Report on bird banding in New Zealand 1994/1995

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Abstract

During the 1994/95 banding year 18,490 birds of 100 species were banded and 87 previously banded birds were re-banded, bringing the grand total of individual birds banded in New Zealand since the start of the scheme to 1,166,702. One new species, Adelie penguin, was added to the list of species banded. Bird banding supported a large variety of research/management projects and was regulated by 22 Personal permits and 39 Institutional/group permits.

1. Introduction

Bird banding (ringing) is recognised world-wide as an important research tool for both amateur and professional ornithologists. In New Zealand it has been recognised officially since 1950, when the Ornithological Society of New Zealand started the first organised scheme. Since 1947 the Wildlife Branch of the Department of Internal Affairs ran its own scheme, specifically 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 (Cossee 1990).

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 the 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 1994/95 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 1994 and 31 March 1995. They may include some records for birds banded in previous years however, as schedules not received in time for inclusion in the 1993/94 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 Table 2.

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 in 1990 (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 of existing computer programmes it was decided to adhere to the previous edition.

The recently proposed changes to the taxonomy of the Albatrosses and Mollymawks will progressively be integrated in the annual Banding Reports, when birds identified as belonging to a certain species are banded. Birds previously banded without the present distinction will be listed as 'sp.'.

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 1994/95 banding year 18,490 birds of 100 species were banded and 87 previously banded birds were re-banded. Non-game species contributed 17,479 (just over 94.5%) and game species 1,011 (slightly over 5.4%) to the new birds banded. The overall number of birds banded was comparable with the previous year.

The total number of birds banded in New Zealand increased from 1,148,212 to 1,166,702.

Although Adelie penguins (Pygoscelis adeliae) have been banded by New Zealand banders in the past, the operators worked under permit, and with bands, from the U S Fish & Wildlife Service. Hence these bandings were not reported by the New Zealand National Banding Scheme. We now have our own bands and in future our Adelie penguin banding will be reported under the N Z scheme.

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

Table 2 summarises birds banded during the 1994/95 season by their ages and sexes. Also included in this table are the 87 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.

Species and numbers of individual birds banded under each permit are given in Table 3.

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.

TABLE 1. GENERAL BANDING TOTALS (REBANDS EXCLUDED).

SPEC	IES NUMBER AND NAME	TOTAL PRE-1994	TOTAL 1994/95	TOTAL FOR ALI YEARS	
001	NORTH ISLAND BROWN KIWI	357	0	357	
002	SOUTH ISLAND BROWN KIWI	4	0	4	
003	STEWART ISLAND BROWN KIWI	21	0	21	
004	LITTLE SPOTTED KIWI	259	0	259	
012	YELLOW-EYED PENGUIN	5907	425	6332	
023	ADELIE PENGUIN	0	1083	1083	
026	NORTHERN BLUE PENGUIN	673	59	732	
014	COOK STRAIT BLUE PENGUIN	2280	49	2329	
016	WHITE-FLIPPERED BLUE PENGUIN	13324	570	13894	
015	SOUTHERN BLUE PENGUIN	1954	606	2560	
027	CHATHAM ISLAND BLUE PENGUIN	35	0	35	
017	ROCKHOPPER PENGUIN	2466	107	2573	
019	FIORDLAND CRESTED PENGUIN	729	276	1005	
020	SNARES CRESTED PENGUIN	2179	0	2179	
021	ERECT-CRESTED PENGUIN	43	0	43	
041	WANDERING ALBATROSS SP.	3814	170	3984	
044	NORTHERN ROYAL ALBATROSS	3191	224	3415	
043	SOUTHERN ROYAL ALBATROSS	33375	480	33855	
045	BLACK-BROWED MOLLYMAWK	21	0	21	
046	NEW ZEALAND BLACK-BROWED MOLLYMAWK	23237	687	23924	
904	BLACK-BROWED MOLLYMAWK X-BRED	0	1	1	
047	GREY-HEADED MOLLYMAWK	6644	198	6842	
049	BULLER'S MOLLYMAWK SP.	2795	150	2945	
907	NORTHERN BULLER'S MOLLYMAWK	0	89	89	
050	WHITE-CAPPED (SHY) MOLLYMAWK SP.	593	0	593	
052	SALVIN'S MOLLYMAWK	1296	0	1296	
051	CHATHAM ISLAND MOLLYMAWK	1424	696	2120	
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	11	884	
062	CAPE PIGEON	6800	0	6800	
093	GREY-FACED PETREL	21978	1853	23831	
094	WHITE-HEADED PETREL	31	0	31	
095	WHITE-NAPED PETREL	516	0	516	
098	MOTTLED PETREL	449	0	449	
110	SOFT-PLUMAGED PETREL	20	0	20	
100	KERMADEC PETREL	1056	0	1056	
111	CHATHAM ISLAND TAIKO	51	0	51	
101	PYCROFT'S PETREL	980	101	1081	
102	GOULD'S PETREL	1	0	1	
104	COOK'S PETREL	336	0	336	
106	BLACK-WINGED PETREL	2818	42	2860	
105	CHATHAM ISLAND PETREL	60	85	145	

^[] 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.

