-	33
<i>Fulmarus glacialisoides</i>	6	-	10	-	-	-	-	-	-	-	-	-	-	-	16
<i>Daption capensis</i>	37	1	13	-	-	-	-	2	1	5	-	1	-	-	60
<i>Pterodroma macroptera</i>	12	1	2	-	2	3	-	-	-	-	-	-	-	-	20
<i>lessoni</i>	81	2	15	-	-	-	-	-	-	-	-	-	1	-	99
<i>Pachyptila</i> spp*	149	1	503	-	2	-	-	-	2	-	-	2	-	3	662
<i>vittata</i>	22	-	37	-	-	-	-	-	-	3	-	-	-	2	64
<i>salvini</i>	805	21	477	-	-	-	-	-	-	-	-	4	-	-	1307
<i>desolata</i>	5	-	9	-	1	4	-	-	-	-	-	1	-	-	20
<i>belcheri</i>	9	-	17	-	-	-	-	-	-	-	-	-	-	-	26
<i>turtur</i>	189	7	219	-	24	1	1	-	-	-	-	3	31	3	478
<i>Puffinus</i>	78	-	5	-	1	-	-	-	-	-	-	-	-	-	84
<i>carneipes</i>	52	-	32	-	-	2	-	-	-	-	-	-	-	-	86
<i>bulleri</i>	272	7	74	1	19	9	-	7	8	16	1	73	-	3	490
<i>griseus</i>	23	-	10	1	1	1	-	-	-	2	-	-	-	1	39
<i>tenuirostris</i>	89	3	30	2	5	5	1	-	-	-	-	-	-	-	135
<i>gavia</i>	24	1	41	3	-	-	-	-	3	2	-	-	-	-	74
<i>huttoni</i>	46	3	31	-	23	7	-	-	-	-	-	2	-	-	114
<i>Pelecanoides urinatrix</i>	45	1	7	-	3	-	1	1	1	-	-	1	-	-	60
<i>Sula bassana</i>	2	-	-	-	-	-	-	-	2	16	3	-	3	-	26
<i>Stictocarbo punctatus</i>	23	21	54	1	-	-	-	-	5	6	9	34	1	2	156
<i>Larus dominicanus</i>	5	16	5	-	2	1	-	-	3	5	12	10	2	2	63
<i>novae-hollandiae</i>	11	2	4	-	-	-	-	1	2	6	-	-	-	-	26
<i>Sterna striata</i>															
TOTALS	2234	99	1674	8	98	41	3	12	30	77	29	143	54	21	4523

* Denotes in all tables that the species or subspecies could not be identified by the patroller.

TABLE 4 — Monthly distribution of the more common seabirds found dead in 1970.

SPECIES OR SUBSPECIES	MONTH												TOTAL BIRDS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
<i>Eudyptula minor</i>	56	26	6	16	7	12	11	6	12	18	9	40	219
<i>albionigata</i>	4	—	2	4	—	—	1	1	—	1	1	4	18
<i>Diomedea</i> spp.*	3	—	—	—	—	—	9	5	—	3	2	3	19
<i>exulans</i>	—	—	1	—	3	1	6	5	—	3	2	4	25
<i>melanophris</i>	—	—	—	3	1	1	4	—	4	1	—	12	26
<i>chrysostroma</i>	—	—	—	—	—	2	12	9	2	6	2	8	31
<i>cauta cauta</i>	1	1	1	3	3	2	3	2	3	8	—	—	16
<i>Phoebastria palpebrata</i>	—	—	—	—	—	—	3	1	7	—	—	—	33
<i>Macronectes giganteus</i>	2	1	—	—	2	—	13	6	5	10	—	—	16
<i>Fulmarus glacialis</i>	—	—	—	—	—	—	14	4	6	19	3	5	60
<i>Fulmarus glacialisoides</i>	3	3	—	2	1	—	—	—	—	9	2	2	20
<i>Daption capensis</i>	2	1	1	—	—	—	1	—	7	60	5	5	99
<i>Pterodroma macroptera</i>	2	—	—	4	4	2	10	—	18	184	16	75	662
<i>lessoni</i>	5	25	—	4	1	13	244	77	—	—	—	—	64
<i>Pachyptila</i> spp.*	4	—	1	11	2	4	32	10	2	4	3	1	1307
<i>vittata</i>	—	—	—	4	6	91	982	213	2	—	—	—	20
<i>salvini</i>	1	—	—	—	1	5	8	—	1	1	—	—	26
<i>desolata</i>	—	—	—	2	—	—	10	—	1	2	—	—	—
<i>belcheri</i>	—	—	—	—	2	—	—	11	78	123	17	117	478
<i>turtur</i>	13	22	—	10	2	8	53	35	—	—	—	75	—
<i>Puffinus carneipes</i>	4	—	3	—	1	—	—	—	—	1	—	—	84
<i>bulleri</i>	7	6	—	3	—	—	1	—	—	—	—	—	—
<i>griseus</i>	56	14	2	8	59	8	44	2	5	23	2	40	36
<i>tenuirostris</i>	8	5	—	—	1	—	—	—	1	32	57	203	490
<i>gavia</i>	24	16	3	5	1	—	—	—	—	—	—	20	39
<i>huttoni</i>	2	7	4	2	1	—	13	17	12	23	13	8	135
<i>Pelecanoides urinatrix</i>	11	1	2	4	4	—	19	—	19	14	10	5	114
<i>Sula bassana</i>	3	9	6	6	2	1	3	—	6	8	9	7	60
<i>Stictocaro punctatus</i>	6	3	—	1	4	—	—	—	3	3	2	2	26
<i>Larus dominicanus</i>	18	13	8	21	17	3	31	7	16	6	4	11	156
<i>novaeahollandiae</i>	7	1	—	—	3	4	10	3	5	2	4	10	63
<i>Sterna striata</i>	3	4	6	6	2	1	1	—	2	1	1	5	26
TOTALS	245	158	50	134	129	174	1537	422	220	617	167	670	4523

TABLE 5 — Seabirds of which 1 to 9 specimens were found dead in 1970. Coast and month of discovery given.

