

SCIENCE & RESEARCH INTERNAL REPORT NO. 12

**DEPARTMENT OF CONSERVATION,  
SCIENCE INVESTIGATIONS REGISTER  
1 APRIL 1988 TO 31 MARCH 1989**

(2<sup>ND</sup> EDITION)

Compiled by

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## PREFACE TO THE SECOND EDITION

This register contains a listing of science investigations managed by the Science and Research Directorate in the 1988/89 financial year. It includes investigations in conservation sciences and research which are being carried out by staff of this directorate, by transfer-funded agencies, under contract, and through scholarships.

This report is aimed at a general audience of conservation managers and others who have a need for information in conservation sciences. The investigations are ordered in numerical order under conservation headings and are described by their title. There is enough additional information to enable the reader to ascertain where the work is being done, by whom, and its state of completion.

The register is computer-based and will be updated annually.



Richard Sadleir  
30 Nov 88

Richard Sadleir  
Director, Science and Research  
Department of Conservation

DEPARTMENT OF CONSERVATION,  
CURRENT SCIENCE INVESTIGATIONS' REGISTER,  
1 APRIL 1988 TO 31 MARCH 1989.

(2nd Edition)

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## GUIDE TO THE SCIENCE INVESTIGATION REGISTER

### Introduction

This register is the printout of a computerised database of science investigations in conservation that are or were in progress during the 1988/89 financial year. The database was compiled from science investigation record sheets and other information (e.g. progress reports) received from science agencies involved. Updating the database is a continuing process as further information becomes available. Future printouts may contain more information about each investigation (e.g. Summary, Justification, Keywords).

The term 'investigation' is now used in planning and management of science in the Science and Research directorate. This is to avoid confusion with the use of the term "project" which is used in financial management in DOC as in "budget projects".

This section describes how information is arranged in the register and explains the sorts of information included. The investigations are listed under the headings, in the order of their Investigation Number.

### Investigation Name

This is the title of the investigation. (Titles should be sufficient to describe the project and not be condensed to the point where the nature of the investigation becomes unclear.)

### Study Venue

This is the departments regions and/or districts where the work is being carried out (see Figure 1). This normally relates to field work, although some entries list office and laboratory-venues. Several investigations are national in scope or are carried out in all regions. This is shown by reference to "All" or "All regions".

### Programme and Sub Programme

These are the science programme/sub programme(s) under which the investigation is classified. For data management reasons investigations are classified under one programme and sub programme only, although several apply to more than one programme or sub programme. The complete classification system is presented on page vi to viii in this report.

### **Investigation No.**

This is a unique identifier for each investigation and is composed of three parts. Example: S3085/251. The letter S indicates this is an approved science investigation, not a proposal. The following 4 digits are the Programme/Sub Programme code from the science classification system (page vi). In this example, 30 represents the Programme ECOLOGICAL PROCESSES; BIOTIC RESOURCES and 85 the Sub Programme Biogeographic Survey. The digits following the / constitute an accession number that was assigned in sequential number to projects grouped by agency. Within this database it is unique for each investigation.

### **Corporate Objective(s)**

This number(s) is the main corporate objective supported by the investigation. The corporate objective numbering systems used is that adopted by the department in August 1988. Investigations previously allotted to the former corporate objective 25 have been shown as "Apportioned" meaning they are apportioned between corporate objectives under the new system of financial management.

### **Contact Person**

This is the name of the leader (or sometimes the supervisor or director). Some entries list other people involved with the investigation. Future editions of the register may expand on these details.

### **Agency Investigation No.**

This is the number which the agency has assigned to the investigation.

### **Investigation Type**

Several terms have been used to distinguish between different types of investigation. These are:

- contract
- grant
- pilot study (a pilot investigation aimed at determining the feasibility, methods or usefulness of a full science investigation)
- scholarship
- split programme (an ongoing science programme which has now been split into individual investigations)
- T/F programme (a transfer funded programme which encompasses various individual investigations, details of which are not available at this stage)

- T/F or transfer fund (investigations funded partly or completely under transfer funding arrangements)
- [Blank] default for investigations by Science and Research directorate staff.

### **Investigation Agency**

This is the agency to which the contact person belongs to (see page ix for further details including abbreviations used).

