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**REPORT ON BIRD BANDING  
IN NEW ZEALAND:  
1990-1991**

**by**

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**ABSTRACT**

During the 1990/91 banding year 20,439 birds of 97 species were banded and 189 previously banded birds were re-banded, bringing the grand total of individual birds banded in New Zealand over the years since 1950 to 1,083,125. Two species previously not banded, Chatham Island Blue Penguin and Royal Spoonbill, were banded during the year. A total of 5601 recoveries were added to the computer files. Bird banding supported a large variety of research projects and was regulated by 27 individual permits and 28 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 the Science & Research Division.

The objective of the scheme is to accurately record information about habits 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 1990/91 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 1990 and 31 March 1991. They may include some records for birds banded in previous years, however, as schedules not received in time for inclusion in the 1989/90 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 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 1990/91 banding season 20,439 birds of 97 species were banded and 189 previously banded birds were re-banded. Non-game species contributed 16,855 (82.5%) and game species 3,584 (17.5%) to the new birds banded. During this report season non-game banding increased by about 25%, but there was a marked decline in the number of game birds banded; numbers fell by about 50%. The possible reason for this decline is the fact that the Department of Conservation's game management roles have been transferred to the newly founded Fish & Game councils, many of which do not yet have the staffing levels nor the finance to mount large banding operations.

The total number of birds banded in New Zealand increased to 1,083,125 (previously 1,062,686). Of these birds 160,538 (14.8%) have been recovered at least once, while many of them have been recovered on multiple occasions. The total number of recoveries held on the computer files now stands at 254,700.

The total number of species banded during the existence of the Scheme increased by two to 229, with Chatham Island Blue Penguin and Royal Spoonbill being banded for the first time.

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

Table 2 summarises by age and sex the birds banded during the 1990/191 season. Also included in this table are the 189 birds that were re-banded during the year. They can be found under the heading 'RB'. I included these birds to illustrate the overall banding effort.

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

#### **4 RECOVERIES**

A total of 5,601 recoveries was 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. This is mainly because of decreased staffing levels and an increased workload for present staff. 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 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 5,601 recoveries processed during the year 2,046 records (36.5%) were for birds recovered dead and 3,555 (63.5%) for birds recovered alive (either actively caught or sight recoveries of birds with individual colour combinations or readable bands). Of all these recoveries 1,885 birds (33.6%) were recovered at least once before.

Of the 2,046 birds recovered dead 1,595 (78%) were game and 451 (22%) were nongame species. The 3,555 live recoveries consisted of 1,096 (30.8%) game and 2,459 (69.2%) non-game birds. The 1,885 repeat recoveries were made up of 646 (43.3%) game and 1,239 (65.7%) non-game species.

Dead and live recoveries combined for each species group are 2,691 (48%) and 2,910 (52%) respectively.

Some notable recoveries are listed below.

C-45972, an adult **KNOT** banded at Miranda, Firth of Thames on 3-11-90 was caught in Wasur National Park, West Irian in April 1992. Another **KNOT** banded at Miranda on the same date was recovered in the Miao-Gang Yangtze River Estuary in China on 14-4-91. In both cases the birds were apparently taken for food.

A **BLACK PETREL**, H-27735, banded as a pullus on 29-4-90 on Little Barrier Island, was collected as a study specimen off Salinas, Ecuador on 4-5-91. The specimen is now at the Philadelphia Academy.

Two **SOOTY SHEARWATERS** were caught in driftnets in the North Pacific Ocean. 2-6872 was banded as an adult in the Snares Islands on 13-1-69 and died on 16-8-91. 2-12453 was caught on 24-5-91. It was banded as an adult on 14-3-74 on Big South Cape Island.

**SOUTHERN GIANT PETREL** V-11158, banded under the Brazilian scheme as a nestling on 16-2-90 at Stinker Point, Elephant Island, South Shetlands was found dead on Wellars Rock Beach, Otago Harbour on 5-8-90. A **SOUTHERN GIANT PETREL** banded on 22-2-89 as a nestling on Signy Island, South Orkneys by British Antarctic Survey was found dead on the beach near Lake Ellesmere on 24-4-90. Another BAS banded bird, this time a **WANDERING ALBATROSS**, was caught and released alive off East Cape on 22-6-90. The bird, which had been banded on 9-10-84 on Bird Island, South Georgia as a chick, had its foot caught in a tuna long-line.

A pilot scheme to re-introduce **FLUTTERING SHEARWATERS** (and hopefully other seabirds) to islands from which they have disappeared through predator pressure was started in 1991. About 100 birds that were close to fledging were transferred from Long Island to artificial burrows on Maud Island. The birds were banded, monitored and fed where necessary until they were ready to fledge. Two of these birds have since been recovered in Australia. They were both banded on 25-1-91. One was found on Pettman's Beach, Victoria, oiled and with about fifteen similar birds and the same number of Blue Penguins on 16-2-91. The other on Altona Beach, near Melbourne on 28-2-91.

The use of leg flags for migratory (basically colour bands that do not wrap around but are glued together with a flat piece of about one centimeter sticking out) and a greater international co-operation are realising results. Contributing countries along the flyways have been allocated their own colour, New Zealand's being white. We can so far report the following interesting sightings.



A New Zealand banded **BAR-TAILED GODWIT** was seen on 28-4-92 near Arao City, Kyushu, Japan, together with two metal banded birds. The flock consisted of over 500 birds.

Australian flagged **KNOTS** have been reported from the Mangere sewage ponds, Ruakaka and Miranda, a **RED-NECKED STINT** from Lake Ellesmere, and a **BAR-TAILED GODWIT** from the Ashley Estuary.

Several **CATTLE EGRETS**, individually wing-tagged in Australia, were seen in New Zealand. All were marked as chicks. One bird was marked on 14-12-89 at Fishery Creek, Ballina, New South Wales. It was seen on 20-6-90 at Rangiriri. The other two were marked at the Wetland Centre, Shortland, New South Wales on 22-12-89 and 12-1-91 respectively. The first was spotted on 11 & 12-4-91 at Rangiriri; the second on 19-4-91 at Tauroa Point, Ahipara.

## **5 REQUESTS FOR INFORMATION**

The New Zealand National Banding Scheme has serviced a range of requests for information or analyses in 1990-91. These included data for the Handbook of Australian, New Zealand and Antarctic Birds, as well as for the Antarctic Database, which is operated by South Africa. Life expectancy analyses were carried out for several game species. This work was done for the Fish & Game Councils, among other things to set bag limits for the following hunting season.

