

ZSL99

The Zoological Society of London Annual Report



The Zoological Society of London
Registered Charity 208728

Annual Report 1999 Part 2

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The Zoological Society of London

(Registered charity no. 208728)

Patron: Her Majesty The Queen

Principal address Regent's Park, London NW1 4RY

Also at: Whipsnade Wild Animal Park,
Dunstable, Bedfordshire LU6 2LF

ZSL is established by Royal Charter, and governed by By-laws and Regulations. The ruling body is Council. Members of Council, who include the Officers of the Society (the President, the Treasurer and the Secretary), are listed opposite. Council Members (the Trustees) are elected by the membership by postal ballot. Council has the power to co-opt.

Associated Charity:

The Zoological Society of London Development Trust
(reg. no. 293255)

Non-trading holding company:

Zoo Operations Ltd (reg. no. 2226414)

Wholly-owned subsidiary trading companies:

Zoo Enterprises Ltd (reg. no. 1178687)
ZSL (Web of Life) Ltd (reg. no. 3738937)
Zoo Restaurants Ltd (reg. no. 570005)
Whipsnade Wild Animal Park Ltd
(reg. no. 990860)

Bankers: Royal Bank of Scotland,
London Drummonds Branch, 49 Charing Cross,
London SW1A 2DX

Auditors: Ernst & Young,
Becket House, 1 Lambeth Palace Road,
London SE1 7EU

Investment Advisers: Henderson Investors,
3 Finsbury Avenue,
London EC2M 2PA

The objectives of the Society under the Charter are: 'the advancement of zoology by, amongst other things, the conducting of scientific research, the promoting of conservation of biological diversity and the welfare of animals, the care for and breeding of endangered and other species, the fostering of public interest, the improvement and dissemination of zoological knowledge and participation in conservation worldwide.'

Details of the policies and activities of ZSL in furtherance of these objectives are detailed in Part 1 of this Report. There was no change in the objectives or policies during 1999.

The Annual Report was approved by Council on 2 May 2000.

Part 2 edited by Katrine Garn

Honorary Fellows

Date of election

- 1977 HRH The Prince Philip, Duke of Edinburgh,
KG, KT
- 1991 HM The Emperor Akihito of Japan
- 1975 Professor Jean Anthony
*Museum National d'Histoire Naturelle,
55 rue de Buffon, Paris 53, France*
- 1975 Professor Jean Dorst
*Museum National d'Histoire Naturelle
(Mammifères et Oiseaux), 55 rue de Buffon,
Paris 53, France*
- 1984 Professor Ernst Mayr
*Museum of Comparative Zoology, Harvard
University, Cambridge, MA 02138-2902,
USA*
- 1988 Professor Dr Milton Thaigo de Mello
*Instituto de Ciencias Biologicas,
Universidade de Brasilia, Brasilia,
DF70 910, Brazil*
- 1990 Professor Knut Schmidt-Nielsen
*Department of Zoology, Duke University,
Durham, North Carolina 27708-0325, USA*
- 1992 Professor Edward O. Wilson
*Museum of Comparative Zoology, Harvard
University, Cambridge, Massachusetts
02138-2902, USA*
- 1996 Professor John Maynard Smith
*School of Biological Sciences, University of
Sussex, Falmer, Brighton BN1 9QG*
- 1997 The Hon. Miriam Rothschild
Ashton Wold, Peterborough PE8 5LZ
- 1998 Sir David Attenborough
Richmond, Surrey

Council

- 6/7 *President:* Sir Martin Holdgate, CB, MA, PhD,
DSc (h.c.), CBiol, FIBiol
- 7/7 *Treasurer:* Harry Wilkinson, OBE, MA, FCA
- 7/7 *Secretary:* Professor R McNeill Alexander, PhD,
DSc, CBiol, FIBiol, FRS (resigned 31 December
1999)
- 3/4 Sheila Anderson, BSc†
- 7/7 John Barrington-Johnson (co-opted from 1 April
1998) *
- 2/3 Brian Bertram, MA, PhD, CBiol, FIBiol*
- 2/3 Jonathan Boyce, DM, MA, MSc, MRCP, FFPHM*
- 3/3 Michael Brambell, MA, VetMB, PhD, DVSc,
MRCVS†
- 2/2 Professor Bryan Clarke, DPhil, FRS, *Vice
President* (resigned April 1999)
- 0/0 Peter Davies (Member designate resigned 16 June
1999)
- 4/4 John Edwards, MA, FLS†
- 6/7 Roger Ewbank, OBE, MVSc, MRCVS, FIBiol
- 3/3 Tony Fincham, BSc, PhD*
- 4/7 Professor Mike Hassell, DSc, FRS
- 5/7 Martin Jiggins, FRICS, FSVA, FRSA
- 6/7 Nancy Lane, OBE, DPhil, ScD, CBiol, FIBiol,
Vice President
- 1/3 Ken Livingstone MP*
- 1/4 Christopher Marler†
- 5/7 Sophie McCormick, MA, PhD, CBiol, FIBiol
- 0/1 Derrick Moore, FCA (resigned 18 February 1999)
- 0/1 Professor Paul Racey, MA, PhD, DSc, FRSE,
CBiol, FIBiol (co-opted 2 November 1999)
- 3/3 Professor Jeremy Rayner, BA, MA, PhD (co-opted
8 June 1999)
- 1/1 Neville Reyner, BSc, MBA, CEng, FIEE, FIMgt
(co-opted 2 November 1999)
- 6/7 Martin Rowson, MA
- 7/7 Ken Sims, *Vice President*
- 7/7 Ted Smith, BSc, CBiol, FIBiol
- 2/3 Peter Stevens, BSc, MIBiol*
- 6/7 Jane Thornback, MSc
- 4/6 Professor Roger Wheeler, OBE, CBiol, FIBiol,
FRSA, FRSGS, FRZSS, FRSE† (co-opted 28
September 1999)
- 6/7 Robert Wingate

Attendance: actual/potential

† To 8 June 1999

* From 8 June 1999

Committees & Boards 1999

Committees & Boards of Council

Finance & General Purposes Committee

Terms of Reference: To monitor the financial management of the Society and act as an audit committee; and to preview and prepare papers for Council requiring policy or capital investment decisions.

Sir Martin Holdgate, CB, MA, PhD, CBiol, FIBiol, FRSA, FRGS, *Chairman*
Professor R. McNeill Alexander, PhD, DSc, CBiol, FIBiol, FRS
Nancy Lane, OBE, DPhil, ScD, CBiol, FIBiol
Martin Rowson, MA
Ken Sims
Harry Wilkinson, OBE, MA, FCA

Conservation & Science Advisory Committee

Terms of Reference: To provide strategic vision, objectives and advice to Council and ZSL staff on conservation and science issues and activities; to monitor all the conservation and science activities of the Society, ensuring that they are implemented to the highest professional standards.

Professor Paul Racey, MA, PhD, DSc, FRSE, CBiol, FIBiol, *Chairman*
Professor R. McNeill Alexander, PhD, DSc, CBiol, FIBiol, FRS
David Chivers, PhD
Lee Durrell, PhD
Tony Fincham, BSc, PhD
Bryan Grenfell, PhD
Robin Pellew, PhD
Professor Ian Swingland, PhD, DSc, CBiol, FIBiol, FRSA, FRGS
Jane Thornback, MSc

Education & Information Advisory Committee

Terms of Reference: To provide strategic vision, objectives and advice to Council and ZSL staff on education issues and projects; to monitor the education and information activities of the Society, ensuring that they are implemented to the highest professional standards.

Sophie McCormick, PhD, *Chairman*
Geraldine Baker, BSc
John Barker
Steve Flowerday, MSc
Kate Harris, BA
Roger James
Professor Jeremy Rayner

Animal Welfare Committee

Terms of Reference: To advise Council on matters relating to animal welfare in the Collections, at both London Zoo and Whipsnade Wild Animal Park, at the Institute of Zoology and in the work of Field Conservation & Consultancy.

Professor Patrick Bateson, PhD, ScD, FRS, *Chairman*
Tony Sainsbury, BVetMed, CertLAS, CertZooMed, MRCVS, *Secretary*
Brian Bertram
Lynda Birke, MPhil, DPhil
Andrew Higgins, BVetMed, MSc, PhD, CBiol, FIBiol, MRCVS
Arthur Lindley, MA, DPhil
Georgia Mason, PhD
David Pritchard, BVetMed, BSc, MPH, MRCVS
Christopher Sherwin, BSc, PhD
Robert Wingate

Ethics Committee

Terms of Reference: To advise the Director of Science on welfare and ethical aspects of all scientific studies involving interventions with animals carried out by ZSL staff, or by other workers on ZSL premises or on ZSL animals.

Edmund Flach, MA VetMB, *Chairman*
Carol Williams, BTEC, HNC, *Secretary*
Alison Moore, PhD, *Home Office Liaison*
Alexandra Dixon, BA, MSc
Andrew Higgins, BVetMed, MSc, PhD, CBiol, FIBiol, MRCVS
Roger Ewbank, MVSc, CBiol, FIBiol, MRCVS, OBE
Simon Tonge, BSc
Ex officio:
Director of Science
Juliet Clutton-Brock, PhD, DSc
Georgina Mace, OBE, DPhil

Awards Committee

Terms of Reference: Council presents the following awards for contributions to zoology: The Prince Philip Prize, Thomas Henry Huxley Award, Stamford Raffles Award, Silver Medal, Scientific Medal, ZSL Frink Medal for British Zoologists and ZSL Marsh Award for Conservation Biology. The Committee advises Council on all matters relating to these awards.

Professor Mike Hassell, DPhil, DSc, FRS, *Chairman*
Geraldine Baker, BSc
Professor Geoff Boxshall, PhD, FRS
Professor Malcolm Burrows, ScD, FRS
Professor Pat Butler, PhD, CBiol, FIBiol
Professor Tom Cavalier-Smith, PhD, FRS
Professor Sir Brian Follett, PhD, ScD, FRS
Dr Bryan Grenfell, DPhil
Professor Paul Harvey, DPhil, DSc, FRS
Professor Sir John Krebs, FRS
Professor John Shepherd, PhD, FRS
Professor William Sutherland, PhD

Institute of Zoology Committee

Terms of Reference: To advise the Society and the University of London under the terms of the Agreement between them; to consider and make recommendations on all matters relating to the Institute of Zoology.

Professor Lance Lanyon, BVSc, PhD, DSc, MRCVS,
Chairman

Professor Clive Catchpole, PhD

Professor Alan Hildrew, PhD

Professor Colin Howard, PhD, DSc, MRCPATH, CBiol,
FIBiol

Professor Linda Partridge, DPhil, FRSE

Robin Pellew, PhD

Ex officio:

University of London

Vice-chancellor

Principal

Chairman of Convocation

Zoological Society of London:

President

Secretary

Treasurer

Director of Science

London Zoo Board

Terms of Reference: To provide specialist advice on the objectives of London Zoo and on specific aspects of its management; to approve the annual business and financial plan and recommend it to Council; to approve any in-year variances to the plan; to review and approve any capital developments.

Ken Sims, *Chairman*

Michael Daubney

Stephen Harrison

Martin Jiggins, FRICS, FSVA, FRSA

Peter Stevens, BSc, MIBiol

Jonathan Swire

Director General

Director, London Zoo: Jo Gipps, OBE, PhD

Director of Personnel: Ian Meyrick, BA, FIPD

Director of Finance: Norman Reed, BSc, FCA

Whipsnade Wild Animal Park

Terms of Reference: To provide specialist advice on the objectives of Whipsnade Wild Animal Park and on specific aspects of its management; to approve the annual business and financial plan and recommend it to Council; to approve any proposed in-year variances to the plan; to review and approve any capital developments.

Professor Roger Wheater, OBE, CBiol, FIBiol, FRSGS,
FRSA, FRSE, *Chairman*

Simon Bearder

Ken Lewis

Sir David Madel, MP

Neville Reynier, BSc, MBA, CEng FIEE, FIMgt

Director General

Director, Whipsnade Wild Animal Park: Stuart Earley,

MInstD, MInstM, FInstSMM

Director of Personnel: Ian Meyrick, BA, FIPD

Director of Finance: Norman Reed, BSc, FCA

Advisory/Editorial Boards for ZSL Publications

Animal Conservation

Editors: Michael W Bruford, PhD

John L Gittleman, DPhil

Georgina M Mace, OBE, DPhil

Robert K Wayne, PhD

Book Review Editor: Peter Cotgreave, DPhil

Advisory Board: Professor Jared Diamond, PhD

Professor Stuart Pimm, PhD

Professor Stephen Stearns, PhD

Animal Conservation also has an Editorial Board

International Zoo Yearbook

Editors: Peter Olney, BSc, DipEd, CBiol, FIBiol, FLS

Fiona Fiskien, BSc

Assistant Editor: Helen F Stanley

Editorial Board: Jeremy Mallinson, OBE, CBiol, FIBiol,

FRGS, *Chairman*

Marcia Edwards, PhD, FLS

Nick Jackson

Professor Janet Kear, OBE, PhD

John Knowles, OBE

Georgina Mace, OBE, DPhil

Professor Roger Wheater, OBE, CBiol,

FIBiol, FRSGS, FRSA, FRSE

Journal of Zoology

Managing Editor: Dr Juliet Clutton-Brock, PhD, DSc

Editors: Professor Ian Boyd, PhD, DSc

Professor Tim Halliday, MA, DPhil

Professor Philip Rainbow, PhD, DSc

Editor of short communications: Dr Martin L Gorman, PhD

Journal of Zoology also has an Editorial Board

Library Advisory Group

Peter Olney, BSc, DipEd, CBiol, FIBiol, FLS, *Chairman*

Professor R. McNeill Alexander, PhD, DSc, CBiol,

FIBiol, FRS

John Edwards, MA, FLS

Beryl Leigh, PhD

Joan Thorne

Amanda Pickard, PhD

Staff

As at 31 December 1999

Directors

Director General: Vacant

Acting Director of Science: William V. Holt, PhD

Director, London Zoo: Jo Gipps, OBE, PhD

Director, Whipsnade Wild Animal Park: Stuart Earley, MInstD, MInstM, FInstSMM

Director, Field Conservation & Consultancy: Alexandra Dixon, BA, MSc

Director of Finance: Norman Reed, BSc, FCA

Director of Personnel: Ian Meyrick, BA, FIPD

Central Functions

Secretary/PA to Director General: Vacant

Personnel

Director of Personnel: Ian Meyrick, BA, FIPD

Senior Personnel Officer: Marcia Latty, GradIPD

Personnel Administrator: Debbie Wade

Pensions Administrator: Peter Carey (p/t)

Health and Safety

Security & Safety Manager: Brian Nutkins

Secretary: Brenda Tonks

Consulting Medical Referee: Kenneth Lewis, MA, BM, BCh

First Aid Attendant: Grace Reay

Weekend First Aid Attendant: Yilshane Ali

Switchboard/Reception

Receptionists: Marcia Clarke; David Hitchcock (p/t);

Joanne Kent (p/t); Gwen Manning (p/t); Claire

McMonagle-Nishinaka (p/t); Veronica Powell

Finance

Director of Finance: Norman Reed, BSc, FCA

Secretary: Susan Morgan

Financial Controller: Keith Hayward, FCCA

Financial Accountant: Joan Jupp

Management Accountant: Charles Biggie

Project Accountant: Martin Dowling, BSc

Cash Book Keeper: Gill Lewin (p/t)

Chief Cashier: Dave Lack

Cashiers: Les Oxley; Joe Piggott; Alison Coutts

Payments Supervisor: Lynette Archer-Morgan

Wages clerk: Vacant

Fellowship Office

Fellowship Services Manager: Marion Hoyland

Fundraising

Fundraising Consultant: Peter Emery (p/t)

Information Technology

IT Manager: Rob Jinman

IT Support Assistants: Sean McBirnie; Matthew Longley

Library

Librarian: Ann Sylph, BSc, MSc, MIIInfSc

Assistant Librarian: Michael Palmer, BA, MA

Library Assistant: Anna Marie Monaghan; Jenny Makeham

Press & PR Office

Senior Public Relations Officer: Debbie Curtis, BSc

Assistant Public Relations Officer: Joe Laing BA

Publications

ZSL Scientific Books (International Zoo Yearbook, Conservation Biology and Symposia series, Science for Conservation)

Editors: Peter Olney, BSc, DipEd, CBiol, FIBiol, FLS; Fiona Fiskien, BSc

Assistant Editor: Helen Stanley, PhD, BSc

Sales Administrator: Mychael Barratt (p/t)

Animal Conservation, Journal of Zoology, Symposia, Nomenclator Zoologicus, Zoological Record

Managing Editor (Journal of Zoology): Juliet Clutton-Brock, PhD, DSc

Honorary Editor, Zoological Record & Nomenclator Zoologicus: Marcia Edwards, PhD, FLS

Assistant Editor: Linda DaVolls, BA

Editorial Assistant: Patricia Manly

Institute of Zoology

Acting Director: William V. Holt, PhD

Institute Administrator: Christina Herterich, ACIS

Conservation Genetics: Vacant

Ecology: Richard Pettifor, PhD

Reproductive Biology: William V. Holt, PhD

Veterinary Science: Anthony W. Sainsbury, BVetMed, CertLAS, CertZooMed, MRCVS

Administrative and Support Staff

Assistant Institute Administrator: Phillip G. Cottingham, BTec (CED), MIScT

PA to Director of Science: Joanne Keogh

Administrative Assistant: Katrine Garn, MSc

Secretaries: Anna-Marie Cummins; Catherine Kerr, BA

Honorary Research Fellows

Sarah Cleaveland, VetMB, PhD; Peter Daszak, PhD;

George H. DuBoulay, CBE, MB, BSM, FRCP, DMRD;

Julie Garnier, DVM; Heather Hall, PhD; Peter Kertesz,

BDS, LDS; Professor James K. Kirkwood, BVSc, PhD,

MRCVS; Mark O'Connell, PhD; Amanda Vincent, PhD;

Professor Paul F. Watson, BSc, PhD, BVetMed, DSc,

MRCVS; Stuart Williams, PhD; Bruce Winney, PhD

Postdoctoral Staff and Veterinary Officers

Peter Armbruster, PhD; Michelle Bayes, PhD; Peter M.

