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**REPORT ON BIRD BANDING
IN NEW ZEALAND
1991-1992**

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1991-1992**

by

Roderick O Cossee

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ABSTRACT

During the 1991/92 banding year 22,869 birds of 95 species were banded and 148 previously banded birds were re-banded, bringing the grand total of individual birds banded in New Zealand over the years since 1950 to 1,105,994. Two species previously not banded, Wandering Tattler and North Island Kaka, were banded during the year. A total of 3277 recoveries were added to the computer files. Bird banding supported a large variety of research projects and was regulated by 26 individual permits and 34 institutional/group permits.

1 INTRODUCTION

Bird banding (ringing) is recognised worldwide as an important research tool for both amateur and professional ornithologists. In New Zealand it has been recognised officially as such since 1950, when the Ornithological Society of New Zealand started the first organised scheme. The Department of Internal Affairs soon followed with its own scheme for game bird species. The New Zealand National Banding Scheme as it exists today was initiated in 1967, when the two then existing schemes (run by the Dominion Museum and the New Zealand Wildlife Service respectively) were joined together. Between 1967 and 1987 the scheme was run under the auspices of the Wildlife Service. In 1987 the New Zealand National Banding Scheme was taken over by the Department of Conservation and is now operated and maintained by their Science & Research Division.

The objective of the scheme is to accurately record information about life expectancy and movements of birds. Apart from its value in understanding bird biology, such knowledge is essential for the effective conservation of native species and for management of game birds, as well as for the control of those species that are considered a nuisance.

This report summarises the bird banding activity in New Zealand during the 1991/92 banding season and gives details of some interesting recoveries. Appendix 1 lists some of the research projects which were serviced by the Banding Scheme.

2 METHODS

The totals given are for the period between 1 April 1991 and 31 March 1992. They may include some records for birds banded in previous years, however, as schedules not received in time for inclusion in the 1990/91 report have been included. Similarly, totals relating to the present report year, which were received after the cut-off date for this report, were omitted. Previously banded birds which were re-banded during the year are not included in the totals, nor in Table 1. Details on re-banded birds can be found in Tables 2 and 4.

The naming and order of species in this report is based on the Annotated Checklist of the Birds of New Zealand (1970 and subsequent amendments and additions). The Ornithological Society of New Zealand published an updated version of the Checklist of the Birds of New Zealand in 1990. The order of species in this new version differs markedly from the earlier published checklists. For the sake of continuity as well as to avoid reprogramming of existing computer programmes we have decided to adhere to the previous edition.

The species code numbers are those used under the Banding Scheme.

Numbers in open brackets are provisional totals and are lower than the actual number banded. This is because actual figures for birds banded during the early years of banding under the Department of Internal Affairs are not known. Figures in square brackets indicate birds banded as an unknown species of a particular genus. These latter are included in Table 1 as they contribute to the total number of birds banded. They are not included in the total number of species banded.

3 RESULTS

During the 1991/92 banding season 22,869 birds of 95 species were banded and 148 previously banded birds were re-banded. Non-game species contributed 20,115 (88%) and game species 2,754 (12%) to the new birds banded. During this report season there was again a decline in the number of game birds banded. Numbers fell from 3,584 in 1990/91 to the present 2,754, a decline of just over 23%. The number of non-game birds increased by 19.3% in comparison with the previous year.

The total number of birds banded in New Zealand increased to 1,105,994 (previously 1,083,125). Of these birds 163,256 (14.8%) have been recovered at least once, while many of them have been recovered on multiple occasions.

The total number of species banded during the existence of the Scheme increased by two to 231, with Wandering Tattler and North Island Kaka being banded for the first time.

The numbers banded for each species are given in Table 1. It should be noted that re-banded birds have been omitted from this table.

Table 2 summarises by age and sex the birds banded during the 1991/92 season. Also included in this table are the 148 birds that were re-banded during the year. They can be found under the heading 'RB'. These birds are included to illustrate the overall banding effort.

Bird banding supported a great number of research and management projects. These are listed in Appendix 1. Numbers in brackets after the project titles are the actual permit numbers.

3 RECOVERIES

A total of 3,277 recoveries were coded and added to the database. Not all these recoveries were received during the report year. A number of these records go back to previous years and are mostly operator recoveries. There is a steadily growing backlog in data input, especially in the non-game sector of these recoveries. All data entry is now done in the Banding Office, while previously this was done by outside agencies.

A large number of recoveries were reported by the general public. The handling of these recoveries has precedence over other recoveries. Where possible, they are dealt with on the day of receipt. All finders are informed of the relevant banding details and receive some additional information on the New Zealand National Banding Scheme. Maximum required turnover time for public recoveries is ten days but even during the hunting season staff managed to process recoveries within a week of receipt.

The Banding Scheme plays a major role as an interface with the public. A quick and efficient response enhances the chance of members of the public sending in bands, as well as keeping up the standing of the Department. As mentioned in a previous report, the New Zealand National Banding Scheme has the fastest response time for public recoveries in the world as well as the highest recovery rate!

Of the 3,277 recoveries processed during the year 1,612 records (49.2%) were for birds recovered dead and 1,665 (50.8%) for birds recovered alive (either actively caught or sight recoveries of birds with individual colour combinations or readable bands). Of all these recoveries 1,124 birds (34.2%) were recovered at least once before.

Of the 1,612 birds recovered dead 1,344 (83.4%) were game and 268 (16.6%) were non-game species. The 1,665 live recoveries consisted of 256 (15.4%) game and 1,409 (84.6%) non-game birds.

The 1,124 repeat recoveries were made up of 339 (30.2%) game and 785 (69.8%) non-game species.

Dead and live recoveries combined for each species group are 1,600 (48.8%) and 1,677 (51.2%) respectively.

At the time of writing the computer files hold records for 163,256 individual birds. The total number of recoveries of these individuals including many re-traps stands at 259,903.

Some notable recoveries are listed below.

Two Northern Royal Albatrosses (*Diomedea epomophora sanfordi*) were recovered at sea in Chile. R-29705 was banded as a chick on 27/9/74 on the Chathams. It was caught in fishing gear off the coast of San Antonio in 1975, the band was removed and the bird released unharmed. This recovery was only recently forwarded to us.

The second bird, R-32148 was found ill near Valparaiso in August 1992. The bird was brought to the Quilpue Zoo; its fate is not known.

Southern Royal Albatross (*Diomedea epomophora epomophora*) R-37156 was banded as a chick on Campbell Island on 19/10/77. It died after flying into the antenna of a fishing vessel at sea north-west of the Falkland islands on 17/8/92.

Over the years 249 Black Petrel (*Procellaria parkinsoni*) chicks have been transferred from Great Barrier to Little Barrier to boost the severely depleted colonies there. Although the success of the operation will not be known until 1994 or 1985, several of the birds have been recovered away from the colonies. H-26987 was transferred to Little Barrier on 10/5/86. It was caught by a fishing vessel off the coast of Paita, Peru in December 1991 and died in the process .

D-134232 a South Island Saddleback (*Philesturnus carunculatus carunculatus*) is another transfer bird. It was originally caught as an adult male on Kaimohu Island and subsequently banded and transferred to Kundy Island on 26/1/78. It was recovered alive on Kundy on 5/3/92.