### **Start, Review and Finish Dates**

These are the dates for the start and finish of the investigation, and an indicative date for its review. Systems for reviewing investigations are still being developed within the department and need to take account of the differing systems and timetables used in transfer funding agencies.

Information given regarding dates was sometimes incomplete so a system of default dates had to be adopted for this database. These dates were used if complete information was not supplied by investigation leaders or agencies:

Default Start Date	-1 January, if year only supplied -first day of month, if month and year supplied;
Default Review Date	-31/03/89 for transfer funding agencies and contracts; -reporting date for scholarships (i.e. for Investigation Numbers S****/65 to 79);
Default Finish Date	-31 December if year only supplied last day of month if month and year supplied -31/03/89 for ongoing investigations in Science and Research Directorate; -blank for transfer funding agencies

### **Status**

This shows the current status of the investigation based on the most recent information on hand. Because of various time lags this entry may not be the most up to date description. The entry for Status is the dominant category from the following list:

- new investigation (for investigations approved and/or starting this financial year)
- current (for investigations approved and commenced in DOC's first year or for investigations commenced before DOC was established)

- on hold (for investigations that are in limbo, pending some decision on their future)
- fieldwork completed (when fieldwork is finished but not labwork or writing-up/publication)
- labwork completed (lab and fieldwork are completed but not writing-up)
- monitoring only (major fieldwork is complete and monitoring only is required)
- manuscript(s) in process (final report(s)/paper/etc is being written or refereed)
- manuscript(s) in press (manuscript etc has been accepted for publication)
- completed (all objectives met)
- ceased (investigation abandoned, cancelled or DOC's involvement has stopped for financial or other reasons)
- [blank] default status when this is not clear in a few transfer funded investigations

## SCIENCE INVESTIGATIONS CLASSIFICATION SYSTEM

The listing below gives the categories under which projects are classified. Programmes in uppercase, e.g. INFORMATION, while Sub Programmes are shown in lower case, e.g. Advocacy, Publicity. The numbers on the left represent codes which nest together to give a 4-digit number, e.g. 1005 used in project numbering and management.

### 10 INFORMATION

- 05 Advocacy, Publicity
- 10 Education, Training
- 15 Planning Systems
- 20 Information Systems
- 25 Databases, Archives, Collections
- 30 Science Advice
- 35 Science Liaison
- 40 Publications
- 45 Contract Management
- 50 Science Administration

### 20 PHYSICAL PROCESSES AND RESOURCES

- 10 Climate, Atmosphere
- 20 Hydrology, Glaciology
- 25 Water Management
- 26 Geothermal Systems
- 30 Oceanography, Limnology
- 35 Coastal Processes
- 40 Geology, Geomorphology
- 50 Soils, Pedology
- 55 Soils Conservation
- 60 Natural Hazard, Monitoring, Analysis



## 30 ECOLOGICAL PROCESSES; BIOTIC RESOURCES

- 05 Mountainlands
- 10 Tussocklands
- 15 Forests
- 20 Shrublands
- 25 Coastal Lands, Sand Dunes
- 30 Islands
- 35 Bogs, Swamps (Freshwater)
- 40 Lakes, Rivers, Streams
- 45 Estuaries, Lagoons
- 50 Coastal, Marine
- 55 Extreme Environments, Special Ecosystems
- 56 Geothermal Systems
- 70 Agricultural Lands
- 75 Urban Lands
- 80 Ecological Modelling
- 85 Biogeographic Survey (e.g. PNA survey, coastal inventory, natural resource assessments)
- 90 Biogeographic Inventory Method
- 95 Monitoring

## 40 CONSERVATION OF NZ FLORA

- 10 Native Plants
- 20 Introduced Plants
- 30 Aquatic Native Plants
- 40 Threatened Plants
- 50 Structure, Genetics, Taxonomy
- 60 Plant Materials, Nurseries
- 70 Revegetation and Rehabilitation

## 50 CONSERVATION OF NZ FAUNA

- 05 Land Mammals
- 10 Marine Mammals
- 20 Land Birds (excluding gamebirds)
- 30 Seabirds
- 40 Reptiles, Amphibians
- 50 Fish, Freshwater (excluding introduced fish)
- 55 Fish, Marine
- 60 Invertebrates, Terrestrial
- 65 Invertebrates, Aquatic
- 70 Invertebrates, Marine
- 80 Structure, Genetics, Taxonomy
- 90 Habitat Management
- 95 Ecological Monitoring