Bennett, PhD; Andrew F. Bourke, PhD; Kate Byrne, PhD;

Christopher Carbone, DPhil; Claudio Ciofi, PhD;

Timothy Coulson, PhD; Guy Cowlshaw, PhD; Andrew

A. Cunningham, BVMS, MRCVS; Sarah M. Durant,

PhD; Alireza Fazeli, PhD; Edmund Flach, MA, VetMB,

MSc, MRCVS; Louisa Jenkin, PhD; Paul Jepson, BVMS,

MRCVS; William Jordan, PhD; Georgina M. Mace, OBE,

DPhil; Alison Moore, PhD; Amanda Pickard, PhD;

Marcus Rowcliffe, PhD; Stuart Semple, PhD; Susan M.

Thornton, BSc, BVetMed, MRCVS

Technicians and Support Staff

Chief Technician: David Cheesman, BTec, HNC

Chief Technician (Animals): Carol Williams, BTEC, HNC

Senior Technicians: Dada Gotelli, BSc; Daphne I. Green, HNC, AIScT

Senior Technician (Animals): Andrew G. Hartley, BAgricSc

Animal Technicians: Mandy Gordon, IIAT; Jake Rozowski

Senior Workshop Technician: Selwyn Mundy

Senior Photographic Technician: Terry R. Dennett, MinstPI

Technicians: Tracy Howard, BSc; Miranda Kadwell, BSc; Shaheed Macgregor, HTec, MSc; Elisabeth Thornton, BSc

General Laboratory Assistant: Breda Farrell

Research Assistants: Rob Deaville, BSc; Robert Hutchinson, MSc

Senior Veterinary Nurse: Gillian Ahearne VN

Veterinary Nurses: Gillian Bell, BSc, VN; Christine Dean, VN; Joanne Dodds, VN

Postgraduate Research Students

Johnathan Baillie, MES; Daisy Balogh, MRes; Jacob Bro-Jorgensen, MSc; Angus Carpenter, MSc; Rosella Chapman MSc; Dave Cope, BSc; Juliet Dukes, MSc; Jim Groombridge, BSc; Katherine Little, MRes; Tom Maddox, BSc; Sam Mendelson, MRes; Sue O'Brien, MPhil; Susy Paisley, BSc; Octavio Paulo, BSc; Russell Seymour, MSc; Lisa Thurston, BSc; Saffron Townsend BSc

Field Conservation & Consultancy

Director: Alexandra Dixon, BA, MSc

Secretary/PA to Director: Jane Loveless

Project Manager: Claire Belsham, BSc

YR2000/Project Seahorse Administrator: Alice Courage

Overseas Staff

Adam Britt, PhD; Jacques Flamand, BSc, BA, VetMB, MRCVS; John Grainger, PhD; Suresh Job; Richard Kock, BA, VetMB, MRCVS; Jessica Meeuwig; Kathryn Monk, PhD; Saeed Mubarak, VetMB; Iyad Nader, PhD; Zelealem Ashenafi Tefera, MSc; Tim Wachter, PhD; Bruce Winney, PhD

London Zoo

Director: Jo Gipps, PhD

Secretary/PA to Director: Barbara Salmon, BA

Animal Management

Senior Curator: Simon Tonge, BSc

Secretary: Joanne Kingston

Conservation Programmes Co-ordinator: Sarah Christie, BSc

Registrar: Elspeth Chaplin

Zoo Manager: Bill James

Curator of Mammals: Vacant

Curator of Invertebrates: Paul Pearce-Kelly

Curator of Lower Vertebrates: Heather Hall, PhD

Head Keepers: Gerald Asher; Mick Carman; Ray Charter; Dave Clarke; Brian Harman; Paul Harrington; Fred Smith; Linda Walker; Esther Wenman, BA; Frank Wheeler; Brian Zimmerman, BA

Senior Keepers: Alan Alder; Vanessa Asher; Nichola Burnett, BSc; Mike Clark; Matthew Fagg; Amanda Ferguson, BSc; Malcolm Fitzpatrick; Matthew Hennessy; Andy James; Patsy Joseph; Paul Kybett; Margaret Lamb; Tracey Lee; Keith Lloyd; Andrea McKenna; Simon Mannall; Terry March; Duncan McGinnie; Jeff Nicklin; Jacqueline Ossowski, BSc; John Pullen; Dave Robinson; Jim Robson; Mike Tiley; Caroline Waddell, BSc; Chris Wickenden; Sarah Young; Steve Young

Qualified Keepers: Paul Atkin; Margaret Baukham; Tony Cholerton; Rachel Jones, MSc; Karen Nolan, BSc; Lawrence Raybone; Scott Sturgeon; Luciana Wagner; Craig Walker; Steve Whitelock

Trainee Keepers: Nigel Court, BA; Mark Habben, BSc; Anna Humberstone, BSc; Lyndsey Marsh, BSc; Nicola McKay; Newton Pellatt, BSc; Jo Pratt, BSc; Jenny Sprent, BSc; George Sunter, BSc; Marie Whatmaugh, BSc

Marketing & Public Relations

Head of Marketing & Public Relations: Sharon Ament, MA, DipCIM

Secretary: Becky Ann Chick

Group & Conference Sales Executive: Terry Lester

Promotions Executive: Jill Ratcliffe, BSc

Lifewatch & Adoptions Administrators: Sarah Leggett; Jason Diplock

Marketing Administrator: Katherine Duffin

Lifewatch Adoptions: Claire Reader

Visitor Information & Education

Head of Visitor Information & Education: Claire Robinson, BED

Secretary: Joanne Cooper, BA

Education Officers: Tracy Dalton, BSc; Anna Keen, MSc

Volunteer Co-ordinator: Natalie Pain, BA, PGDip

School Visits Co-ordinator: Rebecca Westerland, LLB

Interpretation Officer: Clare Kelly, BSc

Graphics Co-ordinator/Print & Stationery Buyer: Adrian Taylor

Site & Services

Site & Services Manager: Graham Roden

Secretary: Dot Price

Maintenance Supervisor: Colin Rolfe

Contracts Supervisor: John Fitzgerald

Supplies Buyer: Chris Major

Electrical Foreman: Robin Fitzgerald

Electrician/AV: Peter Smith

Trainee Electrician: Garry West

Carpenters: Stan Bonsey; Lee Risdale

Semi-skilled Craftsmen: Jim Baker; John Pearce

Painters: Paul Anscombe (p/t); Bill Manly; Terry Sheehan (p/t)

Plumbers: Martin Foster; Steven Roberts

Wireworker: Tony Connolly

Trainee Wireworker: Dave Field

Fitter: John Froud

Head Gardener: Martin Pett, MIHort

Gardens Foreman: Noel Heaphy

Gardeners: Ian Ament; Rodney Lynch; George Manly; Jacqueline Smith; Graham Southard
Animal Food Stores Chargehand: Bob Ashmore
Maintenance Storeman: Alex James *Butcher/Driver:* Ron Harrison

Grounds and Transport Supervisor: Peter Walker-Croft
Grounds and Transport Foreman: Jamie Turner
Groundstaff: Beatrice Ampong; Graham Bukovics; Sharon Crawford; Colin George; Gerry Houlder; Colin Jeans; Renuka Lutchman; Alice Sarpong; Anna Thornburrow; Odit Tiwari
Security Gatekeepers: Melvin Brockwell; Paul Brown; George Scofield

Visitor Services

Head of Visitor Services: Yvonne Ubels
Assistant Retail Manager: Jayne Powell
Office Administrator: Elizabeth Allard
Supervisors: Suzanne Cole; Gary Constantine; Bob McLaughlin; Evon Nicholas; Chivanan Ramdass
Warehouse Supervisor: Neil Foot
Visitor Services Assistants: Mo Berichiek (p/t); Margaret Brown; Patricia Delius; Fozan Mirza; Patience Djima; Mandy Jones (p/t); Bala Patel (p/t); Anne Powell; Christopher Powell

Events Manager

Events Manager: Roger Tomlinson
Senior Presenter: Andy Hallsworth
Presenters: Mark Dalton; Rob Goodchild; Anna Russell

Whipsnade Wild Animal Park

Director: Stuart Earley, FInstD, MInstM, FInstSMM
Secretary/PA to Director: Gill Farrell

Finance and Information Technology

Financial Controller: Roman Bodnarec, MIDM
Senior Accounts Clerk: Carol Davies
Assistant Accounts Clerk: Faye Kirby
Senior Cashier: Joan Lee
Accounts/Cashier's Assistants: Sylvia Black; Janet Hughes
Stores: Tony Latham

Operations

Operations Manager: Linda Hughes, GradIPD
Operations Assistant: Jo Woodhead
Volunteer Co-ordinator/Outreach: Graham Lucas
Railway Manager: Ian Gordon
Supervisor, Railway: Tony Button
Railwayman: Mick Dickens
Park Services Co-ordinator: Mick Shillingford
Supervisors, Park Services: John Bradley
Groundsmen: Bernard Hawkins; David Hawkins
Gardens Chargehand: Rob Scanlan
Gardener: Paul Paterson
Craftsmen: Jim Harrold; Dave Law; Shaun Smith; Mick Stoughton; Jim Whinnett
Trainee: Rob Harris

Retail and Main Gate

Retail & Gate Manager: Maureen White
Assistant Retail/Gate Supervisors: Yasmin Bates; Tessa Roch

Catering

Banqueting Manager: David Barker
Deputy Managers: Zoe Fitzpatrick; Simon Kemp
Assistant Managers: Amanda Feenan; Jackie Horswell

Marketing & Development

Marketing & Development Manager: Miranda Kennett-Scott, BA, MSc, MDip, MCIM
Senior Customer Services Assistant: Margaret Hull
Graphics Executive: Simon Hodge, BSc
PR Executive: Jane Reeve, BSc
Membership Executive: Paula Stoughton
Membership Assistant: Julie Heard (p/t)
Customer Services/Marketing Assistant: Emma Cook
Customer Services Assistant: Jan Harwood

Education

Education Officer: Claire Bidder, BSc

Animal Management

Curator: Nick Lindsay, BSc, CBiol, MIBiol
Assistant to Curator: Dena Richards
Regional Co-ordinators: Rob Hutton; Andy White
Animal Activities Co-ordinator: Les Radford
Deputy Co-ordinators: Clive Bates; Cliff Tack
Bird Show Organiser/Demonstrator: Andy Reeve
Senior Keeper in charge of Elephants: Lee Sambrook
Senior Keepers: John Baines; Mark Best; Mark Brett; Roger Catchpole; Carole Day; Joy Lear; Melvin Lear; Alan Morris; Trevor Moxey; Frank Smith; Marilyn Spittel; Ken Taylor; Pete Williams
Qualified Keepers: Rebecca Cooper; Phil Curzon; Donovan Glynn; Sarah Gollop; Jim Gregory, BSc; Mark Holden, BSc; Sian Lamb; Rebecca Raymond; Cheryl Seymour; Sarah Taylor, BSc; Corina Thorne Veronica Watkins; Craig White
Trainee Keepers: Mike Hayward; Deane Kingham; Steve Patrick

Obituaries

We record with regret the deaths in 1999 of:

Anthony K Fitzgerald (Senior Veterinary Nurse)
John (Jack) Richards (Visitors Services)

and the following pensioners:

Mrs E M Clouston; Mrs E De Marco; Mr W Dixon;
Mr G Figgett; Mr P Gabriel; Mr E F Swain;
Mr A T Tilbury

Volunteers

As at 31 December 1999

Administration

Jill Beck; Dorothy Gingell; Maureen Hart

Animal Management

Andie Bennyworth; Gary Bennyworth; Amanda Brown; Andy Brown; Sam Cordwell; Amanda Currie; Ailsa Farquhurst; Jenny Fulford; David Gibson; Glyn Hennessey; Derry Hutchcroft; Lucy Manning; Jacky Newman; Sarah Norris; Russell Pethurst; Tanya Ryan; Roger Stanley

Education

Laurie Allen; Raj Amin; Hazel Amor; Arfan Aziz; Peter Arnold; Pam Beanlands; Jill Beck; Shirley Biggs; Denise Blackwell; Sally Brough; Joan Browett; Simon Brown; Lilah Cameron; Debbie Catt; Lai Chug Choy; Steph Claxton; John Clifford; Sid Cocks; Andrew Colman; Mary Colwill; Daphne Cross; Tracey Cullen; Geof Cutting; Ann Curtis; Gladys Davies; Phil Davies; Sian De Sousa

Mary De Zouche; Felix Fifer; George Fitt; Ann-Katrine Garn; Janet Gates; Celia Gaya; Trish Gibson; Angela Gilham; Valery Golding; Nevil Gorthy; Dot Gyngell; Daphne Hamilton; Maureen Hart; Ron Hart; Katherine Hartmann; Margaret Hinkley; James Holden; Susan Hyde; Gina James; Janice James; Miranda Jenkins; Jenny Jennings; Janina Jezierski; Katharine Jezierski; Iris Johnson; Edward Jones

Bev Jordan; Fiona Kiel; Noreeko Kimuro; Robert Langstone; Joyce Hunter Lieberman; Natasha Lewis; Joyce Lockyear; Neale Lunn; Tracy M; Veronica McDougal; Gary McGuire; Rhonda Maclean; Alan Madge; Hilary Marsh; Marina Marshal; Beryl May; Paula Maycock; Anna Mentzel; Carol Mintey; HA Moore; Jackie Mutton; Mark Navin; Anne O'Brien; Prafulla Patel; Rosalind Pike; Pamela Portefield

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The Society warmly thanks all the volunteers who have done so much to help its work in 1999.

If you are interested in becoming a volunteer, please ask the Volunteer Co-ordinators at London Zoo or Whipsnade Wild Animal Park for further details.

Collaboration with zoological, conservation, research and other organizations

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BirdLife International

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 Sumatran Tiger Project (Indonesia)
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World Zoo Organisation: Jo Gipps (Member)

Zoo Forum: Heather Hall (Member)

Zoo Outreach Organization, India: The Zoological Society of London (Corporate member).

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Animal Collection Report

1999 was dominated by one major project: the construction and opening of the *Web of Life* Exhibition, constructed on the old Bird House yard site in the south east corner of the Zoo. The closing months of 1998 and the period until the formal opening of the building by Her Majesty The Queen, on the 3rd June, dominated the working day of many department staff, in particular the Curators of Invertebrates, Paul Pearce-Kelly, and Lower Vertebrates, Heather Hall, and the Head Keeper of the new building, Dave Clarke. The purpose, function and story behind the new building are told elsewhere within

this report. What may not be told elsewhere is the sheer effort and organisational ability required, not just to design and construct the new facility but also to transfer the entire invertebrate collection from one side of the Zoo to the other. Blending together a new team of Keepers, put together from all the animal sections in the Zoo, including the old Invertebrate Section, whilst teaching them new husbandry skills for unfamiliar and difficult species, such as giant anteaters, hummingbirds and in particular aquatic invertebrates and fishes, added to the challenge. All the interior decoration within aquaria and vivaria were prepared by animal keeping staff, and the performance of Aquarium staff, in particular, Duncan McGinnie in the setting up of the aquaria should be noted.

Now that the building has been up and running for a year and most of the snagging problems have been solved, we realise that we have an incredibly useful facility, not only for exhibiting animals and telling stories about them, and biodiversity issues in general, but the large number of support breeding rooms give us flexibility to manage conservation programmes in great depth and in some numbers. The conservation potential of this building is really very great and we look forward to being able to increase our output over the years to come.