SPECIES OR SUBSPECIES	NUMBER FOUND	COAST(S)	MONTH(S)
<i>Megadyptes antipodes</i>	3	CS,OT(2).	5,7,9.
<i>Eudypetes pachyrhynchus</i>	3	WW,WD(2).	2,12(2).
<i>Diomedea bulleri</i>	1	TA.	2.
<i>epomophora</i>	6	AW(4),WS(2).	3,4,7(2),10,12.
<i>cauta</i> subsp* <i>salvini</i>	2 4	WW(2). AW(2),WW,WS.	9(2). 3,8,12(2).
<i>Pterodroma</i> spp* <i>inexpectata</i>	2 9	WS(2). AW(7),WW(2).	7(2). 1,4(3),7,10(2),12(2).
<i>leucoptera</i>	1	AW.	1.
<i>brevirostris</i>	4	AW(3),AE.	8,9,10(2).
<i>cooki</i>	3	AW(3).	1,2,4.
<i>h. nigripennis</i>	1	AW.	5.
<i>Halobaena caerulea</i>	5	AW(2),TA,WW(2).	9,10(3),12.
<i>Pachyptila crassirostris</i>	3	AW(2),WW.	7,8(2).
<i>Procellaria cinerea</i>	6	AW(6).	10(3),12(3).
<i>westlandica</i>	2	AW,WS.	7,8.
<i>aequinoctialis</i>	1	WS.	3.
<i>Puffinus gavia/huttoni</i>	1	WW.	9.
<i>assimilis</i>	1	OI.	1.
<i>Pelagodroma marina</i>	4	AW,AE(2),CS.	1,9,10,11.
<i>Phalacrocorax</i> spp* <i>carbo</i>	1 4	AW. AW,TA,WW(2).	9. 7,11(2).
<i>varius</i>	6	AW(5),AE.	2,6(2),10(2),12.
<i>sulcirostris</i>	1	TA.	3.
<i>melanoleucos</i>	1	OT.	3.
<i>Leucocarbo c. onslowi</i>	2	OI(2).	1(2).
<i>Stercorarius skua lonnbergi</i>	1	WD.	5.
<i>Larus bulleri</i>	7	WW(4),CS(2),OT.	1,2(2),3,4(2),10.
<i>Hydroprogne caspia</i>	5	AW(3),WW(2).	1,7(2),11(2).
TOTAL	90		

During November and December there was the expected increase in the numbers of Sooty Shearwaters found. In December there was also an increase in numbers of Short-tailed Shearwaters (*Puffinus tenuirostris*) found on Auckland West beaches. The weather during these months was considered to be good.

1972

There were no large wrecks this year. During June, following a period of strong south to south-west winds, there was an increase in numbers of Spotted Shags on Otago beaches, Fluttering Shearwaters on Auckland West and Wellington West beaches, and Diving Petrels on Wellington West beaches, but these increases did not significantly affect the annual totals for these species.

These winds combined with the prevailing south-westerly sea currents also brought, mainly to Wellington West and Wellington South coasts, the highest numbers ever recorded of Yellow-eyed Penguins (*Megadyptes antipodes*). The total for June was 35 and for the year 50. The next highest annual total is 14 in 1977.

TABLE 6 — Numbers of dead seabirds recorded and kilometres patrolled on each coast in 1971.

COAST	CODE		MONTH												TOTALS		BIRDS/KM /COAST
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	KM	BIRDS	
AUCKLAND WEST	AW	KM	142	48	50	60	56	71	58	148	79	116	187	138	1153	2602	2.26
		BIRDS	429	114	42	18	63	14	41	84	156	301	373	967			
TARANAKI	TA	KM	18	3	8	5	19	—	10	8	5	10	11	3	100	119	1.19
		BIRDS	32	2	3	1	16	—	10	19	0	16	12	8			
WELLINGTON WEST	WW	KM	—	—	—	—	16	51	31	8	135	82	29	24	376	1192	3.17
		BIRDS	—	—	—	—	7	17	18	2	258	647	163	80			
WESTLAND	WD	KM	8	—	—	—	—	—	—	—	—	11	—	—	19	3	0.16
		BIRDS	0	—	—	—	—	—	—	—	—	3	—	—			
AUCKLAND EAST	AE	KM	151	14	6	24	16	—	11	18	—	14	42	74	370	1116	3.02
		BIRDS	413	15	1	25	14	—	8	56	—	13	221	350			
BAY OF PLENTY	BP	KM	13	—	3	—	2	—	—	21	10	2	24	6	81	202	2.49
		BIRDS	29	—	6	—	2	—	—	38	3	2	110	12			
EAST COAST NORTH IS	EC	KM	—	—	—	—	—	—	2	—	—	2	6	—	10	11	1.10
		BIRDS	—	—	—	—	—	—	1	—	—	1	9	—			
CANTERBURY NORTH	CN	KM	5	13	10	13	16	31	19	14	13	10	6	3	153	507	3.31
		BIRDS	32	71	9	35	21	72	112	56	17	14	46	22			
CANTERBURY SOUTH	CS	KM	3	—	6	3	—	—	6	6	5	—	—	—	29	58	2.00
		BIRDS	4	—	11	3	—	—	21	6	13	—	—	—			
OTAGO	OT	KM	16	6	3	—	2	3	—	—	3	—	45	—	78	219	2.81
		BIRDS	17	5	6	—	1	1	—	—	1	—	188	—			
SOUTHLAND	SD	KM	—	—	—	—	—	—	5	3	5	5	—	5	23	39	1.70
		BIRDS	—	—	—	—	—	—	16	11	0	6	—	6			
WELLINGTON SOUTH	WS	KM	—	—	—	—	8	—	11	6	—	—	6	—	31	145	4.68
		BIRDS	—	—	—	—	10	—	20	5	—	—	110	—			
NORTH COAST SOUTH IS	NS	KM	5	21	8	5	—	—	—	—	—	8	—	—	47	31	0.66
		BIRDS	5	24	1	0	—	—	—	—	—	—	1	—			
TOTAL KM TRAVELLED			423	183	159	142	138	232	280	293	340	399	412	290	3291		
TOTAL KM COVERED			361	105	94	110	135	156	153	232	255	260	356	253	2470		
TOTAL BIRDS RECORDED			961	231	79	82	134	104	247	277	448	1004	1232	1445	6244		
BIRDS/KM COVERED/MONTH			2.66	2.20	0.84	0.75	0.99	0.67	1.61	1.19	1.76	3.86	3.46	5.71		2.52	