## **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.



**TABLE ONE**  
GENERAL BANDING TOTAL (REBRANDS EXCLUDED)

SPECIES NUMBER AND NAME	TOTAL PRE 1989	TOTAL 89/90	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	121	22	143
012 YELLOW-EYED PENGUIN	3753	189	3942
026 NORTHERN BLUE PENGUIN	615	0	615
014 COOK STRAIT BLUE PENGUIN	1974	43	2017
016 WHITE-FLIPPERED BLUE PENGUIN	10855	684	11539
015 SOUTHERN BLUE PENGUIN	726	0	726
027 CHATHAM ISLAND BLUE PENGUIN	0	15	15
017 ROCKHOPPER PENGUIN	2404	0	2404
019 FIORDLAND CRESTED PENGUIN	603	16	619
020 SNARES CRESTED PENGUIN	2179	0	2179
021 ERECT-CRESTED PENGUIN	43	0	43
041 WANDERING ALBATROSS	3002	1	3003
044 NORTHERN ROYAL ALBATROSS	2474	8	2482
043 SOUTHERN ROYAL ALBATROSS	32671	0	32671
045 BLACK-BROWED MOLLYMAWK	13	0	13
046 NEW ZEALAND BLACK-BROWED MOLLYMAWK	22325	193	22518
047 GREY-HEADED MOLLYMAWK	6340	42	6382
049 BULLER'S MOLLYMAWK	2102	0	2102
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	6	1	7
064 ANTARCTIC FULMAR	2	0	2
063 SNARES CAPE PIGEON	873	0	873
062 CAPE PIGEON	6800	0	6800
093 GREY-FACED PETREL	16971	404	17375
094 WHITE-HEADED PETREL	31	0	31
095 WHITE-NAPED PETREL	516	0	516
098 MOTTLED PETREL	382	36	418
110 SOFT-PLUMAGED PETREL	20	0	20
100 KERMADEC PETREL	950	0	950
111 CHATHAM ISLAND TAIKO	41	0	41
101 PYCROFT'S PETREL	465	177	642
102 GOULD'S PETREL	1	0	1
104 COOK'S PETREL	293	34	327
106 BLACK-WINGED PETREL	2738	30	2768
105 CHATHAM ISLAND PETREL	48	0	48
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

**TABLE ONE  
GENERAL BANDING TOTAL (REBRANDS EXCLUDED)**

<b>SPECIES NUMBER AND NAME</b>	<b>TOTAL PRE 1989</b>	<b>TOTAL 89/90</b>	<b>TOTAL FOR ALL YEARS</b>
073 FAIRY PRION	40317	3275	43952
075 FULMAR PRION	61	0	61
074 CHATHAM FULMAR PRION	2	0	2
089 GREY PETREL	8	0	8
090 BLACK PETREL	736	110	846
091 WESTLAND BLACK PETREL	3361	116	3477
092 WHITE-CHINNED PETREL	31	0	31
077 FLESH-FOOTED SHEARWATER	1719	30	1749
078 WEDGE-TAILED SHEARWATER	461	0	461
079 BULLER'S SHEARWATER	1049	0	1049
080 SOOTY SHEARWATER	6672	56	6728
115 CHRISTMAS ISLAND SHEARWATER	1	0	1
082 FLUTTERING SHEARWATER	1677	0110	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	465	35	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	0	775
124 WHITE-FACED STORM PETREL	6477	98	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	6925	214	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	15313	1171	16484
162 BROWN BOOBY	1	0	1
163 MASKED (BLUE-FACED) BOOBY	445	0	445
171 BLACK SHAG	511	11	522
172 PIED SHAG	168	0	168
173 LITTLE BLACK SHAG	954	0	954
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	443	14	457
216 WHITE-FACED HERON	14	0	14
213 WHITE HERON	2	0	2
215 REEF HERON	48	4	52
220 CATTLE EGRET	1	0	1
218 BITTERN	7	0	7
233 ROYAL SPOONBILL	0	11	11

**TABLE ONE  
GENERAL BANDING TOTAL (REBRANDS EXCLUDED)**

<b>SPECIES NUMBER AND NAME</b>	<b>TOTAL PRE 1989</b>	<b>TOTAL 89/90</b>	<b>TOTAL FOR ALL YEARS</b>
242 MUTE SWAN	4	0	4
243 BLACK SWAN	(59980)	0	(59980)
241 CANADA GOOSE	(53684)	293	(53977)
245 PARADISE SHELDUCK	(68212)	694	(68906)
252 MALLARD	(89150)	804	(89954)
259 HYBRID MALLARD (CROSS)	(1761)	0	(1761)
251 GREY DUCK	(34194)	31	(34225)
247 GREY TEAL	(1490)	0	(1490)
248 BROWN TEAL	(1634)	112	(1746)
249 AUCKLAND ISLAND TEAL	45	0	45
250 CAMPBELL ISLAND TEAL	3	0	3
253 NEW ZEALAND SHOVELER	(4494)	0	(4494)
254 BLUE DUCK	(172)	30	(202)
256 NEW ZEALAND SCAUP	(107)	0	(107)
— DUCK (GREY OR MALLARD)	[(13)]	0	[(13)]
272 AUSTRALASIAN HARRIER	4551	106	4657
28 1 NEW ZEALAND FALCON	44	3	47
296 CHUKOR	2177	5	2182
299 RED-LEGGED PARTRIDGE	17169	993	18162
300 RED-LEGGED PARTRIDGE (HYBRID)	42	0	42
298 GREY PARTRIDGE	(14215)	0	(14215)
292 BROWN QUAIL	18	0	18
295 CALIFORNIA QUAIL	(12204)	0	(12204)
293 PHEASANT	(57261)	729	(57990)
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	1845	35	1880
343 NOTORNIS	202	2	204
— WEKA SPECIES	[1]	0	[1]
401 SOUTH ISLAND PIED OYSTERCATCHER	1369	133	1502
402 VARIABLE OYSTERCATCHER	281	7	288
404 CHATHAM ISLAND OYSTERCATCHER	91	2	93
403 (BLACK OYSTERCATCHER)	101	0	101
411 SPUR-WINGED PLOVER	629	1	630
413 LEAST GOLDEN PLOVER (PACIFIC GOLDEN PLOVER)	3	1	4
418 NEW ZEALAND DOTTEREL	324	66	390
415 BANDED DOTTEREL	3904	9	3913
422 BLACK-FRONTED DOTTEREL	72	0	72
419 NEW ZEALAND SHORE PLOVER	415	18	433
420 WRYBILL	2404	24	2428
445 EASTERN BAR-TAILED GODWIT	235	234	469
451 TURNSTONE	12	1	13
453 CHATHAM ISLAND SNIPE	150	0	150