House Sparrow (*Passer domesticus*) B-43893 was caught as an adult male on 18/3/92 at Ward. It travelled to Picton and was killed by a cat on 28/7/92.

L-27544, an Australasian Harrier (*Circus approximans*) banded on 24/3/92 as an adult male in Greytown, was killed by a car in Ashburton on 4/4/92.

A Southern Black-backed Gull (*Larus dominicanus dominicanus*) banded as a pullus (chick) on Somes Island, Wellington Harbour on 28/12/91 was found dead on the beach at Waihou Bay near Cape Runaway in March 1992.

A number of Australian-banded Knots (*Calidris canutus canutus*) were retrapped in the Firth of Thames on 4/7/92. The birds originated from Western Australia, Victoria and Queensland.

Another Knot, C-45638, was banded as an adult on 3/11/90 at Miranda. It travelled all the way to Miaogang Nanhui County, Shanghai, China, and was shot by a hunter.

Finally, Eastern Bar-tailed Godwit (*Limosa lapponica baueri*) Y-3844, which was banded as an adult on 17/12/88 on the Kaipara Harbour, was shot on 12/5/91 in the Northern part of Bering Island, Kamchatka.

The leg-flagging schemes along the East-Asian and Australasian flyways are producing interesting results. In a previous report I mentioned recoveries of New Zealand flagged waders overseas. Here I report some sightings of Victoria banded (and leg-flagged) Bar-tailed Godwits from Karaka, South Manakau Harbour and Miranda, Firth of Thames. Until 1992 there were no recorded movements of this species between Victoria and New Zealand.

Knots have been reported on many occasions from Whangarei, Miranda, the Manawatu Estuary and as far south as Yarrs Flat, Lake Ellesmere. It is now proven that Red-necked Stints (*Calidris ruficollis*) use Australia as a staging post on their way to their wintering spots in New Zealand. Flagged stints were seen on at least five occasions around Lake Ellesmere. The co-operation between the banding schemes along the flyways is very important and the above mentioned results show that the flagging schemes are successful and will provide us with more knowledge and understanding of the migration of many of our birds.

5 REQUESTS FOR INFORMATION

The New Zealand National Banding Scheme has serviced a range of requests for information and analyses in 1990-91, both national and international. Amongst these were an analysis of movements of waterbirds between the North and South Island. Life expectancy analyses were done for several game species. Extensive information on dispersal of Australasian Gannets and various Albatrosses was provided to several researchers in Australia. Raptor and seabird movements were supplied on several occasions and many requests for information on Blue Penguins were honoured.

6 ACKNOWLEDGEMENTS

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TABLE 1
GENERAL BANDING TOTALS
(REBANDS EXCLUDED)

SPECIES NUMBER AND NAME	TOTAL PRE 1991	TOTAL 91/92	TOTAL FOR ALL YEARS
001 NORTH ISLAND BROWN KIWI	332	0	332
002 SOUTH ISLAND BROWN KIWI	4	0	4
003 STEWART ISLAND BROWN KIWI	21	0	21
004 LITTLE SPOTTED KIWI	143	0	143
012 YELLOW-EYED PENGUIN	3942	432	4374
026 NORTHERN BLUE PENGUIN	615	0	615
014 COOK STRAIT BLUE PENGUIN	2017	71	2088
016 WHITE-FLIPPED BLUE PENGUIN	11539	640	12179
015 SOUTHERN BLUE PENGUIN	726	177	903
027 CHATHAM ISLAND BLUE PENGUIN	15	0	15
017 ROCKHOPPER PENGUIN	2404	1	2405
019 FIORDLAND CRESTED PENGUIN	619	23	642
020 SNARES CRESTED PENGUIN	2179	0	2179
021 ERECT-CRESTED PENGUIN	43	0	43
041 WANDERING ALBATROSS	3003	198	3201
044 NORTHERN ROYAL ALBATROSS	2482	322	2804
043 SOUTHERN ROYAL ALBATROSS	32671	22	32693
045 BLACK-BROWED MOLLYMAWK	13	0	13
046 NEW ZEALAND BLACK-BROWED MOLLYMAWK	22518	0	22518
047 GREY-HEADED MOLLYMAWK	6382	7	6389
049 BULLER'S MOLLYMAWK	2102	174	2276
050 WHITE-CAPPED (SHY) MOLLYMAWK	561	0	561
052 SALVIN'S MOLLYMAWK	1296	0	1296
051 CHATHAM ISLAND MOLLYMAWK	2	0	2
054 LIGHT-MANTLED SOOTY ALBATROSS	437	0	437
109 NORTHERN GIANT PETREL	1239	0	1239
061 SOUTHERN GIANT PETREL	7	0	7
064 ANTARCTIC FULMAR	2	0	2
063 SNARES CAPE PIGEON	873	0	873
062 CAPE PIGEON	6800	0	6800
093 GREY-FACED PETREL	17375	1740	19115
094 WHITE-HEADED PETREL	31	0	31
095 WHITE-NAPED PETREL	516	0	516
098 MOTTLED PETREL	418	0	418
110 SOFT-PLUMAGED PETREL	20	0	20
100 KERMADEC PETREL	950	106	1056
111 CHATHAM ISLAND TAIKO	41	6	47
101 PYCROFT'S PETREL	642	0	642
102 GOULD'S PETREL	1	0	1
104 COOK'S PETREL	327	4	331
106 BLACK-WINGED PETREL	2768	50	2818
105 CHATHAM ISLAND PETREL	48	1	49
065 BLUE PETREL	1	0	1
066 BROAD-BILLED PRION	1590	0	1590
069 ANTARCTIC PRION	20	0	20
071 AUCKLAND ISLAND PRION	24	0	24
072 NARROW-BILLED PRION	1	0	1
073 FAIRY PRION	43592	0	43592

