

SCIENCE & RESEARCH SERIES NO-87

**REPORT ON BIRD BANDING
IN NEW ZEALAND
1992-1993**

by

Roderick O. Cossee

Published by
Head Office,
Department of Conservation,
P O Box 10-420,
Wellington,
New Zealand

ISSN 0113-3713
ISBN 0-478-01701-4

© March 1995, Department of Conservation

Cataloguing-in-Publication data

Cossee, R. O. (Roderick O.), 1946-
Report on bird banding in New Zealand 1992-1993 / by Roderick O.
Cossee. Wellington, N.Z. : Dept. of Conservation, 1995.
1 v. ; 30 cm. (Science & Research series, 0113-3713 ; no. 87.)
Includes bibliographical references.
ISBN 0478017014
1. Birds--New Zealand. 2. Bird banding--New Zealand. I. New
Zealand. Dept. of Conservation. II. Title. III. Series: Science &
research series ; no. 87.
598.072320993 20
zbn95-023248

CONTENTS

ABSTRACT	1
1. INTRODUCTION	1
2. METHODS	2
3. RESULTS	2
4. RECOVERIES	3
4.1 Some notable recoveries	4
4.2 Leg flags	5
5. REQUESTS FOR INFORMATION	6
6. ACKNOWLEDGEMENTS	6
7. REFERENCES	6
Table 1 General banding totals (rebands excluded).	7
Table 2 Banding totals by age and sex.	12
Table 3 Recoveries added to the computer files during the report year.	15
Table 4 Summary per permit (rebands included).	17
APPENDIX 1	22
Research supported by bird banding during 1992/93	22

REPORT ON BIRD BANDING IN NEW ZEALAND 1992-1993

by

Roderick O. Cossee

Science & Research Division, Department of Conservation

P.O. Box 10-420, Wellington

ABSTRACT

During the 1992/93 banding year 23,659 birds of 101 species were banded and 378 previously banded birds were re-banded, bringing the grand total of individual birds banded in New Zealand over the years since 1950 to 1,129,653. Two species previously not banded, South Georgian Diving Petrel and Terek Sandpiper, were banded during the year. A total of 2852 recoveries was added to the computer files. Bird banding supported a large variety of research projects and was regulated by 25 individual permits and 43 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 1992/93 banding season and gives details of some interesting recoveries. Appendix 1 lists known research projects which were serviced by the Banding Scheme during this year.

2. METHODS

The totals given are for the period between 1 April 1992 and 31 March 1993. However, they may include some records for birds banded in previous years, because schedules not received in time for inclusion in the 1991/92 report have been included here. 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 (Kinsky 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 (Turbott 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 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 1992/93 banding season 23,659 birds of 101 species were banded and 378 previously banded birds were re-banded. Non-game species contributed 21,846 (92.3%) and game species 1,813 (7.7%) to the new birds banded. Once again there was a marked decline in the number of game birds banded. Numbers fell from 2,754 in 1991/92 to the present 1,813, a decline of just over 34% during this report year. The number of non-game birds increased by 8.6% in comparison with the previous year.

The total number of birds banded in New Zealand increased to 1,129,653 (previously 1,105,994). Of these birds 164,815 (14.5%) 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 233. The South Georgian Diving Petrel (*Pelecanoides georgicus*) and Terek Sandpiper (*Xenus cinereus*) were banded for the first time.

The numbers banded for each species are given in Table 1. Note that **re-banded birds have been omitted from this table.**

Table 2 summarises by age and sex the birds banded during the 1992/93 season. Also included in this table are the 378 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 individual permit numbers.

4. RECOVERIES

A total of 2,843 recoveries was coded and added to our computer database. Not all these recoveries were received during the report year. A number of the 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 contracted outside agencies.

A large number of recoveries was 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 between the Department of Conservation, the public and many national and international organisations and institutions. A quick and efficient response enhances the chance of members of the public sending in bands, as well as maintaining the standing of the Department. As mentioned in a previous report, the New Zealand National Banding Scheme continues to have the fastest response time for public recoveries in the world as well as the highest recovery rate!

Of the 2,843 recoveries processed during the year 454 records (16%) were for birds recovered dead and 2,389 (84%) for birds recovered alive (either actively caught, or sight recoveries of birds with individual colour combinations, or readable bands). Of all these recoveries 1,092 birds (38.4%) have been recovered at least once before.

Of the 454 birds recovered dead, 189 (41.6%) were game and 265 (58.4%) were non-game species. The 2,389 live recoveries consisted of 4 (0.2%) game and 2,385 (99.8%) non-game birds.

The 1,092 repeat recoveries (individuals who had been previously recovered) were made up of 14 (1.3%) game and 1,078 (98.7%) non-game species. Dead and live recoveries combined for each species group are 193 (6.8%) and 2,650 (93.2%) respectively.

At the end of the 1992/93 year the computer files held recovery records for 164,815 individual birds. The total number of recoveries of these individuals including repeat recoveries stood at 263,232.

4.1 Some notable recoveries

Two **Southern Giant Petrels** (*Macronectes giganteus*), banded by Cemave, the conservation organisation in Brazil, were recovered in New Zealand. Both were banded as chicks at Stinker Point, Elephant Island, South Shetlands (Lat 61° 20' S, Long 55° 20' W).

V-20751 was banded on 19/2/92 and was recovered dead on 18/9/92 on Bay View beach, Napier.

V-09433 was banded on 23/2/90. The bird was caught on a longline off the West Coast (Lat 42° 36' S, Long 170°31' E) on 10/9/92. The band was removed but the bird escaped alive and healthy.

A **Northern Giant Petrel** (*Macronectes halli*) with band **9-73368** (South African Banding Scheme) was found dead on a beach just north of the Waikato River mouth on 25/10/93. This bird was banded on 25/1/92 at Marion Island, Southern Ocean (Lat 46° 54' S, 37° 45' E).

Sooty Shearwater (*Puffinus griseus*) **Z-26757**, banded as an adult of unknown sex on 7/2/91 at Kauwahaia Island, Te Henga, was recovered dead on 15/7/93. It was found on the beach at Fort Canby, Washington State, USA (Lat 46° 15' N, 124° W). The bird was last caught on the colony in December 1992.

Two **Fluttering Shearwaters** (*Puffinus gavia*) banded on Maud Island, Marlborough Sounds were recovered in Australia.

X-9712 was banded as a chick on 7/1/93. It was found dead at Shelly Beach, Phillip Island, Victoria (Lat 38° 31' S, Long 145° 08' E) on 25/4/93.