No patrols were reported from Wairarapa, Fiordland or Outlying Islands.

TABLE 7 — Coastal distribution of the more common seabirds found dead in 1971.

SPECIES OR SUBSPECIES	AW	TA	WV	WD	AE	BP	COAST EC	CH	CS	OT	SD	WS	NS	TOTAL BIRDS
<i>Eudyptula minor</i>	180	7	24	--	108	32	--	9	--	9	1	5	16	391
<i>albolineata</i>	--	--	--	--	--	--	--	21	13	5	--	--	--	39
<i>Diomedea</i> spp*	9	--	3	--	5	--	--	--	--	1	--	--	--	22
<i>exulans</i>	19	--	1	--	--	--	--	3	--	--	--	--	--	20
<i>melanophris</i>	8	--	1	--	1	--	--	--	--	--	--	--	--	10
<i>chrysoloma</i>	34	--	8	--	--	--	--	1	--	--	1	1	--	45
<i>cauta</i> spp**	9	--	--	--	--	--	--	--	--	1	--	--	--	10
<i>cauta</i>	8	--	5	--	--	1	--	--	--	2	--	2	--	18
<i>Phoebastria palpebrata</i>	6	--	1	--	--	--	--	5	1	--	--	--	--	13
<i>Macronectes giganteus</i>	21	2	4	--	4	--	1	3	1	2	--	2	--	40
<i>Daption capensis</i>	30	--	18	--	2	--	--	3	--	1	--	2	--	56
<i>Pterodroma macroptera</i>	18	1	--	--	47	6	--	--	--	--	--	--	--	72
<i>lessoni</i>	33	--	4	--	1	3	--	--	--	--	--	--	--	41
<i>inexpectata</i>	8	--	--	--	1	1	--	1	--	1	--	--	--	12
<i>cooki</i>	8	--	--	--	16	--	--	--	--	--	--	--	--	24
<i>Pachyptila</i> spp*	96	3	101	--	2	--	--	3	--	1	--	1	4	211
<i> vittata</i>	11	--	63	--	--	1	--	3	--	1	--	--	--	80
<i>salvini</i>	27	--	8	1	1	--	--	4	--	1	--	--	--	39
<i>usolata</i>	7	--	--	--	2	--	--	--	--	--	--	1	--	12
<i>turtur</i>	425	14	647	--	41	3	--	34	1	13	--	2	1	1181
<i>Procellaria cinerea</i>	7	--	1	--	--	2	--	--	--	--	--	2	--	10
<i>Puffinus</i> spp*	12	--	--	--	1	--	--	3	--	--	--	--	1	19
<i>carneipes</i>	54	--	--	--	65	7	--	--	--	--	--	--	--	126
<i>bulleri</i>	56	--	10	--	99	14	--	--	--	--	--	--	--	180
<i>griseus</i>	781	7	119	--	304	96	6	55	5	130	26	98	--	1627
<i>tenuirostris</i>	171	1	14	--	31	1	--	15	3	--	2	1	--	239
<i>gavia</i>	230	13	50	--	80	3	1	16	--	--	--	1	--	394
<i>huttoni</i>	31	--	6	--	--	--	--	15	--	--	--	--	--	52
<i>assimilis</i>	9	--	--	--	--	9	--	--	--	--	--	--	--	18
<i>Pelecodroma marina</i>	6	--	--	--	7	3	--	--	--	--	--	--	--	16
<i>Pelecanoides urinatrix</i>	57	2	45	--	142	14	--	--	--	1	--	--	2	261
<i>Sula bassana</i>	101	6	10	--	81	5	2	6	--	1	--	--	--	216
<i>Phalacrocorax varius</i>	7	--	--	--	4	2	--	--	--	--	--	--	--	14
<i>Stictocorax punctatus</i>	49	--	1	1	--	--	--	152	21	10	--	--	2	187
<i>Larus dominicanus</i>	22	26	1	1	31	1	1	63	3	17	8	17	--	217
<i>Larus novaehollandiae</i>	12	32	8	1	31	1	1	59	2	14	1	5	1	165
<i>bulleri</i>	--	--	1	--	--	--	--	14	2	1	1	1	--	19
<i>Sterna striata</i>	19	5	--	--	4	5	--	19	1	--	--	--	--	54
TOTALS	2359	117	1181	3	1099	200	11	505	54	211	39	142	29	6150

TABLE 8 — Monthly distribution of the more common seabirds found dead in 1971.