SI	PECIES NUMBER AND NAME	TOTAL PRE 1994	TOTAL 1993/94	TOTAL FOR ALL YEARS
06	5 BLUE PETREL	1	0	1
06	6 BROAD-BILLED PRION	1624	9	1633
06	9 ANTARCTIC PRION	20	0	20
07	1 AUCKLAND ISLAND PRION	24	0	24
07	2 NARROW-BILLED PRION	1	0	1
07	3 FAIRY PRION	43666	0	43666
07	5 FULMAR PRION	61	0	61
07	4 CHATHAM FULMAR PRION	2	0	2
08	9 GREY PETREL	8	0	8
09	0 BLACK PETREL	1007	6	1013
09	1 WESTLAND BLACK PETREL	4043	104	4147
09	2 WHITE-CHINNED PETREL	31	0	31
07	7 FLESH-FOOTED SHEARWATER	1808	0	1808
07	8 WEDGE-TAILED SHEARWATER	461	53	514
07	9 BULLER'S SHEARWATER	1049	0	1049
08	O SOOTY SHEARWATER	7605	58	7663
11	5 CHRISTMAS ISLAND SHEARWATER	1	0	1
08	2 FLUTTERING SHEARWATER	1868	74	1942
08	3 HUTTON'S SHEARWATER	1134	114	1248
08	4 NORFOLK ISLAND LITTLE SHEARWATER	. 1	0	1
08	5 KERMADEC LITTLE SHEARWATER	354	0	354
08	6 NORTH ISLAND LITTLE (ALLIED)	736	181	917
	SHEARWATER			
08	7 SUBANTARCTIC LITTLE SHEARWATER	5	0	5
_	PRION SPECIES	[4]	0	[4]
12	1 LEACH'S FORK-TAILED PETREL	1	0	1
12	3 GREY-BACKED STORM PETREL	788	0	788
12	4 WHITE-FACED STORM PETREL	6609	45	6654
12	5 KERMADEC STORM PETREL	1	0	1
12	6 BLACK-BELLIED STORM PETREL	6	0	6
12	7 WHITE-BELLIED STORM PETREL	25	0	25
13	1 NORTHERN DIVING PETREL	7207	110	7317
13	3 SUBANTARCTIC DIVING PETREL	19	0	19
13	2 SOUTHERN DIVING PETREL	107	6	113
13	4 SOUTH GEORGIAN DIVING PETREL	4	0	4
13	5 DIVING PETREL SPECIES	1	0	1
_	PETREL SPECIES	[1]	0	[1]
14	1 RED-TAILED TROPIC BIRD	119	0	119
14	2 WHITE-TAILED TROPIC BIRD	13	0	13
16	1 AUSTRALASIAN GANNET	19327	2754	22081
16	2 BROWN BOOBY	1	31	32
16	3 MASKED (BLUE-FACED) BOOBY	446	0	446
17	1 BLACK SHAG	559	37	596
17	2 PIED SHAG	168	0	168
17	3 LITTLE BLACK SHAG	955	0	955
17	4 LITTLE (WHITE-THROATED) SHAG	116	0	116
17	6 STEWART ISLAND SHAG	2	0	2
17	9 AUCKLAND ISLAND SHAG	154	0	154
18	O CAMPBELL ISLAND SHAG	66	0	66

^[] 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.

SPEC	IES NUMBER AND NAME	TOTAL PRE 1994	TOTAL 1994/95	TOTAL FOR ALI YEARS
182	SPOTTED SHAG	518	27	545
216	WHITE-FACED HERON	14	0	14
213	WHITE HERON	2	0	2
215	REEF HERON	80	7	87
220	CATTLE EGRET	1	0	1
218	BITTERN	7	0	7
233	ROYAL SPOONBILL	51	32	83
242	MUTE SWAN	4	0	4
243	BLACK SWAN	(59980)	0	(59980)
241	CANADA GOOSE	(54473)	0	(54473)
245	PARADISE SHELDUCK	(69125)	0	(69125)
252	MALLARD	(90109)	125	(90234)
259	HYBRID MALLARD (CROSS)	(1761)	1	(1762)
251	GREY DUCK	(34229)	0	(34229)
247	GREY TEAL	(1490)	0	(1490)
248	BROWN TEAL	(1797)	168	(1965)
249	AUCKLAND ISLAND TEAL	45	0	45
250	CAMPBELL ISLAND TEAL	3	0	3
253	NEW ZEALAND SHOVELER	(4494)	0	(4494)
254	BLUE DUCK	(304)	133	(437)
256	NEW ZEALAND SCAUP	(113)	0	(113)
_	DUCK (GREY OR MALLARD)	[(13)]	0	[(13)]
272	AUSTRALASIAN HARRIER	5308	169	5477
281	NEW ZEALAND FALCON	56	6	62
296	CHUKOR	2217	0	2217
299	RED-LEGGED PARTRIDGE	22178	860	23038
300	RED-LEGGED PARTRIDGE (HYBRID)	42	0	42
298	GREY PARTRIDGE	(14215)	0	(14215)
292	BROWN QUAIL	19	1	20
295	CALIFORNIA QUAIL	(12205)	0	(12205)
293	PHEASANT	(58793)	0	(58793)
331	BANDED RAIL	32	0	32
335	NORTH ISLAND WEKA	3671	64	3735
336	WESTERN WEKA	685	0	685
337	BUFF WEKA	31	0	31
338	STEWART ISLAND WEKA	826	0	826
340	MARSH CRAKE	5	0	5
341	SPOTLESS CRAKE	23	0	23
342	PUKEKO	2120	24	2144
343	NOTORNIS	358	15	373
J T J	WEKA SPECIES		0	
— 401	SOUTH ISLAND PIED OYSTERCATCHER	[1] 2574		[1] 2709
401 402	VARIABLE OYSTERCATCHER		135 79	410
		331	-	
404	CHATHAM ISLAND OYSTERCATCHER	93	22	115
403	(BLACK OYSTERCATCHER)	101	0	101
411	SPUR-WINGED PLOVER	632	6	638
413	LEAST GOLDEN PLOVER (PACIFIC GOLDEN PLOVER)	5	0	5

^[] 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.