X-9802 was also banded as a chick on 7/1/93. This bird was found sick at Moonta Bay, York Peninsula, Southern Australia (Lat 38° 0' S, Long 137° 33' E) on 28/2/93. Attempts to rehabilitate the bird failed and it died subsequently.

Two **Southern Royal Albatrosses** (*Diomedea e. epomophora*), both banded on Campbell Island, fell victim to longlining fishing vessels well away from New Zealand.

R-13881 was banded as a breeding adult on 16/1/68. It was caught in the Indian Ocean (Lat 38° S, Long 106° E) about August 1990.

R-39001, banded as a chick on 1/10/80 was caught on 5/7/92 in the Atlantic Ocean at Lat 42° 45' S, Long 2° 46' W.

A **Godwit**, presumably banded on 6/8/93 at Kgun Lake, Yukon Delta, Alaska was sighted at Miranda, Firth of Thames on 16/10/93. The bird was banded as an Hudsonian Godwit (although the operator agrees that one of his less experienced helpers may have identified the bird wrongly) and recovered as a Bar-tailed Godwit. Confusion reigns as both species breed in the same area!

A steady stream of recaptures of **Knots** (*Calidris c. canutus*) and **Banded Dotterels** (*Charadrius b. bicinctus*), banded on either side of the Tasman was (and still is!) received by the Banding Office.

4.2 Leg flags

The use of leg flags (rather than colour bands) on waders has increased markedly internationally and is providing interesting results. As mentioned in earlier reports different coloured flags are used in different areas along the East Asian-Australasian Flyway. The colour allocated to birds banded in New Zealand is white, although some South Island Pied Oystercatchers (*Haematopus ostralegus finschi*), not known to leave New Zealand, have been marked with yellow flags.

One of the highlights of the flagging project is the sighting of 3 Bar-tailed Godwits (*Limosa lapponica*) in the same roosting flock at the Ariake Sea, Kyushu, Japan in April 1992. These birds had white, orange and green flags respectively. So one was banded in New Zealand, the others in Queensland and Victoria.

Within New Zealand, many sightings of Australian banded Knots and Godwits were reported from as far south as 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 increased 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 1992/93, both national and international. Among these were:

- Life expectancy analyses for game birds (Mallards and Paradise Shelduck)
- Wading bird dispersal and migration patterns
- Albatross movements and by-catch issues

Some informative field courses were organised for members of the Conservation Corps. These involved an introduction to the purposes and practice of banding in general, with an emphasis on general biology, dispersal, etc., of seabirds around Wellington Harbour, specifically those species living on Somes Island.

6. ACKNOWLEDGEMENTS

I am indebted to Mrs G D Tofield for her valued contribution to the administration of the New Zealand National Banding Scheme, to M J Wakelin for technical and field support, and to C J R Robertson for valuable advice during the year.

7. REFERENCES

- Kinsky, RC. 1970. Annotated checklist of the birds of New Zealand. Ornithological Society of N.Z. and A.H. & A.W. Reed, Wellington.
- Turbott, E.G. 1990. Checklist of the birds of New Zealand. Ornithological Society of N.Z. and Random Century, Auckland.

Table 1 General banding totals (rebands excluded).

Species number and name		Total pre-1992	Total 1992/93	Total for all years
001	NORTH ISLAND BROWN KIWI	332	20	352
002	SOUTH ISLAND BROWN KIWI	4	0	4
003	STEWART ISLAND BROWN KIWI	21	0	21
004	LITTLE SPOTTED KIWI	143	70	213
012	YELLOW-EYED PENGUIN	4374	250	4624
026	NORTHERN BLUE PENGUIN	615	36	651
014	COOK STRAIT BLUE PENGUIN	2088	102	2190
016	WHITE-FLIPPED BLUE PENGUIN	12179	610	12789
015	SOUTHERN BLUE PENGUIN	903	421	1324
027	CHATHAM ISLAND BLUE PENGUIN	15	0	15
017	ROCKHOPPER PENGUIN	2405	0	2405
019	FIORDLAND CRESTED PENGUIN	642	26	668
020	SNARES CRESTED PENGUIN	2179	0	2179
021	ERECT CRESTED PENGUIN	43	0	43
041	WANDERING ALBATROSS	3201	214	3415
044	NORTHERN ROYAL ALBATROSS	2804	159	2963
043	SOUTHERN ROYAL ALBATROSS	32693	654	33347
045	BLACK-BROWED MOLLYMAWK	13	5	18
046	NEW ZEALAND BLACK-BROWED MOLLYMAWK	22518	677	23195
047	GREY HEADED MOLLYMAWK	6389	213	6602
049	BULLER'S MOLLYMAWK	2276	399	2675
050	WHITE-CAPPED (SHY) MOLLYMAWK	561	30	591
052	SALVIN'S MOLLYMAWK	1296	0	1296
051	CHATHAM ISLAND MOLLYMAWK	2	545	547
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	19115	1093	20208
094	WHITE-HEADED PETREL	31	0	31
095	WHITE-NAPED PETREL	516	0	516
098	MOTTLED PETREL	418	31	449
110	SOFT-PLUMAGED PETREL	20	0	20
100	KERMADEC PETREL	1056	0	1056
111	CHATHAM ISLAND TAIKO	47	3	50
101	PYCROFT'S PETREL	642	237	879
102	GOULD'S PETREL	1	0	1
104	COOK'S PETREL	331	5	336
106	BLACK-WINGED PETREL	2818	0	2818
105	CHATHAM ISLAND PETREL	49	0	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
075	FULMAR PRION	61	0	61
074	CHATHAM FULMAR PRION	2	0	2
089	GREY PETREL	8	0	8
090	BLACK PETREL	950	57	1007
091	WESTLAND BLACK PETREL	3698	220	3918