With regard to stocking the new building, all the best exhibits from the old Invertebrate house were re-created in some form. In addition to the well established breeding colonies of *Partula* snails, English field crickets and wart-biter crickets, the colonies of Fregate Island invertebrates were expanded and have proved very successful in the *Web*. Additionally, after 5 long years of negotiation we were permitted to import Poor Knights giant weta crickets direct from New Zealand. These are one of the largest and rarest orthopterans in the world. They are an island giant form of weta cricket, restricted as their name suggests, to the Poor Knights Islands. These are the only live specimens to be exported from New Zealand and although initial mortality was high, by the end of the year, 7 males and 2 females had attained adulthood and it was very much hoped that breeding would occur early in 2000.

Another species of particular note that was transferred to the *Web of Life* paddock was the male giant anteater. 'Bonito' was later joined by a female, 'Sauna', from Santa Barbara Zoo in California. She is a particularly important animal because she is unrelated to all other giant anteaters in Europe. Both animals settled well in their new home and once again, it was planned to allow them access to each other early in 2000.

At Whipsnade, the main development during the year was the reconstruction of the penguin enclosure on the edge of the downs. Deliberately chosen as being the coldest spot at Whipsnade, the new facility contains 2 pools, the original one plus a wider and deeper new one. A gratifying increase in activity levels and swimming behaviour by all 3 species held within it was noted and by the year end the first hatchings, predictably of Humboldt penguins, have occurred in the new facility.

With all the effort at *Web of Life*, comparatively little other animal related construction occurred at Regent's Park. In the Aquarium, the off-exhibit breeding room in the Tropical Freshwater Hall was entirely renovated and a viewing window was constructed, so that visitors could view the endangered species breeding work involving Mexican goodeids, Lake Victoria cichlids and other threatened taxa. After some intensive husbandry work by staff and students, much success was achieved breeding the vulnerable Knysna seahorse from South Africa.

The grade I listed Round House was completely renovated and the Zoo received a pair of aye-ayes on breeding loan from the Durrell Wildlife Conservation Trust. These are the first aye-ayes held at the Zoo since 1932 and Regent's Park is only the sixth zoo in the world currently to hold this extraordinary and charismatic species. The pair of animals had never bred in Jersey and it was hoped that a change of environment might stimulate an ovarian cycle in the female. The pair have settled very well and have proved to be an excellent exhibit, provided that visitors give themselves time for their eyes to adjust to the nocturnal conditions in the building.

At year end, construction was finally completed on the external area of the Round House, with the intention that a pair of red ruffed lemurs would be moved across from the Sobells.

At Whipsnade, the Conservation Room in the Discovery Centre, which had been opened late in 1998, proved its worth and tortoises, amphibians and several threatened invertebrates reproduced during the year, plus the facility allowed complementary holdings of other taxa, worked with more intensively at Regent's Park, such as Knysna seahorses and Lake Victoria cichlids.

Because of the concentration on *Web of Life*, the amount of time available for staff to organise and implement animal moves was less than in previous years. However, Whipsnade did achieve the 'big three' of an adult male hippo to join the remarkable group at Emmen Zoo in Holland; a 17 foot tall male reticulated giraffe to Beauval Zoo in France and a female white rhinoceros to Borås Zoo in Sweden. All these moves were organised through EAZA Taxon Advisory Group or the European Breeding Programme (EEP).

London couldn't manage the 'tonnage' that Whipsnade achieved but two new antelope species were restored to the collection after a few years absence. Three bongo of the highly endangered Kenyan sub-species were received from Marwell Zoo. At the year end, the adult female was pregnant.

Also from Marwell and Chester Zoos came a group of five male Arabian gazelles. There is still some controversy about the taxonomy of this particular form, but then gazelle systematics is not an area for the faint-hearted. Whatever the true identity of this gazelle taxon, the fact is that it is the only one established in UK collections. As is usual with many antelopes there is a need for collections to hold single sex groups because the natural herd structure consists of one male and multiple females. The

gazelles have been placed in the giraffe paddock and co-exist with giraffes and meerkats without difficulty.

An adult female okapi, 'Elila' arrived from Marwell Zoo. She was born in 1997 and hand-reared, so it remains to be seen how she will shape up as a breeding animal, but her initial reaction to the two males has been quite encouraging.

Two pudu were imported from Wuppertal Zoo in Germany following a long period of negotiation with MAFF. After quarantine on the Cotton Terraces, one male was sent to Banham Zoo and the other has been retained. He has already been seen mating with the female, so hopes are high for a birth in the New Year.

Two giraffe calves were born at Regent's Park. One did not survive and the other was reared successfully but one ear had to be amputated when his mother started to overgroom him and an infection set in. He looks a bit odd but he is otherwise healthy! Roan antelope, Nile Lechwe and Przewalski's horses all bred at Whipsnade, but the outstanding birth was to 'Nowana', a 21 year old white rhino female who gave birth to her first offspring. She was herself born in the park, so the calf is half second generation captive bred. Also at Whipsnade the newly established pair of Amur tigers bred for the first time. Both parents behaved exceptionally well and two offspring, a male and a female, were reared without difficulty. Continuing the big cat theme, once again, 'Ruchi' the female Asiatic lion in London gave birth to two female cubs and reared them perfectly. It is likely that we will be asked by the EEP programme to scale down production of offspring from her because there is a danger that her genes will become over-represented in the still relatively small captive population.

Another notable breeding was a 'world first' striped possum at Regent's Park. Common dormice bred abundantly at both collections with several animals being sent on to reintroduction schemes elsewhere in the UK.

1999 was a bumper year for short-clawed otters at Regent's Park, where eight were born in two litters. Unfortunately just at the year end, the adult breeding female died. Until she is replaced no more breeding will occur. This is probably just as well as it will not prove easy to place all those offspring very quickly.

Probably the outstanding breeding in the bird collection were the seven Caribbean flamingos reared at Whipsnade; 5 Stanley cranes were hatched also, the best annual performance to date. Whipsnade hatched a red-billed hornbill for the first time and Regent's Park achieved the first UK hatching of the purple-tailed imperial pigeon. Another chick was cross-fostered under a pair of green-imperial pigeons and reared successfully by them. Unfortunately, it was killed by vermin shortly after fledging. In the Bird House at Regent's Park success was achieved with common shamas and Asian magpie robins for the first time. These beautiful birds are not only attractive species but also enable staff to develop husbandry skills which one day may be applicable for more endangered members of the genus *Copsychus*, such

as the Cebu black shama or the Seychelles magpie robin. Several noteworthy new species were added to the bird collection at Regent's Park including near threatened Malayan black hornbills and black-breasted thrushes, the threatened Omei Shan Liocichla from China and two pairs of the extremely beautiful and very rare red siskin from Venezuela. Five pairs of ultramarine grosbeaks were received from a confiscation in Belgium. The opportunity to work with several pairs of birds is quite unusual and it is hoped that reproduction will occur in 2000.

In the Reptile House at Regent's Park five black mambas hatched. The last time this species was hatched here was in February 1979 and this breeding was the result of five years work obtaining specimens from South Africa. Six Egyptian tortoises were also hatched and Esther Wenman, Head Keeper of the Reptile House, was appointed UK Studbook holder for this endangered species as well as carrying out a further 6 weeks fieldwork on the reintroduced population on Zaranik Island, Egypt. A Horsfield's tortoise was hatched at Whipsnade; this is a rarely bred species and means that all members of the genus *Testudo* have now been bred at either London or Whipsnade.

As well as the dormice and tortoises already mentioned, approximately 800 British field crickets from the old Invertebrate House were released into selected sites in southern England under the auspices of the English Nature recovery plan for this species.

Because of *Web of Life* commitments, staff were constrained to spend more time in London than usual during 1999. However, field commitments in the Philippines (Heather Hall) and the far east (Sarah Christie) were honoured. As usual the Society was well represented at the annual EEP Conference where Rachel Jones, Keeper in the *Web of Life*, gave a platform presentation and co-chaired the EEP Invertebrate TAG meeting in Paul Pearce-Kelly's absence. Sarah Christie took on the EEP for the world's most endangered cat, the Amur leopard, and also by year end, for the Asiatic lion. Esther Wenman and Heather Hall became studbook keeper and co-ordinator, respectively, of the Chinese alligator EEP.

Finally, the Curator of Mammals position continues to be a stepping stone to greater things in the zoo world, and Douglas Richardson emulated several illustrious predecessors (Michael Brambell, Brian Bertram, Jo Gipps) by gaining appointment as Zoological Director of Rome Zoo. We wish him well with his new and challenging position and thank him warmly for his contribution to the work of the Department over the last 12 years.

Simon Tonge, Senior Curator, London Zoo, and Nick Lindsay, Curator, Whipsnade Wild Animal Park

ANIMALS IN THE COLLECTIONS

Key to columns for Mammals, Birds, Reptiles, Amphibians and Fishes:

column 1 Number of animals in the Collection at 1st January 1999.

column 2 Number of animals received in 1999 by presentation, exchange, purchase, or transfer between the Society's two Collections. The figures in brackets indicate animals which have been so transferred.

column 3 Number of animals born or hatched during 1999.

column 4 Number of animals which died in 1999 within 30 days of birth or hatching. The figures in brackets indicate animals born or hatched during December 1998 which died during January 1999. Stillbirths are not included.

column 5 Number of animals which died during 1999, apart from those included in column 4.

column 6 Number of animals disposed of in 1999 by presentation, exchange, deposit, sale or transfer between the Society's two Collections. The figures in brackets indicate animals which have been transferred between the two Collections.

column 7 Number of animals in the Collection at 31st December 1999 showing sexes where these are known, e.g. 1/3/1 indicates 1 male, 3 female, 1 sex unknown.

Key
G Genus new to the Collection
S Species new to the Collection
SS Sub-species new to the Collection
RT Regionally threatened (species held in a breeding programme)

**Free-ranging animals at Whipsnade censused once a year

IUCN threatened species categories

1996 IUCN Red List of Threatened Animals. Compiled and edited by Jonathan Baillie and Brian Groombridge. IUCN, Gland, Switzerland

EX Extinct CR Critically Endangered VU Vulnerable
EW Extinct in the Wild EN Endangered

LONDON ZOO

MAMMALS

Monotremata

Tachyglossus aculeatus

Australian Echidna

Dasyuromorphia

Dasyurus byrnei (VU)

Byrne's Pouched Mouse (Kowari)

Dasylopsis trivirgata

Striped Possum

Gymnobelideus leadbeateri (EN)

Leadbeater's Possum

Diprotodontia

Macropus rufogriseus struthio

Red-necked (Bennett's) Wallaby

Bettongia penicillata

Brush-tailed Bettong

Macroscelidea

Macroscelides proboscideus (VU)

Short-eared Elephant Shrew

	1	2	3	4	5	6	7
<i>Tachyglossus aculeatus</i>	1	-	-	-	1	-	-
<i>Dasyurus byrnei</i> (VU)	4	3	3	-	3	-	4/3
<i>Dasylopsis trivirgata</i>	5	-	1	-	1	-	2/3
<i>Gymnobelideus leadbeateri</i> (EN)	1	-	-	-	-	-	0/1
<i>Macropus rufogriseus struthio</i>	2	-	-	-	-	-	1/1
<i>Bettongia penicillata</i>	5	-	-	-	1	-	2/2
<i>Macroscelides proboscideus</i> (VU)	8	1	19	15(2)	-	-	6/4/3

Myosorex arvalis (RT)
Atherurus africanus
Dasyprocta punctata
Myosorex acouchy
Chinchilla laniger
Octodon degus
Heterocephalus glaber

Common Dormouse
African Brush-tailed Porcupine
South American Agouti
Green Acouchi
Chinchilla
Degu
Naked Mole Rat

	1	2	3	4	5	6	7
<i>Myosorex arvalis</i> (RT)	19	-	7	-	3	8(2)	17/28
<i>Atherurus africanus</i>	2	-	2	2	-	-	1/1
<i>Dasyprocta punctata</i>	7	-	3	2	5	3	-
<i>Myosorex acouchy</i>	6	-	3	2	-	1	4/2
<i>Chinchilla laniger</i>	2	2	-	-	-	-	1/3
<i>Octodon degus</i>	11	-	2	1	6	-	4/2
<i>Heterocephalus glaber</i>	-	11	17	17	1	-	1/1/8

Carnivora

Chrysocyon brachyurus

Maned Wolf

Vulpes zerda

Fennec Fox

Ichneumon striatatus

Zorilla

Amblyonyx cinereus

Oriental Small-clawed Otter

Melomys urinus inornatus (VU)

Sloth Bear

Alouatta fulgens fulgens (EN)

Red Panda

Nasua nasua

Coati

Potos flavus

Kinkajou

Suricata suricatta

Meerkat

Helogale parvula

Dwarf Mongoose

Mungos mungo

Banded Mongoose

Caracal caracal

Caracal Lynx

Felis margarita harrisi

Sand Cat

Panthera leo persica (EN)

Asiatic Lion

Panthera tigris sumatrae (CR)

Sumatran Tiger

Panthera pardus satyria (EN)

Iranian Leopard

Neofelis nebulosa nebulosa (VU)

Clouded Leopard

	1	2	3	4	5	6	7
<i>Chrysocyon brachyurus</i>	-	2	-	-	-	-	1/1
<i>Vulpes zerda</i>	3	-	-	-	-	1	1/1
<i>Ichneumon striatatus</i>	1	-	-	-	-	1	-
<i>Amblyonyx cinereus</i>	6	-	8	-	2	3	4/5
<i>Melomys urinus inornatus</i> (VU)	3	-	-	-	-	-	2/1
<i>Alouatta fulgens fulgens</i> (EN)	2	-	2	-	-	-	1/3
<i>Nasua nasua</i>	3	-	-	-	-	-	3/0
<i>Potos flavus</i>	1	-	-	-	-	-	0/1
<i>Suricata suricatta</i>	9	-	1	1	2	1	3/3
<i>Helogale parvula</i>	5	-	-	-	-	-	4/1
<i>Mungos mungo</i>	2	-	-	-	-	-	1/1
<i>Caracal caracal</i>	1	-	-	-	-	-	0/1
<i>Felis margarita harrisi</i>	3	-	-	-	-	-	1/2
<i>Panthera leo persica</i> (EN)	2	3	2	-	-	3	1/3
<i>Panthera tigris sumatrae</i> (CR)	2	1	-	-	-	1	1/1
<i>Panthera pardus satyria</i> (EN)	1	2	1	1	-	-	2/1
<i>Neofelis nebulosa nebulosa</i> (VU)	1	1	-	-	1	-	1/0

Proboscidea

Elephas maximus (EN)

Asian Elephant

	1	2	3	4	5	6	7
<i>Elephas maximus</i> (EN)	3	-	-	-	-	-	0/3

Perissodactyla

Tapirus indicus (EN)

Malayan Tapir

Diceros bicornis michaeli (CR)

Black Rhinoceros

	1	2	3	4	5	6	7
<i>Tapirus indicus</i> (EN)	1	-	-	-	-	-	1/0
<i>Diceros bicornis michaeli</i> (CR)	2	-	-	-	-	-	1/1

Artiodactyla

Tayassu tajacu

Collared Peccary

Hexaprotodon liberiensis (VU)

Pygmy Hippopotamus

Pudu pudu (VU)

Pudu

Mantiacus reevesi

Reeves's Muntjac

Okapi johnstoni

Okapi

Giraffa camelopardalis

Giraffe

Tragelaphus eurycerus isaaci

Mountain Bongo

Bubalus depressicornis (EN)

Lowland Anoa

Oryx leucoryx (EN)

Arabian Oryx

Gazella gazella arabica

Arabian Gazelle

	1	2	3	4	5	6	7
<i>Tayassu tajacu</i>	6	-	-	-	2	-	4/0
<i>Hexaprotodon liberiensis</i> (VU)	3	-	-	-	-	1	1/1
<i>Pudu pudu</i> (VU)	2	2	-	-	1	-	2/1
<i>Mantiacus reevesi</i>	1	-	-	-	-	1	-
<i>Okapi johnstoni</i>	2	1	-	-	-	-	2/1
<i>Giraffa camelopardalis</i>	2	-	2	1	-	-	1/2
<i>Tragelaphus eurycerus isaaci</i>	-	3	-	-	-	-	1/2
<i>Bubalus depressicornis</i> (EN)	3	-	-	-	-	-	1/2
<i>Oryx leucoryx</i> (EN)	9	-	8	1	1	3	1/1/1
<i>Gazella gazella arabica</i>	-	5	-	-	1	-	4/0

Domestic

Rabbit

Guinea Pig

Golden Hamster

House Mouse (domestic)

Brown Rat (domestic)