SPECIES NUMBER AND NAME	TOTAL PRE 1991	TOTAL 91/92	TOTAL FOR ALL YEARS
075 FULMAR PRION	61	0	61
074 CHATHAM FULMAR PRION	2	0	2
089 GREY PETREL	8	0	8
090 BLACK PETREL	846	104	950
091 WESTLAND BLACK PETREL	3477	221	3698
092 WHITE-CHINNED PETREL	31	0	31
077 FLESH-FOOTED SHEARWATER	1749	33	1782
078 WEDGE-TAILED SHEARWATER	461	0	461
079 BULLER'S SHEARWATER	1049	0	1049
080 SOOTY SHEARWATER	6728	93	6821
115 CHRISTMAS ISLAND SHEARWATER	1	0	1
082 FLUTTERING SHEARWATER	1787	0	1787
083 HUTTON'S SHEARWATER	1134	0	1134
084 NORFOLK ISLAND LITTLE SHEARWATER	1	0	1
085 KERMADEC LITTLE SHEARWATER	354	0	354
086 NORTH ISLAND LITTLE (ALLIED) SHEARWATER	500	0	500
087 SUBANTARCTIC LITTLE SHEARWATER	5	0	5
--- PRION SPECIES	[4]	0	[4]
121 LEACH'S FORK-TAILED PETREL	1	0	1
123 GREY-BACKED STORM PETREL	775	1	776
124 WHITE-FACED STORM PETREL	6575	0	6575
125 KERMADEC STORM PETREL	1	0	1
126 BLACK-BELLIED STORM PETREL	6	0	6
127 WHITE-BELLIED STORM PETREL	25	0	25
131 NORTHERN DIVING PETREL	7139	0	7139
133 SUBANTARCTIC DIVING PETREL	19	0	19
132 SOUTHERN DIVING PETREL	104	0	104
135 DIVING PETREL (SP.)	1	0	1
--- PETREL SPECIES	[1]	0	[1]
141 RED-TAILED TROPIC BIRD	119	0	119
142 WHITE-TAILED TROPIC BIRD	13	0	13
161 AUSTRALASIAN GANNET	16484	1429	17913
162 BROWN BOOBY	1	0	1
163 MASKED (BLUE-FACED) BOOBY	445	1	446
171 BLACK SHAG	522	0	522
172 PIED SHAG	168	0	168
173 LITTLE BLACK SHAG	954	1	955
174 LITTLE (WHITE-THROATED) SHAG	116	0	116
176 STEWART ISLAND SHAG	2	0	2
179 AUCKLAND ISLAND SHAG	154	0	154
180 CAMPBELL ISLAND SHAG	66	0	66
182 SPOTTED SHAG	457	8	465
216 WHITE-FACED HERON	14	0	14
213 WHITE HERON	2	0	2
215 REEF HERON	52	3	55
220 CATTLE EGRET	1	0	1
218 BITTERN	7	0	7
233 ROYAL SPOONBILL	11	6	17
242 MUTE SWAN	4	0	4
243 BLACK SWAN	(59980)	0	(59980)
241 CANADA GOOSE	(53977)	167	(54144)
245 PARADISE SHELDUCK	(68906)	0	(68906)

SPECIES NUMBER AND NAME	TOTAL PRE 1991	TOTAL 91/92	TOTAL FOR ALL YEARS
252 MALLARD	(89954)	0	(89954)
259 HYBRID MALLARD (CROSS)	(1761)	0	(1761)
251 GREY DUCK	(34225)	0	(34225)
247 GREY TEAL	(1490)	0	(1490)
248 BROWN TEAL	(1746)	51	(1797)
249 AUCKLAND ISLAND TEAL	45	0	45
250 CAMPBELL ISLAND TEAL	3	0	3
253 NEW ZEALAND SHOVELER	(4494)	0	(4494)
254 BLUE DUCK	(202)	27	(229)
256 NEW ZEALAND SCAUP	(107)	6	(113)
--- DUCK (GREY OR MALLARD)	[(13)]	0	[(13)]
272 AUSTRALASIAN HARRIER	4657	223	4880
281 NEW ZEALAND FALCON	47	0	47
296 CHUKOR	2182	35	2217
299 RED-LEGGED PARTRIDGE	18162	2065	20227
300 RED-LEGGED PARTRIDGE (HYBRID)	42	0	42
298 GREY PARTRIDGE	(14215)	0	(14215)
292 BROWN QUAIL	18	0	18
295 CALIFORNIA QUAIL	(12204)	1	(12205)
293 PHEASANT	(57990)	467	(58457)
331 BANDED RAIL	32	0	32
335 NORTH ISLAND WEKA	3474	0	3474
336 WESTERN WEKA	450	0	450
337 BUFF WEKA	31	0	31
338 STEWART ISLAND WEKA	781	0	781
340 MARSH CRAKE	5	0	5
341 SPOTLESS CRAKE	23	0	23
342 PUKEKO	1880	19	1899
343 NOTORNIS	204	82	286
--- WEKA SPECIES	[1]	0	[1]
401 SOUTH ISLAND PIED OYSTERCATCHER	1502	128	1630
402 VARIABLE OYSTERCATCHER	288	0	288
404 CHATHAM ISLAND OYSTERCATCHER	93	0	93
403 (BLACK OYSTERCATCHER)	101	0	101
411 SPUR-WINGED PLOVER	630	0	630
413 LEAST GOLDEN PLOVER (PACIFIC GOLDEN PLOVER)	4	0	4
418 NEW ZEALAND DOTTEREL	390	96	486
415 BANDED DOTTEREL	3913	75	3988
422 BLACK-FRONTED DOTTEREL	72	0	72
419 NEW ZEALAND SHORE PLOVER	433	0	433
420 WRYBILL	2428	14	2442
445 EASTERN BAR-TAILED GODWIT	469	77	546
449 WANDERING TATTLER	0	1	1
451 TURNSTONE	13	5	18
453 CHATHAM ISLAND SNIPE	150	0	150
454 SNARES ISLAND SNIPE	274	0	274
458 KNOT	2833	101	2934
461 CURLEW SANDPIPER	4	0	4
462 RED-NECKED STINT	1	0	1
481 PIED STILT	883	142	1025
482 BLACK STILT	125	4	129
511 SOUTHERN GREAT SKUA	1578	0	1578

SPECIES NUMBER AND NAME	TOTAL PRE 1991	TOTAL 91/92	TOTAL FOR ALL YEARS
512 ANTARCTIC SKUA	2414	0	2414
514 ARCTIC SKUA	1	0	1
521 SOUTHERN BLACK-BACKED GULL	69298	1022	70320
523 RED-BILLED GULL	89540	749	90289
524 BLACK-BILLED GULL	37092	0	37092
527 CASPIAN TERN	5435	34	5469
525 BLACK-FRONTED TERN	1372	0	1372
529 ANTARCTIC TERN	158	0	158
531 FAIRY TERN	9	5	14
532 WHITE-FRONTED TERN	23396	204	23600
533 SOOTY TERN	14654	0	14654
534 COMMON NODDY	4	0	4
535 WHITE-CAPPED NODDY	26	0	26
536 WHITE TERN	3	0	3
537 GREY TERNLET	190	0	190
551 NEW ZEALAND PIGEON	172	2	174
552 CHATHAM ISLAND PIGEON	10	11	21
553 ROCK PIGEON	60	0	60
554 MALAY SPOTTED DOVE	2	8	10
555 BARBARY DOVE	1	0	1
561 KAKAPO	80	1	81
562 NORTH ISLAND KAKA	0	20	20
563 SOUTH ISLAND KAKA	63	6	69
564 KEA	1366	43	1409
566 EASTERN ROSELLA	2	0	2
572 ANTIPODES ISLAND PARAKEET	69	0	69
567 KERMADEC PARAKEET	7	0	7
568 RED-CROWNED PARAKEET	759	9	768
569 CHATHAM IS. RED-CROWNED PARAKEET	1	0	1
570 REISCHECK'S PARAKEET	56	0	56
573 YELLOW-CROWNED PARAKEET	110	23	133
574 CHATHAM ISLAND YELLOW-CROWNED PARAKEET	9	0	9
583 SHINING CUCKOO	70	1	71
584 LONG-TAILED CUCKOO	4	0	4
601 MOREPORK	50	1	51
604 LITTLE OWL	16	0	16
621 NEW ZEALAND KINGFISHER	240	12	252
641 NORTH ISLAND RIFLEMAN	150	0	150
642 SOUTH ISLAND RIFLEMAN	1101	2	1103
646 ROCK WREN	9	0	9
651 SKYLARK	37	5	42
662 WELCOME SWALLOW	321	41	362
741 NEW ZEALAND PIPIT	46	1	47
731 HEDGESPARROW	2174	135	2309
701 NORTH ISLAND FERNBIRD	34	0	34
702 SOUTH ISLAND FERNBIRD	257	0	257
703 STEWART ISLAND FERNBIRD	27	0	27
706 SNARES FERNBIRD	152	0	152
711 BROWN CREEPER	297	0	297
712 WHITEHEAD	345	18	363
713 YELLOWHEAD	124	9	133
714 GREY WARBLER	1031	21	1052