Species number and name		Total pre-1992	Total 1992/93	Total for all yeais
092	WHITE-CHINNED PETREL	31	0	31
077	FLESH-FOOTED SHEARWATER	1782	21	1803
078	WEDGE-TAILED SHEARWATER	461	0	461
079	BULLER'S SHEARWATER	1049	0	1049
080	SOOTY SHEARWATER	6821	154	6975
115	CHRISTMAS ISLAND SHEARWATER	1	0	1
082	FLUTTERING SHEARWATER	1787	65	1852
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	133	633
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	776	0	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	27	7166
133	SUBANTARCTIC DIVING PETREL	19	0	19
132	SOUTHERN DIVING PETREL	104	1	105
134	SOUTH GEORGIAN DIVING PETREL	0	4	4
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	17913	0	17913
162	BROWN BOOBY	1	0	1
163	MASKED (BLUE-FACED) BOOBY	446	0	446
171	BLACK SHAG	522	18	540
172	PIED SHAG	168	0	168
173	LITTLE BLACK SHAG	955	0	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	465	26	491
216	WHITE-FACED HERON	14	0	14
213	WHITE HERON	2	0	2
215	REEF HERON	55	13	68
220	CATTLE EGRET	1	0	1
218	BITTERN	7	0	7
233	ROYAL SPOONBILL	17	26	43
242	MUTE SWAN	4	0	4
243	BLACK SWAN	(59980)	0	(59980)
241	CANADA GOOSE	(54144)	329	(54473)
245	PARADISE SHELDUCK	(68906)	219	(69125)
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	(1797)	0	(1797)

Species number and name		Total pre-1992	Total 1992/93	Total for all years
249	AUCKLAND ISLAND TEAL	45	0	45
250	CAMPBELL ISLAND TEAL	3	0	3
253	NEW ZEALAND SHOVELER	(4494)	0	(4494)
254	BLUE DUCK	(229)	61	(290)
256	NEW ZEALAND SCAUP	(113)	0	(113)
---	DUCK (GREY OR MALLARD)	[(13)]	0	[(13)]
272	AUSTRALASIAN HARRIER	4880	178	5058
281	NEW ZEALAND FALCON	47	7	54
296	CHUKOR	2217	0	2217
299	RED-LEGGED PARTRIDGE	20227	1074	21301
300	RED-LEGGED PARTRIDGE (HYBRID)	42	0	42
298	GREY PARTRIDGE	(14215)	0	(14215)
292	BROWN QUAIL	18	0	18
295	CALIFORNIA QUAIL	(12205)	0	(12205)
293	PHEASANT	(58457)	191	(-58648)
331	BANDED RAIL	32	0	32
335	NORTH ISLAND WEKA	3474	101	3575
336	WESTERN WEKA	450	0	450
337	BUFF WEKA	31	0	31
338	STEWART ISLAND WEKA	781	35	816
340	MARSH CRAKE	5	0	5
341	SPOTLESS CRAKE	23	0	23
342	PUKEKO	1899	0	1899
343	NOTORNIS	286	7	293
---	WEKA SPECIES	[1]	0	[1]
401	SOUTH ISLAND PIED OYSTERCATCHER	1630	479	2109
402	VARIABLE OYSTERCATCHER	288	13	301
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	1	5
418	NEW ZEALAND DOTTEREL	486	105	591
415	BANDED DOTTEREL	3988	176	4164
422	BLACK-FRONTED DOTTEREL	72	36	108
419	NEW ZEALAND SHORE PLOVER	433	37	470
420	WRYBILL	2442	1149	3591
445	EASTERN BAR-TAILED GODWIT	546	70	616
449	WANDERING TATTLER	1	0	1
448	TEREK SANDPIPER	0	1	1
451	TURNSTONE	18	0	18
453	CHATHAM ISLAND SNIPE	150	0	150
454	SNARES ISLAND SNIPE	274	0	274
458	KNOT	2934	976	3910
461	CURLEW SANDPIPER	4	15	19
462	RED-NECKED STINT	1	2	3
481	PIED STILT	1025	116	1141
482	BLACK STILT	129	0	129
511	SOUTHERN GREAT SKUA	1578	0	1578
512	ANTARCTIC SKUA	2414	0	2414
514	ARCTIC SKUA	1	0	1
521	SOUTHERN BLACK-BACKED GULL	70320	1157	71477
523	RED-BILLED GULL	90289	573	90862
524	BLACK-BILLED GULL	37092	426	37518
527	CASPIAN TERN	5469	51	5520

Species number and name		Total pre-1992	Total 1992/93	Total for all years
525	BLACK-FRONTED TERN	1372	15	1387
529	ANTARCTIC TERN	158	0	158
531	FAIRY TERN	14	5	19
532	WHITE-FRONTED TERN	23600	54	23654
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	174	0	174
552	CHATHAM ISLAND PIGEON	21	24	45
553	ROCK PIGEON	60	0	60
554	MALAY SPOTTED DOVE	10	0	10
555	BARBARY DOVE	1	0	1
561	KAKAPO	81	3	84
562	NORTH ISLAND KAKA	20	51	71
563	SOUTH ISLAND KAKA	69	13	82
564	KEA	1409	13	1422
566	EASTERN ROSELLA	2	0	2
572	ANTIPODES ISLAND PARAKEET	69	0	69
567	KERMADEC PARAKEET	7	0	7
568	RED-CROWNED PARAKEET	768	0	768
569	CHATHAM ISLAND RED-CROWNED PARAKEET	1	0	1
570	REISCHECK'S PARAKEET	56	0	56
573	YELLOW-CROWNED PARAKEET	133	9	142
574	CHATHAM ISLAND YELLOW-CROWNED PARAKEET	9	0	9
583	SHINING CUCKOO	71	1	72
584	LONG-TAILED CUCKOO	4	0	4
601	MOREPORK	51	0	51
604	LITTLE OWL	16	0	16
621	NEW ZEALAND KINGFISHER	252	13	265
641	NORTH ISLAND RIFLEMAN	150	0	150
642	SOUTH ISLAND RIFLEMAN	1103	25	1128
646	ROCK WREN	9	0	9
651	SKYLARK	42	0	42
662	WELCOME SWALLOW	362	21	383
741	NEW ZEALAND PIPIT	47	2	49
731	HEDGESPARROW	2309	90	2399
701	NORTH ISLAND FERNBIRD	34	0	34
702	SOUTH ISLAND FERNBIRD	257	1	258
703	STEWART ISLAND FERNBIRD	27	0	27
706	SNARES FERNBIRD	152	0	152
711	BROWN CREEPER	297	0	297
712	WHITEHEAD	363	0	363
713	YELLOWHEAD	133	15	148
714	GREY WARBLER	1052	39	1091
715	CHATHAM ISLAND WARBLER	74	0	74
681	NORTH ISLAND FANTAIL	631	42	673
682	SOUTH ISLAND FANTAIL	870	7	877
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

Species number and name		Total pre-1992	Total 1992/93	Total for all years
689	NORTH ISLAND ROBIN	65	53	118
690	SOUTH ISLAND ROBIN	2431	97	2528
691	STEWART ISLAND ROBIN	10	0	10
692	BLACK ROBIN	286	0	286
721	SONG THRUSH	3176	136	3312
722	BLACKBIRD	7227	334	7561
761	SILVEREYE	64955	4919	69874
751	STITCHBIRD	330	68	398
753	BELLBIRD	5999	52	6051
755	TUI	961	4	965
756	CHATHAM ISLAND TUI	1	0	1
775	YELLOWHAMMER	1027	73	1100
776	CIRL BUNTING	27	0	27
774	CHAFFINCH	2974	157	3131
771	GREENFINCH	7616	574	8190
772	GOLDFINCH	3288	163	3451
773	REDPOLL	8068	25	8093
781	HOUSE SPARROW	31867	1882	33749
791	STARLING	18040	210	18250
792	INDIAN MYNA	1399	2	1401
821	NORTH ISLAND SADDLEBACK	1959	238	2197
822	SOUTH ISLAND SADDLEBACK	289	0	289
824	NORTH ISLAND KOKAKO	71	79	150
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		1105994	23659	1129653

[] 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 have been banded, but early records are not available.