## 60 HARVESTED AND CONTROLLED PLANTS

- 10 Native Plants
- 20 Maori Plant Resources
- 30 Introduced Plants
- 40 Problem Plants (Weeds)

## 70 HARVESTED AND CONTROLLED ANIMALS

- 05 Introduced Mammals (excluding ungulates)
- 10 Ungulates
- 15 Domestic Animals
- 20 Gamebirds
- 30 Introduced Birds
- 40 Native Fish, Freshwater
- 50 Introduced Fish
- 60 Introduced Invertebrates
- 70 Maori Animal Resources
- 80 Population Models
- 85 Monitoring Systems

## 80 HUMAN ECOLOGY: SOCIAL SCIENCE

- 05 Archaeology
- 10 Historic Site Excavation, Survey, Inventory
- 15 Historic Site Management
- 20 Artefact Preservation
- 25 Stratigraphy
- 40 Landscape Ecology
- 45 Demography
- 50 Economics
- 55 Recreation, Tourism, Survey and Monitoring
- 80 Maori Cultural Values
- 85 Institutional Systems
- 90 Human Impacts

## 90 INTERNATIONAL SCIENCE

- 10 Pacific Conservation
- 20 Antarctic Conservation
- 30 Marine Resources Conservation
- 40 Environmental Monitoring
- 50 International Liaison

LIST OF ABBREVIATIONS

CO	Central Office
DOC	Department of Conservation

Directorate/Organisations within DOC

A&E	Advocacy and Extension
BRC	Biological Resources Centre
C&M	Coastal and Marine
HPT	Historic Places Trust
L&F	Land and Fauna
PES	Protected Ecosystems
RTHR	Recreation, Tourism and Historic Resources
S&R	Science and Research

Regions

CAN	Canterbury
EAS	Eastern
NEM	Nelson-Marlborough
NOR	Northern
SOU	Southern
WAI	Waikato
WAN	Wanganui
WES	West Coast