**TABLE ONE  
GENERAL BANDING TOTAL (REBRANDS EXCLUDED)**

<b>SPECIES NUMBER AND NAME</b>	<b>TOTAL PRE 1989</b>	<b>TOTAL 89/90</b>	<b>TOTAL FOR ALL YEARS</b>
454 SNARES ISLAND SNIPE	274	0	274
458 KNOT	2335	498	2833
461 CURLEW SANDPIPER	4	0	4
462 RED-NECKED STINT	1	0	1
481 PIED STILT	640	243	883
482 BLACK STILT	125	0	125
511 SOUTHERN GREAT SKUA	1578	0	1578
512 ANTARCTIC SKUA	2414	0	2414
514 ARCTIC SKUA	1	0	1
521 SOUTHERN BLACK-BACKED GULL	68523	775	69298
523 RED-BILLED GULL	88783	757	89540
524 BLACK-BILLED GULL	36291	801	37092
527 CASPIAN TERN	5384	51	5435
525 BLACK-FRONTED TERN	1338	34	1372
529 ANTARCTIC TERN	158	0	158
531 FAIRY TERN	8	1	9
532 WHITE-FRONTED TERN	23396	0	23396
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	161	11	172
552 CHATHAM ISLAND PIGEON	10	0	10
553 ROCK PIGEON	60	0	60
554 MALAY SPOTTED DOVE	2	0	2
555 BARBARY DOVE	1	0	1
561 KAKAPO	73	7	80
563 SOUTH ISLAND KAKA	40	23	63
564 KEA	1366	0	1366
566 EASTERN ROSELLA	1	1	2
572 ANTIPODES ISLAND PARAKEET	69	0	69
567 KERMADEC PARAKEET	7	0	7
568 RED-CROWNED PARAKEET	750	9	759
569 CHATHAM ISLAND RED-CROWNED PARAKEET	1	0	1
570 REISCHECK'S PARAKEET	56	0	56
573 YELLOW-CROWNED PARAKEET	39	71	110
574 CHATHAM ISLAND YELLOW-CROWNED PARAKEET	9	0	9
583 SHINING CUCKOO	68	2	70
584 LONG-TAILED CUCKOO	4	0	4
601 MOREPORK	50	0	50
604 LITTLE OWL	16	0	16
621 NEW ZEALAND KINGFISHER	235	5	240
641 NORTH ISLAND RIFLEMAN	150	0	150
642 SOUTH ISLAND RIFLEMAN	1099	2	1101
646 ROCK WREN	9	0	9
651 SKYLARK	37	0	37
662 WELCOME SWALLOW	320	1	321

**TABLE ONE  
GENERAL BANDING TOTAL (REBRANDS EXCLUDED)**

<b>SPECIES NUMBER AND NAME</b>	<b>TOTAL PRE 1989</b>	<b>TOTAL 89/90</b>	<b>TOTAL FOR ALL YEARS</b>
741 NEW ZEALAND PIPIT	46	0	46
731 HEDGESPARROW	2129	45	2174
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	295	50	345
713 YELLOWHEAD	98	26	124
714 GREY WARBLER	1018	13	1031
715 CHATHAM ISLAND WARBLER	74	0	74
681 NORTH ISLAND FANTAIL	612	5	617
682 SOUTH ISLAND FANTAIL	846	19	865
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	0	49
690 SOUTH ISLAND ROBIN	2186	172	2358
691 STEWART ISLAND ROBIN	10	0	10
692 BLACK ROBIN	236	50	286
721 SONG THRUSH	2936	70	3006
722 BLACKBIRD	6650	224	6874
761 SILVEREYE	58317	1939	60256
751 STITCHBIRD	271	14	285
753 BELLBIRD	5861	114	5975
755 TUI	930	7	937
756 CHATHAM ISLAND TUI	1	0	1
775 YELLOWHAMMER	842	28	870
776 CURL BUNTING	19	6	25
774 CHAFFINCH	2523	178	2701
771 GREENFINCH	6522	507	7029
772 GOLDFINCH	2369	195	2564
773 REDPOLL	7529	292	7821
781 HOUSE SPARROW	27470	1484	28954
791 STARLING	17699	133	17832
792 INDIAN MYNA	1397	0	1397
821 NORTH ISLAND SADDLEBACK	1607	72	1679
822 SOUTH ISLAND SADDLEBACK	289	0	289
824 NORTH ISLAND KOKAKO	42	19	61
811 BLACK-BACKED MAGPIE	41	0	41
812 WHITE-BACKED MAGPIE	257	2	259
813 HYBRID MAGPIE	25	0	25
— MAGPIE SPECIES	[4]	0	[4]
802 ROOK	1070	0	1070
<b>*** TOTAL ***</b>	<b>1062686</b>	<b>20439</b>	<b>1083125</b>