Table 2 Banding totals by age and sex. (For column headings abbreviations, see end of Table)

Species number and name		PU	JM	JF	JU	AM	AF	AU	UM	OF	UU	RB	TOTAL
001	NORTH ISLAND BROWN KIWI	0	0	0	8	6	6	0	0	0	0	0	20
004	LITTLE SPOTTED KIWI	0	4	3	5	27	30	0	0	0	1	2	72
012	YELLOW-EYED PENGUIN	134	0	0	4	46	44	22	0	0	0	0	250
026	NORTHERN BLUE PENGUIN	0	0	0	0	0	0	36	0	0	0	0	36
014	COOK STRAIT BLUE PENGUIN	10	1	1	0	45	44	1	0	0	0	1	103
016	WHITE-FLIPPERED BLUE PENGUIN	610	0	0	0	0	0	0	0	0	0	0	610
015	SOUTHERN BLUE PENGUIN	94	0	0	0	31	20	276	0	0	0	0	421
019	FIORDLAND CRESTED PENGUIN	25	0	0	0	1	0	0	0	0	0	0	26
041	WANDERING ALBATROSS	14	0	0	0	0	0	200	0	0	0	0	214
044	NORTHERN ROYAL ALBATROSS	22	0	0	0	0	0	9	0	0	128	0	159
043	SOUTHERN ROYAL ALBATROSS	438	0	0	0	0	0	216	0	0	0	61	715
045	BLACK-BROWED MOLLYMAWK	2	0	0	0	0	0	3	0	0	0	0	5
046	NEW ZEALAND BLACK-BROWED MOLLYMAWK	618	0	0	0	0	0	59	0	0	0	48	725
047	GREY-HEADED MOLLYMAWK	62	0	0	0	0	0	1-51	0	0	0	28	241
049	BULLER'S MOLLYMAWK	170	0	0	0	0	0	229	0	0	0	0	400
050	WHITE-CAPPED (SHY) MOLLYMAWK	0	0	0	0	0	0	30	0	0	0	0	30
051	CHATHAM ISLAND MOLLYMAWK	545	0	0	0	0	0	0	0	0	0	0	54-5
093	GREY-FACED PETREL	712	0	0	0	16	5	360	0	0	0	13	1106
098	MOTTLED PETREL	0	0	0	0	0	0	31	0	0	0	0	31
111	CHATHAM ISLAND TAIKO	1	0	0	0	0	1	1	0	0	0	0	3
101	PYCROFT'S PETREL	92	0	0	0	20	23	102	0	0	0	0	237
104	COOK'S PETREL	0	0	0	0	0	0	5	0	0	0	0	5
090	BLACK PETREL	5	0	0	0	22	17	12	0	0	1	0	57
091	WESTLAND BLACK PETREL	220	0	0	0	0	0	0	0	0	0	0	220
077	FLESH-FOOTED SHEARWATER	0	0	0	0	1	10	10	0	0	0	0	21
080	SOOTY SHEARWATER	14	0	0	47	0	0	93	0	0	0	0	154
082	FLUTTERING SHEARWATER	61	0	0	0	0	0	4	0	0	0	0	65
086	NORTH ISLAND LITTLE (ALLIED) SHEARWATER	11	0	0	0	0	0	122	0	0	0	0	133
131	NORTHERN DIVING PETREL	0	0	0	0	1	0	26	0	0	0	0	27
132	SOUTHERN DIVING PETREL	0	0	0	0	0	0	1	0	0	0	0	1
134	SOUTH GEORGIAN DIVING PETREL	0	0	0	0	0	0	4	0	0	0	0	4
171	BLACK SHAG	18	0	0	0	0	0	0	0	0	0	0	18
182	SPOTTED SHAG	26	0	0	0	0	0	0	0	0	0	0	26
215	REEF HERON	13	0	0	0	0	0	0	0	0	0	0	13