SPECIES OR SUBSPECIES	JAN	FEB	MAR	APR	MAY	MONTH						TOTAL BIRDS	
						JUN	JUL	AUG	SEP	OCT	NOV		DEC
<i>Eudiptula minor</i>	124	47	15	14	13	1	16	78	9	16	17	41	391
<i>albosignata</i>	9	10	5	4	3	2	2	1	—	—	2	1	39
<i>Diomedea</i> spp*	6	2	1	1	—	—	2	—	2	—	4	4	22
<i>exulans</i>	16	—	—	—	—	—	—	—	2	1	—	1	20
<i>melanophris</i>	6	—	—	—	—	—	2	1	1	—	—	—	10
<i>chrysostoma</i>	6	1	—	—	2	—	11	2	8	8	5	2	45
<i>cauta</i> subsp*†	1	—	—	—	—	—	—	—	1	—	2	6	10
<i>cauta</i>	3	1	—	—	1	2	2	1	—	1	5	2	18
<i>Phoebastria palpebrata</i>	—	—	—	—	—	—	6	1	5	—	—	1	13
<i>Macronectes giganteus</i>	2	—	—	—	—	4	14	6	6	3	4	1	40
<i>Daution capensis</i>	8	—	—	—	—	2	2	2	23	7	8	4	56
<i>Pterodroma macroptera</i>	50	2	—	—	2	—	—	1	1	—	5	11	72
<i>lessoni</i>	7	4	—	—	2	—	4	4	4	7	4	5	41
<i>inexpectata</i>	3	—	—	—	2	1	—	—	—	—	1	5	12
<i>cooki</i>	7	2	—	5	—	—	—	—	—	—	3	7	24
<i>Pachyptila</i> spp*	6	3	—	—	4	2	3	1	62	34	13	63	211
<i>vittata</i>	2	1	—	—	—	—	—	1	28	37	8	3	80
<i>salvini</i>	1	—	—	—	3	—	1	—	7	14	6	7	39
<i>desolata</i>	2	—	—	—	2	—	1	—	4	1	—	2	12
<i>turtur</i>	64	31	4	1	3	—	8	19	106	703	130	112	1161
<i>Procellaria cinerea</i>	4	—	—	—	—	—	—	—	1	—	2	2	10
<i>Puffinus</i> spp*	2	—	—	—	—	—	—	—	—	1	3	13	19
<i>carneipes</i>	54	11	—	2	3	—	—	—	—	2	21	33	126
<i>butleri</i>	38	8	1	5	3	2	—	—	1	8	36	78	180
<i>griseus</i>	161	21	12	4	18	11	24	22	1	25	693	635	1627
<i>tenuirostris</i>	14	—	—	—	25	6	5	1	2	6	24	156	239
<i>gavia</i>	67	18	3	6	3	1	7	26	80	39	65	79	394
<i>huttoni</i>	7	6	—	—	—	—	—	—	1	9	24	5	52
<i>assimilis</i>	4	2	—	—	1	—	1	2	—	—	1	7	18
<i>Pelagodroma marina</i>	6	—	—	—	1	—	—	—	—	2	1	6	16
<i>Pelecanoides urinatrix</i>	85	1	1	3	4	—	2	37	33	27	22	46	261
<i>Sula bassana</i>	82	14	5	4	3	4	3	5	9	11	36	40	216
<i>Phalacrocorax varius</i>	7	1	2	—	—	1	—	1	—	—	1	1	14
<i>Stictocorbo punctatus</i>	7	7	7	15	8	37	52	23	10	2	15	4	187
<i>Larus dominicanus</i>	17	14	8	11	18	19	33	18	18	17	29	15	217
<i>novaehollandiae</i>	39	11	4	3	4	7	29	12	8	10	26	12	165
<i>butleri</i>	2	6	2	—	1	1	4	3	—	—	—	—	19
<i>Sterna striata</i>	16	4	5	1	2	—	9	8	3	2	1	3	54
TOTALS	935	228	75	79	131	103	243	276	436	994	1214	1433	6150

TABLE 9 — Seabirds of which 1 to 9 specimens were found dead in 1971. Coast and month of discovery given.

SPECIES OR SUBSPECIES	NUMBER FOUND	COAST(S)	MONTH(S)
<i>Megadyptes antipodes</i>	3	OT(2),WS.	1,5,11.
<i>Eudytes pachyrhynchus</i>	1	CS.	3.
<i>Diomedea epomophora</i>	3	AW,WV,OT.	1,12(2).
<i>bulleri</i>	7	AW(5),WV,CN.	1(3),6,7,8,11.
<i>cauta salvini</i>	9	AW(4),WV,AE,OT,WS(2).	9,11(3),12(5).
<i>eremita</i>	2	WV,BP.	9,12.
<i>Fulmarus glacialisoides</i>	3	AW,CH,OT.	3,7,11.
<i>Pterodroma spp*</i>	4	TA,AE(2),NS.	1(2),5,7.
<i>mollis</i>	1	BP.	11.
<i>brevirostris</i>	2	AW,WV.	9(2).
<i>pycrofti</i>	5	AW(2),AE(3).	1(2),4(2),12.
<i>leucoptera</i>	2	AW,AE.	1,11.
<i>h. nigripennis</i>	1	AW.	1.
<i>Halobaena caerulea</i>	2	AW(2).	1,9.
<i>Pachyptila belcheri</i>	8	AW(5),WV(3).	9(3),10(3),11(2).
<i>crassirostris</i>	2	CS(2).	9(2).
<i>Procellaria spp*</i>	1	AW.	9.
<i>westlandica</i>	1	CN.	5.
<i>aequinoctialis</i>	3	AW(2),WV.	1(3).
<i>Puffinus gavia/huttoni</i>	1	WV.	10.
<i>Oceanites oceanicus</i>	1	AE.	12.
<i>Sula leucogaster</i>	1	AE.	1.
<i>Phalacrocorax spp*</i>	1	NS.	2.
<i>carbo</i>	4	AW(4).	10(3),11.
<i>melanoleucos</i>	5	AW,TA,AE(2),OT.	2(2),3,7,11.
<i>Leucocarbo c. chalconotus</i>	2	OT(2).	3,11.
<i>Fregata ariel</i>	1	AW.	1.
<i>Stercorarius parasiticus</i>	2	AW(2).	11,12.
<i>Larus spp*</i>	1	AE.	12.
<i>Hydroprogne caspia</i>	7	AW(5),AE(2).	1(3),4,10(2),11.
<i>Sterna spp*</i>	1	WV.	9.
<i>fuscata</i>	7	AW(4),WV,AE(2).	1(6),10.
TOTAL	94		