**TABLE TWO  
BANDING TOTALS BY AGE AND SEX**

For abbreviations of column headings see page 15

<b>SPECIES NUMBER AND NAME</b>	<b>PU</b>	<b>JM</b>	<b>JF</b>	<b>JU</b>	<b>AM</b>	<b>AF</b>	<b>AU</b>	<b>UM</b>	<b>UF</b>	<b>UU</b>	<b>RB</b>	<b>TOTAL</b>
004 LITTLE SPOTTED KIWI	0	3	5	0	7	6	1	0	0	0	0	22
012 YELLOW-EYED PENGUIN	83	1	0	16	18	15	56	0	0	0	2	191
014 COOK STRAIT BLUE PENGUIN	15	0	0	0	11	2	2	0	0	0	2	45
016 WHITE-FLIPPED BLUE PENGUIN	570	0	0	0	33	55	55	0	0	0	0	684
027 CHATHAM ISLAND BLUE PENGUIN	0	0	0	0	0	15	15	0	0	0	0	15
019 FIORDLAND CRESTED PENGUIN	0	0	0	0	8	0	0	0	0	0	1	17
041 WANDERING ALBATROSS	0	0	0	0	0	1	1	0	0	0	0	1
044 NORTHERN ROYAL ALBATROSS	8	0	0	0	0	0	0	0	0	0	0	8
043 SOUTHERN ROYAL ALBATROSS	0	0	0	0	0	0	0	0	0	0	2	2
046 NEW ZEALAND BLACK-BROWED MOLLYMAWK	193	0	0	0	0	0	0	0	0	0	0	193
047 GREY-HEADED MOLLYMAWK	42	0	0	0	0	0	0	0	0	0	0	42
061 SOUTHERN GIANT PETREL	0	0	0	0	0	0	1	0	0	0	0	1
093 GREY-FACED PETREL	404	0	0	0	0	0	0	0	0	0	0	404
098 MOTTLED PETREL	36	0	0	0	0	0	0	0	0	0	0	36
101 PYCROFT'S PETREL	0	0	0	0	1	9	167	0	0	0	0	177
104 COOK'S PETREL	31	0	0	0	1	1	1	0	0	0	0	34
106 BLACK-WINGED PETREL	0	0	0	0	1	4	25	0	0	0	0	30
073 FAIRY PRION	0	0	0	0	0	4	3271	0	0	0	5	3280
090 BLACK PETREL	110	0	0	0	0	0	0	0	0	0	0	110
091 WESTLAND BLACK PETREL	97	0	0	0	14	5	0	0	0	0	1	117
077 FLESH-FOOTED SHEARWATER	0	0	0	0	0	0	30	0	0	0	0	30
080 SOOTY SHEARWATER	4	0	0	0	0	1	51	0	0	0	0	56
082 FLUTTERING SHEARWATER	101	0	0	3	0	0	6	0	0	0	0	110
086 NORTH ISLAND LITTLE (ALLIED) SHEARWATER	0	0	0	0	0	0	35	0	0	0	0	35
124 WHITE-FACED STORM PETREL	0	0	0	0	0	0	98	0	0	0	0	98



**TABLE TWO  
BANDING TOTALS BY AGE AND SEX**

For abbreviations of column headings see page 15

<b>SPECIES NUMBER AND NAME</b>	<b>PU</b>	<b>JM</b>	<b>JF</b>	<b>JU</b>	<b>AM</b>	<b>AF</b>	<b>AU</b>	<b>UM</b>	<b>UF</b>	<b>UU</b>	<b>RB</b>	<b>TOTAL</b>
131 NORTHERN DIVING PETREL	7	0	0	0	0	0	207	0	0	0	0	214
161 AUSTRALASIAN GANNET	64	0	0	1106	0	0	1	0	0	0	0	1171
171 BLACK SHAG	11	0	0	0	0	0	0	0	0	0	0	11
182 SPOTTED SHAG	14	0	0	0	0	0	0	0	0	0	0	14
215 REEF HERON	4	0	0	0	0	0	0	0	0	0	0	4
233 ROYAL SPOONBILL	11	0	0	0	0	0	0	0	0	0	0	11
241 CANADA GOOSE	0	129	128	1	10	25	0	0	0	0	0	293
245 PARADISE SHELDUCK	0	131	129	0	239	195	0	0	0	0	0	694
252 MALLARD	0	361	265	0	54	124	0	0	0	0	0	804
251 GREY DUCK	0	5	6	0	13	8	0	0	0	0	0	31
248 BROWN TEAL	0	0	0	0	54	58	0	0	0	0	0	112
254 BLUE DUCK	0	9	8	3	6	4	0	0	0	0	0	30
272 AUSTRALASIAN HARRIER	0	23	9	2	36	27	6	0	3	0	0	106
281 NEW ZEALAND FALCON	0	2	1	0	0	0	0	0	0	0	0	3
296 CHUKOR	0	2	3	0	0	0	0	0	0	0	0	5
299 RED-LEGGED PARTRIDGE	0	39	29	609	100	84	132	0	0	0	0	993
293 PHEASANT	0	702	20	0	7	0	0	0	0	0	0	729
342 PUKEKO	5	0	0	7	11	12	0	0	0	0	0	35
343 NOTORNIS	0	1	0	1	0	0	0	0	0	0	0	2
401 SOUTH ISLAND PIED OYSTERCATCHER	27	0	0	7	5	10	84	0	0	0	2	135
402 VARIABLE OYSTERCATCHER	6	0	0	1	0	0	0	0	0	0	0	7
404 CHATHAM ISLAND OYSTERCATCHER	2	0	0	0	0	0	0	0	0	0	0	2
411 SPUR-WINGED PLOVER	1	0	0	0	0	0	0	0	0	0	0	1
413 LEAST GOLDEN PLOVER (PACIFIC GOLDEN PLOVER)	0	0	0	0	0	0	1	0	0	0	0	1
418 NEW ZEALAND DOTTEREL	31	0	0	10	0	0	25	0	0	0	1	67
415 BANDED DOTTEREL	0	0	0	0	0	0	5	0	0	4	0	9
419 NEW ZEALAND SHORE PLOVER	13	0	0	1	3	0	1	0	0	0	0	18
420 WRYBILL	0	0	0	0	0	0	24	0	0	0	22	46