Species number and name	PU	JM	JF	JU	AM	AF	AU	UM	OF	UU	RB	TOTAL
233 ROYAL SPOONBILL	26	0	0	0	0	0	0	0	0	0	0	26
241 CANADA GOOSE	0	126	127	0	26	48	2	0	0	0	0	329
245 PARADISE SHELDUCK	0	0	0	0	119	100	0	0	0	0	0	219
254 BLUE DUCK	0	10	7	8	25	11	0	0	0	0	2	63
272 AUSTRALASIAN HARRIER	4	38	34	2	50	37	13	0	0	0	0	178
281 NEW ZEALAND FALCON	0	2	5	0	0	0	0	0	0	0	0	7
299 RED-LEGGED PARTRIDGE	0	197	221	424	92	78	62	0	0	0	0	1074
293 PHEASANT	0	189	1	0	1	0	0	0	0	0	0	191
335 NORTH ISLAND WEKA	3	26	13	1	36	17	2	0	0	3	2	103
338 STEWART ISLAND WEKA	0	0	0	0	0	0	0	0	0	35	0	35
343 NOTORNIS	0	2	3	2	0	0	0	0	0	0	0	7
401 SOUTH ISLAND PIED OYSTERCATCHER	27	0	0	70	12	14	356	0	0	0	0	479
402 VARIABLE OYSTERCATCHER	8	0	0	0	2	3	0	0	0	0	0	13
413 LEAST GOLDEN (PACIFIC GOLDEN) PLOVER	0	0	0	0	0	0	1	0	0	0	0	1
418 NEW ZEALAND DOTTEREL	44	0	0	7	7	6	41	0	0	0	5	110
415 BANDED DOTTEREL	40	0	0	0	40	85	11	0	0	0	8	184
422 BLACK-FRONTED DOTTEREL	1	0	0	0	0	0	35	0	0	0	0	36
419 NEW ZEALAND SHORE PLOVER	5	0	0	26	4	1	1	0	0	0	98	135
420 WRYBILL	3	0	0	49	1	6	746	0	0	344	51	1200
445 EASTERN BAR-TAILED GODWIT	0	0	0	10	0	0	60	0	0	0	0	70
448 TEREK SANDPIPER	0	0	0	0	0	0	1	0	0	0	0	1
451 TURNSTONE	0	0	0	0	0	0	0	0	0	0	1	1
458 KNOT	0	0	0	95	0	0	881	0	0	0	6	982
461 CURLEW SANDPIPER	0	0	0	0	0	0	15	0	0	0	0	15
462 RED-NECKED STINT	0	0	0	1	0	0	1	0	0	0	0	2
481 PIED STILT	80	0	0	1	0	0	35	0	0	0	0	116
521 SOUTHERN BLACK-BACKED GULL	1157	0	0	0	0	0	0	0	0	0	0	1157
523 RED-BILLED GULL	478	0	0	0	36	59	0	0	0	0	37	610
524 BLACK-BILLED GULL	426	0	0	0	0	0	0	0	0	0	6	432
527 CASPIAN TERN	51	0	0	0	0	0	0	0	0	0	0	51
525 BLACK-FRONTED TERN	15	0	0	0	0	0	0	0	0	0	0	15
531 FAIRY TERN	5	0	0	0	0	0	0	0	0	0	0	5
532 WHITE-FRONTED TERN	54	0	0	0	0	0	0	0	0	0	0	54
552 CHATHAM ISLAND PIGEON	23	0	0	0	0	0	1	0	0	0	0	24
561 KAKAPO	2	0	1	0	0	0	0	0	0	0	5	8
562 NORTH ISLAND KAKA	0	14	8	4	14	11	0	0	0	0	0	51

Species number and name	PU	JM	JF	JU	AM	AF	AU	UM	OF	UU	RB	TOTAL
563 SOUTH ISLAND KAKA	0	0	0	6	5	2	0	0	0	0	0	13
564 KEA	0	8	1	0	3	1	0	0	0	0	0	13
573 YELLOW-CROWNED PARAKEET	0	1	0	0	8	0	0	0	0	0	0	9
583 SHINING CUCKOO	0	0	0	0	0	0	1	0	0	0	0	1
621 NEW ZEALAND KINGFISHER	0	0	0	8	0	0	4	0	0	1	0	13
642 SOUTH ISLAND RIFLEMAN	0	7	18	0	0	0	0	0	0	0	0	25
662 WELCOME SWALLOW	0	0	0	2	0	0	19	0	0	0	0	21
741 NEW ZEALAND PIPIT	0	0	0	0	0	0	2	0	0	0	0	2
731 HEDGESPARROW	0	0	0	11	0	0	71	0	0	8	0	90
702 SOUTH ISLAND FERNBIRD	0	0	0	0	0	0	1	0	0	0	0	1
713 YELLOWHEAD	2	0	0	0	6	7	0	0	0	0	0	15
714 GREY WARBLER	0	0	0	0	0	0	38	0	0	1	0	39
681 NORTH ISLAND FANTAIL	0	0	0	10	0	0	32	0	0	0	0	42
682 SOUTH ISLAND FANTAIL	0	0	0	2	0	0	4	0	0	1	0	7
689 NORTH ISLAND ROBIN	9	0	0	0	21	0	0	0	0	23	0	53
690 SOUTH ISLAND ROBIN	7	0	0	39	21	19	10	0	0	1	0	97
721 SONG THRUSH	0	0	0	23	0	0	99	0	0	14	0	136
722 BLACKBIRD	2	35	34	32	130	95	2	0	1	3	1	335
761 SILVEREYE	0	0	0	18	0	0	4901	0	0	0	0	4919
751 STITCHBIRD	8	4	5	0	27	24	0	0	0	0	0	68
753 BELLBIRD	0	5	0	1	8	4	34	0	0	0	0	52
755 TUI	0	0	0	0	0	0	4	0	0	0	0	4
775 YELLOWHAMMER	0	1	0	1	44	26	0	0	0	1	0	73
774 CHAFFINCH	0	15	13	1	58	62	5	0	0	3	0	157
771 GREENFINCH	0	40	58	3	273	162	30	1	2	5	0	574
772 GOLDFINCH	0	3	5	12	69	37	37	0	0	0	0	163
773 REDPOLL	0	1	0	0	13	9	2	0	0	0	0	25
781 HOUSE SPARROW	0	197	162	284	709	506	24	0	0	0	0	1882
791 STARLING	0	6	5	48	31	31	89	0	0	0	0	210
792 INDIAN MYNA	0	0	0	2	0	0	0	0	0	0	0	2
821 NORTH ISLAND SADDLEBACK	74	4	4	5	81	48	2	0	0	20	2	240
824 NORTH ISLAND KOKAKO	32	0	0	1	8	6	32	0	0	0	0	79
Total	6503	936	729	1273	2196	1715	9710	1	3	593	378	24037

Abbreviations used in the column headings:

PU = Pullus of unknown sex

JM = Juvenile male

JF = Juvenile female

AM = Adult male

AF = Adult female

AU = Adult of unknown sex

UM = Male of unknown age

OF = Female of unknown age

UU = Unknown age and sex

RB = Birds re-banded

**Table 3 Recoveries added to the computer files during the report year.
(Figures in the repeat column are already incorporated in the the total column.)**