UNUSUAL FINDS

CHATHAM ISLAND MOLLYMAWK *Diomedea cauta eremita*

The two birds recorded from Himitungi Beach (WV) in September and Port Ohope (BP) in December 1971 are the second and third beach patrol records for this species. One specimen was found in August 1964.

SOFT-PLUMAGED PETREL *Pterodroma mollis*

The specimen found on Thornton Beach (BP) in November 1971 is a new record for beach patrolling (Hellyer *et al.* 1973) and the second time this species has been found in New Zealand. The previous record is of one specimen found alive in the Hutt Valley in May 1971 (Kinsky 1971). This species breeds on islands in the temperate zone of the South Atlantic and Indian Oceans. On Antipodes Island it has been seen flying in some numbers after nightfall but not on the ground (Warham & Bell 1979). Since 1971, the number of

sightings at sea near New Zealand has been increasing (Falla 1979). There are now subsequent beach patrolling records of one specimen found in December 1974 (Veitch 1976) and one in June 1978.

FULMAR PRION *Pachyptila crassirostris*

The three birds found in July and August 1970 are the first records of this bird in the Beach Patrol Scheme. There are now subsequent records of two birds found in September 1971, two in July 1973, one in September 1977, and eight in July, August and September 1978.

GREY PETREL *Procellaria cinerea*

The ten birds found in January and September-December 1971 is the greatest number of the species ever recorded. It has been found during most years at an average of 2.4 per year. The next highest number found was six in October and December 1970.

MANX SHEARWATER *Puffinus puffinus*

The specimen found near Pukerua Bay (WW) in June 1972 is a new record for New Zealand (Kinsky & Fowler 1973). This species breeds on islands in the eastern North Atlantic and winters in the south-west Atlantic.

BROWN BOOBY *Sula leucogaster*

The specimen found on Te Werahi Beach (AE) in January 1971 is a new record for beach patrolling. This species probably reaches our northern waters every summer (OSNZ 1970) and one has roosted with Gannets on Horuhoru Rock in the Hauraki Gulf (Sibson 1979).

LESSER FRIGATE BIRD *Fregata ariel*

The specimen found on Ninety Mile Beach (AW) in January 1971 is a new record for beach patrolling. This species straggles southward to New Zealand. There have been at least 13 previous records (OSNZ 1970), presumably of birds seen at sea.

ANTARCTIC SKUA *Stercorarius skua maccormicki*

The specimen found on Dargaville Beach (AW) in October 1972 is a new record for the Beach Patrol Scheme. During winter this species ranges to the north Pacific. There have been five previous records of this bird on the New Zealand mainland.

ACKNOWLEDGEMENTS

During the three years covered by this paper 233 members of the Ornithological Society of New Zealand, and their friends, participated in beach patrol work. All credit is due to them for the results obtained. Those whose names I have are T. Alcock, I. G. Andrew, J. F. Anton, Auckland Team, A. Barker, D. A. Barker, M. Barlow, E. R. Barnicoat, J. A. Bartle, B. D. Bell, D. J. Bettesworth, P. Bidmead, A. Blair, M. Blair, T. & P. Blikendahl, K. R. Bond, A. E. Bright, B. Bright, J. Bright, S. Bright, A. Brown, G. Brown, M. Brown, C. A. Buchanan, M. P.