**TABLE TWO  
BANDING TOTALS BY AGE AND SEX**

For abbreviations of column headings see page 15

<b>SPECIES NUMBER AND NAME</b>	<b>PU</b>	<b>JM</b>	<b>JF</b>	<b>JU</b>	<b>AM</b>	<b>AF</b>	<b>AU</b>	<b>UM</b>	<b>UF</b>	<b>UU</b>	<b>RB</b>	<b>TOTAL</b>
445 EASTERN BAR-TAILED GODWIT	0	0	0	30	0	0	65	0	0	149	1	235
451 TURNSTONE	0	0	0	0	0	0	1	0	0	0	0	1
458 KNOT	0	0	0	20	0	0	247	0	0	231	0	498
481 PIED STILT	112	0	0	0	23	26	82	0	0	0	0	243
521 SOUTHERN BLACK-BACKED GULL	771	0	0	0	3	1	0	0	0	0	0	775
523 RED-BILLED GULL	618	0	0	0	55	78	6	0	0	0	123	880
524 BLACK-BILLED GULL	801	0	0	0	0	0	0	0	0	0	17	818
527 CASPIAN TERN	51	0	0	0	0	0	0	0	0	0	0	51
525 BLACK-FRONTED TERN	33	0	0	0	0	0	1	0	0	0	0	34
531 FAIRY TERN	1	0	0	0	0	0	0	0	0	0	0	1
551 NEW ZEALAND PIGEON	0	0	0	0	0	0	4	0	0	7	0	11
561 KAKAPO	0	0	0	0	2	5	0	0	0	0	4	11
563 SOUTH ISLAND KAKA	0	0	0	0	0	0	0	0	0	23	2	25
566 EASTERN ROSELLA	0	0	0	0	0	0	1	0	0	0	0	1
568 RED-CROWNED PARAKEET	6	0	0	2	0	1	0	0	0	0	0	9
573 YELLOW-CROWNED PARAKEET	0	0	0	0	0	0	71	0	0	0	0	71
583 SHINING CUCKOO	0	0	0	1	1	0	0	0	0	0	0	2
621 NEW ZEALAND KINGFISHER	0	0	0	2	0	0	3	0	0	0	0	5
642 SOUTH ISLAND RIFLEMAN	0	0	0	1	0	1	0	0	0	0	0	2
662 WELCOME SWALLOW	0	0	0	0	0	0	1	0	0	0	0	1
731 HEDGESPARROW	3	0	0	4	0	0	36	0	0	2	0	45
712 WHITEHEAD	5	9	6	5	17	8	0	0	0	0	0	50
713 YELLOWHEAD	0	0	0	7	10	8	1	0	0	0	0	26
714 GREY WARBLER	0	0	0	2	0	0	8	0	0	3	0	13
681 NORTH ISLAND FANTAIL	0	0	0	2	0	0	3	0	0	0	0	5
682 SOUTH ISLAND FANTAIL	0	0	0	8	0	0	9	0	0	2	0	19
690 SOUTH ISLAND ROBIN	16	6	6	33	65	43	3	0	0	0	0	172
692 BLACK ROBIN	50	0	0	0	0	0	0	0	0	0	0	50
721 SONG THRUSH	5	0	0	29	0	0	36	0	0	0	0	70

**TABLE TWO  
BANDING TOTALS BY AGE AND SEX**

For abbreviations of column headings see page 15

<b>SPECIES NUMBER AND NAME</b>	<b>PU</b>	<b>JM</b>	<b>JF</b>	<b>JU</b>	<b>AM</b>	<b>AF</b>	<b>AU</b>	<b>UM</b>	<b>UF</b>	<b>UU</b>	<b>RB</b>	<b>TOTAL</b>
722 BLACKBIRD	19	27	23	48	63	43	0	0	1	0	4	228
761 SILVEREYE	0	0	0	91	0	0	1582	0	0	266	0	1939
751 STITCHBIRD	0	0	0	0	8	6	0	0	0	0	0	14
753 BELLBIRD	0	5	6	7	50	43	0	2	1	0	0	114
755 TUI	0	0	1	0	0	1	1	0	0	4	0	7
775 YELLOWHAMMER	0	1	0	5	15	1	1	2	1	2	0	28
776 GIRL BUNTING	0	0	1	3	1	1	0	0	0	0	0	6
774 CHAFFINCH	0	15	20	6	63	58	8	1	2	5	0	178
771 GREENFINCH	1	23	40	15	194	134	24	34	37	4	0	507
772 GOLDFINCH	18	2	6	25	16	27	82	0	0	19	0	195
773 REDPOLL	14	4	7	35	88	58	78	0	1	7	0	292
781 HOUSE SPARROW	24	140	97	58	668	486	8	0	1	2	0	1484
791 STARLING	6	6	4	20	44	30	21	1	1	0	0	133
821 NORTH ISLAND SADDLEBACK	0	6	5	5	18	9	15	0	6	8	0	72
824 NORTH ISLAND KOKAKO	3	0	0	0	0	0	16	0	0	0	0	19
812 WHITE-BACKED MAGPIE	0	0	0	0	0	2	0	0	0	0	0	2
<b>*** Total ***</b>	<b>4447</b>	<b>1652</b>	<b>825</b>	<b>2221</b>	<b>2036</b>	<b>1711</b>	<b>6715</b>	<b>40</b>	<b>54</b>	<b>738</b>	<b>189</b>	<b>20628</b>

*Reference to abbreviations in the column headings:*

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

**TABLE THREE**

**Summary of recoveries added to the computer file during the report year. NOTE: The figures in the repeat column are already incorporated in the total column.**

<b>SPECIES NUMBER AND NAME</b>	<b>DEAD</b>	<b>ALIVE</b>	<b>TOTAL</b>	<b>REPEAT</b>
001 NORTH ISLAND BROWN KIWI	13	21	34	22
002 SOUTH ISLAND BROWN KIWI	0	1	1	0
012 YELLOW-EYED PENGUIN	15	42	57	31
026 NORTHERN BLUE PENGUIN	2	0	2	0
014 COOK STRAIT BLUE PENGUIN	3	107	110	67
016 WHITE-FLIPPED BLUE PENGUIN	30	840	870	474
015 SOUTHERN BLUE PENGUIN	1	0	1	0
019 FIORDLAND CRESTED PENGUIN	1	55	56	14
020 SNARES CRESTED PENGUIN	0	1	1	1
041 WANDERING ALBATROSS	1	4	5	0
043 SOUTHERN ROYAL ALBATROSS	0	2	2	0
045 BLACK-BROWED MOLLYMAWK	1	1	2	0
046 NEW ZEALAND BLACK-BROWED MOLLYMAWK	2	1	3	0
047 GREY-HEADED MOLLYMAWK	1	1	2	0
061 SOUTHERN GIANT PETREL	7	0	7	0
064 ANTARCTIC FULMAR	0	1	1	0
062 CAPE PIGEON	0	2	2	0
093 GREY-FACED PETREL	5	8	13	1
095 WHITE-NAPED PETREL	0	6	6	0
106 BLACK-WINGED PETREL	0	3	3	1
105 CHATHAM ISLAND PETREL	0	6	6	2
073 FAIRY PRION	1	0	1	0
090 BLACK PETREL	0	3	3	0
091 WESTLAND BLACK PETREL	3	0	3	1
082 FLUTTERING SHEARWATER	1	0	1	0
161 AUSTRALASIAN GANNET	19	5	24	3
163 MASKED (BLUE-FACED) BOOBY	0	47	47	11
17 1 BLACK SHAG	1	0	1	0
182 SPOTTED SHAG	4	1	5	0
243 BLACK SWAN	128	6	134	6
241 CANADA GOOSE	364	296	660	318
245 PARADISE SHELDUCK	456	550	1006	206
252 MALLARD	525	241	766	116
259 HYBRID MALLARD (CROSS)	1	0	1	0
251 GREY DUCK	2	0	2	0
248 BROWN TEAL	2	0	2	0
253 NEW ZEALAND SHOVELER	6	2	8	0
254 BLUE DUCK	0	2	2	0
272 AUSTRALASIAN HARRIER	4	0	4	0
299 RED-LEGGED PARTRIDGE	14	1	15	0
293 PHEASANT	99	0	99	0
337 BUFF WEKA	2	0	2	0
401 SOUTH ISLAND PIED OYSTERCATCHER	1	19	20	14
402 VARIABLE OYSTERCATCHER	2	4	6	3