Species number and name	Dead	Alive	Total	Repeat	
012	YELLOW-EYED PENGUIN	3	9	12	1
026	NORTHERN BLUE PENGUIN	1	0	1	0
014	COOK STRAIT BLUE PENGUIN	3	45	48	31
016	WHITE-FLIPPED BLUE PENGUIN	32	278	310	203
041	WANDERING ALBATROSS	0	13	13	0
044	NORTHERN ROYAL ALBATROSS	0	2	2	0
043	SOUTHERN ROYAL ALBATROSS	1	0	1	0
046	NEW ZEALAND BLACK-BROWED MOLLYMAWK	1	0	1	0
109	NORTHERN GIANT PETREL	0	1	1	0
093	GREY FACED PETREL	2	10	12	0
111	CHATHAM ISLAND TAIKO	0	1	1	0
101	PYCROFT'S PETREL	0	1	1	0
104	COOK'S PETREL	0	5	5	1
066	BROAD-BILLED PRION	0	1	1	0
073	FAIRY PRION	1	88	89	37
090	BLACK PETREL	2	3	5	0
091	WESTLAND BLACK PETREL	6	30	36	19
080	SOOTY SHEARWATER	0	1	1	1
086	NORTH ISLAND LITTLE (ALLIED) SHEARWATER	0	2	2	0
161	AUSTRALASIAN GANNET	15	2	17	3
173	LITTLE BLACK SHAG	1	0	1	0
182	SPOTTED SHAG	2	0	2	0
233	ROYAL SPOONBILL	0	40	40	34
243	BLACK SWAN	38	1	39	0
241	CANADA GOOSE	20	1	21	5
245	PARADISE SHELDUCK	57	0	57	7
252	MALLARD	38	1	39	2
253	NEW ZEALAND SHOVELER	3	0	3	0
254	BLUE DUCK	1	0	1	1
272	AUSTRALASIAN HARRIER	15	41	56	20
299	RED-LEGGED PARTRIDGE	1	0	1	0
293	PHEASANT	32	1	33	0
335	NORTH ISLAND WEKA	0	11	11	6
401	SOUTH ISLAND PIED OYSTERCATCHER	0	84	84	23
402	VARIABLE OYSTERCATCHER	2	1	3	1
418	NEW ZEALAND DOTTEREL	2	160	162	107
415	BANDED DOTTEREL	0	1	1	0
420	WRYBILL	0	3	3	2
445	EASTERN BAR-TAILED GODWIT	1	2	3	1
454	SNARES ISLAND SNIPE	0	133	133	121
458	KNOT	2	9	11	0
481	PIED STILT	1	108	109	59
482	BLACK STILT	0	1	1	0
521	SOUTHERN BLACK-BACKED GULL	60	26	86	1
523	RED-BILLED GULL	37	859	896	135
524	BLACK-BILLED GULL	1	1	2	0
527	CASPIAN TERN	2	13	15	11
529	ANTARCTIC TERN	0	13	13	6
531	FAIRY TERN	0	1	1	0

Species number and name	Dead	Alive	Total	Repeat
532 WHITE-FRONTED TERN	2	0	2	0
562 NORTH ISLAND KAKA	2	3	5	0
564 KEA	2	3	5	2
731 HEDGESPARROW	1	1	2	0
690 SOUTH ISLAND ROBIN	1	1	2	0
721 SONG THRUSH	3	2	5	0
722 BLACKBIRD	10	1	11	0
761 SILVEREYE	14	357	371	250
751 STITCHBIRD	0	2	2	2
753 BELLBIRD	4	0	4	0
774 CHAFFINCH	1	0	1	0
771 GREENFINCH	3	0	3	0
772 GOLDFINCH	1	0	1	0
781 HOUSE SPARROW	23	3	26	0
791 STARLING	4	0	4	0
821 NORTH ISLAND SADDLEBACK	0	13	13	0
Total	454	2389	2843	1092

Table 4 Summary per permit (rebands included).

Permit holder	Birds Banded	Permit holder	Birds Banded
PERMIT 0002 MILLS DR J A		PERMIT 0093 SAGAR P M	
RED-BILLED GULL	610	SOUTH ISLAND PIED OYSTERCATCHER	32
Subtotal	610	Subtotal	32
PERMIT 0005 ROBERTSON C J R		PERMIT 0104 D S I R LAND RESOURCES	
NORTHERN ROYAL ALBATROSS	159	SOUTHERN BLACK-BACKED GULL	73
SOUTHERN ROYAL ALBATROSS	50	SOUTH ISLAND KAKA	13
CHATHAM ISLAND MOLLYMAWK	545	HEDGESPARROW	2
Subtotal	754	GREY WARBLER	1
PERMIT 0022 ROWE K		SOUTH ISLAND FANTAIL	1
STARLING	23	SOUTH ISLAND ROBIN	33
Subtotal	23	SONG THRUSH	7
PERMIT 0036 BARTLE J A		BLACKBIRD	18
WESTLAND BLACK PETREL	220	SILVEREYE	115
Subtotal	220	BELLBIRD	27
PERMIT 0041 BULL DR P C		TUI	3
SILVEREYE	107	CHAFFINCH	16
Subtotal	107	GREENFINCH	6
PERMIT 0042 CHALLIES C N		GOLDFINCH	6
WHITE-FLIPPED BLUE PENGUIN	610	HOUSE SPARROW	1
SOUTHERN BLACK-BACKED GULL	28	Subtotal	322
Subtotal	638	PERMIT 0108 CAMPBELL ISLAND PARTY	
PERMIT 0044 COWIE J A		YELLOW-EYED PENGUIN	241
BLACK-BILLED GULL	432	WANDERING ALBATROSS	11
WHITE-FRONTED TERN	42	SOUTHERN ROYAL ALBATROSS	665
Subtotal	474	BLACK-BROWED MOLLYMAWK	5
PERMIT 0053 BARLOW MRS C E		NEW ZEALAND BLACK-BROWED MOLLYMAWK	725
CASPIAN TERN	42	GREY HEADED MOLLYMAWK	241
Subtotal	42	Subtotal	1888
PERMIT 0068 IMBER M J		PERMIT 0164 AUCKLAND/WAIKATO FISH & GAME COUNCIL	
GREY-FACED PETREL	3	CANADA GOOSE	14
MOTTLED PETREL	31	RED-LEGGED PARTRIDGE	62
CHATHAM ISLAND TAIKO	3	Subtotal	76
COOK'S PETREL	5	PERMIT 0167 TARANAKI FISH & GAME COUNCIL	
BLACK PETREL	35	PHEASANT	125
SOUTHERN DIVING PETREL	1	Subtotal	125
SOUTH GEORGIAN DIVING PETREL	4	PERMIT 0172 HAWKES BAY FISH & GAME COUNCIL	
Subtotal	82	RED-LEGGED PARTRIDGE	262
PERMIT 0076 BELL BRIAN D		PHEASANT	66
FLUTTERING SHEARWATER	61	Subtotal	328
SOUTHERN BLACK-BACKED GULL	37	PERMIT 0174 NELSON/MARLBOROUGH FISH & GAME COUNCIL	
HEDGESPARROW	1	RED-LEGGED PARTRIDGE	278
SILVEREYE	303	Subtotal	278
CHAFFINCH	4		
GREENFINCH	19		
GOLDFINCH	2		
HOUSE SPARROW	181		
Subtotal	608		