SPECI	ES NUMBER AND NAME	TOTAL PRE 1994	TOTAL 1994/95	TOTAL FOR ALL YEARS
418	NEW ZEALAND DOTTEREL	662	77	739
415	BANDED DOTTEREL	4257	118	4375
422	BLACK-FRONTED DOTTEREL	123	5	128
419	NEW ZEALAND SHORE PLOVER	470	52	522
420	WRYBILL	4524	20	4544
445	EASTERN BAR-TAILED GODWIT	852	149	1001
449	WANDERING TATTLER	1	0	1
448	TEREK SANDPIPER	1	0	1
451	TURNSTONE	18	0	18
453	CHATHAM ISLAND SNIPE	150	0	150
454	SNARES ISLAND SNIPE	274	0	274
458	KNOT	4020	29	4049
461	CURLEW SANDPIPER	19	0	19
462	RED-NECKED STINT	3	0	3
481	PIED STILT	1173	0	1173
482	BLACK STILT	129	0	129
511	SOUTHERN GREAT SKUA	1749	0	1749
512	ANTARCTIC SKUA	2414	0	2414
514	ARCTIC SKUA	1	0	1
521	SOUTHERN BLACK-BACKED GULL	71969	610	72579
523	RED-BILLED GULL	91136	191	91327
524	BLACK-BILLED GULL	37518	331	37849
527	CASPIAN TERN	5605	59	5664
525	BLACK-FRONTED TERN	1437	25	1462
529	ANTARCTIC TERN	158	0	158
531	FAIRY TERN	22	2	24
532	WHITE-FRONTED TERN	23654	14	23668
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	176	19	195
552	CHATHAM ISLAND PIGEON	73	31	104
553	ROCK PIGEON	60	0	60
554	MALAY SPOTTED DOVE	10	0	10
555	BARBARY DOVE	1	0	1
561	KAKAPO	84	0	84
562	NORTH ISLAND KAKA	88	21	109
563	SOUTH ISLAND KAKA	87	6	93
564	KEA	1600	18	1618
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 PAR		0	1
202	CHARLIMAN IOLAND RED-CROWNED PAR	MIXELI I	U	1
570	REISCHECK'S PARAKEET	56	0	56

^[] 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.

SPEC	IES NUMBER AND NAME	TOTAL PRE 1994	TOTAL 1994/95	TOTAL FOR ALL YEARS
574	CHATHAM ISLAND YELLOW-CROWNED PARAKEET	9	0	9
583	SHINING CUCKOO	75	0	75
584	LONG-TAILED CUCKOO	4	0	4
601	MOREPORK	51	0	51
604	LITTLE OWL	16	0	16
621	NEW ZEALAND KINGFISHER	267	4	271
641	NORTH ISLAND RIFLEMAN	150	0	150
642	SOUTH ISLAND RIFLEMAN	1128	0	1128
646	ROCK WREN	9	0	9
651	SKYLARK	42	2	44
662	WELCOME SWALLOW	387	0	387
741	NEW ZEALAND PIPIT	50	0	50
731	HEDGESPARROW	2449	14	2463
701	NORTH ISLAND FERNBIRD	34	0	34
702	SOUTH ISLAND FERNBIRD	258	18	276
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	148	0	148
714	GREY WARBLER	1131	7	1138
715	CHATHAM ISLAND WARBLER	74	0	74
681	NORTH ISLAND FANTAIL	688	4	692
682	SOUTH ISLAND FANTAIL	890	11	901
684	PIED TIT	175	0	175
685	YELLOW-BREASTED TIT	420	7	427
686	CHATHAM ISLAND TIT	37	0	37
687	BLACK TIT	161	0	161
689	NORTH ISLAND ROBIN	146	90	236
690	SOUTH ISLAND ROBIN	2694	6	2700
691	STEWART ISLAND ROBIN	10	0	10
692	BLACK ROBIN	391	75	466
721	SONG THRUSH	3351	14	3365
722	BLACKBIRD	7655	12	7667
761	SILVEREYE	71616	2535	74151
751	STITCHBIRD	401	42	443
753	BELLBIRD	6082	28	6110
755	TUI	983	2	985
756	CHATHAM ISLAND TUI	1	0	1
775	YELLOWHAMMER	1120	8	1128
776	CIRL BUNTING	27	0	27
774	CHAFFINCH	3205	8	3213
771	GREENFINCH	8434	3	8437
772	GOLDFINCH	3510	12	3522
773	REDPOLL	8128	16	8144
781	HOUSE SPARROW	34836	129	34965

^[] 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.

SPECI	ES NUMBER AND NAME	TOTAL PRE 1994	TOTAL 1994/95	TOTAL FOR ALL YEARS
791	STARLING	18309	7	18316
792	INDIAN MYNA	1401	0	1401
821	NORTH ISLAND SADDLEBACK	2454	178	2632
822	SOUTH ISLAND SADDLEBACK	315	2	317
824	NORTH ISLAND KOKAKO	190	61	251
811	BLACK-BACKED MAGPIE	41	0	41
812	WHITE-BACKED MAGPIE	263	0	263
813	HYBRID MAGPIE	25	0	25
_	MAGPIE SPECIES	4	0	4
802	ROOK	1070	0	1070
TOTAL		1148212	18490	1166702

^[] 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.