SPECIES NUMBER AND NAME	TOTAL PRE 1991	TOTAL 91/92	TOTAL FOR ALL YEARS
715 CHATHAM ISLAND WARBLER	74	0	74
681 NORTH ISLAND FANTAIL	617	14	631
682 SOUTH ISLAND FANTAIL	865	5	870
684 PIED TIT	175	0	175
685 YELLOW-BREASTED TIT	420	0	420
686 CHATHAM ISLAND TIT	37	0	37
687 BLACK TIT	161	0	161
689 NORTH ISLAND ROBIN	49	16	65
690 SOUTH ISLAND ROBIN	2358	73	2431
691 STEWART ISLAND ROBIN	10	0	10
692 BLACK ROBIN	286	0	286
721 SONG THRUSH	3006	170	3176
722 BLACKBIRD	6874	353	7227
761 SILVEREYE	60256	4699	64955
751 STITCHBIRD	285	45	330
753 BELLBIRD	5975	24	5999
755 TUI	937	24	961
756 CHATHAM ISLAND TUI	1	0	1
775 YELLOWHAMMER	870	157	1027
776 CIRL BUNTING	25	2	27
774 CHAFFINCH	2701	273	2974
771 GREENFINCH	7029	587	7616
772 GOLDFINCH	2564	724	3288
773 REDPOLL	7821	247	8068
781 HOUSE SPARROW	28954	2913	31867
791 STARLING	17832	208	18040
792 INDIAN MYNA	1397	2	1399
821 NORTH ISLAND SADDLEBACK	1679	280	1959
822 SOUTH ISLAND SADDLEBACK	289	0	289
824 NORTH ISLAND KOKAKO	61	10	71
811 BLACK-BACKED MAGPIE	41	0	41
812 WHITE-BACKED MAGPIE	259	0	259
813 HYBRID MAGPIE	25	0	25
-- MAGPIE SPECIES	[4]	0	[4]
802 ROOK	1070	0	1070
*** Total ***			
	1083125	22869	1105994

[] Numbers in square brackets indicate birds of an unknown species of a particular genus.

() Numbers in open brackets are provisional totals. More birds of these species will have been banded but early records do not exist.

TABLE 2
BANDING TOTALS BY AGE AND SEX
(For abbreviations of column headings see end of Table.)

SPECIES NUMBER AND NAME	PU	JM	JF	JU	AM	AF	AU	UM	UF	UU	RB	TOTAL
012 YELLOW-EYED PENGUIN	337	3	0	3	11	10	68	0	0	0	2	434
014 COOK STRAIT BLUE PENGUIN	13	0	0	0	10	22	26	0	0	0	4	75
016 WHITE-FLIPPED BLUE PENGUIN	634	0	0	0	0	0	6	0	0	0	0	640
015 SOUTHERN BLUE PENGUIN	46	0	0	0	0	0	131	0	0	0	1	178
017 ROCKHOPPER PENGUIN	0	0	0	0	0	0	1	0	0	0	0	1
019 FIORDLAND CRESTED PENGUIN	22	0	0	0	0	0	1	0	0	0	0	23
041 WANDERING ALBATROSS	0	0	0	0	0	0	198	0	0	0	0	198
044 NORTHERN ROYAL ALBATROSS	322	0	0	0	0	0	0	0	0	0	0	322
043 SOUTHERN ROYAL ALBATROSS	1	0	0	0	0	0	21	0	0	0	1	23
046 NEW ZEALAND BLACK-BROWED MOLLYMAWK	0	0	0	0	0	0	0	0	0	0	2	2
047 GREY-HEADED MOLLYMAWK	7	0	0	0	0	0	0	0	0	0	1	8
049 BULLER'S MOLLYMAWK	0	0	0	0	0	0	174	0	0	0	12	186
093 GREY-FACED PETREL	603	0	0	0	51	35	1051	0	0	0	16	1756
100 KERMADEC PETREL	1	0	0	0	0	0	105	0	0	0	0	106
111 CHATHAM ISLAND TAIKO	1	0	0	0	0	0	5	0	0	0	0	6
104 COOK'S PETREL	0	0	0	0	0	0	4	0	0	0	0	4
106 BLACK-WINGED PETREL	0	0	0	0	0	0	50	0	0	0	0	50
105 CHATHAM ISLAND PETREL	0	0	0	0	0	0	1	0	0	0	0	1
090 BLACK PETREL	10	0	0	0	17	3	74	0	0	0	0	104
091 WESTLAND BLACK PETREL	133	0	0	0	59	24	5	0	0	0	3	224
077 FLESH-FOOTED SHEARWATER	3	0	0	0	0	0	30	0	0	0	0	33
080 SOOTY SHEARWATER	33	0	0	0	0	0	60	0	0	0	0	93
123 GREY-BACKED STORM PETREL	0	0	0	0	0	0	1	0	0	0	0	1
161 AUSTRALASIAN GANNET	0	0	0	1429	0	0	0	0	0	0	0	1429
163 MASKED (BLUE-FACED) BOOBY	0	0	0	0	0	0	1	0	0	0	0	1
173 LITTLE BLACK SHAG	0	0	0	1	0	0	0	0	0	0	0	1
182 SPOTTED SHAG	8	0	0	0	0	0	0	0	0	0	0	8

TABLE 2
BANDING TOTALS BY AGE AND SEX
(For abbreviations of column headings see end of Table.)