Permit holder	Birds Banded	Permit holder	Birds Banded
PERMIT 0179 SOUTH CANTERBURY FISH & GAME COUNCIL		SONG THRUSH	7
PARADISE SHELDUCK	219	BLACKBIRD	18
RED-LEGGED PARTRIDGE	400	SILVEREYE	282
Subtotal	619	YELLOWHAMMER	1
PERMIT 0215 TORR O C		CHAFFINCH	30
HEDGESPARROW	1	GREENFINCH	68
SONG THRUSH	4	GOLDFINCH	1
BLACKBIRD	2	HOUSE SPARROW	1
SILVEREYE	28	STARLING	17
YELLOWHAMMER	1	Subtotal	466
CHAFFINCH	1	PERMIT 0275 BEAUCHAMP A J	
HOUSE SPARROW	54	NORTH ISLAND WEKA	59
STARLING	13	Subtotal	59
INDIAN MYNA	2	PERMIT 0277 SHERLEY G H	
Subtotal	106	SOUTH ISLAND RIFLEMAN	25
PERMIT 0243 SIM D M		Subtotal	25
FLESH-FOOTED SHEARWATER	3	PERMIT 0278 N Z WADER STUDY GROUP	
AUSTRALASIAN HARRIER	14	SOUTH ISLAND PIED OYSTERCATCHER	419
SILVEREYE	228	LEAST GOLDEN PLOVER	
Subtotal	245	(PACIFIC GOLDEN PLOVER)	1
PERMIT 0244 POWLESLAND DR R G		NEW ZEALAND DOTTEREL	1
BLACK SHAG	18	BANDED DOTTEREL	3
CHATHAM ISLAND PIGEON	24	WRYBILL	1183
Subtotal	42	EASTERN BAR-TAILED GODWIT	70
PERMIT 0246 PIERCE R J		TEREK SANDPIPER	1
FAIRY TERN	5	TURNSTONE	1
Subtotal	5	KNOT	982
PERMIT 0257 ONLEY D J		CURLEW SANDPIPER	15
HEDGESPARROW	3	RED-NECKED STINT	2
GREY WARBLER	2	PIED STILT	2
SONG THRUSH	1	Subtotal	2680
BLACKBIRD	2	PERMIT 0282 DUCKS UNLIMITED (NZ)	
SILVEREYE	275	CANADA GOOSE	112
YELLOWHAMMER	2	Subtotal	112
CHAFFINCH	4	PERMIT 0285 RAPTOR ASSOCIATION OF NZ	
GREENFINCH	41	AUSTRALASIAN HARRIER	47
GOLDFINCH	4	NEW ZEALAND FALCON	7
REDPOLL	1	Subtotal	54
HOUSE SPARROW	45	PERMIT 0291	
STARLING	1	NORTHLAND/FAR NORTH REG OSNZ	
Subtotal	381	SOUTHERN BLACK-BACKED GULL	116
PERMIT 0259 MASSEY UNIVERSITY		Subtotal	116
NORTH ISLAND WEKA	32	PERMIT 0292 ROWE L K	
HEDGESPARROW	1	HEDGESPARROW	1
GREY WARBLER	1	BLACKBIRD	25
NORTH ISLAND FANTAIL	7	SILVEREYE	49
		Subtotal	75

Permit holder	Birds Banded	Permit holder	Birds Banded
PERMIT 0294		WELCOME SWALLOW	20
CANTERBURY PASSERINE GROUP		NEW ZEALAND PIPIT	2
HEDGESPARROW	14	HEDGESPARROW	66
GREY WARBLER	4	SOUTH ISLAND FERNBIRD	1
SOUTH ISLAND FANTAIL	4	GREY WARBLER	28
SONG THRUSH	7	NORTH ISLAND FANTAIL	31
BLACKBIRD	29	SOUTH ISLAND FANTAIL	2
SILVEREYE	606	SONG THRUSH	87
BELLBIRD	17	BLACKBIRD	195
CHAFFINCH	11	SILVEREYE	2069
GREENFINCH	13	BELLBIRD	8
GOLDFINCH	10	TUI	1
REDPOLL	3	YELLOWHAMMER	69
HOUSE SPARROW	65	CHAFFINCH	77
STARLING	4	GREENFINCH	358
Subtotal	787	GOLDFINCH	127
		REDPOLL	21
PERMIT 0295 CANTERBURY UNIVERSITY		HOUSE SPARROW	1271
FIORDLAND CRESTED PENGUIN	26	STARLING	68
Subtotal	26	Subtotal	4513
PERMIT 0297 AUCKLAND UNIVERSITY		PERMIT 0325	
NORTH ISLAND ROBIN	53	OSNZ AUCKLAND SEABIRD GROUP	
SOUTH ISLAND ROBIN	64	NORTHERN BLUE PENGUIN	36
NORTH ISLAND SADDLEBACK	221	GREY-FACED PETREL	504
Subtotal	338	PYCROFT'S PETREL	135
PERMIT 0298 WILSON K-J		BLACK PETREL	21
KEA	13	FLESH-FOOTED SHEARWATER	18
Subtotal	13	SOOTY SHEARWATER	39
PERMIT 0307 COSSEE R O		FLUTTERING SHEARWATER	3
COOK STRAIT BLUE PENGUIN	103	NORTH ISLAND LITTLE (ALLIED)	
SPOTTED SHAG	26	SHEARWATER	102
REEF HERON	1	NORTHERN DIVING PETREL	27
VARIABLE OYSTERCATCHER	13	Subtotal	885
BANDED DOTTEREL	3	PERMIT 0329 VICTORIA UNIVERSITY	
SOUTHERN BLACK-BACKED GULL	903	NORTH ISLAND KAKA	40
WHITE-FRONTED TERN	12	Subtotal	40
SILVEREYE	210	PERMIT 0332	
Subtotal	1271	STILT RESEARCH GROUP OSNZ	
PERMIT 0317		PIED STILT	114
BANDED DOTTEREL STUDY GROUP		Subtotal	114
BLACK-FRONTED DOTTEREL	36	PERMIT 0337	
Subtotal	36	ROYAL SPOONBILL PROJECT OSNZ	
PERMIT 0323		ROYAL SPOONBILL	26
DOWDING J (N Z DOTTEREL GRP)		Subtotal	26
NEW ZEALAND DOTTEREL	109	PERMIT 0338	
Subtotal	109	WELLINGTON CONSERVANCY DOC	
PERMIT 0324		SOOTY SHEARWATER	110
PASSERINE GROUP OSNZ CENTRAL		NOTORNIS	7
SHINING CUCKOO	1	STITCHBIRD	2
NEW ZEALAND KINGFISHER	11	NORTH ISLAND SADDLEBACK	1
		Subtotal	120