SPECIES NUMBER P AND NAME		PU	JM	JF	JU	AM	AF	AU	UM	UF	UU	RB	TOTA
012	YELLOW-EYED PENGUIN	381	0	0	9	0	0	35	0	0	0	9	43
023	ADELIE PENGUIN	1000	0	0	0	0	0	83	0	0	0	0	108
026	NORTHERN BLUE PENGUIN	0	0	0	0	0	0	59	0	0	0	0	5
014	COOK STRAIT BLUE PENGUIN	26	1	0	0	11	11	0	0	0	0	0	4
016	WHITE-FLIPPERED BLUE PENGUIN	V 520	0	0	0	0	0	50	0	0	0	0	57
015	SOUTHERN BLUE PENGUIN	356	0	0	0	97	69	84	0	0	0	1	60
017	ROCKHOPPER PENGUIN	25	0	0	0	39	43	0	0	0	0	0	10
019	FIORDLAND CRESTED PENGUIN	45	0	0	3	117	106	5	0	0	0	2	27
041	WANDERING ALBATROSS	32	0	0	0	0	2	136	0	0	0	0	17
044	NORTHERN ROYAL ALBATROSS	223	0	0	0	0	0	1	0	0	0	1	22
043	SOUTHERN ROYAL ALBATROSS	480	0	0	0	0	0	0	0	0	0	2	48
046	NEW ZEALAND BLACK-BROWED MOLLYMAWK	663	0	0	0	0	0	24	0	0	0	36	72
904	BLACK-BROWED MOLLYMAWK X-BRED	1	0	0	0	0	0	0	0	0	0	0	
)47	GREY-HEADED MOLLYMAWK	150	0	0	1	0	0	47	0	0	0	7	20
)49	BULLER'S MOLLYMAWK	150	0	0	0	0	0	0	0	0	0	0	15
907	NORTHERN BULLER'S MOLLYMAY	WK 0	0	0	0	0	0	89	0	0	0	0	8
)51	CHATHAM ISLAND MOLLYMAWK	696	0	0	0	0	0	0	0	0	0	0	69
063	SNARES CAPE PIGEON	0	0	0	0	5	6	0	0	0	0	0	
093	GREY-FACED PETREL	878	0	0	0	0	0	975	0	0	0	0	185
101	PYCROFT'S PETREL	27	0	0	0	0	0	74	0	0	0	0	10
106	BLACK-WINGED PETREL	31	0	0	0	0	0	11	0	0	0	0	4
105	CHATHAM ISLAND PETREL	10	0	0	0	2	7	66	0	0	0	0	8
066	BROAD-BILLED PRION	1	0	0	0	0	0	8	0	0	0	0	
090	BLACK PETREL	5	0	0	0	0	0	1	0	0	0	0	
091	WESTLAND BLACK PETREL	4	0	0	94	0	1	5	0	0	0	0	10
078	WEDGE-TAILED SHEARWATER	53	0	0	0	0	0	0	0	0	0	0	4
080	SOOTY SHEARWATER	0	0	0	0	0	0	58	0	0	0	0	5
082	FLUTTERING SHEARWATER	0	0	0	0	0	0	74	0	0	0	0	-
083	HUTTON'S SHEARWATER	22	0	0	0	0	0	92	0	0	0	0	11
086	NORTH ISLAND LITTLE (ALLIED) SHEARWATER	13	0	0	0	16	14	138	0	0	0	0	18
124	WHITE-FACED STORM PETREL	0	0	0	0	0	0	45	0	0	0	0	4
131	NORTHERN DIVING PETREL	1	0	0	0	0	0	109	0	0	0	0	11
132	SOUTHERN DIVING PETREL	5	0	0	0	0	0	1	0	0	0	0	
161	AUSTRALASIAN GANNET	66	0	0	2425	1	1	261	0	0	0	0	275
162	BROWN BOOBY	31	0	0	0	0	0	0	0	0	0	0	
171	BLACK SHAG	37	0	0	0	0	0	0	0	0	0	0	3
182	SPOTTED SHAG	27	0	0	0	0	0	0	0	0	0	0	2
215	REEF HERON	7	0	0	0	0	0	0	0	0	0	0	
233	ROYAL SPOONBILL	32	0	0	0	0	0	0	0	0	0	0	3
252	MALLARD	0	18	26	0	36	45	0	0	0	0	0	12
259	HYBRID MALLARD (CROSS)	0	0	0	0	0	1	0	0	0	0	0	
248	BROWN TEAL	23	6	6	0	78	55	0	0	0	0	0	16
254	BLUE DUCK	0	49	36	0	27	21	0	0	0	0	12	14

Abbreviations used in the column headings:

PU = Pullus of unknown sex

AM = Adult male

UF = Female of unknown age

JM = Juvenile male

AF = Adult female

UU = Unknown age and sex

JF = Juvenile female

AU = Adult of unknown sex

RB = Birds re-banded

JU = Juvenile of unknown sex

UM = Male of unknown age

	CIES NUMBER NAME	PU	JM	JF	JU	AM	AF	AU	UM	UF	UU	RB	TOTAL
272	AUSTRALASIAN HARRIER	0	60	24	16	26	20	23	0	0	0	0	169
281	NEW ZEALAND FALCON	0	4	2	0	0	0	0	0	0	0	0	6
299	RED-LEGGED PARTRIDGE	0	238	303	117	101	101	0	0	0	0	0	860
292	BROWN QUAIL	0	0	0	0	0	0	0	0	0	1	0	1
335	NORTH ISLAND WEKA	0	28	32	0	1	3	0	0	0	0	1	65
342	PUKEKO	0	0	0	1	14	8	1	0	0	0	0	24
343	NOTORNIS	0	2	1	11	1	0	0	0	0	0	0	15
401	SOUTH ISLAND PIED OYSTERCATCHER	20	0	0	5	11	19	76	0	0	4	1	136
402	VARIABLE OYSTERCATCHER	43	0	0	2	14	7	13	0	0	0	5	84
404	CHATHAM ISLAND OYSTERCATO	HER 0	0	0	22	0	0	0	0	0	0	0	22
411	SPUR-WINGED PLOVER	0	0	0	6	0	0	0	0	0	0	0	6
418	NEW ZEALAND DOTTEREL	46	0	0	10	6	3	12	0	0	0	1	78
415	BANDED DOTTEREL	47	0	0	0	22	42	7	0	0	0	0	118
4 22	BLACK-FRONTED DOTTEREL	1	0	0	0	0	0	4	0	0	0	0	5
419	NEW ZEALAND SHORE PLOVER	2	3	2	42	1	2	0	0	0	0	2	54
420	WRYBILL	2	0	0	2	0	2	14	0	0	0	1	21
445	EASTERN BAR-TAILED GODWIT	0	0	0	1	17	18	112	0	0	1	2	151
458	KNOT	0	0	0	0	0	0	29	0	0	0	1	30
521	SOUTHERN BLACK-BACKED GUL	L 609	0	0	1	0	0	0	0	0	0	0	610
523	RED-BILLED GULL	143	0	0	0	18	26	4	0	0	0	3	194
524	BLACK-BILLED GULL	331	0	0	0	0	0	0	0	0	0	0	331
527	CASPIAN TERN	59	0	0	0	0	0	0	0	0	0	0	59
525	BLACK-FRONTED TERN	25	0	0	0	0	0	0	0	0	0	0	25
531	FAIRY TERN	2	0	0	0	0	0	0	0	0	0	0	2
532	WHITE-FRONTED TERN	14	0	0	0	0	0	0	0	0	0	0	14
551	NEW ZEALAND PIGEON	0	0	0	0	5	3	11	0	0	0	0	19
552	CHATHAM ISLAND PIGEON	28	0	0	0	0	0	3	0	0	0	0	31
562	NORTH ISLAND KAKA	0	0	1	0	18	2	0	0	0	0	0	21
563	SOUTH ISLAND KAKA	0	0	0	0	5	1	0	0	0	0	0	6
564	KEA	0	5	3	3	4	1	2	0	0	0	0	18
621	NEW ZEALAND KINGFISHER	0	0	0	4	0	0	0	0	0	0	0	4
551	SKYLARK	2	0	0	0	0	0	0	0	0	0	0	2
731	HEDGESPARROW	0	0	0	0	0	0	12	0	0	2	0	14
702	SOUTH ISLAND FERNBIRD	18	0	0	0	0	0	0	0	0	0	0	18
714	GREY WARBLER	0	0	0	1	0	0	6	0	0	0	0	7
681	NORTH ISLAND FANTAIL	0	0	0	3	0	0	0	0	0	1	0	4
582	SOUTH ISLAND FANTAIL	0	0	0	2	0	0	9	0	0	0	0	11
585	YELLOW-BREASTED TIT	0	0	0	2	3	2	0	0	0	0	0	7
689	NORTH ISLAND ROBIN	42	0	0	0	9	4	35	0	0	0	0	90
590	SOUTH ISLAND ROBIN	0	0	0	1	2	3	0	0	0	0	0	6
590 592	BLACK ROBIN	25	0	0	49	0	0		0	0	0	0	75
								1					
721	SONG THRUSH	0	0	0	5	0	0	9	0	0	0	0	14
722	BLACKBIRD	0	2	1	2	4	3	0	0	0	0	0	12
761	SILVEREYE	0	0	0	39	0	0	2496	0	0	0	0	2535
751 752	STITCHBIRD	0	0	0	0	22	20	0	0	0	0	0	42
753	BELLBIRD	0	0	1	1	18	7	1	0	0	0	0	28