SPECIES NUMBER AND NAME	PU	JM	JF	JU	AM	AF	AU	UM	UF	UU	RB	TOTAL
215 REEF HERON	3	0	0	0	0	0	0	0	0	0	0	3
233 ROYAL SPOONBILL	6	0	0	0	0	0	0	0	0	0	0	6
241 CANADA GOOSE	0	68	63	7	13	12	4	0	0	0	0	167
248 BROWN TEAL	0	0	0	0	24	27	0	0	0	0	0	51
254 BLUE DUCK	0	1	1	1	16	8	0	0	0	0	0	27
256 NEW ZEALAND SCAUP	0	0	0	0	0	6	0	0	0	0	0	6
272 AUSTRALASIAN HARRIER	0	33	45	5	60	45	28	3	4	0	0	223
296 CHUKOR	0	5	9	0	13	8	0	0	0	0	0	35
299 RED-LEGGED PARTRIDGE	0	215	229	1388	113	120	0	0	0	0	0	2065
295 CALIFORNIA QUAIL	0	0	0	0	1	0	0	0	0	0	0	1
293 PHEASANT	0	456	0	0	11	0	0	0	0	0	0	467
342 PUKEKO	0	2	0	15	0	1	1	0	0	0	0	19
343 NOTORNIS	0	37	30	8	5	2	0	0	0	0	0	82
401 SOUTH ISLAND PIED OYSTERCATCHER	32	0	0	0	4	7	85	0	0	0	0	128
418 NEW ZEALAND DOTTEREL	53	0	0	12	3	3	23	0	0	2	8	104
415 BANDED DOTTEREL	25	0	0	0	10	36	4	0	0	0	0	75
420 WRYBILL	5	0	0	0	4	5	0	0	0	0	0	14
445 EASTERN BAR-TAILED GODWIT	0	0	0	16	0	0	61	0	0	0	0	77
449 WANDERING TATTLER	0	0	0	0	0	0	0	0	0	1	0	1
451 TURNSTONE	0	0	0	0	0	0	5	0	0	0	0	5
458 KNOT	0	0	0	2	0	0	99	0	0	0	1	102
481 PIED STILT	79	0	0	0	7	12	44	0	0	0	0	142
482 BLACK STILT	0	0	0	1	0	0	3	0	0	0	0	4
521 SOUTHERN BLACK-BACKED GULL	1017	0	0	0	4	1	0	0	0	0	0	1022
523 RED-BILLED GULL	623	0	0	0	49	71	6	0	0	0	91	840
527 CASPIAN TERN	34	0	0	0	0	0	0	0	0	0	0	34
531 FAIRY TERN	5	0	0	0	0	0	0	0	0	0	0	5
532 WHITE-FRONTED TERN	204	0	0	0	0	0	0	0	0	0	0	204

TABLE 2
 BANDING TOTALS BY AGE AND SEX
 (For abbreviations of column headings see end of table.)

SPECIES NUMBER AND NAME	PU	JM	JF	JU	AM	AF	AU	UM	UF	UU	RB	TOTAL
551 NEW ZEALAND PIGEON	0	0	0	0	0	0	0	0	0	2	0	2
552 CHATHAM ISLAND PIGEON	7	0	0	0	0	2	2	0	0	0	0	11
554 MALAY SPOTTED DOVE	0	0	0	0	0	0	8	0	0	0	0	8
561 KAKAPO	0	0	0	0	1	0	0	0	0	0	0	1
562 NORTH ISLAND KAKA	0	0	0	0	11	9	0	0	0	0	0	20
563 SOUTH ISLAND KAKA	0	0	0	0	0	0	6	0	0	0	0	6
564 KEA	0	20	8	0	8	1	1	0	0	5	0	43
568 RED-CROWNED PARAKEET	0	0	0	0	6	3	0	0	0	0	0	9
573 YELLOW-CROWNED PARAKEET	0	0	0	0	0	0	23	0	0	0	0	23
583 SHINING CUCKOO	0	0	0	0	0	0	1	0	0	0	0	1
601 MOREPORK	0	0	0	0	1	0	0	0	0	0	0	1
621 NEW ZEALAND KINGFISHER	0	0	0	5	0	0	7	0	0	0	0	12
642 SOUTH ISLAND RIFLEMAN	0	0	0	0	1	1	0	0	0	0	0	2
651 SKYLARK	0	0	0	0	2	0	3	0	0	0	0	5
662 WELCOME SWALLOW	0	0	0	4	0	0	37	0	0	0	0	41
741 NEW ZEALAND PIPIT	0	0	0	0	0	0	1	0	0	0	0	1
731 HEDGESPARROW	4	0	0	23	0	0	108	0	0	0	0	135
712 WHITEHEAD	3	3	0	12	0	0	0	0	0	0	0	18
713 YELLOWHEAD	0	1	0	0	3	5	0	0	0	0	0	9
714 GREY WARBLER	0	0	0	2	0	0	19	0	0	0	0	21
681 NORTH ISLAND FANTAIL	0	0	0	1	0	0	13	0	0	0	0	14
682 SOUTH ISLAND FANTAIL	0	0	0	0	0	0	5	0	0	0	0	5
689 NORTH ISLAND ROBIN	0	1	2	0	5	8	0	0	0	0	0	16
690 SOUTH ISLAND ROBIN	2	9	6	3	23	24	6	0	0	0	0	73
721 SONG THRUSH	0	0	0	39	0	0	131	0	0	0	0	170
722 BLACKBIRD	3	38	20	43	147	98	4	0	0	0	0	353
761 SILVEREYE	0	0	0	25	0	0	4674	0	0	0	1	4700
751 STITCHBIRD	0	0	0	0	18	20	7	0	0	0	0	45
753 BELLBIRD	0	1	1	0	9	5	8	0	0	0	0	24
755 TUI	0	2	2	1	9	9	1	0	0	0	0	24
775 YELLOWHAMMER	0	1	1	0	79	54	22	0	0	0	0	157

TABLE 2
 BANDING TOTALS BY AGE AND SEX
 (For abbreviations of column headings see end of Table.)

SPECIES NUMBER AND NAME	PU	JM	JF	JU	AM	AF	AU	UM	UF	UU	RB	TOTAL
776 GIRL BUNTING	0	0	0	0	0	0	2	0	0	0	0	2
774 CHAFFINCH	0	18	22	7	120	93	13	0	0	0	0	273
771 GREENFINCH	0	21	47	22	254	202	41	0	0	0	0	587
772 GOLDFINCH	4	65	74	67	217	147	150	0	0	0	0	724
773 REDPOLL	0	31	9	69	52	21	65	0	0	0	0	247
781 HOUSE SPARROW	0	202	236	206	1287	946	9	0	0	27	5	2918
791 STARLING	0	5	5	16	58	60	64	0	0	0	0	208
792 INDIAN MYNA	0	0	0	0	0	0	2	0	0	0	0	2
821 NORTH ISLAND SADDLEBACK	132	18	15	20	61	32	2	0	0	0	0	280
824 NORTH ISLAND KOKAKO	0	0	0	0	5	5	0	0	0	0	0	10
*** Total ***	4415	1256	825	3453	2862	2203	7811	3	4	37	148	23017

Reference to abbreviations in the column headings:

PU	Pullus of unknown sex	AU	Adult of unknown sex
JM	Juvenile male	UM	Male of unknown age
JF	Juvenile female	UF	Female of unknown age
AM	Adult male	UU	Unknown age and sex
AF	Adult female	RB	Birds re-banded

TABLE 3
SUMMARY OF RECOVERIES ADDED TO THE COMPUTER FILE DURING THE
REPORT YEAR

(Figures in the repeat column are already incorporated in the total column.)