Clawed Fird (domestic gerbil)

Ferret

Pony: Cream

Dartmoor

Welsh

Welsh Mountain

Shetland

Bay

Llama

Bactrian Camel

Reindeer

Pig: Large Black

Middle White

Rabbit
Guinea Pig
Golden Hamster
House Mouse (domestic)
Brown Rat (domestic)
Clawed Fird (domestic gerbil)
Ferret
Pony: Cream
Dartmoor
Welsh
Welsh Mountain
Shetland
Bay
Llama
Bactrian Camel
Reindeer
Pig: Large Black
Middle White

	1	2	3	4	5	6	7
Rabbit	5	5	-	-	3	1	0/6
Guinea Pig	10	1	6	-	2	7	2/6
Golden Hamster	1	1	-	-	1	-	1/0
House Mouse (domestic)	1	3	-	-	1	-	0/3
Brown Rat (domestic)	5	14	-	-	4	1	4/10
Clawed Fird (domestic gerbil)	3	-	-	-	-	-	3/0
Ferret	6	-	-	-	1	-	5/0
Pony: Cream	2	-	-	-	-	-	2/0
Dartmoor	1	-	-	-	-	-	0/1
Welsh	2	-	-	-	1	1	-
Welsh Mountain	-	2	-	-	-	-	2/0
Shetland	1	-	-	-	-	-	1/0
Bay	2	-	-	-	-	-	2/0
Llama	2	-	-	-	-	-	2/0
Bactrian Camel	2	1(1)	-	-	-	-	0/3
Reindeer	2	1(1)	1	-	1	-	0/3
Pig: Large Black	9	-	-	-	-	9	-
Middle White	-	4	8	2	-	10	-

Chiroptera

Pteropus rostratus (CR)

Rodriguez Fruit Bat

Carollia perspicillata

Seba's Short-tailed Bat

	1	2	3	4	5	6	7
<i>Pteropus rostratus</i> (CR)	36	-	11	5	1	14	19/8
<i>Carollia perspicillata</i>	>120	-	51	10	11	-	~150

Scandentia

Tapia minor

Pygmy Tree Shrew

Tapia tana

Large Tree Shrew

	1	2	3	4	5	6	7
<i>Tapia minor</i>	1	-	-	-	-	-	0/1
<i>Tapia tana</i>	5	-	1	1	-	1	2/2

Primates

Dubautia

madagascariensis (EN)

Aye-aye

Varecia variegata variegata (EN)

Black-&-white Ruffed Lemur

Varecia variegata rubra (CR)

Red Ruffed Lemur

Cheirogaleus medius

Fat-tailed Dwarf Lemur

Haplorhina grisea

alotrensis (CR)

Alotran Gentle Lemur

Loris tardigradus (VU)

Slender Loris

Nycticebus coucang

Slow Loris

Nycticebus pygmaeus (VU)

Pygmy Slow Loris

Perodicticus potto

Potto

Galago senegalensis

Senegal Bushbaby

Aotus lemurinus griseimembra

Douroucoulis

Pithecia pithecia

White-faced Saki Monkey

Ateles paniscus

Red-faced Black Spider Monkey

Callithrix jacchus

		1	2	3	4	5	6	7
Falconiformes								
<i>Cathartes aura</i>	Turkey Vulture	6	-	-	-	-	1(1)	3/2
<i>Milvus migrans</i>	Black Kite	2	-	-	-	-	-	1/1
<i>Milvus migrans migrans</i>	Black Kite	1	-	-	-	1	-	-
<i>Terathopius ecaudatus</i>	Bateleur Eagle	2	-	-	-	-	2	-
<i>Polyboroides typus</i>	African Harrier Hawk	5	-	1	-	-	1	1/3/1
<i>Parabuteo unicinctus</i>	Harris's Hawk	2	-	-	-	-	-	1/1
Galliformes								
<i>Rollulus rouloul</i>	Crested Wood Partridge	9	-	15	7	1	-	11/5
<i>Gallus gallus</i>	Red Junglefowl	2	-	-	-	1	-	1/0
<i>Lophura diardi</i> (VU)	Siamese Crested Fireback	4	-	-	-	-	-	2/2
<i>Lophura edwardsi</i> (CR)	Edward's Pheasant	4	-	-	-	-	-	2/2
<i>Pavo cristatus</i>	Common Peafowl	5	-	4	4	-	5	-
<i>Pavo muticus</i> (VU)	Green Peafowl	2	-	-	-	1	-	1/0
<i>Afropavo congensis</i> (VU)	Congo Peafowl	2	-	-	-	-	-	2/0
<i>Polyplectron emphanum</i> (EN)	Palawan Peacock Pheasant	3	-	-	-	-	-	2/1
Gruiformes								
<i>Cariacus cristata</i>	Red-legged Seriema	-	1	-	-	1	-	-
<i>Gru japonensis</i> (VU)	Red-crowned (Manchurian) Crane	2	-	-	-	-	-	1/1
<i>Gru paradisea</i> (VU)	Stanley Crane	2	-	-	-	-	-	1/1
<i>Gallinula nesiotis comeri</i> (VU)	Gough Island Moorhen	4	-	-	-	-	2	1/1
<i>Rallia striata</i>	Slaty-breasted Rail	1	-	-	-	-	-	1/0
Charadriiformes								
<i>Burhinus oedipodius</i>	Stone Curlew	4	-	-	-	2	-	2/0
<i>Recurvirostra avosetta</i>	Pied Avocet	3	-	-	-	-	3(3)	-
<i>Vanellus miles miles</i>	Masked Lapwing	4	-	7	3	1	2	4/1
<i>Larus cirrocephalus poiocephalus</i>	Grey-headed Gull	10	-	-	-	3	-	0/0/7
<i>Larus inca</i>	Inca Tern	2	-	-	-	1	1	-
Columbiformes								
<i>Columba guinea</i>	Speckled Pigeon	1	-	-	-	1	-	-
<i>Gallinula crinita</i> (VU)	Mindanao Bleeding Heart Dove	4	-	-	-	1	-	2/1
<i>Ducula aenea aenea</i>	Green Imperial Pigeon	4	-	4	-	4	1	1/1/1
<i>Ducula aenea palina</i>	Chestnut-naped Imperial Pigeon	3	-	4	1	-	1	1/1/3
<i>Ducula ruficauda</i>	Purple-tailed Imperial Pigeon	4	-	3	2	1	-	2/2
<i>Ducula concinna</i>	Blue-tailed Imperial Pigeon	1	-	-	-	-	-	1/0
<i>Ducula perisipillata</i>	Spectacled Imperial Pigeon	1	-	-	-	1	-	-
<i>Ducula pinon</i>	Pinon Imperial Pigeon	2	-	-	-	-	-	1/1
<i>Ducula zoeae</i> Zoae	Imperial Pigeon	2	-	-	-	-	-	1/1
<i>Philopneustes cinctus albocinctus</i>	Black-backed Fruit Dove	4	-	-	-	1	-	3/0
<i>Philopneustes magnificus</i>	Magnificent Fruit Dove	2	-	-	-	-	-	2/0
<i>Philopneustes melanospila</i>	Black-naped Fruit Dove	3	-	-	-	-	-	2/1
<i>Philopneustes superbus</i>	Superb Fruit Dove	4	-	-	-	-	-	2/2
<i>Zenaidura macroura</i> (EW)	Socorro Dove	1	-	-	-	-	-	1/0
Psittaciformes								
<i>Trichoglossus johnstoniae</i> (VU)	Mt Apo Lorikeet	-	4	-	-	-	-	2/2
<i>Charmosyna jayakari</i>	Josephine's Lorikeet	1	-	-	-	-	-	1/0
<i>Charmosyna pulchella pulchella</i>	Fairy Lorikeet	1	-	-	-	1	-	-
<i>Charmosyna pulchella rothschildi</i>	Fairy Lorikeet	3	-	-	-	-	-	2/1
<i>Eos cyanogenia</i> (VU)	Black-winged Lory	1	-	-	-	1	-	3/1
<i>Vini australis</i>	Blue-crowned Lory	1	3	-	-	1	-	2/1
<i>Eolophus roseicapillus</i>	Galah	-	1	-	-	-	-	1/0
<i>Calyptorhynchus banksii</i>	Red-tailed Black Cockatoo	5	-	-	-	-	2	1/2
<i>Cacatua moluccensis</i> (VU)	Salmon-crested Cockatoo	7	-	2	2	-	3	2/2
<i>Agapornis taranta</i>	Black-winged Lovebird	8	-	1	-	1	6	1/1
<i>Agapornis nigrigenis</i> (EN)	Black-cheeked Lovebird	22	-	16	-	1	-	0/0/37
<i>Amazona brasiliensis</i> (EN)	Red-tailed Amazon	2	-	-	-	-	-	1/1
<i>Anodorhynchus hyacinthinus</i> (VU)	Hyacinth Macaw	11	1	-	-	1	-	3/8
<i>Ara ambiguus</i>	Buffon's Macaw	2	-	-	-	-	-	0/2
<i>Ara chloroptera</i>	Green-winged Macaw	2	-	-	-	-	-	1/1

		1	2	3	4	5	6	7
<i>Erythrura psittacea</i>	Red-throated Parrot Finch	6	-	-	-	-	-	2/4
<i>Estrilda troglodytes</i>	Black-rumped Waxbill	4	-	-	-	-	-	0/0/4
<i>Vidua sp.</i>	Combassou	1	-	-	-	-	-	1/0
<i>Vidua macroura</i>	Pin-tailed Whydah	2	-	-	-	-	-	2/0
<i>Quelea quelea</i>	Red-beaked Weaver (Quelea)	14	-	-	-	2	-	0/0/12
<i>Foudia flavicoma</i> (VU)	Rodrigues Fody	1	-	-	-	-	-	0/1
<i>Lamprolaima iris</i>	Emerald Glossy Starling	5	-	-	-	-	-	4/1
<i>Leucospiza rothschildi</i> (CR)	Rothschild's Mynah	10	4	-	-	4	1	3/6
<i>Ampelis coronatus</i>	Golden-crested Mynah	1	1	-	-	1	-	0/1
<i>Basileornis celebensis</i>	Sulawesi Mynah	2	2	-	-	2	-	1/1
<i>Pyrrhonorhynchus pyrrhonorhynchus</i> (RT)	Red-billed Cough	3	-	-	-	-	-	1/2
Domestic								
Duck		3	-	-	-	-	-	2/1
Chicken		18	-	1	-	8	-	3/8
Badgerigar		8	-	7	3	6	-	1/5
Total: Birds		698	62(3)	162	43	135	54(4)	690

REPTILES

Testudines								
<i>Stemodermis odoratus</i>	Stinkpot	3	-	-	-	-	-	0/0/3
<i>Trachemys scripta elegans</i>	Red-eared Terrapin	4	-	-	-	-	-	0/0/4
<i>Trachemys decorata</i> (VU)	Hispaniolan Slider	6	-	-	-	-	-	0/0/6
<i>Heosemys grandis</i>	Giant Asian Pond Turtle	2	-	-	-	1	-	1/0
<i>Terrapene carolina</i> (EN)	Mexican Box Turtle	1	6	-	-	2	-	2/2/1
<i>Melanochelys trijuga trijuga</i>	Peninsular Black Turtle	2	-	-	-	-	-	0/2
<i>Graptemys kohni</i>	Mississippi Map Turtle	-	4	-	-	-	-	1/3
<i>Pycia arachnoides</i> (VU)	Madagascar Spider Tortoise	8	-	-	-	4	-	0/0/4
<i>Homopus areolatus</i>	Parrot-beaked Cape Tortoise	3	-	-	-	-	-	1/2
<i>Testudo graeca</i> (VU)	Spur-thighed Tortoise	18	-	-	-	-	2	6/7/3
<i>Testudo hermanni</i>	Hermann's Tortoise	6	-	-	-	-	-	5/1
<i>Testudo horsfieldi</i> (VU)	Central Asian Tortoise	5	-	-	-	-	-	4/1
<i>Testudo kleinmanni</i> (EN)	Egyptian Tortoise	12	-	6	-	-	-	7/5/6
<i>Testudo marginata</i>	Margined Tortoise	4	-	-	-	-	-	4/0
<i>Malacochersus tornieri</i> (VU)	Pancake Tortoise	4	-	2	-	1	-	2/1/2
<i>Geochelone pardalis</i>	Leopard Tortoise	1	-	-	-	-	-	0/1
<i>Chelonia fimbriata</i>	Matamoras	1	1	-	-	1	-	0/0/1
<i>Chelodina longicollis</i>	Long-necked Terrapin	4	-	2	-	-	-	2/2/2
<i>Emydura australis alberti</i>	New Guinea Red-bellied Terrapin	3	-	-	-	-	-	1/2
<i>Pelodiscus sinensis</i>	Chinese Soft-shelled Terrapin	1	-	-	-	-	-	0/0/1
Crocodylia								
<i>Alligator sinensis</i> (CR)	Chinese Alligator	4	1	-	-	-	-	2/3
Sauria								
<i>Tarentola mauritanica</i>	Egyptian Gecko	5	-	8	-	5	-	2/2/4
<i>Nactus serpens</i>	Serpent Island Gecko	2	-	-	-	-	-	1/0/1
<i>Stenodactylus stenocephalus</i>	Elegant Gecko	3	-	2	-	1	-	0/2/2
<i>Paroedura pictus</i>	Malagasy Night Gecko	2	-	-	-	1	-	1/0
<i>Gekko gekko</i>	Tokay Gecko	1	-	-	-	-	-	0/0/1
<i>Homopholis wahlbergi</i>	Wahlberg's Velvet Gecko	1	-	-	-	-	-	1/0
<i>Phelsuma ornata ornata</i>	Ornate Day Gecko	1	-	-	-	-	-	0/0/1
<i>Phelsuma guineensis rosagularis</i>	Maocabe Day Gecko	1	-	-	-	1	-	-
<i>Phelsuma standingi</i> (VU)	Standing's Day Gecko	4	-	-	-	-	-	2/2
<i>Eublepharis macularius</i>	Leopard Ground Gecko	3	-	-	-	-	-	1/2
<i>Cyclura cornuta cornuta</i> (VU)	Rhinoceros Iguana	6	-	-	-	-	-	3/1/2
<i>Oplarus cuvieri</i>	Madagascar Spiny Lizard	1	-	-	-	-	-	1/0
<i>Pogona vitticeps</i>	Indian Bearded Dragon	4	-	10	-	4	3	1/1/5
<i>Uromastix hardwicki</i>	Indian Spiny-tailed Lizard	1	-	-	-	-	-	1(1)