**TABLE THREE**

**Summary of recoveries added to the computer file during the report year. NOTE: The figures in the repeat column are already incorporated in the total column.**

<b>SPECIES NUMBER AND NAME</b>	<b>DEAD</b>	<b>ALIVE</b>	<b>TOTAL</b>	<b>REPEAT</b>
404 CHATHAM ISLAND OYSTERCATCHER	0	57	57	46
418 NEW ZEALAND DOTTEREL	0	3	3	3
415 BANDED DOTTEREL	1	1	2	1
419 NEW ZEALAND SHORE PLOVER	0	65	65	50
453 CHATHAM ISLAND SNIPE	0	1	1	0
458 KNOT	1	0	1	0
481 PIED STILT	1	30	31	10
511 SOUTHERN GREAT SKUA	1	2	3	0
521 SOUTHERN BLACK-BACKED GULL	82	32	114	1
523 RED-BILLED GULL	31	448	479	94
524 BLACK-BILLED GULL	125	11	136	0
527 CASPIAN TERN	1	6	17	0
532 WHITE-FRONTED TERN	4	0	4	0
561 KAKAPO	0	8	8	3
563 SOUTH ISLAND KAKA	2	2	4	2
564 KEA	2	90	92	28
731 HEDGESPARROW	1	5	6	1
690 SOUTH ISLAND ROBIN	0	8	8	0
721 SONG THRUSH	2	0	2	0
722 BLACKBIRD	7	2	9	0
761 SILVEREYE	15	459	474	353
751 STITCHBIRD	0	2	2	0
753 BELLBIRD	0	4	4	0
755 TUI	1	2	3	0
774 CHAFFINCH	1	4	5	0
771 GREENFINCH	14	7	21	0
772 GOLDFINCH	2	3	5	0
773 REDPOLL	1	11	12	0
781 HOUSE SPARROW	21	12	33	1
791 STARLING	2	1	3	1
812 WHITE-BACKED MAGPIE	1	0	1	0
<b>*** Total ***</b>	<b>2046</b>	<b>3555</b>	<b>5601</b>	<b>1885</b>

**TABLE 4**  
**SUMMARY PER PERMIT**  
**(RE-BANDS INCLUDED)**

	<b>BIRDS BANDED</b>
<b>** PERMIT 0002 MILLS DR J A</b>	
RED-BILLED GULL	880
BLACK-BILLED GULL	1
** Subtotal **	881
<b>** PERMIT 0005 ROBERTSON C J R</b>	
NORTHERN ROYAL ALBATROSS	8
** Subtotal **	8
<b>** PERMIT 0032 DAVIS V T</b>	
AUSTRALASIAN GANNET	1107
** Subtotal **	1107
<b>** PERMIT 0036 BARTLE J A</b>	
WESTLAND BLACK PETREL	117
** Subtotal **	117
<b>** PERMIT 0041 BULL DR P C</b>	
SILVEREYE	133
** Subtotal **	133
<b>** PERMIT 0042 CHALLIES C N</b>	
WHITE-FLIPPED BLUE PENGUIN	610
SOUTHERN BLACK-BACKED GULL	29
** Subtotal **	639
<b>** PERMIT 0044 COWIE J A</b>	
SPUR-WINGED PLOVER	1
BLACK-BILLED GULL	817
BLACK-FRONTED TERN	34
** Subtotal **	852
<b>** PERMIT 0053 BARLOW MRS C E</b>	
CASPIAN TERN	51
** Subtotal **	51
<b>** PERMIT 0065 MERTON D V</b>	
BLACK ROBIN	50
** Subtotal **	50

**TABLE 4**  
**SUMMARY PER PERMIT**  
**(RE-BANDS INCLUDED)**

	<b>BIRDS BANDED</b>
<b>** PERMIT 0068 IMBER M J</b>	
MOTTLED PETREL	36
PYCROFT'S PETREL	11
COOK'S PETREL	34
FAIRY PRION	114
WHITE-FACED STORM PETREL	98
NORTHERN DIVING PETREL	168
** Subtotal **	479
 <b>** PERMIT 0076 BELL BRIAN D</b>	
FLUTTERING SHEARWATER	101
SOUTHERN BLACK-BACKED GULL	45
SHINING CUCKOO	1
HEDGESPARROW	1
BLACKBIRD	38
SILVEREYE	239
YELLOWHAMMER	1
CHAFFINCH	5
GREENFINCH	121
HOUSE SPARROW	503
STARLING	62
WHITE-BACKED MAGPIE	2
** Subtotal **	1119
 <b>** PERMIT 0093 SAGAR P M</b>	
SOUTH ISLAND PIED OYSTERCATCHER	42
** Subtotal **	42
 <b>** PERMIT 0104 D S I R LAND RESOURCES</b>	
SOUTHERN BLACK-BACKED GULL	260
NEW ZEALAND PIGEON	11
SOUTH ISLAND KAKA	25
SOUTH ISLAND ROBIN	2
** Subtotal **	298
 <b>** PERMIT 0108 CAMPBELL ISLAND PARTY</b>	
YELLOW-EYED PENGUIN	4
WANDERING ALBATROSS	1
SOUTHERN ROYAL ALBATROSS	2
NEW ZEALAND BLACK-BROWED MOLLYMAWK	193
GREY-HEADED MOLLYMAWK	42
** Subtotal **	242