SPECIES NUMBER AND NAME	DEAD	ALIVE	TOTAL	REPEAT
001 NORTH ISLAND BROWN KIWI	0	1	1	0
012 YELLOW-EYED PENGUIN	84	402	486	180
014 COOK STRAIT BLUE PENGUIN	2	4	6	3
016 WHITE-FLIPPED BLUE PENGUIN	10	5	15	0
015 SOUTHERN BLUE PENGUIN	0	1	1	0
017 ROCKHOPPER PENGUIN	1	264	265	246
019 FIORDLAND CRESTED PENGUIN	0	1	1	1
021 ERECT-CRESTED PENGUIN	1	0	1	0
041 WANDERING ALBATROSS	0	4	4	2
044 NORTHERN ROYAL ALBATROSS	0	1	1	0
043 SOUTHERN ROYAL ALBATROSS	1	13	14	7
045 BLACK-BROWED MOLLYMAWK	0	12	12	11
046 NEW ZEALAND BLACK-BROWED MOLLYMAWK	3	38	41	31
047 GREY-HEADED MOLLYMAWK	0	83	83	60
054 LIGHT-MANTLED SOOTY ALBATROSS	1	0	1	0
061 SOUTHERN GIANT PETREL	1	1	2	1
093 GREY-FACED PETREL	1	0	1	0
101 PYCROFT'S PETREL	0	1	1	0
073 FAIRY PRION	0	5	5	0
090 BLACK PETREL	0	5	5	0
091 WESTLAND BLACK PETREL	3	7	10	4
080 SOOTY SHEARWATER	0	1	1	0
082 FLUTTERING SHEARWATER	2	0	2	0
086 NORTH ISLAND LITTLE (ALLIED) SHEARWATER	0	1	1	0
161 AUSTRALASIAN GANNET	44	3	47	3
233 ROYAL SPOONBILL	0	15	15	8
243 BLACK SWAN	107	4	111	8
241 CANADA GOOSE	416	241	657	276
245 PARADISE SHELDUCK	387	5	392	46
252 MALLARD	376	4	380	9
251 GREY DUCK	3	0	3	0
248 BROWN TEAL	0	1	1	0
253 NEW ZEALAND SHOVELER	3	0	3	0
254 BLUE DUCK	0	2	2	2
272 AUSTRALASIAN HARRIER	4	0	4	0
299 RED-LEGGED PARTRIDGE	10	1	11	0
293 PHEASANT	42	1	43	0
401 SOUTH ISLAND PIED OYSTERCATCHER	0	15	15	12
402 VARIABLE OYSTERCATCHER	0	1	1	0
418 NEW ZEALAND DOTTEREL	1	65	66	44
415 BANDED DOTTEREL	0	1	1	1
420 WRYBILL	0	1	1	0
445 EASTERN BAR-TAILED GODWIT	0	1	1	0
458 KNOT	4	11	15	1
481 PIED STILT	0	7	7	1
511 SOUTHERN GREAT SKUA	2	2	4	2
521 SOUTHERN BLACK-BACKED GULL	37	15	52	1
523 RED-BILLED GULL	25	90	115	74

TABLE 3
SUMMARY OF RECOVERIES ADDED TO THE COMPUTER FILE DURING THE
REPORT YEAR

(Figures in the repeat column are already incorporated in the total column.)

SPECIES NUMBER AND NAME	DEAD	ALIVE	TOTAL	REPEAT
524 BLACK-BILLED GULL	1	2	3	0
527 CASPIAN TERN	1	5	6	3
531 FAIRY TERN	0	1	1	0
532 WHITE-FRONTED TERN	6	0	6	0
564 KEA	0	5	5	3
690 SOUTH ISLAND ROBIN	0	154	154	5
722 BLACKBIRD	3	0	3	0
761 SILVEREYE	5	126	131	62
751 STITCHBIRD	1	0	1	0
755 TUI	4	32	36	17
774 CHAFFINCH	0	2	2	0
772 GOLDFINCH	1	0	1	0
781 HOUSE SPARROW	10	2	12	0
791 STARLING	5	0	5	0
821 NORTH ISLAND SADDLEBACK	1	0	1	0
824 NORTH ISLAND KOKAKO	2	0	2	0
812 WHITE-BACKED MAGPIE	1	0	1	0
*** Total ***				
	1612	1665	3277	1124

TABLE 4
SUMMARY PER PERMIT
(REBANDS INCLUDED)

	BIRDS BANDED
** PERMIT 0002 MILLS DR J A	
NOTORNIS	40
RED-BILLED GULL	840
** Subtotal **	880
** PERMIT 0005 ROBERTSON C J R	
NORTHERN ROYAL ALBATROSS	322
** Subtotal **	322
** PERMIT 0032 DAVIS V T	
AUSTRALASIAN GANNET	1429
** Subtotal **	1429
** PERMIT 0036 BARTLE J A	
WESTLAND BLACK PETREL	224
** Subtotal **	224
** PERMIT 0041 BULL DR P C	
SILVEREYE	124
** Subtotal **	124
** PERMIT 0042 CHALLIES C N	
WHITE-FLIPPED BLUE PENGUIN	640
SOUTHERN BLACK-BACKED GULL	16
** Subtotal **	656
** PERMIT 0044 COWIE J A	
WHITE-FRONTED TERN	204
** Subtotal **	204
** PERMIT 0053 BARLOW MRS C E	
CASPIAN TERN	34
** Subtotal **	34
** PERMIT 0062 CROCKETT D A	
CHATHAM ISLAND TAIKO	1
CHATHAM ISLAND PETREL	1
GREY-BACKED STORM PETREL	1
** Subtotal **	3

TABLE 4
SUMMARY PER PERMIT
(REBANDS INCLUDED)

	BIRDS BANDED
** PERMIT 0068 IMBER M J	
CHATHAM ISLAND TAIKO	5
COOK'S PETREL	4
BLACK PETREL	104
** Subtotal **	113
** PERMIT 0076 BELL BRIAN D	
SOUTHERN BLACK-BACKED GULL	50
BLACKBIRD	11
SILVEREYE	144
CHAFFINCH	4
GREENFINCH	14
GOLDFINCH	3
HOUSE SPARROW	141
STARLING	65
** Subtotal **	432
** PERMIT 0093 SAGAR P M	
SOUTH ISLAND PIED OYSTERCATCHER	41
** Subtotal **	41
** PERMIT 0104 D S I R / LAND RESOURCES	
SOUTHERN BLACK-BACKED GULL	238
SOUTH ISLAND KAKA	6
SOUTH ISLAND FANTAIL	1
SOUTH ISLAND ROBIN	34
SONG THRUSH	1
BLACKBIRD	1
SILVEREYE	7
BELLBIRD	1
CHAFFINCH	2
GREENFINCH	1
HOUSE SPARROW	159
** Subtotal **	451
** PERMIT 0108 CAMPBELL ISLAND PARTY	
ROCKHOPPER PENGUIN	1
SOUTHERN ROYAL ALBATROSS	23
NEW ZEALAND BLACK-BROWED MOLLYMAWK	2
GREY-HEADED MOLLYMAWK	8
** Subtotal **	34
** PERMIT 0164 AUCKLAND/WAIKATO FISH & GAME COUNCIL	
CANADA GOOSE	11
** Subtotal **	11

TABLE 4
SUMMARY PER PERMIT
(REBANDS INCLUDED)