Buchler, M. F. Bull, P. C. Bull, B. Burns, J. Bysouth, D. E. Calvert, T. Calvert, B. Campbell, L. Campbell, W. J. Campbell, A. Chandler, W. F. Cash, J. F. Castle, C. N. Challies, S. Chamberlin, R. Coltman, C. D. Chinie, H. A. Cook, J. Cook, R. N. Cotter, R. S. Cowan, P. Cox, D. E. & R. Crockett, P. J. Crombie, I. G. Crook, G. Cunliffe, R. Cunningham, M. M. & J. T. Darby, J. & C. Davis, C. Dawidowski, M. E. Douglas, P. Dudding, A. T. Edgar, L. C. Edlin, H. Elder, D. Elliot, B. A. Ellis, B. L. Enting, R. A. Falla, M. L. Falconer, A. J. Fielding, J. A. D. Flack, S. Fogarty, E. Forch, G. Foreman, N. Foster, J. A. Fowler, R. M. Freeth, I. R. Froggat, M. P. Galbraith, R. Galliene, P. Gaze, R. Geden, L. Gilbert, Mr & Mrs Gillespie, R. Gledhill, J. K. H. Godfrey, G. Grant, R. Gray, A. Grimes, P. Grimes, P. Gross, G. Hamel, P. C. Harper, M. Harrison, T. R. & H. A. Harty, C. Hawkins, B. D. Heather, N. R. Hellyer, B. Hibbert, G. Hill, H. W. M. Hogg, R. D. Holcroft, M. Hudson, P. Huse, G. Huxley, M. J. Imber, M. Izard, J. R. Jackson, S. Jenkins, R. Joblin, Kapiti Junats, M. H. R. & A. Kearns, G. Kelly, J. L. Kendrick, A. King, King's College Bird Club, F. C. Kinsky, M. E. Lane, P. C. M. Latham, R. B. Lavers, S. Lawrence, D. A. Lawrie, G. & S. Leary, T. G. Lovegrove, S. D. Lovich, E. Madgwick, R. W. March, A. L. Marfurt, R. Marquand, W. R. Marsden, G. & J. Marshall, B. McBeth, D. G. & J. C. Medway, D. V. Merton, P. J. Miller, M. Mitchell, M. McKellar, M. McKeon, R. V. McLintock, R. Morris, J. S. Morrison, R. & M. Morse, D. Munro, G. B. Munro, M. Munro, J. M. Neilson, C. C. Nicholls, G. M. Nilsson, B. Nolan, F. Nolan, J. F. O'Brien, D. O'Halloran, M. O'Shea, D. Palmer, J. Parker, T. Patete, C. Paulin, W. J. Pengelly, A. Percival, J. Peterson, R. J. Pierce, B. Pike, S. E. Quin, W. Ramsay, S. Reed, P. Rider, P. E. & H. A. Roberts, C. J. R. Robertson, H. A. Robertson, M. M. H. Robertson, R. D. S. Robertson, B. Robins, G. P. Robinson, S. P. Robinson, G. Roe, G. Salter, E. K., S. & T. Saul, B. Scahill, P. Schweigman, R. B. Sibson, R. S. Slack, A. Smith, D. Smith, P. G. Smith, J. C. Smuts-Kennedy, R. R. Sutton, T. C. L. & E. M. Symmes, C. J. Templer, D. J. Tisdall, M. Toop, O. C. Torr, S. M. Towle, C. Truman, S. Tymon, R. Ussher, C. Vooren, M. Waller, O. M. Walter, P. J. Walter, B. Warburton, G. Watola, G. Welsh, I. M. & J. West, R. M. Weston, D. Whyte, N. Wigram, T. Wilkins, M. Willis, R. & T. Winkle, G. Woodward, D. Worthington, T. Worthy, A. Wright, K. Wright, C. Wynn.

E & O E

I am also indebted to B. D. Heather and P. E. Roberts for critically reading this manuscript.

TABLE 10 — Numbers of dead seabirds recorded and kilometres patrolled on each coast in 1972.

COAST	CODE	MONTH												TOTALS		BIRDS/KM /COAST	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	KM	BIRDS		
AUCKLAND WEST	AW	KM	43	109	40	50	77	119	116	71	188	90	95	95	1093	1505	1.38
		BIRDS	176	148	57	37	109	142	149	95	233	134	114	111			
TARANAKI	TA	KM	10	10	5	3	2	2	8	19	—	2	2	5	66	58	0.68
		BIRDS	16	11	10	0	1	0	2	11	—	0	3	4			
WELLINGTON WEST	WW	KM	5	13	18	85	48	119	77	72	109	69	11	42	668	1277	1.91
		BIRDS	8	23	4	148	42	306	96	40	294	207	70	39			
WESTLAND	WD	KM	2	—	2	3	5	—	—	—	—	—	—	12	10	0.83	
		BIRDS	8	—	0	1	1	—	—	—	—	—	—				
AUCKLAND EAST	AE	KM	31	47	16	5	47	6	39	114	10	14	16	18	363	443	1.22
		BIRDS	45	74	17	1	16	2	27	183	5	35	15	23			
BAY OF PLENTY	BP	KM	16	—	—	—	—	—	11	—	—	—	—	27	59	2.19	
		BIRDS	19	—	—	—	—	—	40	—	—	—	—				
EAST COAST NORTH IS	EC	KM	—	5	—	3	—	5	—	—	3	—	—	16	4	0.25	
		BIRDS	—	3	—	1	—	0	—	—	0	—	—				
CANTERBURY NORTH	CN	KM	8	14	10	16	34	14	6	6	—	6	—	114	196	1.72	
		BIRDS	29	54	29	17	58	6	1	1	—	1	—				
CANTERBURY SOUTH	CS	KM	2	—	2	—	5	3	6	8	18	8	2	5	59	45	0.76
		BIRDS	1	—	12	—	2	0	2	1	2	3	2	20			
OTAGO	OT	KM	—	—	5	8	2	5	2	—	—	—	2	3	27	138	5.11
		BIRDS	—	—	1	4	6	105	1	—	—	—	8	13			
SOUTHLAND	SD	KM	5	8	8	6	2	6	6	—	6	6	13	6	72	134	1.86
		BIRDS	4	15	4	4	11	7	4	—	14	32	11	28			
WELLINGTON SOUTH	WS	KM	—	—	—	18	—	82	47	14	13	32	3	3	212	171	0.81
		BIRDS	—	—	—	20	—	83	36	1	24	5	0	2			
NORTH COAST SOUTH IS	NS	KM	—	6	5	—	—	—	—	6	—	2	—	19	6	0.32	
		BIRDS	—	3	2	—	—	—	—	0	—	1	—				
TOTAL KM TRAVELLED			156	257	126	243	249	484	370	336	431	237	146	212	3247		
TOTAL KM COVERED			122	212	111	197	212	362	319	312	348	230	143	177	2748		
TOTAL BIRDS RECORDED			306	331	136	233	246	651	358	332	572	418	223	240	4046		
BIRDS/KM COVERED/MONTH			2.50	1.56	1.23	1.18	1.16	1.80	1.12	1.06	1.64	1.82	1.56	1.36		1.47	

No patrols were reported from Wairarapa, Fiordland or Outlying Islands.

TABLE 11 — Coastal distribution of the more common seabirds found dead in 1972.