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JF = Juvenile female

AU = Adult of unknown sex

RB = Birds re-banded

JU = Juvenile of unknown sex

UM = Male of unknown age

SPECIES NUMBER AND NAME	PU	JM	JF	JU	AM	AF	AU	UM	UF	UU	RB	TOTAL
775 YELLOWHAMMER	0	0	0	0	4	4	0	0	0	0	0	8
774 CHAFFINCH	0	0	0	1	3	2	1	0	1	0	0	8
771 GREENFINCH	0	0	0	0	2	0	1	0	0	0	0	3
772 GOLDFINCH	0	0	0	2	3	5	2	0	0	0	0	12
773 REDPOLL	0	0	0	0	7	9	0	0	0	0	0	16
781 HOUSE SPARROW	0	12	30	8	50	23	1	1	0	4	0	129
791 STARLING	0	0	0	0	0	1	6	0	0	0	0	7
821 NORTH ISLAND SADDLEBACK	175	0	0	0	1	0	2	0	0	0	0	178
822 SOUTH ISLAND SADDLEBACK	0	0	0	2	0	0	0	0	0	0	0	2
824 NORTH ISLAND KOKAKO	54	0	0	0	2	2	3	0	0	0	0	61
TOTAL	7709	428	468	2893	823	725	5429	1	1	13	87	18577

Abbreviations used in the column headings:

PU = Pullus of unknown sex

AM = Adult male

UF = Female of unknown age

JM = Juvenile male

AF = Adult female RB = Birds re-banded UU = Unknown age and sex
JU = Juvenile of unknown sex

JF = Juvenile female UM = Male of unknown age AU = Adult of unknown sex

TABLE 3. SUMMARY PER PERMIT (REBANDS INCLUDED).

		BIRDS NDED			BIRDS BANDED
PERMIT 0002	MILLS DR J A		PERMIT 0173	WELLINGTON FISH & GAME C	OUNCIL
	RED-BILLED GULL	194		MALLARD	125
	**Subtotal **	194		HYBRID MALLARD (CROSS)	1
				**Subtotal **	126
PERMIT 0005	ROBERTSON C J R				
	NORTHERN ROYAL ALBATROSS	225	PERMIT 0174	NELSON/MARLBOROUGH	
	NORTHERN BULLER'S MOLLYMAWK	89		FISH & GAME COUNCIL	•
	CHATHAM ISLAND MOLLYMAWK	696		RED-LEGGED PARTRIDGE	319
	**Subtotal **	1010		**Subtotal **	319
DED 10000	D. I.Y.Y.O. Y.Y. H.		PERMIT 0179	S. CANTERBURY FISH & GAME	COUNCIL
PERMIT 0032	DAVIS V T	2/25	PERMIT 01/9	RED-LEGGED PARTRIDGE	541
	AUSTRALASIAN GANNET	2425		**Subtotal **	541
	**Subtotal **	2425		Stibiotal	711
PERMIT 0042	CHALLIES C N		PERMIT 0215	TORR O C	
LKWIII 0042	WHITE-FLIPPERED BLUE PENGUIN	570		SONG THRUSH	1
	**Subtotal **	570		HOUSE SPARROW	15
	Subtotal	<i>51</i> 0		**Subtotal **	16
PERMIT 0044	COWIE J A				
	BANDED DOTTEREL	1	PERMIT 0243	SIM D M	
	SOUTHERN BLACK-BACKED GULL	10		SPUR-WINGED PLOVER	6
	BLACK-BILLED GULL	100		SILVEREYE	223
	**Subtotal **	111		**Subtotal **	229
PERMIT 0076	BELL BRIAN D		PERMIT 0244	POWLESLAND R G	
	SOUTHERN BLACK-BACKED GULL	1		BLACK SHAG	37
	HOUSE SPARROW	50		CHATHAM ISLAND PIGEON	31
	**Subtotal **	51		**Subtotal **	68
PERMIT 0093	SAGAR P M		PERMIT 0246	PIERCE R J	
PERMIT 0093	SNARES CAPE PIGEON	11		FAIRY TERN	2
	SOUTH ISLAND PIED OYSTERCATCH			**Subtotal **	2
	**Subtotal **	44			
	Subtour	**	PERMIT 0257	ONLEY D J	
PERMIT 0104	LANDCARE RESEARCH NZ LTD			HEDGESPARROW	7
	ADELIE PENGUIN	1083		GREY WARBLER	7
	SOUTH ISLAND KAKA	6		SOUTH ISLAND FANTAIL	5
	**Subtotal **	1089		YELLOW-BREASTED TIT	3
				SONG THRUSH	2
PERMIT 0108	CAMPBELL ISLAND PARTY			BLACKBIRD	4
	WANDERING ALBATROSS	4		SILVEREYE	1104
	SOUTHERN ROYAL ALBATROSS	482		BELLBIRD	8
	NEW ZEALAND BLACK-BROWED			TUI	1
	MOLLYMAWK	723		YELLOWHAMMER	8
	BLACK-BROWED MOLLYMAWK CRO	SS 1		CHAFFINCH	2
	GREY-HEADED MOLLYMAWK	205		GOLDFINCH	5
	**Subtotal **	1415		REDPOLL	14
				HOUSE SPARROW	51
				STARLING	4