Transfer Funding Agencies

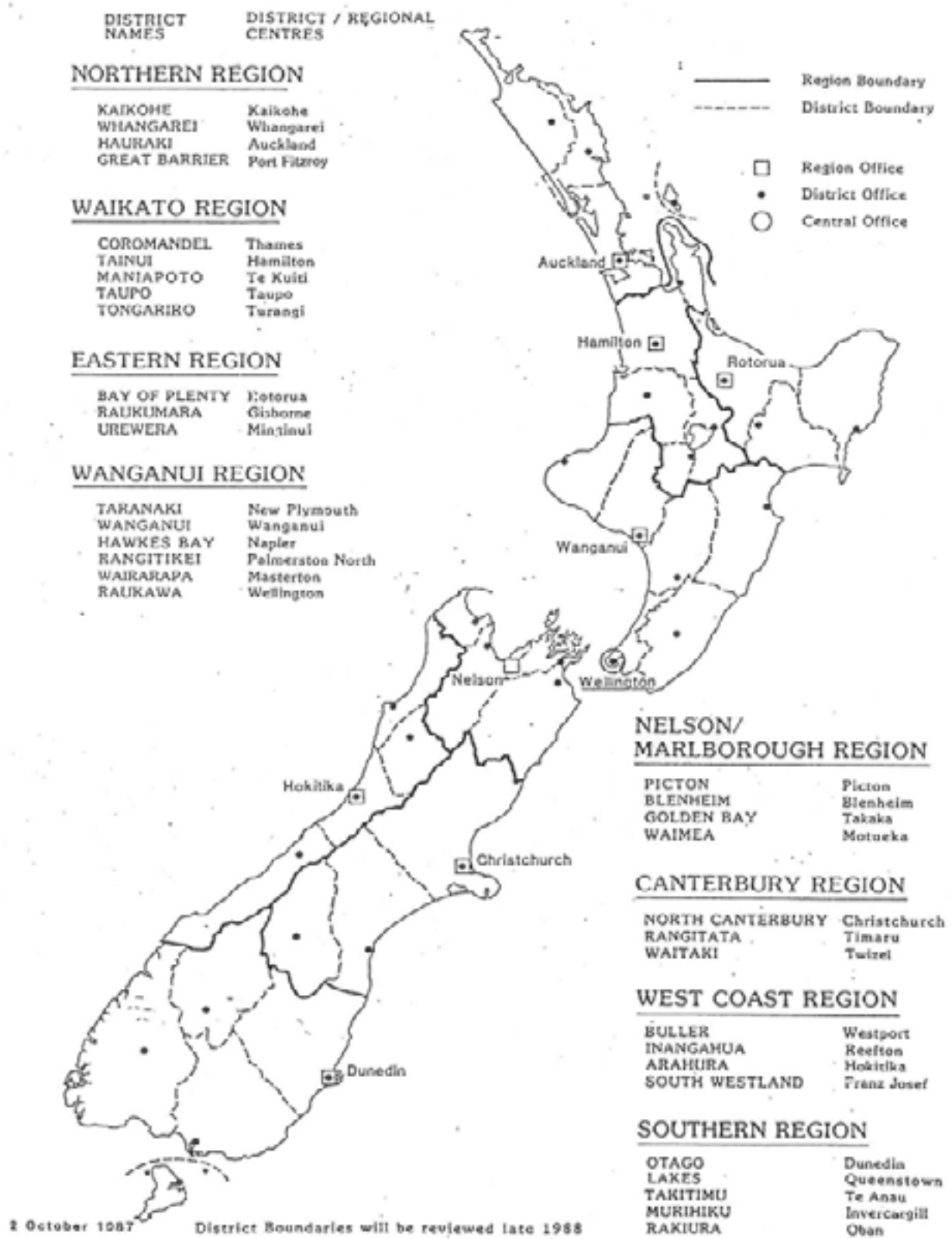
DSIR	Department of Scientific and Industrial Research
DSIR-BOT	DSIR Botany Division
DSIR-ECOL	DSIR Ecology Division
DSIR-MFS	DSIR Marine and Freshwater Sciences Division
*DSIR (MWD-HC)	Hydrology Centre
*DSIR (MWD-SCC)	Soil Conservation Centre
*DSIR (MWD-WQC)	Water Quality Centre
MAF	Ministry of Agriculture and Fisheries
MAF-FF	MAF Freshwater Fisheries Research
MOF	Ministry of Forestry
MOF-FRC	MOF Forest Research Centre, Ilam
MOF-FRC/FAE	MOF-FRC Forest Animal Ecology
MOF-FRC/FGE	MOF-FRC Forest and Grassland Ecology
MOF-FRC/FLI	MOF-FRC Forest Land Use Impact
MOF-FRC/FMP	MOF-FRC Forest Management and Productivity
MOF-FRI	MOF Forest Research Institute
MOF-IFM	MOF Indigenous Forest Management Group (includes Entomology Group)

- \* These agencies were part of the Ministry of Works and Development, but were transferred to DSIR on 1 April 1988. Subsequent restructuring is affecting them, DSIR-MFS and DSIR-SOIL. The abbreviations will eventually be changed to reflect this.

Other External Agencies

Acclim. Soc.	Acclimatisation Society
C.Bds	Catchment Boards
CRM	Centre for Resource Management
DSIR-CHEM	DSIR - Chemistry Division
DSIR-ENT	DSIR -Entomology Division
L. Coll.	Lincoln College
Met Service	Meteorological Service
Met Soc.	Meteorological Society
MFE	Ministry for the Environment
MOE	Ministry of Energy
NZFS Westland	Former NZ Forest Service Westland
PCE	Parliamentary Commission for the Environment
Univ.	Universities
AU	Auckland University
CU	Canterbury University
L. Coll.	Lincoln College
MU	Massey University
OU	Otago University
WU	Waikato University
VU	Victoria University
	A Graham and Associates
	Ms P I Chester
DSIR-SOIL	DSIR – Soil Bureau
MAF TECH North	MAF Tech North
	D Butler Associates Ltd
	Geological Society of NZ

MAP OF DEPARTMENTS, REGIONS AND DISTRICTS as at 12 October 1987



**INDICES**

**SUBJECT INDEX**

This index lists the investigation numbers of science and research managed by S&R and carried out in various subject headings. The headings given are mainly in the subject areas which have many investigations. These headings were identified with the department's corporate objectives and conservation values in mind but do not supercede the main Programme headings and subprogrammes in the register. This index and the register headings are complementary and both can be used when searching for specific subjects.