SPECIES OR SUBSPECIES	AW	TA	WW	WD	AE	BP	COAST			OT	SD	WS	NS	TOTAL BIRDS
							EC	CH	CS					
Megadyptes antipodes	—	1	17	—	—	—	—	—	—	6	—	—	25	50
Eudypetula minor	197	2	38	—	83	—	—	1	—	4	11	—	5	350
Diomedea spp*	5	—	10	—	1	—	—	—	—	—	—	—	2	21
melanophris	8	—	1	—	—	—	—	—	—	—	1	—	1	19
cauta subsp*	5	—	3	—	2	—	—	—	—	—	—	—	1	10
cauta	11	—	4	—	—	—	—	—	1	—	—	—	2	20
Phoebastria paleobrata	3	—	—	—	7	—	—	—	—	1	—	—	—	10
Macronectes giganteus	31	2	16	1	11	—	—	—	—	1	—	—	—	66
Daption capensis	18	—	16	1	4	—	—	—	—	—	3	—	6	48
Pterodroma macrotpera	9	2	—	—	1	2	—	—	—	—	—	—	—	14
jessoni	30	—	5	2	2	—	—	—	—	—	—	—	—	39
ineaplectata	11	—	—	—	—	—	—	—	—	—	—	—	—	12
Pachyptila spp*	150	3	214	—	24	36	—	—	—	—	—	—	—	428
vitata	12	1	17	—	—	—	—	—	—	1	14	—	2	62
salvini	11	—	11	—	4	—	—	—	—	—	—	—	—	26
desolata	12	—	8	—	3	1	—	—	—	—	—	—	—	24
belcheri	11	—	2	—	3	—	—	—	—	—	—	—	—	17
turtur	173	1	374	1	94	9	—	—	3	2	20	—	1	682
Puffinus spp*	1	—	3	—	1	—	—	—	—	—	—	—	—	11
carneipes	20	—	—	—	18	—	—	—	—	—	—	—	—	38
bulleri	46	—	7	—	17	—	—	—	—	—	—	—	1	74
griseus	230	7	62	3	20	—	—	1	35	2	1	—	9	398
tenuirostris	69	—	17	—	2	—	—	—	11	—	23	—	—	112
gavia	117	7	161	—	34	—	—	—	—	—	—	—	18	339
huttoni	10	—	12	—	—	—	—	—	—	—	—	—	—	27
Pelecanoides urinatrix	63	3	122	—	31	8	—	—	—	9	—	—	7	243
Sula bassana	110	1	13	—	25	1	—	1	1	—	—	—	3	157
Phalacrocorax varius	6	—	—	—	3	—	—	—	—	—	—	—	—	10
Leucocarbo c. chalconotus	—	—	—	—	—	—	—	—	—	10	8	—	—	18
Stictocarbo punctatus	4	—	13	1	1	—	—	—	13	99	4	—	2	169
Larus dominicanus	62	8	81	1	8	—	—	—	20	4	3	—	49	231
Larus novaezelandiae	12	14	17	—	29	—	—	1	16	3	5	—	8	110
bulleri	—	—	8	—	—	—	—	—	4	1	—	—	—	16
stria	14	7	11	—	3	—	—	—	6	1	—	—	2	44
TOTALS	1461	58	1253	9	431	57	4	193	44	136	129	164	6	3945

TABLE 12 — Monthly distribution of the more common seabirds found dead in 1972.

SPECIES OR SUBSPECIES	MONTH												TOTAL BIRDS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
<i>Megadyptes antipodes</i>	—	—	—	—	1	35	7	—	—	—	1	6	50
<i>Eudyptula minor</i>	20	50	20	17	15	51	34	57	36	18	8	24	350
<i>E. albosianata</i>	6	3	4	1	4	1	1	1	10	2	—	—	21
<i>Diomedea</i> spp*	—	1	—	—	—	4	1	1	1	1	1	—	19
<i>melanophris</i>	—	—	—	1	3	1	2	2	1	1	—	—	10
<i>cauta</i> subspp*	—	—	—	2	3	4	2	2	1	1	3	—	20
<i>cauta</i>	—	—	1	2	3	4	2	6	1	1	—	—	20
<i>Phoebastria palpebrata</i>	—	—	—	—	4	9	6	11	18	5	5	2	66
<i>Macronectes giganteus</i>	2	2	—	—	—	5	4	11	13	9	4	2	48
<i>Daption capensis</i>	2	3	2	—	1	1	4	11	13	7	7	—	44
<i>Pterodroma macroptera</i>	3	1	—	1	5	5	1	2	7	5	7	—	39
<i>lessoni</i>	3	3	2	—	—	3	—	—	—	—	—	—	12
<i>inexpectata</i>	—	6	1	3	3	10	82	46	144	91	33	10	428
<i>Pachyptila</i> spp*	4	2	1	1	2	5	2	5	4	4	1	—	26
<i>vitata</i>	—	—	—	1	2	6	6	3	4	1	1	—	24
<i>salvini</i>	—	—	—	5	10	4	4	4	2	—	—	—	17
<i>desolata</i>	—	—	—	—	—	—	—	—	—	—	—	—	—
<i>belcheri</i>	—	—	—	—	—	—	—	—	—	—	—	—	—
<i>turtur</i>	22	16	2	58	10	26	65	101	198	130	33	21	682
<i>Puffinus</i> spp*	1	2	2	—	1	2	—	2	1	—	—	—	11
<i>Carnaipes</i>	5	16	4	4	—	—	—	—	—	—	2	6	38
<i>Bulleri</i>	15	8	2	2	8	1	1	—	3	12	15	9	74
<i>griseus</i>	78	61	16	16	38	49	6	2	4	25	53	46	398
<i>tenuirostris</i>	34	17	12	—	13	—	—	—	—	16	11	18	112
<i>Gavia</i>	16	37	15	19	10	129	27	26	27	12	10	11	339
<i>huttoni</i>	3	3	—	—	2	—	1	—	6	2	2	5	27
<i>Pelecanoides urinatrix</i>	37	16	—	22	7	31	18	11	16	16	7	12	243
<i>Sula bassana</i>	16	14	7	8	14	20	22	11	15	17	2	11	157
<i>Phalacrocorax varius</i>	—	5	1	—	2	—	—	1	—	—	1	—	10
<i>Leucocorax c. chalconotus</i>	9	15	8	—	5	11	—	—	—	1	1	—	18
<i>Siticorax punctatus</i>	6	22	16	37	32	41	29	6	30	11	5	6	189
<i>Larus dominicanus</i>	11	19	10	5	15	14	15	6	5	4	3	3	110
<i>novaehollandiae</i>	—	1	3	2	1	3	—	—	2	3	—	1	16
<i>bulleri</i>	—	8	4	7	5	7	2	2	—	—	1	1	44
<i>Sterna striata</i>	8	4	—	—	—	—	—	—	—	—	—	—	—
TOTALS	301	326	132	228	241	635	353	327	551	408	213	230	3945