		BIRDS NDED		В	BIRDS
PERMIT 0259	MASSEY UNIVERSITY		PERMIT 0294	CANTERBURY PASSERINE GROUP	
	NORTH ISLAND ROBIN	42		HEDGESPARROW	4
	NORTH ISLAND SADDLEBACK	73		SOUTH ISLAND FANTAIL	5
	**Subtotal **	115		SONG THRUSH	6
				BLACKBIRD	3
PERMIT 0266	DANN P			SILVEREYE	449
	FIORDLAND CRESTED PENGUIN	3		BELLBIRD	8
	**Subtotal **	3		CHAFFINCH	2
				GREENFINCH	2
PERMIT 0275	BEAUCHAMP A J			GOLDFINCH	5
	NORTH ISLAND WEKA	40		REDPOLL	2
	**Subtotal **	40		HOUSE SPARROW	6
				STARLING	3
PERMIT 0278	N Z WADER STUDY GROUP			**Subtotal **	495
	SOUTH ISLAND PIED OYSTERCATCI	HER 84			
	BANDED DOTTEREL	7	PERMIT 0297	AUCKLAND UNIVERSITY	
	WRYBILL	17		NORTHERN BLUE PENGUIN	59
	EASTERN BAR-TAILED GODWIT	151		NEW ZEALAND PIGEON	19
	KNOT	30		NORTH ISLAND SADDLEBACK	105
	**Subtotal **	289		**Subtotal **	183
PERMIT 0282	DUCKS UNLIMITED (NZ)		PERMIT 0301	DARBY J T	
	BROWN TEAL	1		YELLOW-EYED PENGUIN	434
	**Subtotal **	1		**Subtotal **	434
PERMIT 0284	OTAGO UNIVERSITY		PERMIT 0307	COSSEE R O	
	PUKEKO	24		COOK STRAIT BLUE PENGUIN	49
	**Subtotal **	24		FIORDLAND CRESTED PENGUIN	2
				SPOTTED SHAG	27
PERMIT 0285	RAPTOR ASSOCIATION OF N Z			REEF HERON	3
	AUSTRALASIAN HARRIER	143		VARIABLE OYSTERCATCHER	17
	NEW ZEALAND FALCON	6		SOUTHERN BLACK-BACKED GULL	
	**Subtotal **	149		WHITE-FRONTED TERN	14
				KEA	3
PERMIT 0291	NORTHLAND/FAR NORTH REGION			BLACKBIRD	1
	SOUTHERN BLACK-BACKED GULL	290		SILVEREYE	433
	**Subtotal **	290		TUI	1
DHD WH 0000	NOWEL II			SOUTH ISLAND SADDLEBACK	2
PERMIT 0292	ROWE L K	2		**Subtotal **	861
	SKYLARK	2	DED. WE 02.17	DINDER DOMESTIC CHILDY CDOX	TD.
	HEDGESPARROW	1	PERMIT 0317	BANDED DOTTEREL STUDY GROU	
	SOUTH ISLAND FANTAIL	1		BLACK-FRONTED DOTTEREL	5
	YELLOW-BREASTED TIT	4		**Subtotal **	5
	SOUTH ISLAND ROBIN SONG THRUSH	6 4	PERMIT 0323	DOWDING I	
			FERMIT 0525	DOWDING J	
	SILVEREYE BELLBIRD	10 12		(N Z DOTTEREL STUDY GROUP) NEW ZEALAND DOTTEREL	77
	CHAFFINCH	2		**Subtotal **	77 77
	GREENFINCH	1		Subtotal	//
	HOUSE SPARROW	2			
	**Subtotal **	45			
	Subtotal	4)			