	BIRDS BANDED
** PERMIT 0172 HAWKES BAY FISH & GAME COUNCIL	
CHUKOR	35
RED-LEGGED PARTRIDGE	290
PHEASANT	467
** Subtotal **	792
** PERMIT 0174 NELSON/MARLBOROUGH FISH & GAME COUNCIL	
RED-LEGGED PARTRIDGE	1350
** Subtotal **	1350
** PERMIT 0179 SOUTH CANTERBURY FISH & GAME COUNCIL	
RED-LEGGED PARTRIDGE	76
** Subtotal **	76
** PERMIT 0215 TORR O C	
NEW ZEALAND KINGFISHER	3
HEDGESPARROW	1
SONG THRUSH	11
BLACKBIRD	18
SILVEREYE	8
CHAFFINCH	3
GREENFINCH	1
GOLDFINCH	4
HOUSE SPARROW	40
STARLING	4
** Subtotal **	93
** PERMIT 0234 HAY J R	
NEW ZEALAND KINGFISHER	3
GREY WARBLER	2
** Subtotal **	5
** PERMIT 0243 SIM D M	
FLESH-FOOTED SHEARWATER	28
AUSTRALASIAN HARRIER	11
SILVEREYE	260
** Subtotal **	299
** PERMIT 0244 POWLESLAND DR R G	
CHATHAM ISLAND PIGEON	11
** Subtotal **	11
** PERMIT 0246 PIERCE R J	
FAIRY TERN	5
** Subtotal **	5

TABLE 4
SUMMARY PER PERMIT
(REBANDS INCLUDED)

	BIRDS BANDED
** PERMIT 0256 WILKINSON G B SOUTHERN BLACK-BACKED GULL	5
** Subtotal **	5
** PERMIT 0266 DANN P SOUTHERN BLUE PENGUIN	178
** Subtotal **	178
** PERMIT 0278 MIRANDA NATURALISTS TRUST SOUTH ISLAND PIED OYSTERCATCHER	85
WRYBILL	1
EASTERN BAR-TAILED GODWIT	77
TURNSTONE	5
KNOT	102
** Subtotal **	270
** PERMIT 0282 DUCKS UNLIMITED (N Z) CANADA GOOSE	25
BROWN TEAL	51
** Subtotal **	76
** PERMIT 0285 RAPTOR ASSOCIATION OF N Z AUSTRALASIAN HARRIER	87
** Subtotal **	87
** PERMIT 0291 NORTHLAND/FAR NORTH REG OSNZ SOUTHERN BLACK-BACKED GULL	90
** Subtotal **	90
** PERMIT 0292 ROWE L K HEDGESPARROW	1
SILVEREYE	133
CHAFFINCH	1
GREENFINCH	2
GOLDFINCH	12
REDPOLL	3
HOUSE SPARROW	148
** Subtotal **	300

TABLE 4
SUMMARY PER PERMIT
(REHANDS INCLUDED)

	BIRDS BANDED
** PERMIT 0294 CANTERBURY PASSERINE GROUP	
WELCOME SWALLOW	1
HEDGESPARROW	47
GREY WARBLER	4
SOUTH ISLAND FANTAIL	1
SONG THRUSH	8
BLACKBIRD	54
SILVEREYE	2668
BELLBIRD	21
YELLOWHAMMER	1
CHAFFINCH	47
GREENFINCH	99
GOLDFINCH	86
REDPOLL	37
HOUSE SPARROW	341
STARLING	19
** Subtotal **	3434
** PERMIT 0295 CANTERBURY UNIVERSITY	
FIORDLAND CRESTED PENGUIN	22
SOUTH ISLAND ROBIN	37
** Subtotal **	59
** PERMIT 0297 AUCKLAND UNIVERSITY	
PUKEKO	19
NEW ZEALAND PIGEON	2
RED-CROWNED PARAKEET	9
BLACKBIRD	17
TUI	6
NORTH ISLAND SADDLEBACK	280
** Subtotal **	333
** PERMIT 0298 WILSON K-J	
AUSTRALASIAN HARRIER	3
KEA	37
** Subtotal **	40
** PERMIT 0301 DARBY J T	
YELLOW-EYED PENGUIN	421
** Subtotal **	421
** PERMIT 0307 COSSEE R O	
COOK STRAIT BLUE PENGUIN	75
FIORDLAND CRESTED PENGUIN	1
BULLER'S MOLLYMAWK	186
LITTLE BLACK SHAG	1

(continued next page)

TABLE 4
SUMMARY PER PERMIT
(REBANDS INCLUDED)

	BIRDS BANDED
** PERMIT 0307 COSSEE R O (continued)	
SPOTTED SHAG	8
REEF HERON	3
SOUTHERN BLACK-BACKED GULL	623
KEA	6
MOREPORK	1
BLACKBIRD	1
SILVEREYE	493
NORTH ISLAND KOKAKO	10
** Subtotal **	1408
** PERMIT 0323 DOWDING J (N Z DOTTEREL GRP)	
NEW ZEALAND DOTTEREL	104
** Subtotal **	104
** PERMIT 0324 PASSERINE GROUP OSNZ CENTRAL	
CALIFORNIA QUAIL	1
SHINING CUCKOO	1
NEW ZEALAND KINGFISHER	5
SOUTH ISLAND RIFLEMAN	2
SKYLARK	5
WELCOME SWALLOW	15
NEW ZEALAND PIPIT	1
HEDGESPARROW	83
GREY WARBLER	14
NORTH ISLAND FANTAIL	13
SOUTH ISLAND FANTAIL	3
SONG THRUSH	125
BLACKBIRD	209
SILVEREYE	755
BELLBIRD	1
TUI	18
YELLOWHAMMER	154
CIRL BUNTING	2
CHAFFINCH	213
GREENFINCH	410
GOLDFINCH	568
REDPOLL	207
HOUSE SPARROW	1662
STARLING	97
INDIAN MYNA	2
** Subtotal **	4566
** PERMIT 0325 OSNZ AUCKLAND SEABIRD GROUP	
GREY-FACED PETREL	1272
FLESH-FOOTED SHEARWATER	5
SOOTY SHEARWATER	22
** Subtotal **	1299

TABLE 4
SUMMARY PER PERMIT
(REBANDS INCLUDED)

	BIRDS BANDED
** PERMIT 0330 GEDDES D A NEW ZEALAND SCAUP	6
** Subtotal **	6
** PERMIT 0332 STILT RESEARCH GROUP OSNZ PIED STILT	142
** Subtotal **	142
** PERMIT 0333 BAKER D G MALAY SPOTTED DOVE	8
WELCOME SWALLOW	9
GREENFINCH	24
HOUSE SPARROW	6
** Subtotal **	47
** PERMIT 0335 ALLEN D G WHITEHEAD	18
** Subtotal **	18
** PERMIT 0337 ROYAL SPOONBILL PROJECT OSNZ ROYAL SPOONBILL	6
** Subtotal **	6
** PERMIT 0338 WELLINGTON CONSERVANCY D O C SOOTY SHEARWATER	71
STITCHBIRD	45
** Subtotal **	116
** PERMIT 0339 TAYLOR T J AUSTRALASIAN HARRIER	11
** Subtotal **	11
** PERMIT 0340 NORTHLAND PASSERINE GROUP SONG THRUSH	1
BLACKBIRD	7
SILVEREYE	58
HOUSE SPARROW	12
** Subtotal **	78
** PERMIT 0341 OSNZ NELSON/MARLBOROUGH AUSTRALASIAN HARRIER	18
** Subtotal **	18