		1	2	3	4	5	6	7
<i>Ara rubrogenys</i> (EN)	Red-fronted Macaw	4	-	-	-	1	-	2/1
<i>Pyrrhura cruentata</i> (VU)	Blue-throated Conure	6	-	-	-	-	1	2/3
<i>Mysopittia monachus</i>	Monk Parakeet	4	-	-	-	-	-	0/0/4
<i>Deropis occipitatus</i>	Hawk-headed Parrot	2	-	-	-	-	-	1/1
Cuculiformes								
<i>Micropodops violacea</i>	Violet Plantain-eater	2	-	-	-	1	-	1/0
<i>Tauraco erythrophus</i>	Red-crested Tanager	3	2	-	-	-	-	3/2
<i>Tauraco leucotis</i>	White-cheeked Tanager	1	-	-	-	-	-	0/0/1
<i>Tauraco corythaix fischeri</i>	Fischer's Tanager	-	2	-	-	-	-	1/1
Strigiformes								
<i>Tyto alba</i>	Barn Owl	2	-	-	-	-	1	0/0/1
<i>Phodilus badius</i>	Oriental Bay Owl	2	-	-	-	-	-	1/1
<i>Otus leucotis</i>	White-faced Scops Owl	11	2	-	-	1	2	6/4
<i>Bubo bubo bubo</i>	Eurasian Eagle Owl	1	-	-	-	-	-	1/0
<i>Pulsatrix perspicillata</i>	Spectacled Owl	4	-	1	-	-	1	2/2
<i>Speotyto cunicularia</i>	Burrowing Owl	3	-	-	-	1	-	1/0/1
<i>Strix hylophila</i>	Rusty-barred Owl	7	-	1	-	-	-	2/4/2
<i>Strix nebulosa lapponica</i>	Great Grey Owl	2	-	-	-	1	-	1/0
<i>Strix rufipes chacoensis</i>	Rufous-legged Owl	2	-	-	-	-	-	1/1
Caprimulgiformes								
<i>Podargus strigoides</i>	Tawny Frogmouth	3	-	-	-	-	-	2/1
Apodiformes								
<i>Anas sp.</i>	Hummingbird	-	1	-	-	-	-	0/1
Coraciiformes								
<i>Dacelo novaeguineae</i>	Kookaburra	1	-	-	-	-	-	0/0/1
<i>Coracias caudata</i>	Lilac-breasted Roller	4	-	4	-	1	1	1/1/1
<i>Anthracoceros malayanus</i>	Black Hornbill	-	2	-	-	-	-	1/1
<i>Anthracoceros albinotus</i>	Southern Pied Hornbill	1	-	-	-	1	-	-
<i>Bycanistes subcylindricus</i>	Black-&-white Casqued Hornbill	1	-	-	-	-	-	0/1
<i>Buceros bicornis</i>	Great Indian Hornbill	3	-	-	-	-	1	1/1
<i>Buceros rhinoceros</i>	Rhinoceros Hornbill	1	-	-	-	-	-	0/1
Piciformes								
<i>Ramphastos tucanus</i>	Red-billed Toucan	1	-	-	-	-	-	0/0/1
<i>Pteroglossus aracari</i>	Black-necked Aracari	5	-	-	-	-	1	3/1
Passeriformes								
<i>Pitta sordida</i>	Hooded Pitta	1	-	-	-	-	-	0/1
<i>Coppychus malabaricus</i>	Common Shrike	2	-	9	2	3	1	1/4
<i>Coppychus sulcirostris</i>	Asian Magpie Robin	4	-	13	3	3	6	4/1
<i>Coscypha albicapilla</i>	White-crowned Robin	-	-	-	-	-	-	-
	Chat	3	-	8	7	-	-	2/1/1
<i>Coscypha niveicapilla</i>	Snowy-headed Robin Chat	3	-	-	-	1	-	0/2
<i>Oenanthe oenanthe</i>	Northern Wheatear	2	-	-	-	-	-	1/1
<i>Rhyacornis fuliginosa</i>	Plumbeous Redstart	1	-	-	-	-	-	1/0
<i>Turdus dauma</i>	Black-breasted Thrush	-	4	-	-	-	-	2/2
<i>Garrulus gularis</i>	Yellow-throated Laughing Thrush	2	1	-	-	-	1	1/1
<i>Garrulus chinensis</i>	Black-throated Laughing Thrush	3	-	-	-	2	-	0/1
<i>Loxia sinensis</i> (VU) S	Ornate Shan Babbler	-	2	-	-	-	-	1/1
<i>Nectarinia pulchella</i>	Beautiful Sunbird	-	2	-	-	-	-	1/1
<i>Paroaria coronata</i>	Red-crested Cardinal	3	-	-	-	-	-	2/1
<i>Paroaria dominicana</i>	Pope Cardinal	12	-	9	1	6	4	5/5
<i>Passerina brissonii</i>	Ultramarine Grosbeak	-	10	-	-	4	-	3/3
<i>Tangara cayana</i>	Burnished Buff Tanager	1	-	-	-	1	-	-
<i>Tangara arthus</i>	Golden Tanager	1	-	-	-	-	-	0/1
<i>Tangara fastuosa</i> (EN)	Superb (Seven-coloured) Tanager	4	-	-	-	1	-	0/2/1
<i>Tangara icterocephala</i>	Silver-throated Tanager	1	-	-	-	1	-	-
<i>Carduelis cucullata</i> (EN)	Red Siskin	-	4	-	-	-	-	2/2
<i>Chlorobis godulian</i> (EN)	Godulian Finch	12	-	-	-	3	2	4/3

		1	2	3	4	5	6	7
Falconiformes								
<i>Cathartes aura</i>	Turkey Vulture	6	-	-	-	-	1(1)	3/2
<i>Milvina migrans</i>	Black Kite	2	-	-	-	-	-	1/1
<i>Milvina migrans migrans</i>	Black Kite	1	-	-	-	1	-	-
<i>Terathopius ecaudatus</i>	Bateleur Eagle	2	-	-	-	-	2	-
<i>Polyboroides typus</i>	African Harrier Hawk	5	-	1	-	-	1	1/3/1
<i>Parabuteo unicinctus</i>	Harris's Hawk	2	-	-	-	-	-	1/1
Galliformes								
<i>Rollulus rouloul</i>	Crested Wood Partridge	9	-	15	7	1	-	11/5
<i>Gallus gallus</i>	Red Junglefowl	2	-	-	-	1	-	1/0
<i>Lophura diardi</i> (VU)	Siamese Crested Fireback	4	-	-	-	-	-	2/2
<i>Lophura edwardsi</i> (CR)	Edward's Pheasant	4	-	-	-	-	-	2/2
<i>Pavo cristatus</i>	Common Peafowl	5	-	4	4	-	5	-
<i>Pavo muticus</i> (VU)	Green Peafowl	2	-	-	-	1	-	1/0
<i>Afropavo congensis</i> (VU)	Congo Peafowl	2	-	-	-	-	-	2/0
<i>Polyplectron emphanum</i> (EN)	Palawan Peacock Pheasant	3	-	-	-	-	-	2/1
Gruiformes								
<i>Cariacus cristata</i>	Red-legged Seriema	-	1	-	-	1	-	-
<i>Gru japonensis</i> (VU)	Red-crowned (Manchurian) Crane	2	-	-	-	-	-	1/1
<i>Gru paradisea</i> (VU)	Stanley Crane	2	-	-	-	-	-	1/1
<i>Gallinula nesiotis comeri</i> (VU)	Gough Island Moorhen	4	-	-	-	-	2	1/1
<i>Rallia striata</i>	Slaty-breasted Rail	1	-	-	-	-	-	1/0
Charadriiformes								
<i>Burhinus oedipodius</i>	Stone Curlew	4	-	-	-	2	-	2/0
<i>Recurvirostra avosetta</i>	Pied Avocet	3	-	-	-	-	3(3)	-
<i>Vanellus miles miles</i>	Masked Lapwing	4	-	7	3	1	2	4/1
<i>Larus cirrocephalus poiocephalus</i>	Grey-headed Gull	10	-	-	-	3	-	0/0/7
<i>Larus inca</i>	Inca Tern	2	-	-	-	1	1	-
Columbiformes								
<i>Columba guinea</i>	Speckled Pigeon	1	-	-	-	1	-	-
<i>Gallinula crinita</i> (VU)	Mindanao Bleeding Heart Dove	4	-	-	-	1	-	2/1
<i>Ducula aenea aenea</i>	Green Imperial Pigeon	4	-	4	-	4	1	1/1/1
<i>Ducula aenea palina</i>	Chestnut-naped Imperial Pigeon	3	-	4	1	-	1	1/1/3
<i>Ducula ruficauda</i>	Purple-tailed Imperial Pigeon	4	-	3	2	1	-	2/2
<i>Ducula concinna</i>	Blue-tailed Imperial Pigeon	1	-	-	-	-	-	1/0
<i>Ducula perisipillata</i>	Spectacled Imperial Pigeon	1	-	-	-	1	-	-
<i>Ducula pinon</i>	Pinon Imperial Pigeon	2	-	-	-	-	-	1/1
<i>Ducula zoeae</i> Zoae	Imperial Pigeon	2	-	-	-	-	-	1/1
<i>Philopneustes cinctus albocinctus</i>	Black-backed Fruit Dove	4	-	-	-	1	-	3/0
<i>Philopneustes magnificus</i>	Magnificent Fruit Dove	2	-	-	-	-	-	2/0
<i>Philopneustes melanospila</i>	Black-naped Fruit Dove	3	-	-	-	-	-	2/1
<i>Philopneustes superbus</i>	Superb Fruit Dove	4	-	-	-	-	-	2/2
<i>Zenaidura macroura</i> (EW)	Socorro Dove	1	-	-	-	-	-	1/0
Psittaciformes								
<i>Trichoglossus johnstoniae</i> (VU)	Mt Apo Lorikeet	-	4	-	-	-	-	2/2
<i>Charmosyna jayakari</i>	Josephine's Lorikeet	1	-	-	-	-	-	1/0
<i>Charmosyna pulchella pulchella</i>	Fairy Lorikeet	1	-	-	-	1	-	-
<i>Charmosyna pulchella rothschildi</i>	Fairy Lorikeet	3	-	-	-	-	-	2/1
<i>Eos cyanogenia</i> (VU)	Black-winged Lory	1	-	-	-	1	-	3/1
<i>Vini australis</i>	Blue-crowned Lory	1	3	-	-	1	-	2/1
<i>Eolophus roseicapillus</i>	Galah	-	1	-	-	-	-	1/0
<i>Calyptorhynchus banksii</i>	Red-tailed Black Cockatoo	5	-	-	-	-	2	1/2
<i>Cacatua moluccensis</i> (VU)	Salmon-crested Cockatoo	7	-	2	2	-	3	2/2
<i>Agapornis taranta</i>	Black-winged Lovebird	8	-	1	-	1	6	1/1
<i>Agapornis nigrigenis</i> (EN)	Black-cheeked Lovebird	22	-	16	-	1	-	0/0/37
<i>Amazona brasiliensis</i> (EN)	Red-tailed Amazon	2	-	-	-	-	-	1/1
<i>Anodorhynchus hyacinthinus</i> (VU)	Hyacinth Macaw	11	1	-	-	1	-	3/8
<i>Ara ambiguus</i>	Buffon's Macaw	2	-	-	-	-	-	0/2
<i>Ara chloroptera</i>	Green-winged Macaw	2	-	-	-	-	-	1/1

		1	2	3	4	5	6	7
<i>Erythrura psittacea</i>	Red-throated Parrot Finch	6	-	-	-	-	-	2/4
<i>Estrilda troglodytes</i>	Black-rumped Waxbill	4	-	-	-	-	-	0/0/4
<i>Vidua sp.</i>	Combassou	1	-	-	-	-	-	1/0
<i>Vidua macroura</i>	Pin-tailed Whydah	2	-	-	-	-	-	2/0
<i>Quelea quelea</i>	Red-beaked Weaver (Quelea)	14	-	-	-	2	-	0/0/12
<i>Foudia flavicoma</i> (VU)	Rodrigues Fody	1	-	-	-	-	-	0/1
<i>Lamprolaima iris</i>	Emerald Glossy Starling	5	-	-	-	-	-	4/1
<i>Leucospiza rothschildi</i> (CR)	Rothschild's Mynah	10	4	-	-	4	1	3/6
<i>Ampelis coronatus</i>	Golden-crested Mynah	1	1	-	-	1	-	0/1
<i>Basileornis celebensis</i>	Sulawesi Mynah	2	2	-	-	2	-	1/1
<i>Pyrrhonorhynchus pyrrhonorhynchus</i> (RT)	Red-billed Cough	3	-	-	-	-	-	1/2
Domestic								
Duck		3	-	-	-	-	-	2/1
Chicken		18	-	1	-	8	-	3/8
Badgerigar		8	-	7	3	6	-	1/5
Total: Birds		698	62(3)	162	43	135	54(4)	690

REPTILES

Testudines								
<i>Stemodermis odoratus</i>	Stinkpot	3	-	-	-	-	-	0/0/3
<i>Trachemys scripta elegans</i>	Red-eared Terrapin	4	-	-	-	-	-	0/0/4
<i>Trachemys decorata</i> (VU)	Hispaniolan Slider	6	-	-	-	-	-	0/0/6
<i>Heosemys grandis</i>	Giant Asian Pond Turtle	2	-	-	-	1	-	1/0
<i>Terrapene carolina</i> (EN)	Mexican Box Turtle	1	6	-	-	2	-	2/2/1
<i>Melanochelys trijuga trijuga</i>	Peninsular Black Turtle	2	-	-	-	-	-	0/2
<i>Graptemys kohni</i>	Mississippi Map Turtle	-	4	-	-	-	-	1/3
<i>Pycia arachnoides</i> (VU)	Madagascar Spider Tortoise	8	-	-	-	4	-	0/0/4
<i>Homopus areolatus</i>	Parrot-beaked Cape Tortoise	3	-	-	-	-	-	1/2
<i>Testudo graeca</i> (VU)	Spur-thighed Tortoise	18	-	-	-	-	2	6/7/3
<i>Testudo hermanni</i>	Hermann's Tortoise	6	-	-	-	-	-	5/1
<i>Testudo horsfieldi</i> (VU)	Central Asian Tortoise	5	-	-	-	-	-	4/1
<i>Testudo kleinmanni</i> (EN)	Egyptian Tortoise	12	-	6	-	-	-	7/5/6
<i>Testudo marginata</i>	Margined Tortoise	4	-	-	-	-	-	4/0
<i>Malacochersus tornieri</i> (VU)	Pancake Tortoise	4	-	2	-	1	-	2/1/2
<i>Geochelone pardalis</i>	Leopard Tortoise	1	-	-	-	-	-	0/1
<i>Chelonia fimbriata</i>	Matamoras	1	1	-	-	1	-	0/0/1
<i>Chelodina longicollis</i>	Long-necked Terrapin	4	-	2	-	-	-	2/2/2
<i>Emydura australis alberti</i>	New Guinea Red-bellied Terrapin	3	-	-	-	-	-	1/2
<i>Pelodiscus sinensis</i>	Chinese Soft-shelled Terrapin	1	-	-	-	-	-	0/0/1
Crocodylia								
<i>Alligator sinensis</i> (CR)	Chinese Alligator	4	1	-	-	-	-	2/3
Sauria								
<i>Tarentola mauritanica</i>	Egyptian Gecko	5	-	8	-	5	-	2/2/4
<i>Nactus serpens</i>	Serpent Island Gecko	2	-	-	-	-	-	1/0/1
<i>Stenodactylus stenocephalus</i>	Elegant Gecko	3	-	2	-	1	-	0/2/2
<i>Paroedura pictus</i>	Malagasy Night Gecko	2	-	-	-	1	-	1/0
<i>Gekko gekko</i>	Tokay Gecko	1	-	-	-	-	-	0/0/1
<i>Homopholis wahlbergi</i>	Wahlberg's Velvet Gecko	1	-	-	-	-	-	1/0
<i>Phelsuma ornata ornata</i>	Ornate Day Gecko	1	-	-	-	-	-	0/0/1
<i>Phelsuma guineensis rosagularis</i>	Maocabe Day Gecko	1	-	-	-	1	-	-
<i>Phelsuma standingi</i> (VU)	Standing's Day Gecko	4	-	-	-	-	-	2/2
<i>Eublepharis macularius</i>	Leopard Ground Gecko	3	-	-	-	-	-	1/2
<i>Cyclura cornuta cornuta</i> (VU)	Rhinoceros Iguana	6	-	-	-	-	-	3/1/2
<i>Oplarus cuvieri</i>	Madagascar Spiny Lizard	1	-	-	-	-	-	1/0
<i>Pogona vitticeps</i>	Indian Bearded Dragon	4	-	10	-	4	3	1/1/5
<i>Uromastix hardwicki</i>	Indian Spiny-tailed Lizard	1	-	-	-	-	-	1(1)