BIRDS BANDED		BIRI Bande			
PERMIT 0325	OSNZ AUCKLAND SEABIRD GROUP		PERMIT 0350	GOODWIN A	
	GREY-FACED PETREL	1070		BLACK-BILLED GULL	231
	BLACK PETREL	6		**Subtotal **	231
	FLUTTERING SHEARWATER	74			
	NORTH ISLAND LITTLE (ALLIED)		PERMIT 0358	D O C MOLLYMAWK PROJECT	
	SHEARWATER	100		BULLER'S MOLLYMAWK	150
	WHITE-FACED STORM PETREL	45		**Subtotal **	150
	NORTHERN DIVING PETREL	110			
	**Subtotal **	1405	PERMIT 0363	STAPLES G C	
				NORTH ISLAND WEKA	25
PERMIT 0337	ROYAL SPOONBILL PROJECT OSNZ			**Subtotal **	25
	ROYAL SPOONBILL	20			
	**Subtotal **	20	PERMIT 0366	O S N Z HAWKES BAY	
				SOUTH ISLAND PIED OYSTERCATO	CHER 3
PERMIT 0338	WELLINGTON CONSERVANCY D	ЭС		**Subtotal **	3
	SOOTY SHEARWATER	50			
	NORTH ISLAND ROBIN	48	PERMIT 0367	SCHWEIGMAN P	
	**Subtotal **	98		ROYAL SPOONBILL	12
				VARIABLE OYSTERCATCHER	22
PERMIT 0339	TAYLOR T J			**Subtotal **	34
	AUSTRALASIAN HARRIER	20			
	**Subtotal **	20	PERMIT 0368	DOWDING J E	
				VARIABLE OYSTERCATCHER	30
PERMIT 0340	NORTHLAND PASSERINE GROUP			**Subtotal **	30
	BROWN QUAIL	1			
	NEW ZEALAND KINGFISHER	4	PERMIT 0370	FREEMAN AMANDA	
	HEDGESPARROW	2		WESTLAND BLACK PETREL	104
	NORTH ISLAND FANTAIL	4		**Subtotal **	104
	SONG THRUSH	1			
	BLACKBIRD	4	PERMIT 0373	BAY OF PLENTY CONSERVANCY D	OC
	SILVEREYE	316		VARIABLE OYSTERCATCHER	15
	CHAFFINCH	2		NEW ZEALAND DOTTEREL	1
	GOLDFINCH	2		CASPIAN TERN	44
	HOUSE SPARROW	5		STITCHBIRD	42
	**Subtotal **	341		**Subtotal **	102
PERMIT 0341	OSNZ NELSON/MARLBOROUGH		PERMIT 0374	MORGAN G W	
	AUSTRALASIAN GANNET	328		CASPIAN TERN	15
	AUSTRALASIAN HARRIER	6		**Subtotal **	15
	**Subtotal **	334			
			PERMIT 0376	TAKAHE RECOVERY GROUP D O	2
PERMIT 0346	D O C AUCKLAND ISLAND PROJEC	CTS		NOTORNIS	15
	WANDERING ALBATROSS	166		**Subtotal **	15
	**Subtotal **	166			
			PERMIT 0378	SOUTHLAND CONSERVANCY D O	C
PERMIT 0349	NORTHLAND SEABIRD GROUP			SOUTH ISLAND FERNBIRD	18
	PYCROFT'S PETREL	101		**Subtotal **	18
	NORTH ISLAND LITTLE (ALLIED)				
	SHEARWATER	81	PERMIT 0381	AUSTRALIAN BANDING SCHEME	
	**Subtotal **	182		ROCKHOPPER PENGUIN	107
				**Subtotal **	107

	BIRDS BANDED		BIR BAND			
PERMIT 0382	NEW CALEDONIAN PROJECTS		PERMIT 7125	CANTERBURY CONSERVANCY, D	NTERBURY CONSERVANCY, D O C	
	BLACK-WINGED PETREL	31		BLACK-WINGED PETREL	11	
	WEDGE-TAILED SHEARWATER	53		CHATHAM ISLAND PETREL	85	
	BROWN BOOBY	31		BROAD-BILLED PRION	9	
	**Subtotal **	115		SOUTHERN DIVING PETREL	6	
				SOUTH ISLAND PIED OYSTERCAT	CHER 16	
PERMIT 0383	OATES KERRY			CHATHAM ISLAND OYSTERCATCH	HER 22	
	BLUE DUCK	13		BANDED DOTTEREL	110	
	**Subtotal **	13		NEW ZEALAND SHORE PLOVER	49	
				WRYBILL	4	
PERMIT 1125	NORTHERN CONSERVANCIES D O C			BLACK-FRONTED TERN	25	
	REEF HERON	4		KEA	15	
	**Subtotal **	4		BLACK ROBIN	75	
				**Subtotal **	427	
PERMIT 4125	WANGANUI CONSERVANCY D O C					
	AUSTRALASIAN GANNET	1	PERMIT 8125 SOUTHERN CONSERVANCIES, D O		C	
	BLUE DUCK	24		SOUTHERN BLUE PENGUIN	607	
	NEW ZEALAND SHORE PLOVER	5		**Subtotal **	607	
	**Subtotal **	30				
			PERMIT 9125	SCIENCE & RESEARCH, D O C		
PERMIT 5125	NELSON/MARLBOROUGH			GREY-FACED PETREL	783	
	CONSERVANCY, D O C			BROWN TEAL	167	
	SOOTY SHEARWATER	8		BLUE DUCK	108	
	HUTTON'S SHEARWATER	114		NORTH ISLAND KAKA	21	
	**Subtotal **	122		NORTH ISLAND KOKAKO	61	
				**Subtotal **	1140	
PERMIT 6125	WEST COAST CONSERVANCY D O	С				
	FIORDLAND CRESTED PENGUIN	273	*** Total ***		18577	
	**Subtotal **	273				

4. Recoveries

Large numbers of recoveries were reported by the general public. The growing awareness of the importance to report sightings of individually colour banded birds has meant a steady increase in the number of these reports. Nearly half of the recoveries related to colour banded birds.

The handling of 'public' recoveries has precedence over those reported by the banders. 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 usually 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 mentioned in previous reports, the New Zealand National Banding Scheme continues to have one of the fastest response times for public recoveries in the world, as well as the highest recovery rate!

Some notable recoveries

Several **Wandering Albatrosses** (*Diomedea exulans*) banded under the Australian Bird & Bat Banding Scheme were recovered on New Zealand sub-Antarctic islands.

- 140-25115 was banded as a bird of unknown age and sex at sea off Bellamby, NSW (34° 20′ S, 151° 0′ E) on 22/8/64. It was recovered incubating an egg on 26/1/94 on Adams Island in the Auckland Islands, 29 years and 5 months after banding.
- **140-25801** was banded at sea off Malabar, NSW (30° 58′ S, 151° 20′ E) on 25/6/66 as a bird of unknown age and sex. It was found incubating an egg on Adams Island on 7/2/94, 27 years and 7 months after banding.
- **140-26315**, also banded off Malabar on 18/10/69, was recovered alive on Antipodes Island on 2/3/94.

Two foreign banded **Grey-headed Mollymawk** (Diomedea chrysostoma) were recovered.