TABLE 4
SUMMARY PER PERMIT
(REBANDS INCLUDED)

	BIRDS BANDED
** PERMIT 0342 PASSERINE GRP OSNZ WANGANUI	
WELCOME SWALLOW	16
HEDGESPARROW	1
GREY WARBLER	1
NORTH ISLAND FANTAIL	1
SONG THRUSH	20
BLACKBIRD	30
SILVEREYE	46
BELLBIRD	1
YELLOWHAMMER	1
CHAFFINCH	2
GREENPINCH	35
GOLDFINCH	44
HOUSE SPARROW	297
STARLING	21
** Subtotal **	516
** PERMIT 0344 J D ROBERTSHAW (MAF)	
AUSTRALASIAN HARRIER	93
** Subtotal **	93
** PERMIT 0345 EASTERN FISH & GAME COUNCIL	
CANADA GOOSE	131
RED-LEGGED PARTRIDGE	349
** Subtotal **	480
** PERMIT 0346 DOC AUCKLAND ISLAND PROJECTS	
WANDERING ALBATROSS	198
** Subtotal **	198
** PERMIT 0348 HARDING M A	
BLUE DUCK	2
** Subtotal **	2
** PERMIT 0349 NORTHLAND SEABIRD GROUP	
BLACK-WINGED PETREL	50
** Subtotal **	50
** PERMIT 0351 CORK S C	
NEW ZEALAND KINGFISHER	1
HEDGESPARROW	2
SONG THRUSH	4
BLACKBIRD	5
SILVEREYE	4
YELLOWHAMMER	1

(continued next page)

TABLE 4
SUMMARY PER PERMIT
(REBANDS INCLUDED)

	BIRDS BANDED
** PERMIT 0351 CORK S C (continued)	
CHAFFINCH	1
GREENFINCH	1
GOLDFINCH	7
HOUSE SPARROW	112
STARLING	2
** Subtotal **	140
 ** PERMIT 0365 PITCAIRN EXPEDITION	
KERMADEC PETREL	106
MASKED (BLUE-FACED) BOOBY	1
WANDERING TATTLER	1
** Subtotal **	108
 ** PERMIT 3125 EASTERN REGION D O C	
NORTH ISLAND ROBIN	16
** Subtotal **	16
 ** PERMIT 4125 WANGANUI REGION D O C	
BLUE DUCK	25
** Subtotal **	25
 ** PERMIT 7125 CANTERBURY REGION D O C	
SOUTH ISLAND PIED OYSTERCATCHER	2
BANDED DOTTEREL	75
WRYBILL	13
BLACK STILT	4
** Subtotal **	94
 ** PERMIT 9125 SCIENCE & RESEARCH D O C	
YELLOW-EYED PENGUIN	13
GREY-FACED PETREL	484
NOTORNIS	42
KAKAPO	1
NORTH ISLAND KAKA	20
YELLOW-CROWNED PARAKEET	23
YELLOWHEAD	9
SOUTH ISLAND ROBIN	2
** Subtotal **	594
*** Total ***	23017

APPENDIX 1

Research supported by bird banding

(Numbers in brackets indicate permit numbers)

- Lifetime reproduction and the role of inheritance in the breeding of Red-billed Gulls at Kaikoura. (0002)
- General ecological study of the Northern Royal Albatrosses, population dynamics, life span and dispersal patterns. (0005)
- Life expectancy, breeding success, dispersal and census of Australasian Gannet on White Island. (0032)
- Breeding biology and movements of Westland Black Petrel. (0036)
- Distribution, life expectancy and migration of native and introduced Passerines. (0041, 0076, 0104, 0215, 0234, 0243, 0292, 0294, 0297, 0307, 0324, 0333, 0335, 0340, 0342, 3125, 9125)
- A longterm study of population dynamics, behaviour and dispersal of White-flipped Penguins. (0042)
- Ecology, dispersal and habitat requirements of White-fronted Terns. (0044)
- Distribution, movements and longevity of Caspian Terns. (0053)
- Population dynamics, longevity, age of first breeding, migration dispersal and movements of Procelariiformes. (0062, 0068, 0325, 0338, 0349)
- Mate & nest site retention, annual mortality and breeding success of the South Island Pied Oystercatcher. (0093)
- Ecology and movements of South Island Kaka. (0104)
- Black-backed Gull dispersal and population dynamics. (0042, 0076, 0104, 0256, 0291, 0307)
- Translocation of South Island Robins from Breaksea Island, Fiordland. (0104)
- Population dynamics of the seabirds of Campbell Island. (0108)
- Establishment of populations of game farm bred Red-legged Partridge, Chukor and Pheasants in the wild. (0172, 0174, 0179, 0345)
- Population dynamics of Canada geese. (0164, 0282, 0345)
- Breeding biology and reproduction of the Chatham Island Pigeon. (0244)
- Population dynamics and distribution of Fairy Terns in Northland. (0246)
- Breeding biology of the Black-backed Gull in Nelson. (0256)
- Population dynamics of Little Blue Penguins. (0042, 0266, 0307)
- Migration patterns in waders. (0278, 7125)
- Population dynamics in North Island Canada Geese. (0282, 0345)

Captive breeding of Brown teal and their re-establishment in the wild. (0282)

Biology and distribution of New Zealand Raptors . (0285, 0298, 0339, 0341, 0344)

Population dynamics of Black-backed Gull in Northland. (0291)

Response of South Island Robins to predators. (0295)

Ecology and dispersal of Fiordland Crested Penguins from Open Bay Island. (0295)

Communal breeding in Pukeko on Tiritiri Matangi Island. (0297)

Population biology and vocalisation of North Island Saddleback on Tiritiri Matangi Island . (0297)

Feeding behaviour of nectar feeding birds. (0297)

Population dynamics and ecology of the Yellow-eyed Penguin. (0301, 9125)

Breeding biology, predation, habitat requirements and movements of New Zealand Dotterel. (0323)

Population dynamics of Grey-faced Petrel. (0325, 9125)

Movement patterns of the Pied Stilt. (0332)

Population growth and behavioural ecology of Whitehead following an inter island transfer. (0335)

Dispersal of Royal Spoonbills from Vernon Lagoons, Marlborough. (0337)

Relocation of Stitchbirds to Kapiti Island . (0338)

Population structure and dynamics of the Wandering Albatross on the Auckland Islands. (0346)

The importance of New Zealand wildlife as reservoir hosts for the disease Yersiniosis (0351)

Relocation techniques for establishment of new North Island Robin Populations. (3125)

Long term monitoring of New Zealand Shore Plover and Chatham Island Oystercatcher in the Chatham Islands. (7125)

Natal dispersal of Blue Duck . (0348, 4125)

Pitcairn Expedition. (0365)

Chick production estimates of Grey-faced Petrel on Whale Island. (9125)

Productivity and predation of Yellow-crowned Parakeet, Yellowhead and South Island Robin. (9125)

Distribution and ecology of the North Island Kaka. (9125)

Translocation of Black Petrel chicks from Great to Little Barrier as a test for establishing new petrel colonies. (9125)

Release of captive reared Takahe into the wild. (9125)