**TABLE 4**  
**SUMMARY PER PERMIT**  
**(RE-BANDS INCLUDED)**

	<b>BIRDS BANDED</b>
<b>** PERMIT 0164 AUCKLAND ACCLIMATISATION SOC</b>	
RED-LEGGED PARTRIDGE	316
PHEASANT	29
** Subtotal **	345
 <b>** PERMIT 0167 TARANAKI ACCLIMATISATION SOC</b>	
PARADISE SHELDUCK	694
** Subtotal **	694
 <b>** PERMIT 0172 HAWKES BAY ACCLIM SOCIETY</b>	
CHUKOR	5
RED-LEGGED PARTRIDGE	270
PHEASANT	700
** Subtotal **	975
 <b>** PERMIT 0175 MARLBOROUGH ACCLIM SOCIETY</b>	
RED-LEGGED PARTRIDGE	157
** Subtotal **	157
 <b>** PERMIT 0184 SOUTHLAND ACCLIM SOCIETY</b>	
MALLARD	798
** Subtotal **	798
 <b>** PERMIT 0215 TORR O C</b>	
NEW ZEALAND KINGFISHER	3
HEDGESPARROW	1
SONG THRUSH	3
BLACKBIRD	1
SILVEREYE	32
YELLOWHAMMER	1
CHAFFINCH	5
GREENFINCH	2
GOLDFINCH	20
HOUSE SPARROW	15
** Subtotal **	83
 <b>** PERMIT 0243 SIM D M</b>	
FLESH-FOOTED SHEARWATER	21
AUSTRALASIAN HARRIER	18
S ILVEREYE	379
** Subtotal **	418



**TABLE 4**  
**SUMMARY PER PERMIT**  
**(RE-BANDS INCLUDED)**

	<b>BIRDS BANDED</b>
<b>** PERMIT 0244 POWLESLAND DR R G</b>	
BLACK SHAG	11
KAKAPO	11
** Subtotal **	22
 <b>** PERMIT 0246 PIERCE R J</b>	
FAIRY TERN	1
** Subtotal **	1
 <b>** PERMIT 0256 WILKINSON G B</b>	
SOUTHERN BLACK-BACKED GULL	4
** Subtotal **	4
 <b>** PERMIT 0259 MASSEY UNIVERSITY</b>	
HEDGESPARROW	1
SONG THRUSH	7
BLACKBIRD	2
SILVEREYE	208
TUI	3
CHAFFINCH	9
GREENFINCH	29
GOLDFINCH	12
HOUSE SPARROW	4
STARLING	17
** Subtotal **	292
 <b>** PERMIT 0278 MIRANDA NATURALISTS TRUST</b>	
SOUTH ISLAND PIED OYSTERCATCHER	93
LEAST GOLDEN PLOVER (PACIFIC GOLDEN PLOVER)	1
NEW ZEALAND DOTTEREL	2
BANDED DOTTEREL	9
WRYBILL	46
EASTERN BAR-TAILED GODWIT	235
TURNSTONE	1
KNOT	498
** Subtotal **	885
 <b>** PERMIT 0282 DUCKS UNLIMITED (N Z)</b>	
CANADA GOOSE	93
BROWN TEAL	112
** Subtotal **	205

**TABLE 4**  
**SUMMARY PER PERMIT**  
**(RE-BANDS INCLUDED)**

	<b>BIRDS BANDED</b>
<b>** PERMIT 0284 OTAGO UNIVERSITY</b>	
WHITE-FLIPPED BLUE PENGUIN	74
** Subtotal **	74
<b>** PERMIT 0285 RAPTOR ASSOCIATION OF N Z</b>	
AUSTRALASIAN HARRIER	74
NEW ZEALAND FALCON	3
** Subtotal **	77
<b>** PERMIT 0291 NORTHLAND/FAR NORTH REG OSNZ</b>	
SOUTHERN BLACK-BACKED GULL	89
** Subtotal **	89
<b>** PERMIT 0292 ROWE L K</b>	
HEDGESPARROW	2
SILVEREYE	71
HOUSE SPARROW	119
** Subtotal **	192
<b>** PERMIT 0294 CANTERBURY PASSERINE GROUP</b>	
NEW ZEALAND KINGFISHER	1
SOUTH ISLAND RIFLEMAN	2
WELCOME SWALLOW	1
HEDGESPARROW	21
GREY WARBLER	3
SOUTH ISLAND FANTAIL	4
SONG THRUSH	15
BLACKBIRD	57
SILVEREYE	215
BELLBIRD	12
YELLOWHAMMER	3
CHAFFINCH	10
GREENFINCH	261
GOLDFINCH	58
REDPOLL	28
HOUSE SPARROW	397
STARLING	9
** Subtotal **	1097
<b>** PERMIT 0295 CANTERBURY UNIVERSITY</b>	
FIORDLAND CRESTED PENGUIN	17
SOUTH ISLAND ROBIN	117
** Subtotal **	134

**TABLE 4**  
**SUMMARY PER PERMIT**  
**(RE-BANDS INCLUDED)**

	<b>BIRDS BANDED</b>
<b>** PERMIT 0297 AUCKLAND UNIVERSITY</b>	
PUKEKO	35
BELLBIRD	91
TUI	2
STARLING	4
NORTH ISLAND SADDLEBACK	72
** Subtotal **	204
<b>** PERMIT 0301 DARBY J T</b>	
YELLOW-EYED PENGUIN	187
** Subtotal **	187
<b>** PERMIT 0304 TAYLOR G</b>	
BLACKBIRD	1
** Subtotal **	1
<b>** PERMIT 0307 COSSEE R O</b>	
COOK STRAIT BLUE PENGUIN	45
CHATHAM ISLAND BLUE PENGUIN	15
SOUTHERN GIANT PETREL	1
BLACK-WINGED PETREL	6
FAIRY PRION	3166
SOOTY SHEARWATER	30
SPOTTED SHAG	14
REEF HERON	4
VARIABLE OYSTERCATCHER	7
SOUTHERN BLACK-BACKED GULL	348
SILVEREYE	279
GOLDFINCH	1
HOUSE SPARROW	23
** Subtotal **	3939
<b>** PERMIT 0323 DOWDING J (N Z DOTTEREL GRP)</b>	
NEW ZEALAND DOTTEREL	65
** Subtotal **	65
<b>** PERMIT 0324 PASSERINE GROUP OSNZ CENTRAL</b>	
EASTERN ROSELLA	1
SHINING CUCKOO	1
NEW ZEALAND KINGFISHER	1
HEDGESPARROW	19
GREY WARBLER	9
NORTH ISLAND FANTAIL	4
SOUTH ISLAND FANTAIL	15