		1	2	3	4	5	6	7
<i>Ara rubrogenys</i> (EN)	Red-fronted Macaw	4	-	-	-	1	-	2/1
<i>Pyrrhura cruentata</i> (VU)	Blue-throated Conure	6	-	-	-	-	1	2/3
<i>Mysopittia monachus</i>	Monk Parakeet	4	-	-	-	-	-	0/0/4
<i>Deropis occipitatus</i>	Hawk-headed Parrot	2	-	-	-	-	-	1/1
Cuculiformes								
<i>Micropodops violacea</i>	Violet Plantain-eater	2	-	-	-	1	-	1/0
<i>Tauraco erythrophus</i>	Red-crested Tanager	3	2	-	-	-	-	3/2
<i>Tauraco leucotis</i>	White-cheeked Tanager	1	-	-	-	-	-	0/0/1
<i>Tauraco corythaix fischeri</i>	Fischer's Tanager	-	2	-	-	-	-	1/1
Strigiformes								
<i>Tyto alba</i>	Barn Owl	2	-	-	-	-	1	0/0/1
<i>Phodilus badius</i>	Oriental Bay Owl	2	-	-	-	-	-	1/1
<i>Otus leucotis</i>	White-faced Scops Owl	11	2	-	-	1	2	6/4
<i>Bubo bubo bubo</i>	Eurasian Eagle Owl	1	-	-	-	-	-	1/0
<i>Pulsatrix perspicillata</i>	Spectacled Owl	4	-	1	-	-	1	2/2
<i>Speotyto cunicularia</i>	Burrowing Owl	3	-	-	-	1	-	1/0/1
<i>Strix hylophila</i>	Rusty-barred Owl	7	-	1	-	-	-	2/4/2
<i>Strix nebulosa lapponica</i>	Great Grey Owl	2	-	-	-	1	-	1/0
<i>Strix rufipes chacoensis</i>	Rufous-legged Owl	2	-	-	-	-	-	1/1
Caprimulgiformes								
<i>Podargus strigoides</i>	Tawny Frogmouth	3	-	-	-	-	-	2/1
Apodiformes								
<i>Anas sp.</i>	Hummingbird	-	1	-	-	-	-	0/1
Coraciiformes								
<i>Dacelo novaeguineae</i>	Kookaburra	1	-	-	-	-	-	0/0/1
<i>Coracias caudata</i>	Lilac-breasted Roller	4	-	4	-	1	1	1/1/1
<i>Anthracoceros malayanus</i>	Black Hornbill	-	2	-	-	-	-	1/1
<i>Anthracoceros albinotus</i>	Southern Pied Hornbill	1	-	-	-	1	-	-
<i>Bycanistes subcylindricus</i>	Black-&-white Casqued Hornbill	1	-	-	-	-	-	0/1
<i>Buceros bicornis</i>	Great Indian Hornbill	3	-	-	-	-	1	1/1
<i>Buceros rhinoceros</i>	Rhinoceros Hornbill	1	-	-	-	-	-	0/1
Piciformes								
<i>Ramphastos tucanus</i>	Red-billed Toucan	1	-	-	-	-	-	0/0/1
<i>Pteroglossus aracari</i>	Black-necked Aracari	5	-	-	-	-	1	3/1
Passeriformes								
<i>Pitta sordida</i>	Hooded Pitta	1	-	-	-	-	-	0/1
<i>Coppychus malabaricus</i>	Common Shama	2	-	9	2	3	1	1/4
<i>Coppychus sulcularis</i>	Asian Magpie Robin	4	-	13	3	3	6	4/1
<i>Coscypha albicapilla</i>	White-crowned Robin	-	-	-	-	-	-	-
	Chat	3	-	8	7	-	-	2/1/1
<i>Coscypha niveicapilla</i>	Snowy-headed Robin Chat	3	-	-	-	1	-	0/2
<i>Oenanthe oenanthe</i>	Northern Wheatear	2	-	-	-	-	-	1/1
<i>Rhyacornis fuliginosa</i>	Plumbeous Redstart	1	-	-	-	-	-	1/0
<i>Turdus daudatus</i>	Black-breasted Thrush	-	4	-	-	-	-	2/2
<i>Garrulus galbanus</i>	Yellow-throated Laughing Thrush	2	1	-	-	-	1	1/1
<i>Garrulus chinensis</i>	Black-throated Laughing Thrush	3	-	-	-	2	-	0/1
<i>Loxia sinensis</i> (VU) S	Ornate Shan Babbler	-	2	-	-	-	-	1/1
<i>Nectarinia pulchella</i>	Beautiful Sunbird	-	2	-	-	-	-	1/1
<i>Paroaria coronata</i>	Red-crested Cardinal	3	-	-	-	-	-	2/1
<i>Paroaria dominicana</i>	Pope Cardinal	12	-	9	1	6	4	5/5
<i>Passerina brissonii</i>	Ultramarine Grosbeak	-	10	-	-	4	-	3/3
<i>Tangara cayana</i>	Burnished Buff Tanager	1	-	-	-	1	-	-
<i>Tangara arthus</i>	Golden Tanager	1	-	-	-	-	-	0/1
<i>Tangara fastuosa</i> (EN)	Superb (Seven-coloured) Tanager	4	-	-	-	1	-	0/2/1
<i>Tangara icterocephala</i>	Silver-throated Tanager	1	-	-	-	1	-	-
<i>Carduelis cucullata</i> (EN)	Red Siskin	-	4	-	-	-	-	2/2
<i>Chlorobis gouldian</i> (EN)	Gouldian Finch	12	-	-	-	3	2	4/3

		1	2	3	4	5	6	7
<i>Bitis arietans</i>	Puff Adder	7	-	4	-	4	-	2/2/3
<i>Bitis gabonica rhinoceros</i>	Gaboon Viper	6	-	38	-	4	3	5/1/31
<i>Echis carinatus</i> sp.	Carpet Viper	3	-	-	-	1	-	0/0/2
<i>Echis carinatus sochureki</i>	Saw-scaled Viper	3	-	-	-	1	-	0/1/1
<i>Gloydius intermedius saxatilis</i>	Rock Mamushi	6	-	-	-	-	-	0/0/6
<i>Gloydius halys caragamus</i>	Karagonda Mamushi	3	-	-	-	-	-	2/1
<i>Calotes laticauda rhodostoma</i>	Malayan Pit Viper	9	-	-	-	3	-	0/0/6
<i>Trimeresurus purpurimaculatus</i>	Mangrove Pit Viper	1	-	-	-	-	-	1/0
<i>Trimeresurus albolabris</i>	White-lipped Tree Viper	21	-	6	4	11	10	0/1/1
<i>Bothrops asper</i>	Terciopelo	1	-	-	-	-	-	0/1
<i>Bothrops moojeni</i>	Moojen's Fer-de-Lance	1	-	-	-	-	-	1/0
<i>Bothrops atrox x moojeni</i>	Fer-de-Lance x Moojen's							
	Fer-de-Lance	13	-	-	-	1	-	0/0/12
<i>Bothrops alternatus</i>	Urutu	1	-	-	-	-	-	0/0/1
<i>Crotalus durissus culmatatus</i>	North-western Neotropical							
	Rattlesnake	1	-	-	-	-	-	1/0
<i>Crotalus unicolor</i> (CR)	Aruba Island Rattlesnake	15	-	8	-	3	2(2)	1/1/16
<i>Crotalus vegrandis</i>	Uracoan Rattlesnake	30	-	29	-	32	8	1/1/17
<i>Crotalus atrox</i>	Western Diamondback							
	Rattlesnake	1	-	-	-	-	-	0/0/1
<i>Crotalus viridis oreganus</i>	North Pacific Rattlesnake	5	-	1	-	-	-	0/0/6
<i>Crotalus mitchelli</i>	Speckled Rattlesnake	1	-	-	-	1	-	-
<i>Crotalus cerastes</i>	Sidewinder	1	-	-	-	-	-	1/0
Total: Reptiles		463	19	181	7	121	49(3)	486

AMPHIBIANS

Anura

<i>Mantella aurantiaca</i>	Golden Mantella	-	8	-	-	3	-	0/0/5
<i>Limnodynastes</i> sp.	Banjo Frog (Pobblebonk)	-	-36	-	-	-36	-	-
<i>Colostethus trinitatus</i>	Stream Frog	-40	-	nr	nr	nr	-	-40
<i>Dendrobates auratus</i>	Green-&-black Poison Frog	11	-	-	-	7	-	0/0/4
<i>Dendrobates leucomelas</i>	Yellow-banded Poison Frog	-	4	-	-	-	-	0/0/4
<i>Dendrobates tinctorius</i>	Blue-&-yellow Poison Frog	1	-	-	-	-	-	1/0
<i>Dendrobates pumilio</i>	Strawberry Poison Frog	33	3	-	-	-18	2	-16
<i>Dendrobates truncatus</i>	Yellow-&-black Poison Frog	6	-	-	-	2	-	0/0/4
<i>Dendrobates azureus</i>	Blue Poison Frog	16	-	-	-	2	3	2/3/6
<i>Phyllobates aurotaenia</i>	Kokoi Poison Frog	-	4	-	-	3	-	1/0
<i>Phyllobates terribilis</i>	Golden Poison Frog	-	4	-	-	-	-	1/3
<i>Epipedobates tricolor</i>	Phantasmal Poison Frog	9	-	-	-	nr	-	-9
<i>Gastrotheca riobambae</i>	Marasipal Frog	1	-	-	-	-	-	0/0/1
<i>Litoria caerulea</i>	White's Tree Frog	9	-	-	-	5	-	2/2
<i>Rana catesbeiana</i>	American Bullfrog	2	-	-	-	1	-	0/0/1
<i>Bufo calamita</i>	Natterjack Toad	3	-	-	-	-	-	0/0/3
<i>Bufo marinus</i>	Cane Toad	-	3	-	-	-	-	1/1/1
<i>Bufo viridis</i>	Green Toad	1	-	-	-	-	-	1/0
<i>Bombina orientalis</i>	Fire-bellied Toad	8	-	-	-	2	-	0/0/6
<i>Typhlonectes natans</i>	Aquatic Caecilian	4	-	-	-	-	-	0/0/4
<i>Amphystoma mexicanum</i>	Axolotl	-	4	-	-	4	-	-
<i>Amphystoma tigrinum</i>	Tiger Salamander	1	-	-	-	-	-	0/0/1
<i>Salamandrella atra</i>	Fire Salamander	-	1	-	-	-	-	0/0/1
Total: Amphibians		145	67	-	-	83	51	24

FISHES

OSTEICHTHYES

Acipenseriformes

<i>Acipenser ruthenus</i> (VU)	Sterlet	5	-	-	-	1	-	4
<i>Scaphirhynchus platyrhynchus</i> (VU)	Shovelnose Sturgeon	2	-	-	-	-	-	2
<i>Polyodon spathula</i> (VU)	Paddlefish	8	3	-	-	2	-	9

Amiiformes

<i>Amia calva</i>	Bowfin	2	-	-	-	1	-	1
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Anguilliformes

<i>Anguilla anguilla</i>	Common Eel	1	-	-	-	1	-	-
<i>Conger conger</i>	Conger Eel	3	-	-	-	1	-	2
<i>Echidna zebra</i>	Zebra Moray Eel	5	-	-	-	-	-	5
<i>Gymnothorax fuvagineus</i>	Leopard Moray Eel	2	-	-	-	-	-	2

Atheriniformes

<i>Bedotia grayi</i>	Madagascar Rainbowfish	7	32	-	-	1	-	38
<i>Glossogobius aureus</i> (VU)	Metallic Rainbowfish	13	-	-	-	2	-	11
<i>Melanotaenia maculata</i>	McCulloch's Rainbowfish	1	-	-	-	1	-	-
<i>Melanotaenia boesemani</i> (EN)	Boesemani's Rainbowfish	2	-	-	-	-	-	2
<i>Telmatherina ladigesi</i> (VU)	Salawesi Rainbowfish	-	10	-	-	-	-	10

Belontiiformes

<i>Dermogenys pusillus</i>	Malayan Halfbeak	1	-	-	-	1	-	-
<i>Nomorhamphus ebrardii</i>	Salawesi Halfbeak	27	-	nr	nr	-	-	27
<i>Nomorhamphus leini leini</i>	Salawesi Halfbeak	-	5	-	-	-	-	5

Beryciformes

<i>Myripristis murdjan</i>	Bronze Soldierfish	1	-	-	-	-	-	1
<i>Myripristis murdjan</i>	Blackbar Soldierfish	4	-	-	-	-	-	4
<i>Myripristis murdjan</i>	Red Soldierfish	3	-	-	-	1	-	2
<i>Sargocentron diadema</i>	Clown Squirrelfish	2	-	-	-	1	-	1
<i>Sargocentron rubrum</i>	Redcoat Squirrelfish	2	-	-	-	-	-	2

Characiformes

<i>Astyanax mexicanus</i> (VU)	Blind Cavefish	22	-	-	-	1	-	21
<i>Hemigrammus bleheri</i>	Rummy-nose Tetra	1	-	-	-	1	-	-
<i>Hemigrammus erythrozonus</i>	Glowlight Tetra	8	-	-	-	7	-	1
<i>Hyphessobrycon herbertaxelrodi</i>	Black Neon Tetra	9	-	-	-	9	-	-
<i>Hyphessobrycon pulchripinnis</i>	Lemon Tetra	6	-	-	-	6	-	-
<i>Hyphessobrycon serpa</i>	Serpa Tetra	3	-	-	-	3	-	-
<i>Parachanna mustinensis</i>	Neon Tetra	3	-	-	-	3	-	-
<i>Protella maculata</i>	X-ray Tetra	13	-	-	-	6	-	7
<i>Gymnocorymbus ternetzi</i>	Black Widow Tetra	24	-	-	-	1	-	23
<i>Myzoxiphus argenteus</i>	Silver Dollar	2	-	-	-	-	-	2
<i>Serranodon nattereri</i>	Red-bellied Piranha	-155	-	-	-	105	25	25
<i>Triportheus angulatus</i>	Narrow Hatchetfish	6	-	-	-	-	-	6
<i>Hasemania nana</i>	Silver-tipped Tetra	18	-	-	-	12	-	6

Cypriniformes

<i>Myxocyprinus asiaticus</i>	Chinese Sailfin Sucker	9	-	-	-	2	-	7
<i>Bota himalayensis</i>	Tiger Botia	2	-	-	-	2	-	-
<i>Bota macracantha</i>	Clown Loach	4	-	-	-	-	-	4
<i>Bota modesta</i>	Red-finned Botia	2	-	-	-	-	-	2
<i>Bota subimmaculata</i> (CR)	Chain Loach	8	-	-	-	1	-	7
<i>Leptobotia mantschurica</i>	Manchurian Loach	1	-	-	-	1	-	-
<i>Achellognathus micropterus</i>	Asian Bitterling	4	-	-	-	2	-	2
<i>Barbus barbus</i>	Barbel	3	-	-	-	-	-	3
<i>Barbus bimaculatus</i>	Two-spot Barb	12	-	-	-	4	-	8
<i>Capoeta aurata</i>	Arals Barb	9	-	-	-	2	-	7
<i>Capoeta oligolepis</i>	Checker Barb	7	-	-	-	7	-	-
<i>Capoeta semisquamata</i>	Chinese Green Barb	5	-	-	-	4	-	1
<i>Capoeta tetrasoma</i>	Tiger Barb	3	-	-	-	3	-	-

		1	2	3	4	5	6	7
<i>Capoeta tatei</i>	Cherry Barb	2	-	-	-	1	-	1
<i>Carassius auratus</i>	Goldfish	12	-	-	-	8	4	-
<i>Ctenopharyngodon idella</i>	Grass Carp	5	-	-	-	-	5	-
<i>Cyprinus carpio</i>	Carp - Koi, mirror, etc.	-49	-	-	-	6	-	-43
<i>Epplatypharodon stamensis</i>	Flying Fox	1	-	-	-	1	-	-
<i>Garra</i> sp.	Chinese Loach	3	-	-	-	3	-	-
<i>Gobio gobio</i>	Gudgeon	2	-	-	-	-	2	-
<i>Hypophthalmichthys molitrix</i>	Silver Carp	3	-	-	-	-	3	-
<i>Leuciscus cephalus</i>	Chub	8	-	-	-	-	8	-
<i>Leuciscus idus</i>	Idle or Orfe	10	-	-	-	-	10	-
<i>Leuciscus leuciscus</i>	Dace	-	1	-	-	-	1	-
<i>Phoxinus phoxinus</i>	Minnow	4	20	nr	-	nr	-	-30
<i>Pseudorasbora parva</i>	Clicking Barb	10	-	-	-	-	10	-
<i>Rasbora borapetensis</i>	Red-tailed Rasbora	10	-	-	-	4	-	6
<i>Rasbora elegans</i>	Elegant Rasbora	12	-	-	-	5	-	7
<i>Rasbora heteromorphus</i>	Harlequin Rasbora	18	-	-	-	13	-	5
<i>Rutilus rutilus</i>	Roach	6	-100	-	-	-50	-	-56
<i>Scardinius erythrophthalmus</i>	Rudd	-50	-	-	-	-	-	-50
<i>Tinca tinca</i>	Tench	>26	-	-	-	nr	-	>24
<i>Zacco</i> sp.	Zacco	1	-	-	-	1	-	-
<i>Notropis lutrensis</i>	Red Shiner	6	-	-	-	6	-	-

Cyprinodontiformes

<i>Ameletus splendens</i> (EW)	Butterfly Goodeid	-160	-	nr	-	nr	35(35)	-100
<i>Pachypanchax omalonotus</i>	Madagascar Killifish	22	-	6	-	1	8(8)	19
<i>Oryzias latipes</i> S	Salawesi Medaka	-	10	-	-	-	-	10
<i>Poecilia nigrofasciata</i>	Black-barred Limia	-160	-	nr	-	nr	-	-50
<i>Poecilia reticulata</i>	Guppy	1 col.	-	nr	-	nr	-	-500
<i>Poecilia reticulata</i> (wild form)	Pitch-lake Guppy	-620	-	nr	-	nr	-	-100
<i>Zoogoneticus tequila</i>	Crescent Zoe	-	17	-	-	4	-	13
<i>Anableps anableps</i>	Four-eyed Fish	-	25	-	-	-	-	25

Gadiformes

<i>Trisopterus luscus</i>	Bib	15	-	-	-	15	-	-
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Gasterosteiformes