Permit holder	Birds Banded	Permit holder	Birds Banded
PERMIT 0339 TAYLOR T J		NORTH ISLAND LITTLE	
AUSTRALASIAN HARRIER	5	(ALLIED) SHEARWATER	31
Subtotal	5	Subtotal	135
PERMIT 0340		PERMIT 0351 CORKS C	
NORTHLAND PASSERINE GROUP		SONG THRUSH	8
NEW ZEALAND KINGFISHER	1	BLACKBIRD	8
GREY WARBLER	2	SILVEREYE	2
SONG THRUSH	9	GREENFINCH	15
BLACKBIRD	9	HOUSE SPARROW	93
SILVEREYE	309	STARLING	7
CHAFFINCH	1	Subtotal	133
GREENFINCH	3	PERMIT 0354 SCADDEN C	
GOLDFINCH	4	CASPIAN TERN	9
Subtotal	338	Subtotal	9
PERMIT 0341 OSNZ NELSON/MARLBOROUGH		PERMIT 0356	
AUSTRALASIAN HARRIER	4	KAKAPO RECOVERY GROUP DOC	
Subtotal	4	KAKAPO	1
PERMIT 0342		Subtotal	1
PASSERINE GRP OSNZ WANGANUI		PERMIT 0357 CASTRO I	
NEW ZEALAND KINGFISHER	1	STITCHBIRD	66
WELCOME SWALLOW	1	Subtotal	66
GREY WARBLER	1	PERMIT 0358 DOC MOLLYMAWK PROJECT	
NORTH ISLAND FANTAIL	3	BULLER'S MOLLYMAWK	400
SONG THRUSH	5	Subtotal	400
BLACKBIRD	23	PERMIT 0361 LOVEI G	
SILVEREYE	129	HEDGESPARROW	1
CHAFFINCH	4	NORTH ISLAND FANTAIL	1
GOLDFINCH	7	SONG THRUSH	1
HOUSE SPARROW	171	BLACKBIRD	6
STARLING	72	SILVEREYE	207
Subtotal	417	CHAFFINCH	9
PERMIT 0345		GREENFINCH	51
EASTERN FISH & GAME COUNCIL		GOLDFINCH	2
CANADA GOOSE	203	STARLING	5
RED-LEGGED PARTRIDGE	72	Subtotal	283
Subtotal	275	PERMIT 0363 STAPLES G C	
PERMIT 0346		NORTH ISLAND WEKA	12
DOC AUCKLAND ISLAND PROJECTS		Subtotal	12
WANDERING ALBATROSS	203	PERMIT 0364 KOKAKO RECOVERY GROUP	
WHITE-CAPPED (SHY) MOLLYMAWK	30	NORTH ISLAND KOKAKO	20
Subtotal	233	Subtotal	20
PERMIT 0348 HARDING M A		PERMIT 0365 MILLS R, LANDCARE	
BLUE DUCK	7	AUSTRALASIAN HARRIER	81
Subtotal	7	Subtotal	81
PERMIT 0349 NORTHLAND SEABIRD GROUP		PERMIT 1125 NORTHERN REGION DOC	
PYCROFT'S PETREL	102	REEF HERON	12
BLACK PETREL	1	Subtotal	12
FLUTTERING SHEARWATER	1		

Permit holder	Birds Banded	Permit holder	Birds Banded
PERMIT 3125 EASTERN REGION DOC		PERMIT 8125 SOUTHERN REGION DOC	
NORTH ISLAND SADDLEBACK	18	SOUTHERN BLUE PENGUIN	421
Subtotal	18	STEWART ISLAND WEKA	35
PERMIT 4125 WANGANUI REGION DOC		Subtotal	456
BLUE DUCK	15	PERMIT 9125 SCIENCE & RESEARCH DOC	
Subtotal	15	NORTH ISLAND BROWN KIWI	20
PERMIT 5125		LITTLE SPOTTED KIWI	72
NELSON/MARLBOROUGH REG DOC		YELLOW-EYED PENGUIN	9
SOOTY SHEARWATER	5	GREY-FACED PETREL	599
BLUE DUCK	12	BLUE DUCK	25
Subtotal	17	KAKAPO	7
PERMIT 7125 CANTERBURY REGION DOC		NORTH ISLAND KAKA	11
BLUE DUCK	4	YELLOW-CROWNED PARAKEET	9
AUSTRALASIAN HARRIER	27	YELLOWHEAD	15
SOUTH ISLAND PIED OYSTERCATCHER	28	NORTH ISLAND KOKAKO	59
BANDED DOTTEREL	178	Subtotal	826
NEW ZEALAND SHORE PLOVER	135	Total	
WRYBILL	17	24037	
BLACK-FRONTED TERN	15		
Subtotal	404		

APPENDIX 1

Research supported by bird banding during 1992/93

(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 Albatross, 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, 0257, 0277, 0292, 0294, 0297, 0307, 0324, 0333, 0335, 0338, 0340, 0342, 0351, 0361, 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 and Black-billed Gulls. (0044)

Distribution, movements and longevity of Caspian Terns. (0053)

Population dynamics, longevity, age of first breeding, migration dispersal and movements of Procelariiformes. (0062, 0068, 0076, 0243, 0325, 0338, 0346, 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 South Island Paradise Shelduck. (0179)

Population dynamics of Canada geese. (0164, 0282, 0345)

Population dynamics and dispersal of Black Shag in the lower North Island. (0244)

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 North Island Weka in the wild and those of aviary bred stock released into the wild. (0259, 0275, 0363)

Population dynamics of Little Blue Penguins. (0042, 0266, 0307)

Population dynamics of South Island Rifleman in Kowhai BUsh, Kaikoura. (0277)

Migration patterns in waders. (0278, 7125)

Population dynamics in North Island Canada Geese. (0282, 0345)

Biology and distribution of New Zealand Raptors. (0243, 0285, 0339, 0341)

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

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

Population dynamics of North and South Island Robins. (0297)

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

Behaviour and population dynamics of Kea. (0298)

Population dynamics and ecology of the Yellow-eyed Penguin. (0108, 0301, 9125)

Productivity of seabirds in and around Wellington Harbour. (0307)

Dispersal of Black-fronted Dotterel outside the breeding season. (0317)

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)

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)

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

Natal dispersal of Blue Duck. (0348, 4125, 9125)

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. (0324, 9125)

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

NOTE: *Although some permit numbers in the above list do not appear in Table 4, these permits were active, but banding data arrived too late to be included in this report.*