ARCHAEOLOGY (see Cultural - and Historic Heritage)

CLIMATE CHANGE (see also other subject headings)

2020/208; 3015/277; 307, 447, 469, 3095/086; 9040/207.

COASTAL AND MARINE ENVIRONMENTS (see also Native Plants -Birds, Islands etc)

benthos 3050/363; 366; 5095/076  
 birds 5030/055; 065, 089, 090, 091, 117, 130, 131, 132, 133,  
 134, 140, 141, 169, 204; 5095/152  
 estuaries and lakes 2035/321; 3040/336; 3045/464; 5095/152  
 littoral and sublittoral 3050/367  
 marine farming 3045/361  
 waste management 2030/322; 2035/320; 5095/076

CULTURAL HERITAGE (see also Historic Heritage)

general 8005/234; 8040/235; 8080/029  
 pa mapping and study 8010/221, 223, 224, 225, 226, 230, 231, 238,  
 239, 240, 241, 242  
 Maori plant resources 6020/095; 458: 8080/029  
 Maori settlement, trade and horticulture 8005/243, 244, 245, 246, 247;  
 8010/238; 249

DATABASES, INFORMATION SYSTEMS (see also other subject headings.)

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 fauna 1025/201; 5040/178; 5040/178; 7020/194; 7085/476  
 flora 1020/008, 265  
 general 1020/008, 264; 1025/312

**FORESTS**

beech/nothofagus 3015/274, 275, 276, 277, 471; 5090/120  
 conifer 3015/271, 469; 4070/203  
 fire 3015/275

general or miscellaneous 1020/264; 3010/468; 3015/254, 255, 271, 307,  
 309, 445, 447, 461;  
 introduced animals 3015/270; 282, 284, 451; 5060/077  
 inventory, monitoring or survey 1020/264; 3015/100; 3090/261;  
 3095/086; 4010/079  
 kamihi 3015/272  
 management impacts 5020/156, 300  
 Puketi Forest 5020/135, 136  
 rata 3015/272, 284  
 rimu 4070/202,  
 regeneration, reinvasion, succession 3010/468; 3015/270, 271, 275,  
 277, 461

#### FRESHWATER ECOSYSTEMS AND HABITATS

general or miscellaneous 2020/098, 4070/097, 5050/348, 5065/172  
 geothermal 2062/031  
 lakes 3040/142, 331, 336, 353, 359, 360, 5095/152, 184,  
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 Lake Taupo 5080/160, 6040/354, 7040/189, 7050/183, 185  
 rivers and streams 2025/314, 326, 3040/315, 317, 318, 319, 327, 340,  
 355, 256, 5020/150, 5050/345, 7050/186,  
 8005/247, 8010/238, 239  
 water quality 2025/316, 325; 3040/318, 319, 331  
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GRASSLANDS - see tussock/grasslands

#### HISTORIC HERITAGE (see also Cultural Heritage)

archaeology of historic sites 8010/221, 222, 227, 232, 238, 241, 248,  
 249, 250  
 archaeology service 8005/014, 015, 016, 017, 023, 026; 8010/018, 221,  
 223  
 buildings 8010/250; 9020/236  
 general 8005/233; 8040/235; 8090/465

#### INTRODUCED ANIMALS

##### birds

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 geese 7020/182, 197, 199  
 quail 7020/191, 192, 195  
 waterfowl general 7020/194

##### fish

general 3040/331; 7050/184, 186  
 salmon 7050/335, 343  
 trout 7050/183, 185, 337, 344