- **507-9981** (BTO band) was banded by British Antarctic Survey on 24/11/76 on Bird Island, South Georgia (54° 0′ S, 38° 2′ W) as a bird of unknown sex and at least three years of age. It was recovered freshly dead at Oakura near New Plymouth on 24/9/95.
- **120-42571** (Australian band) was banded as a bird of unknown age and sex on 21/1/76 on Macquarie Island. It was found incubating an egg on Campbell Island on 17/10/92, when a NZ band (M-49428) was added.

Eight **Grey-faced Petrel** (*Pterodroma macroptera gouldi*) banded as chicks on Whale Island during December 1969 were recovered alive and well at their place of banding on 31/4/95, over 25 years after banding.

Two **Spotted Shags** (*Strictocarbo punctatus punctatus*) banded as nestlings on Somes Island, Wellington Harbour were recovered dead on the beach of Petone.

- **O-20834** was banded on 27/7/79 and found dead on 6/8/95, just over 16 years of age.
- **M-32723**, banded on 21/9/75 was found dead on 17/6/95, 19 years, months after banding.
- Variable Oystercatcher (*Haematopus unicolor*) K-4760, banded as a juvenile at Waipu on 15/5/71, was subsequently seen in the same area, identified by its colour combination. It was recaptured on Waipu Spit on 23/3/95 and was rebanded with K-5298. At that stage the bird was nearly 24 years old.
- **Knot** (Calidris canutus) C-31161 was banded at the Kaipara Harbour as an adult of unknown sex on 28/2/87. It was captured, presumably for food, at Miao-Gang, Yangtze River estuary, Shanghai, China (30° 52′ N, 121° 52′ E) in April 1994.
- **S-39714**, a **Southern Black-backed Gull** (*Larus dominicanus*) was banded as a pullus on Somes Island, Wellington Harbour on 1/1/68. It was found, freshly dead, at Maoribank, Upper Hutt on 5/7/95, 27.5 years after banding.

Leg flags

The international effort in leg-flagging migratory waders along the East Asian-Australasian Flyway is becoming more and more widespread and keeps producing interesting results. So far nearly 25,000 waders have been flagged along the flyway. The practice has greatly increased the volume of data on stop-over sites, and migration routes in general.

Results of the flyway research are published in the bulletins of the Australasian Wader Study Group (The Stilt) and the New Zealand Wader Study Group. A brief outline of reports received during the year is given here.

Knots (Calidris canutus canutus), New Zealand (white) flagged on the Firth of Thames and the Manukau Harbour, have been sighted in Northland, Farewell Spit and at Altona Beach, Victoria, Australia.

Knots from Victoria (orange flagged) were reported from the Manukau Harbour, Firth of Thames, and Farewell Spit.

Knots from Queensland (green flagged) were seen in the Manukau and Kaipara Harbours, Firth of Thames, Northland, Manawatu and Farewell Spit.

A **Knot** from Western Australia (yellow flagged) was reported from Miranda, Firth of Thames.

Bar-tailed Godwits (*Limosa lapponica baueri*) white flagged on the Kaipara Harbour and Firth of Thames, although moving around the general area they were marked, do not normally seem to move far from there, so four sightings from Farewell Spit are of interest. Australian marked birds were seen on the Manukau and Firth of Thames as well as in the Christchurch area.

5. 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.

6. References

Cossee, R O 1990. Bird Banding. In: A Flying Start, Commemorating Fifty Years of the Ornithological Society of New Zealand. B J Gill & B D Heather Eds. Ornithological Society of New Zealand and Random Century, Auckland.

Kinsky, F C 1970. Annotated checklist of the birds of New Zealand. Ornithological Society of New Zealand and A H & A W Reed, Wellington.

Turbott, E G 1990. Checklist of the birds of New Zealand. Ornithological Society of New Zealand and Random Century, Auckland.

Appendix 1

RESEARCH SUPPORTED BY BIRD BANDING DURING 1994/95

(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 Albatrosses and Mollymawks, population dynamics, life span and dispersal patterns. (0005)

Life expectancy, breeding success, dispersal and census of the Australasian Gannet on White Island. (0032)

Breeding biology and movements of Westland Black Petrel. (0036, 0370)

Distribution, life expectancy and migration of native and introduced Passerines. (0076, 0215, 0243, 0257, 0259, 0292, 0294, 0297, 0307, 0340, 0378, 9125)

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

Ecology of Adelie Penguins (0104)

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

Distribution, movements and longevity of Caspian Terns. (0374)

Distribution and mortality of Mallard Duck. (0173)

Population dynamics, longevity, age of first breeding, migration dispersal and movements of Procelariiformes. (0093, 0325, 0338, 0346, 0349, 0358, 0382, 5125, 7125)

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

Ecology and movements of South Island Kaka. (0104)

Southern Black-backed Gull dispersal and population dynamics. (0076, 0291, 0307)

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. (0174, 0179)

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

Breeding biology and reproduction of the Chatham Island Pigeon. (0244)

Breeding biology of Brown Teal, and establishment of new populations in the wild. (0282, 9125)

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

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

Population dynamics of Little Blue Penguins. (0307, 8125)

Migration patterns in waders. (0278)

Productivity of Sooty Shearwaters. (0284)

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

Ecology and dispersal of Fiordland Crested Penguins from Open Bay Island and the West Coast. (6125)

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

Behaviour and population dynamics of Kea. (7125)

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

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)

Dispersal of Royal Spoonbills. (0337, 0367)

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

Population dynamics and dispersal of Variable Oystercatcher. (0367, 0368, 0373)

Population dynamics of Rockhopper penguins. (0381)

Breeding biology, productivity and predation of Kokako. (9125)

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

Dispersal of Blue Duck. (0383, 4125, 9125)

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

Ecology, productivity and distribution of Kiwis. (9125)

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

Release of captive reared Takahe into the wild. (0376)

Ecology of South Island braided river birds. (7125)

NOTE: Although some permit numbers in the above list do not appear in Table 3, these permits were active, but banding data arrived too late to be included in this report.