**TABLE 4**  
**SUMMARY PER PERMIT**  
**(RE-BANDS INCLUDED)**

	<b>BIRDS BANDED</b>
SONG THRUSH	45
BLACKBIRD	127
SILVEREYE	383
BELLBIRD	8
T-U.IYELLOWHAMMER	1
CIRL BUNTING	23
CHAFFINCH	6
GREENFINCH	148
GOLDFINCH	85
REDPOLL	104
HOUSE SPARROW	264
STARLING	408
** Subtotal **	39
<b>** PERMIT 0325 OSNZ AUCKLAND SEABIRD GROUP</b>	
PYCROFT'S PETREL	166
BLACK-WINGED PETREL	24
FLESH-FOOTED SHEARWATER	9
SOOTY SHEARWATER	26
FLUTTERING SHEARWATER	9
NORTH ISLAND LITTLE (ALLIED) SHEARWATER	35
NORTHERN DIVING PETREL	28
** Subtotal **	297
<b>** PERMIT 0326 WAGHORN E J</b>	
AUSTRALASIAN GANNET	64
** Subtotal **	64
<b>** PERMIT 0331 GODBERT F D</b>	
HOUSE SPARROW	9
** Subtotal **	9
<b>** PERMIT 0332 STILT RESEARCH GROUP OSNZ</b>	
PIED STILT	243
** Subtotal **	243
<b>** PERMIT 0333 BAKER D G</b>	
GREY WARBLER	1
NORTH ISLAND FANTAIL	1
BLACKBIRD	2
TUI	1
CHAFFINCH	1
GREENFINCH	9

**TABLE 4**  
**SUMMARY PER PERMIT**  
**(RE-BANDS INCLUDED)**

	<b>BIRDS BANDED</b>
HOUSE SPARROW	6
STARLING	2
** Subtotal **	23
<b>** PERMIT 0334 GREENE T</b>	
RED-CROWNED PARAKEET	9
** Subtotal **	9
<b>** PERMIT 0335 ALLEN D G</b>	
WHITEHEAD	50
** Subtotal **	50
<b>** PERMIT 0337 ROYAL SPOONBILL PROJECT OSNZ</b>	
ROYAL SPOONBILL	11
** Subtotal **	11
<b>** PERMIT 0338 WELLINGTON CONSERVANCY DOC</b>	
STITCHBIRD	14
** Subtotal **	14
<b>** PERMIT 0339 TAYLOR T J</b>	
AUSTRALASIAN HARRIER	7
** Subtotal **	7
<b>** PERMIT 0344 J D ROBERTSHAW (MAF)</b>	
AUSTRALASIAN HARRIER	7
** Subtotal **	7
<b>** PERMIT 0345 EASTERN FISH &amp; GAME COUNCIL</b>	
CANADA GOOSE	200
RED-LEGGED PARTRIDGE	250
** Subtotal **	450
<b>** PERMIT 1125 NORTHERN REGION DOC</b>	
BELLBIRD	3
** Subtotal **	3
<b>** PERMIT 3125 EASTERN REGION DOC</b>	
NORTH ISLAND KOKAKO	19
** Subtotal **	19
<b>** PERMIT 7125 CANTERBURY REGION DOC</b>	
MALLARD	6
GREY DUCK	31
BLUE DUCK	7
CHATHAM ISLAND OYSTERCATCHER	2

**TABLE 4**  
**SUMMARY PER PERMIT**  
**(RE-BANDS INCLUDED)**

	<b>BIRDS BANDED</b>
NEW ZEALAND SHORE PLOVER	18
** Subtotal **	64
<b>** PERMIT 9125 SCIENCE &amp; RESEARCH DOC</b>	
LITTLE SPOTTED KIWI	22
GREY-FACED PETREL	404
BLACK PETREL	110
BLUE DUCK	23
NOTORNIS	2
YELLOW-CROWNED PARAKEET	71
YELLOWHEAD	26
SOUTH ISLAND ROBIN	53
** Subtotal **	711
<b>*** Total ***</b>	<b>20628</b>

## **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 studies of gannets and 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, 0215, 0243, 0292, 0294, 0307, 0324, 0331, 0333)

A long-term study of population dynamics, behaviour and dispersal of White-flipped Penguins. (0042)

Ecology, dispersal and habitat requirements of White-fronted and Black-fronted Terns (0044)

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

Conservation of Black Robin populations in the Chatham Islands. (0065)

Population dynamics, longevity, age of first breeding, migration dispersal and movements of Procellariiformes. (0068, 0325)

Translocation of Fluttering Shearwaters from Long Island to Maud Island, Marlborough Sounds. (0076)

Mate & nest site retention, annual mortality and breeding success of the South Island Pied Oystercatcher. (0093)

Comparative ecology of the New Zealand Pigeon. (0104)

Ecology and movements of South Island Kaka. (0104)

Black-backed Gull movements from the Nelson Boulder Bank. (0104)

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. (0164, 0172, 0175, 0345)

Population dynamics of Paradise Shelduck. (0167)

Population dynamics of Mallard and Grey Duck. (0184, 7125)

Breeding biology of Black Shags at Lake Kohangatera. (0244)

Breeding biology of the Kakapo. (0244)

Population dynamics and distribution of Fairy Terns in Northland. (0246)

Breeding biology of the Black-backed Gull in Nelson. (0256)

Competition and parental investment in Starlings.(0259)

Variation in fat condition, body mass and wintering site fidelity in Passerines in patches of native vegetation in the Manawatu. (0259)

Migration patterns in waders. (0278)

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

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

The breeding biology of the White-flipped penguin: a test for sexual selection theory. (0284)

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

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)

Dynamics of the Yellow-eyed Penguin. (0301)

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



Breeding biology of the Australasian Gannet at Waimaru Point, Marlborough Sounds. (0326)

Movement patterns of the Pied Stilt. (0332)

Breeding biology of Red-crowned and Yellow-crowned Parakeets on Little Barrier Island. (0334)

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)

Evaluation of the relative roles of browsers and predators in North Island Kokako decline. (3125)

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

Natal dispersal of Blue Duck. (7125, 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)

Population dynamics of Little Spotted Kiwi on Kapiti Island. (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)