##### mammal

deer 5090/452; 286, 287, 288, 289, 295, 450, 474, 475, 483;  
 7085/486  
 goats 4010/101; 7010/292, 304, 478

kiore 5040/112; 7005/071  
 mice 7005/071  
 mustelids, general  
 pigs 7010/301, 485  
 possums 3015/270, 272, 282, 284; 5020/299; 7005/283, 297  
 rats 5020/069, 138; 7005/059, 139  
 thar 7010/291, 477  
 ungulates, general 3015/270; 7010/293, 294  
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 305, 473, 480, 484; 7010/293, 294, 295, 304, 474, 485  
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 Barberry 6040/425  
 Buddleia 6040/308  
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 Lagarosiphon major 6040/354  
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 Auckland Is 5020/165  
 Breaksea Sound islands 7005/059  
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 Chatham Is 3030/031; 8005/234  
 Codfish Is 5020/116  
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 Great Barrier Is 5020/067  
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 Mana Is 3095/088; 4070/094, 096; 5040/115  
 Maud Is 5040/113  
 Motiti Is 8010/226  
 Noises Is 7005/139  
 Ross Is 9020/039  
 Rurima Rocks 7005/111  
 Snares Is 5020/066  
 Stephens Is 5040/113  
 Whale Is 5030/204



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### land

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 kakapo 5020/116, 138, 448  
 kokako 5020/135, 136  
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 wasps 3095/050; 5060/077  
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 3085/251, 454, 463; 3095/099; 4010/079  
 bracken 3020/421  
 broom (NZ) 4010/423  
 coastal 3050/367; 3085/418, 419; 6020/458  
 Dracophyllum sp. 4010/070  
 endangered, threatened 4010/423; 4040/085, 410, 466, 467  
 islands 1030/210; 3030/404, 405, 3085/463; 3095/088; 4010/101;  
 4070/082, 094, 096  
 general and miscellaneous 3015/447; 3040/355, 356; 3085/454;  
 4010/401, 402, 403, 406; 8090/465  
 monitoring (see also biogeographic) 3095/086, 088; 4010/382  
 moraine 3005/420  
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 pests 4010/101, 402  
 pingao 6020/458  
 pohutukawa 4010/423; 4040/410, 470  
 rare 4010/423; 4040/410, 467  
 revegetation, regeneration, rehabilitation 3015/270; 3020/444, 462;  
 4070/082, 094, 096, 097, 202, 203, 456  
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 3020/081, 102, 306, 421, 422, 427, 428, 444, 462;  
 4010/382  
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 419, 454, 463, 472; 3090/261  
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 evaluation 1030/054; 3080/253  
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 6040/308; 7005/297, 480; 8055/083  
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 7005/297  
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angling and fishing 3040/336; 7050/335, 343  
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 Chionochloa 3010/030, 457; 5090/121  
 ecology 3010/268, 269, 468; 3020/306, 422; 5020/119, 120  
 Fescue 3010/262, 486; 7010/487  
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 management 3010/030, 060, 310, 431, 453; 3095/080; 5090/121;  
 6040/429; 7010/487  
 red tussock 3010/468  
 survey, evaluation for PNAP 1020/264; 3010/433; 3020/081; 3085/463

## VENUE INDEX

This index lists the investigation numbers for science and research which is carried out in various regions of the department (see also Figure 1). The specific investigations can then be located in the register using the programme headings and numerical ordering under them. The number in brackets is the total number of investigations being done, not counting those which apply to all regions.

### Northern (35)

3015/254, 3020/102, 3020/427, 3050/363, 4010/260, 4010/470,  
5020/047, 5020/067, 5020/069, 5020/116, 5020/124, 5020/135,  
5020/136, 5030/089, 5030/090, 5030/091, 5030/132, 5040/112,  
5040/114, 5040/163, 5050/345, 5060/176, 5080/151, 095/076,  
7005/139, 7005/283, 7010/292, 8005/015, 8005/016, 8005/026,  
8010/224, 8010/230, 8010/231, 8010/232, 8010/248

### Waikato (51)

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3015/307, 3015/309, 3015/471, 3020/306, 3040/318, 3040/331,  
3040/356, 3040/359, 3095/086, 4010/070, 4010/079, 4010/260,  
4010/470, 5020/057, 5020/150, 5020/168, 5020/298, 5030/091,  
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7050/183, 7050/185, 7050/186, 7050/337, 7050/344, 8010/241,  
8010/242, 8055/084, 8090/209

### Eastern (37)

2055/313, 3015/254, 3015/307, 3015/309, 3015/471, 3020/306,  
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#### Transfer funded agencies

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