TABLE 13—Miscellaneous birds recorded but not considered to be seabirds.

	1970	1971	1972
<i>Ardea novaehollandiae</i>	1	2	1
<i>Egretta sacra</i>	—	2	—
<i>Anser spp*</i>	3	—	—
<i>Cygnus atratus</i>	8	7	21
<i>Tadorna variegata</i>	—	—	1
<i>Anas spp*</i>	2	—	—
<i>chlorotis</i>	—	—	1
<i>superciliosa</i>	1	3	4
<i>platyrhynchos</i>	1	4	9
<i>rhynchotis</i>	2	1	1
<i>Circus approximans</i>	—	3	8
<i>Synoicus ypsilophorus</i>	—	1	—
<i>Lophortyx californica</i>	—	1	1
<i>Phasianus colchicus</i>	—	—	1
<i>Porphyrio melanotus</i>	2	1	4
<i>Haematopus finschi</i>	2	7	11
<i>unicolor</i>	2	1	2
<i>Charadrius bicinctus</i>	—	1	—
<i>obscurus</i>	—	1	—
<i>Limosa lapponica</i>	1	—	—
<i>Calidris canutus</i>	—	1	—
<i>Himantopus leucocephalus</i>	1	1	—
<i>Hemiphaga novaeseelandiae</i>	—	1	2
<i>Columba livia</i>	11	10	13
<i>Ninox novaeseelandiae</i>	2	1	2
<i>Chaetura caudocuta</i>	—	2	—
<i>Halcyon sancta vagans</i>	4	—	—
<i>Alauda arvensis</i>	—	1	1
<i>Turdus philomelos</i>	3	1	10
<i>merula</i>	7	4	17
<i>Anthus novaeseelandiae</i>	—	—	1
<i>Prosthemadera novaeseelandiae</i>	—	2	—
<i>Zosterops lateralis</i>	—	—	1
<i>Chloris chloris</i>	—	—	1
<i>Carduelis carduelis</i>	—	—	1
<i>Fringilla coelebs</i>	—	—	1
<i>Emberiza citrinella</i>	—	—	1
<i>Passer domesticus</i>	—	1	1
<i>Sturnus vulgaris</i>	—	3	4
<i>Acridotheres tristis</i>	—	2	—
<i>Gymnorhina spp*</i>	23	13	13
TOTALS	76	78	134

TABLE 14 — Seabirds of which 1 to 9 specimens were found dead in 1972. Coast and month of discovery given.

SPECIES OR SUBSPECIES	NUMBER FOUND	COAST(S)	MONTH(S)
<i>Eudyptes pachyrhynchus</i>	2	SD, WW.	3, 4.
<i>Diomedea exulans</i>	6	AW(2), WW(2), AE, SD.	6(3), 7, 10, 12.
<i>epomophora</i>	7	AW(3), WW(3), WS.	4, 6(3), 7, 9, 11.
<i>chrysostoma</i>	9	AW(4), WW(4), AE.	6, 8, 9(4), 10(2), 12.
<i>bulleri</i>	2	AW, SD.	6, 11.
<i>cauta salvini</i>	8	AW(2), AE, CH, OT, WS(3).	3, 4, 7(2), 9(2), 10, 11.
<i>Fulmarus glacialisoides</i>	5	AW(2), WW(3).	10(4), 11.
<i>Pterodroma</i> spp*	1	AW.	5.
<i>brevirostris</i>	6	AW(3), WW(3).	8(2), 9(4).
<i>cooki</i>	5	AW(3), AE(2).	2, 4, 12(3).
<i>Halobaena caerulea</i>	8	AW(7), WW.	9(5), 10, 11(2).
<i>Procellaria</i> spp*	3	AW(2), AE.	8, 9(2).
<i>cinerea</i>	1	BP.	1.
<i>parkinsoni</i>	2	AW(2).	9, 12.
<i>westlandica</i>	2	AW, WD.	4, 6.
<i>aequinoctialis</i>	3	AW(2), SD.	1, 2, 3.
<i>Puffinus puffinus</i>	1	WW.	6.
<i>assimilis</i>	4	AW(4).	1, 3, 11, 12.
<i>Pelagodroma marina</i>	4	AE(3), BP.	1(2), 2(2).
<i>Phalacrocorax carbo</i>	7	WW(3), CS, SD, WS(2).	2, 5, 6, 7, 9, 12(2).
<i>sulcirostris</i>	2	AW, OT.	6(2).
<i>melanoleucos</i>	2	WW, AE.	6, 11.
<i>Stercorarius skua lonnbergi</i>	1	AW.	12.
<i>maccormicki</i>	1	AW.	10.
<i>Larus</i> spp*	1	WS.	6.
<i>Hydroprogne caspia</i>	8	AW(2), WW(2), AE(2) CH(2), 5(3), 6, 8, 9, 11(2).	
TOTAL	101		

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