<i>Gasterosteus aculeatus</i>	Three-spined Stickleback	-75	-	nr	-	nr	7	-60
<i>Nerophis ophidion</i>	Worm Pipefish	7	-	-	-	7	-	-
<i>Syngnathus acus</i>	Greater Pipefish	11	-	-	-	10	-	1
<i>Dorhamphus melanomelanus</i>	Candy Pipefish	-	10	-	-	6	-	0/0/4
<i>Hippocampus capensis</i> (EN)	Kynsna Seahorse	36	-	817	91	26	-	736
<i>Hippocampus kuda</i> (VU)	Yellow Seahorse	4	20	-210	10	192	23	9
<i>Hippocampus reidi</i> (VU)	Slender Seahorse	-	302	-	-	-299	-	3
<i>Hippocampus ingens</i> (VU)	Pacific Seahorse	-	4	-	-	4	-	-
<i>Entelurus aequoreus</i>	Snake Pipefish	1	-	-	-	1	-	-

Gymnotiformes

<i>Electrophorus electricus</i>	Electric Eel	1	-	-	-	-	-	1
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Lepisosteiformes

<i>Lepisosteus oculatus</i>	Spotted Gar	2	7	-	-	1	-	8
<i>Lepisosteus platyrhynchus</i>	Florida Gar	2	-	-	-	-	-	2
<i>Lepisosteus platostomus</i>	Shortnose Gar	1	-	-	-	-	-	1

Osteoglossiformes

<i>Notopterus chitala</i>	Clown Knife Fish	3	-	-	-	-	3	-
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Perciformes

<i>Naso lituratus</i>	Lipstick Tang	1	-	-	-	-	-	1
<i>Paracanthurus hepatus</i>	Regal Tang	3	7	-	-	1	-	9
<i>Zebrafish</i>	Yellow Sailfin Tang	1	2	-	-	-	-	3
<i>Ctenopoma kingletiae</i>	Kinglet's Climbing Perch	3	-	-	-	1	-	2
<i>Apogon niger</i>	Pygmy Cardinal	3	-	-	-	-	-	3
<i>Pteropogon kauderni</i>	Indonesian Banggai Cardinal Fish	21	-	-	-	4	-	17

		1	2	3	4	5	6	7
<i>Belontiopsis signata</i>	Combail	13	-	-	-	5	-	8
<i>Betta splendens</i>	Siamese Fighting Fish	1	-	-	-	1	-	-
<i>Trichogaster trichopterus</i>	Three-spot Gourami	5	-	-	-	-	5	-
<i>Leopodosteus</i> sp.	Shore-Clingfish/Comish Sucker	-	2	-	-	-	-	2
<i>Melanocheilichthys melanura</i>	Canary Blenny	6	-	-	-	3	-	3
<i>Salarias fasciatus</i>	Algae Blenny	-	2	-	-	2	-	-
<i>Blennius gattorugine</i>	Tompot Blenny	3	6	-	-	7	-	2

		1	2	3	4	5	6	7
<i>Bitis arietans</i>	Puff Adder	7	-	4	-	4	-	2/2/3
<i>Bitis gabonica rhinoceros</i>	Gaboon Viper	6	-	38	-	4	3	5/1/31
<i>Echis carinatus</i> sp.	Carpet Viper	3	-	-	-	1	-	0/0/2
<i>Echis carinatus sochureki</i>	Saw-scaled Viper	3	-	-	-	1	-	0/1/1
<i>Gloydius intermedius saxatilis</i>	Rock Mamushi	6	-	-	-	-	-	0/0/6
<i>Gloydius halys caragamus</i>	Karagonda Mamushi	3	-	-	-	-	-	2/1
<i>Calotes laticauda rhodostoma</i>	Malayan Pit Viper	9	-	-	-	3	-	0/0/6
<i>Trimeresurus purpurascens</i>	Mangrove Pit Viper	1	-	-	-	-	-	1/0
<i>Trimeresurus albolabris</i>	White-lipped Tree Viper	21	-	6	4	11	10	0/1/1
<i>Bothrops asper</i>	Terciopelo	1	-	-	-	-	-	0/1
<i>Bothrops moojeni</i>	Moojen's Fer-de-Lance	1	-	-	-	-	-	1/0
<i>Bothrops atrox x moojeni</i>	Fer-de-Lance x Moojen's							
	Fer-de-Lance	13	-	-	-	1	-	0/0/12
<i>Bothrops alternatus</i>	Urutu	1	-	-	-	-	-	0/0/1
<i>Crotalus durissus culmatatus</i>	North-western Neotropical							
	Rattlesnake	1	-	-	-	-	-	1/0
<i>Crotalus unicolor</i> (CR)	Aruba Island Rattlesnake	15	-	8	-	3	2(2)	1/1/16
<i>Crotalus vegrandis</i>	Uracoan Rattlesnake	30	-	29	-	32	8	1/1/17
<i>Crotalus atrox</i>	Western Diamondback							
	Rattlesnake	1	-	-	-	-	-	0/0/1
<i>Crotalus viridis oreganus</i>	North Pacific Rattlesnake	5	-	1	-	-	-	0/0/6
<i>Crotalus mitchelli</i>	Speckled Rattlesnake	1	-	-	-	1	-	-
<i>Crotalus cerastes</i>	Sidewinder	1	-	-	-	-	-	1/0
Total: Reptiles		463	19	181	7	121	49(3)	486

AMPHIBIANS

Anura

<i>Mantella aurantiaca</i>	Golden Mantella	-	8	-	-	3	-	0/0/5
<i>Limnodynastes</i> sp.	Banjo Frog (Pobblebonk)	-	-36	-	-	-36	-	-
<i>Colostethus trinitatus</i>	Stream Frog	-40	-	nr	nr	nr	-	-40
<i>Dendrobates auratus</i>	Green-&-black Poison Frog	11	-	-	-	7	-	0/0/4
<i>Dendrobates leucomelas</i>	Yellow-banded Poison Frog	-	4	-	-	-	-	0/0/4
<i>Dendrobates tinctorius</i>	Blue-&-yellow Poison Frog	1	-	-	-	-	-	1/0
<i>Dendrobates pumilio</i>	Strawberry Poison Frog	33	3	-	-	-18	2	-16
<i>Dendrobates truncatus</i>	Yellow-&-black Poison Frog	6	-	-	-	2	-	0/0/4
<i>Dendrobates azureus</i>	Blue Poison Frog	16	-	-	-	2	3	2/3/6
<i>Phyllobates auratus</i>	Kokoi Poison Frog	-	4	-	-	3	-	1/0
<i>Phyllobates terribilis</i>	Golden Poison Frog	-	4	-	-	-	-	1/3
<i>Epipedobates tricolor</i>	Phantasmal Poison Frog	9	-	-	-	nr	-	-9
<i>Gastrotheca riobambae</i>	Marupial Frog	1	-	-	-	-	-	0/0/1
<i>Litoria caerulea</i>	White's Tree Frog	9	-	-	-	5	-	2/2
<i>Rana catesbeiana</i>	American Bullfrog	2	-	-	-	1	-	0/0/1
<i>Bufo calamita</i>	Natterjack Toad	3	-	-	-	-	-	0/0/3
<i>Bufo marinus</i>	Cane Toad	-	3	-	-	-	-	1/1/1
<i>Bufo viridis</i>	Green Toad	1	-	-	-	-	-	1/0
<i>Bombina orientalis</i>	Fire-bellied Toad	8	-	-	-	2	-	0/0/6
<i>Typhlonectes natans</i>	Aquatic Caecilian	4	-	-	-	-	-	0/0/4
<i>Amphystoma mexicanum</i>	Axolotl	-	4	-	-	4	-	-
<i>Amphystoma tigrinum</i>	Tiger Salamander	1	-	-	-	-	-	0/0/1
<i>Salamandrella atra</i>	Fire Salamander	-	1	-	-	-	-	0/0/1
Total: Amphibians		145	67	-	-	83	51	24

FISHES

OSTEICHTHYES

Acipenseriformes

<i>Acipenser ruthenus</i> (VU)	Sterlet	5	-	-	-	1	-	4
<i>Scaphirhynchus platyrhynchus</i> (VU)	Shovelnose Sturgeon	2	-	-	-	-	-	2
<i>Polyodon spathula</i> (VU)	Paddlefish	8	3	-	-	2	-	9

Amiiformes

<i>Amia cava</i>	Bowfin	2	-	-	-	1	-	1
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Anguilliformes

<i>Anguilla anguilla</i>	Common Eel	1	-	-	-	1	-	-
<i>Conger conger</i>	Conger Eel	3	-	-	-	1	-	2
<i>Echidna zebra</i>	Zebra Moray Eel	5	-	-	-	-	-	5
<i>Gymnothorax fuvagineus</i>	Leopard Moray Eel	2	-	-	-	-	-	2

Atheriniformes

<i>Bedotia grayi</i>	Madagascar Rainbowfish	7	32	-	-	1	-	38
<i>Glossogobius aureus</i> (VU)	Metallic Rainbowfish	13	-	-	-	2	-	11
<i>Melanotaenia maculata</i>	McCulloch's Rainbowfish	1	-	-	-	1	-	-
<i>Melanotaenia boesemani</i> (EN)	Boesemani's Rainbowfish	2	-	-	-	-	-	2
<i>Telmatherina ladigesi</i> (VU)	Salawesi Rainbowfish	-	10	-	-	-	-	10

Belontiiformes

<i>Dermogenys pusillus</i>	Malayan Halfbeak	1	-	-	-	1	-	-
<i>Nomorhamphus ebrardii</i>	Salawesi Halfbeak	27	-	nr	nr	-	-	27
<i>Nomorhamphus leini leini</i>	Salawesi Halfbeak	-	5	-	-	-	-	5

Beryciformes

<i>Myripristis murdjan</i>	Bronze Soldierfish	1	-	-	-	-	-	1
<i>Myripristis murdjan</i>	Blackbar Soldierfish	4	-	-	-	-	-	4
<i>Myripristis murdjan</i>	Red Soldierfish	3	-	-	-	1	-	2
<i>Sargocentron diadema</i>	Clown Squirrelfish	2	-	-	-	1	-	1
<i>Sargocentron rubrum</i>	Redcoat Squirrelfish	2	-	-	-	-	-	2

Characiformes

<i>Astyanax mexicanus</i> (VU)	Blind Cavefish	22	-	-	-	1	-	21
<i>Hemigrammus bleheri</i>	Rummy-nose Tetra	1	-	-	-	1	-	-
<i>Hemigrammus erythrozonus</i>	Glowlight Tetra	8	-	-	-	7	-	1
<i>Hyphessobrycon herbertaxelrodi</i>	Black Neon Tetra	9	-	-	-	9	-	-
<i>Hyphessobrycon pulchripinnis</i>	Lemon Tetra	6	-	-	-	6	-	-
<i>Hyphessobrycon serpa</i>	Serpa Tetra	3	-	-	-	3	-	-
<i>Parachanna mustinensis</i>	Neon Tetra	3	-	-	-	3	-	-
<i>Protella maculata</i>	X-ray Tetra	13	-	-	-	6	-	7
<i>Gymnocorymbus ternetzi</i>	Black Widow Tetra	24	-	-	-	1	-	23
<i>Myzoxiphus argenteus</i>	Silver Dollar	2	-	-	-	-	-	2
<i>Serranodon nattereri</i>	Red-bellied Piranha	-155	-	-	-	105	25	25
<i>Triportheus angulatus</i>	Narrow Hatchetfish	6	-	-	-	-	-	6
<i>Hasemania nana</i>	Silver-tipped Tetra	18	-	-	-	12	-	6

Cypriniformes

<i>Myxocyprinus asiaticus</i>	Chinese Sailfin Sucker	9	-	-	-	2	-	7
<i>Betta splendens</i>	Tiger Betta	2	-	-	-	2	-	-
<i>Betta splendens</i>	Clown Loach	4	-	-	-	-	-	4
<i>Betta splendens</i>	Red-finned Betta	2	-	-	-	-	-	2
<i>Betta splendens</i>	Chain Loach	8	-	-	-	1	-	7
<i>Leptobotia mantschurica</i>	Manchurian Loach	1	-	-	-	1	-	-
<i>Acheilognathus micropterus</i>	Asian Bitterling	4	-	-	-	2	-	2
<i>Barbus barbus</i>	Barbel	3	-	-	-	-	-	3
<i>Barbus haasi</i>	Two-spot Barb	12	-	-	-	4	-	8
<i>Capoeta aurata</i>	Aras Barb	9	-	-	-	2	-	7
<i>Capoeta olgolepis</i>	Checker Barb	7	-	-	-	7	-	-
<i>Capoeta semilunulata</i>	Chinese Green Barb	5	-	-	-	4	-	1
<i>Capoeta tetrasoma</i>	Tiger Barb	3	-	-	-	3	-	-

		1	2	3	4	5	6	7
<i>Capoeta tatei</i>	Cherry Barb	2	-	-	-	1	-	1
<i>Carassius auratus</i>	Goldfish	12	-	-	-	8	4	-
<i>Ctenopharyngodon idella</i>	Grass Carp	5	-	-	-	-	5	-
<i>Cyprinus carpio</i>	Carp - Koi, mirror, etc.	-49	-	-	-	6	-	-43
<i>Epplatystichus stamensis</i>	Flying Fox	1	-	-	-	1	-	-
<i>Garra</i> sp.	Chinese Loach	3	-	-	-	3	-	-
<i>Gobio gobio</i>	Gudgeon	2	-	-	-	-	2	-
<i>Hypophthalmichthys molitrix</i>	Silver Carp	3	-	-	-	-	3	-
<i>Leuciscus cephalus</i>	Chub	8	-	-	-	-	8	-
<i>Leuciscus idus</i>	Idle or Orfe	10	-	-	-	-	10	-
<i>Leuciscus leuciscus</i>	Dace	-	1	-	-	-	1	-
<i>Phoxinus phoxinus</i>	Minnow	4	20	nr	-	nr	-	-30
<i>Pseudorasbora parva</i>	Clicking Barb	10	-	-	-	-	10	-
<i>Rasbora borapetensis</i>	Red-tailed Rasbora	10	-	-	-	4	-	6
<i>Rasbora elegans</i>	Elegant Rasbora	12	-	-	-	5	-	7
<i>Rasbora heteromorphus</i>	Harlequin Rasbora	18	-	-	-	13	-	5
<i>Rutilus rutilus</i>	Roach	6	-100	-	-	-50	-	-56
<i>Scardinius erythrophthalmus</i>	Rudd	-50	-	-	-	-	-	-50
<i>Tinca tinca</i>	Tench	>26	-	-	-	nr	-	>24
<i>Zacco</i> sp.	Zacco	1	-	-	-	1	-	-
<i>Notropis lutrensis</i>	Red Shiner	6	-	-	-	6	-	-

Cyprinodontiformes

<i>Ameletus splendens</i> (EW)	Butterfly Goodeid	-160	-	nr	-	nr	35(35)	-100
<i>Pachypanchax omalonotus</i>	Madagascar Killifish	22	-	6	-	1	8(8)	19
<i>Oryzias latipes</i> S	Salawesi Medaka	-	10	-	-	-	-	10
<i>Poecilia nigrofasciata</i>	Black-barred Limia	-160	-	nr	-	nr	-	-50
<i>Poecilia reticulata</i>	Guppy	1 col.	-	nr	-	nr	-	-500
<i>Poecilia reticulata</i> (wild form)	Pitch-lake Guppy	-620	-	nr	-	nr	-	-100
<i>Zoogoneticus tequila</i>	Crescent Zoe	-	17	-	-	4	-	13
<i>Anableps anableps</i>	Four-eyed Fish	-	25	-	-	-	-	25

Gadiformes

<i>Trisopterus luscus</i>	Bib	15	-	-	-	15	-	-
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Gasterosteiformes

<i>Gasterosteus aculeatus</i>	Three-spined Stickleback	-75	-	nr	-	nr	7	-60
<i>Nerophis ophidion</i>	Worm Pipefish	7	-	-	-	7	-	-
<i>Syngnathus acus</i>	Greater Pipefish	11	-	-	-	10	-	1
<i>Dorhamphus melanomelanus</i>	Candy Pipefish	-	10	-	-	6	-	0/0/4
<i>Hippocampus capensis</i> (EN)	Kynasa Seahorse	36	-	817	91	26	-	736
<i>Hippocampus kuda</i> (VU)	Yellow Seahorse	4	20	-210	10	192	23	9
<i>Hippocampus reidi</i> (VU)	Slender Seahorse	-	302	-	-	-299	-	3
<i>Hippocampus ingens</i> (VU)	Pacific Seahorse	-	4	-	-	4	-	-
<i>Entelurus aequoreus</i>	Snake Pipefish	1	-	-	-	1	-	-

Gymnotiformes

<i>Electrophorus electricus</i>	Electric Eel	1	-	-	-	-	-	1
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Lepisosteiformes

<i>Lepisosteus oculatus</i>	Spotted Gar	2	7	-	-	1	-	8
<i>Lepisosteus platyrhynchus</i>	Florida Gar	2	-	-	-	-	-	2
<i>Lepisosteus platostomus</i>	Shortnose Gar	1	-	-	-	-	-	1

Osteoglossiformes

<i>Notopterus chitala</i>	Clown Knife Fish	3	-	-	-	-	3	-
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Perciformes

<i>Naso lituratus</i>	Lipstick Tang	1	-	-	-	-	-	1
<i>Paracanthurus hepatus</i>	Regal Tang	3	7	-	-	1	-	9
<i>Zebrafish</i>	Yellow Sailfin Tang	1	2	-	-	-	-	3
<i>Ctenopoma kingletiae</i>	Kinglet's Climbing Perch	3	-	-	-	1	-	2
<i>Apogon niger</i>	Pygmy Cardinal	3	-	-	-	-	-	3
<i>Pteropogon kauderni</i>	Indonesian Banggai Cardinal Fish	21	-	-	-	4	-	17

		1	2	3	4	5	6	7
<i>Belontiopsis signata</i>	Combtail	13	-	-	-	5	-	8
<i>Betta splendens</i>	Siamese Fighting Fish	1	-	-	-	1	-	-
<i>Trichogaster trichogaster</i>	Three-spot Gourami	5	-	-	-	-	5	-
<i>Leopodogaster</i> sp.	Shore-Clingfish/Cornish Sucker	-	2	-	-	-	-	2
<i>Melacanthus onalensis</i>	Canary Blenny	6	-	-	-	3	-	3
<i>Salarias fasciatus</i>	Algae Blenny	-	2	-	-	2	-	-
<i>Blennius gattorugine</i>	Tompot Blenny	3	6	-	-	7	-	2
<i>Lipophrys pholis</i>	Shanny	20	6	-	-	18	-	8
<i>Gobiodon citrinus</i>	Saffron Goby	3	-	-	-	3	-	-
<i>Pomatoschistus microps</i>	Common Goby	15	-	-	-	7	-	8
<i>Gobius niger</i>	Black Goby	14	-	-	-	4	-	10
<i>Gobius paganelius</i>	Rock Goby	22	-	-	-	8	-	14
<i>Ptereleotris evides</i>	Torpedo Goby	3	-	-	-	-	-	3
<i>Nemateleotris magnifica</i>	Fire Goby	-	1	-	-	1	-	-
<i>Valenciennia puellaria</i>	Orange-spot Goby	-	5	-	-	2	-	3
<i>Valenciennia strigata</i>	Blue-cheeked Goby	-	2	-	-	-	-	2
<i>Gobiusculus flavescens</i>	Two-spot Goby	-	2	-	-	-	-	2
<i>Pomatoschistus minutus</i>	Sand Goby	-	6	-	-	-	-	6
<i>Periophthalmus</i> sp.	Mudskipper	5	-	-	-	1	3	1
<i>Ctenolabrus rupestris</i>	Goldsinny Wrasse	24	-	-	-	7	-	17
<i>Lahroides dimidiatus</i>	Cleaner Wrasse	1	1	-	-	-	-	2
<i>Labrus bergilta</i>	Ballan Wrasse	15	-	-	-	10	-	5
<i>Labrus mixtus</i>	Cuckoo Wrasse	5	-	-	-	2	-	3
<i>Pseudocheilodactylus hexataenia</i>	Pyjama Wrasse	1	-	-	-	-	-	1
<i>Symphodus melops</i>	Corkwing Wrasse	29	-	-	-	25	-	4
<i>Pterapogon kauderni</i>	Mandarin Fish	1	4	-	-	1	-	4
<i>Syngnathus picturatus</i>	Spotted Mandarin	-	2	-	-	1	-	1
<i>Lo xiphioides</i>	Foxface	-	1	-	-	-	-	1
<i>Lepomis gibbosus</i>	Pumpkinseed	7	18	-	-	4	-	21
<i>Lepomis gibbosus</i>	Warmouth Bass	1	-	-	-	1	-	-
<i>Lepomis megalotis</i>	Long-eared Sunfish	3	-	-	-	-	-	3
<i>Siniperca chuatsi</i>	Chinese Perch	3	-	-	-	-	-	3
<i>Chaetodon falcula</i>	Falcula Butterflyfish	1	-	-	-	-	-	1
<i>Chelmon rostratus</i>	Coppertand Butterflyfish	1	6	-	-	6	-	1
<i>Hemirhamphus unimaculatus</i>	Wimble or Bannerfish	4	-	-	-	-	-	4
<i>Chromidotilapia guentheri</i>	Guenther's Mouthbrooder	6	-	-	-	-	6	-
<i>Cyphotilapia frontosa</i>	Blue-banded Cichlid	4	-	-	-	-	-	4
<i>Julidochromis regani</i>	Striped Julie	23	-	nr	-	nr	-	-50
<i>Labetotropheus fuelleborni</i>	Red-top Cichlid	111	-	nr	-	nr	10	-200
<i>Pygocentrus nattereri</i>	Malagasy Cichlid	11	-	-	-	-	-	11
<i>Neochromis greenwoodi</i>	Velvet Black							
	Lake Victoria Cichlid	121	10(10)	10	-	nr	-	-100
<i>Lipochromis melanopeus</i> (CR)	Black-finned Fula	-	60	-	-	-	48	12
<i>Sarotherodon</i> sp. (CR)	Barombi Mbo Cichlid	-	40	-	-	-	-	40
<i>Stomatepia</i> sp. (CR)	Barombi Mbo Cichlid	-	42	-	-	4	20(20)	18
<i>Melanochromis johanni</i>	Johanni Cichlid	3	6	nr	-	nr	-	27
<i>Melanochromis chipokee</i>	Mbuna Cichlid	4	-	-	-	-	-	4
<i>Nimbochromis venustus</i>	Lake Malawi Cichlid	8	-	6	-	-	-	14
<i>Nimbochromis livingstoni</i>	Lake Malawi Cichlid	-	6	nr	-	nr	-	5
<i>Neolamprologus brichardi</i>	Lyretail Lamprologus	-130	-	nr	-	nr	-	-100
<i>Neolamprologus leleupi</i>	Golden Lamprologus	7	-	-	-	-	-	7
<i>Pseudocrenilabrus multicolor</i>	Egyptian Mouthbrooder	6	-	-	-	-	6	-
<i>Pseudotropheus zebra</i>	Zebra Mbuna	28	-	nr	-	nr	-	-150
<i>Pterophyllum scalare</i>	Angel Fish	15	-	-	-	8	7	-
<i>Centropomus ensifer</i>	Rock Cook	18	-	-	-	12	-	6
<i>Bodianus niger</i>	Spanish Hogfish	1	-	-	-	-	-	1
<i>Danio rerio</i>	Molly	2	-	-	-	-	2	-
<i>Danio rerio</i>	Molly	17	-	-	-	1	-	16
<i>Danio rerio</i>	Molly	27	-	-	-	13	-	14
<i>Danio rerio</i>	Molly	2	-	-	-	2	-	-
<i>Danio rerio</i>	Molly	10	25	-	-	29	-	6
<i>Danio rerio</i>	Molly	1	-	-	-	-	-	1
<i>Danio rerio</i>	Molly	1	-	-	-	-	-	1
<i>Danio rerio</i>	Molly	1	-	-	-	-	-	1

		1	2	3	4	5	6	7
<i>Amphiprion akindynos</i>	Australian Clownfish	2	-	-	-	-	-	2
<i>Amphiprion frenatus</i>	Tomato Clownfish	-	4	-	-	1	-	3
<i>Amphiprion ocellaris</i>	False Clownfish	2	8	-	-	-	-	10
<i>Chromis viridis</i>	Blue-green Chromis	25	2	-	-	-	-	27
<i>Dascyllus marginatus</i>	Margined Damselfish	1	-	-	-	-	-	1
<i>Dascyllus melanurus</i>	Black-tailed Humbug	3	-	-	-	-	-	3
<i>Dascyllus trimaculatus</i>	Domino/Three Spot Damselfish	2	-	-	-	2	-	-
<i>Pomacentrus alleni</i>	Neon Damselfish	9	-	-	-	1	-	8
<i>Pomacentrus pavo</i>	Blue Damselfish	-	1	-	-	-	-	1
<i>Gramma loreto</i>	Royal Gramma	-	1	-	-	-	-	1
<i>Aristostomus virginicus</i>	Porkfish	-	1	-	-	-	-	1
<i>Premnas biaculeatus</i>	Maroon Clownfish	2	-	-	-	1	-	1
<i>Pseudochromis diadematus</i>	Purple Flashback	1	-	-	-	-	-	1
<i>Archamia squamipinnis</i>	Lyretail Corallfish	3	-	-	-	-	-	3
<i>Cephalopholis minckleyi</i>	Red Grouper	1	-	-	-	-	-	1
<i>Cromileptes altivelis</i>	Polkadot Grouper/Pantherfish	2	-	-	-	-	-	2
<i>Serranus tigrinus</i>	Harlequin Bass	1	-	-	-	1	-	-
<i>Serranus tortuosus</i>	Chalk Bass	2	1	-	-	1	-	2
<i>Spanus auratus</i>	Gilthead Bream	8	-	-	-	3	-	5
<i>Spondyliotoma cantharus</i>	Black Sea Bream	10	-	-	-	4	-	6
<i>Toxotes jaculator</i>	Archerfish	4	-	-	-	-	4	-

Pleuronectiformes

<i>Pleuronectes platessa</i>	Plaice	8	-	-	-	8	-	-
<i>Limanda limanda</i>	Dab	1	-	-	-	1	-	-
<i>Solea solea</i>	Sole	3	-	-	-	3	-	-

Polypteriformes

<i>Polypterus bichir</i>	Polypterus	2	-	-	-	-	-	2
<i>Polypterus palmas</i>	Polypterus	1	-	-	-	-	-	1
<i>Polypterus retropinnis</i>	Polypterus	2	-	-	-	-	-	2
<i>Polypterus senegalus</i>	Polypterus	1	-	-	-	-	-	1
<i>Polypterus weekii</i>	Polypterus	1	-	-	-	-	-	1

Salmoniformes

<i>Exocoetidae</i>	Pike	1	-	-	-	-	-	1
<i>Oncorhynchus mykiss</i>	Rainbow Trout	12	-	-	-	7	-	5
<i>Salmo trutta</i>	Brown Trout	-	6	-	-	4	-	2
<i>Thyallanus thysallanus</i>	Grayling	-	7	-	-	-	-	7

Scorpaeniformes

<i>Trigla lucerna</i>	Tub Gurnard	6	-	-	-	2	-	4
<i>Hypodytes rubripinnis</i>	Velvet Waspfish	1	1	-	-	-	-	2
		1	2	3	4	5	6	7

Tauridae

<i>Taurulus bubalis</i>	Sea Scorpion	-	10	-	-	10	-	-
<i>Pterois volitans</i>	Dragonfish	3	-	-	-	1	-	2

Siluriformes

<i>Pelteobagrus brachius</i>	Amur Dragon Catfish	5	-	-	-	-	-	5
<i>Corydoras aeneus</i>	Bronze Catfish	7	-	-	-	3	-	4
<i>Corydoras elegans</i>	Elegant Corydoras	5	-	-	-	-	-	5
<i>Corydoras haraldschultzei</i>	Corydoras	4	-	-	-	-	-	4
<i>Corydoras nattereri</i>	Blue Catfish	3	-	-	-	1	-	2
<i>Corydoras paleatus</i>	Peppered Catfish	17	-	-	-	-	-	17
<i>Corydoras trilineatus</i>	Leopard Catfish	1	-	-	-	-	-	1
<i>Corydoras undulatus</i>	Wavy Catfish	8	-	-	-	-	-	8
<i>Agamyx pectinifrons</i>	Spotted Doras Catfish	1	-	-	-	-	-	1
<i>Heteropneustes fossilis</i>	Stinging Catfish	2	-	-	-	1	1	-
<i>Ameiurus nebulosus</i>	Brown Bullhead Catfish	1	-	-	-	1	-	-
<i>Ancistrus sp.</i>	Bristle-nosed Catfish	1	-	-	-	-	-	1
<i>Otocinclus affinis</i>	Dwarf Sucker Catfish	5	-	-	-	-	-	5
<i>Pterygoplichthys gibbiceps</i>	Sailfin Plecostomus	6	-	-	-	-	-	6
<i>Synodontis angelicus</i>	African Spotted Catfish	1	-	-	-	-	-	1
<i>Synodontis chloris</i>	Red-tailed Synodontis	1	-	-	-	-	-	1

<i>Stylophora pallidula</i>	Hard Coral	2	-	-	-	nr	0/0/2	C/N
<i>Seriatophora hystrix</i>	Hard Coral	1	-	-	-	nr	0/0/1	C/N
<i>Pavona decussata</i>	Hard Coral	1	-	-	-	nr	0/0/1	C/N
<i>Hydnophora sp.</i>	Hard Coral	1	-	-	-	nr	0/0/1	C/N
<i>Zoanthid sp.</i>	Zoanthid	4	nr	nr	-	nr	0/0/4	C/N

ECHINODERMATA

<i>Diadema setosum</i>	Long-spined Sea Urchin	16	-	15	-	nr	0/0/8	1/D
<i>Protoreaster lanki</i>	Crimson-knobbed Starfish	-	-	1	-	-	0/0/1	1/D
<i>Ophiomastix janualis</i>	Brittle Star	8	nr	nr	-	nr	0/0/8	1/N
<i>Ophiuraster incrustatus</i>	Green Brittlestar	1	-	1	-	-	-	1/N
<i>Asteria gibbosa</i>	Cushion Star	10	nr	nr	-	nr	0/0/12	1/N
<i>Pseudocolchirus violaceus</i>	Sea Apple	2	nr	nr	-	nr	0/0/2	1/N
<i>Paracucumaria sp.</i>	Candy Cucumber	2	-	-	-	nr	0/0/2	1/N
<i>Holothuria atra</i>	Black Sea Cucumber	1	-	-	-	nr	0/0/1	1/N

ANNELIDA

<i>Hirudinea</i>								
<i>Hirudo medicinalis</i> (RT)	Medicinal Leech	20	-	5	-	nr/1	0/0/16	1/M

Polychaeta

<i>Sabella pavona</i> Feather	Duster Worm	6	nr	nr	-	-	-	1/N
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MOLLUSCA

Gastropoda								
(figures reported for <i>Pantala</i> , <i>Samoa</i> , <i>Diplomorpha</i> and <i>Trichomorpha</i> species are for the end of the year only)								
<i>Berghia verucornis</i>	Nudibranch	8	-	-	-	5	0/0/3	1/N
<i>Euglandina rosea</i>	Predatory Snail	-	-	31	-	-	-	1/D
<i>Pachnodus fregatensis</i>	Fregate Island Enid Snail	19	nr	nr	-	nr/200	0/0/14	1/B
<i>Pomacea pallidosa</i>	Apple Snail	-	nr	nr	-	nr/30	0/0/39	1/B
<i>Achatina achatina</i>	Giant Land Snail	17	-	-	-	nr	0/0/17	1/M
<i>Achatina fulica</i>	Giant Land Snail	-	-	79	20	nr	0/0/18	1/M
<i>Archachatina marginata</i>	West African Giant Land Snail	5	-	3	-	nr	0/0/13	1/M
<i>Strophochelone oblongus</i>	Mega Snail	-	-	1	-	-	0/0/2	1/M
<i>Pantala affinis</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/426	0/0/182	1/M
<i>Pantala clara</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/62	0/0/72	1/D
<i>Pantala dentifera</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/78	0/0/58	1/M
<i>Pantala faba</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/16	0/0/13	1/B
<i>Pantala gibba</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/6	0/0/14	1/M
<i>Pantala hebe bella</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/9	0/0/5	1/M
<i>Pantala hyalina</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/8	0/0/18	1/M
<i>Pantala labrusca</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/31	0/0/28	1/N
<i>Pantala lirata</i> Fijian	Tree Snail	-	-	-	-	na/50	0/0/79	1/N
<i>Pantala mirabilis</i>	Polynesian Tree Snail	-	-	-	-	na/	0/0/4	1/D
<i>Pantala mirabilis x taeniata</i>	Polynesian Tree Snail hybrid	-	-	-	-	na/32	0/0/65	1/B
<i>Pantala mooreana</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/4	0/0/5	1/M
<i>Pantala nodosa</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/	0/0/2	1/D
<i>Pantala otahitana</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/6	0/0/5	1/D
<i>Pantala radiolata</i> (CR)	Guam Tree Snail	-	-	-	-	na/1	-	1/D
<i>Pantala rosea</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/81	0/0/132	1/M
<i>Pantala saturata strigosa</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/127	0/0/185	1/B
<i>Pantala saturata vexillum</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/4	0/0/3	1/M
<i>Pantala saturata mixed sp.</i>	Polynesian Tree Snail	-	-	-	-	na/8	0/0/11	1/N
<i>Pantala taeniata simulans</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/77	0/0/120	1/B
<i>Pantala tobiensis</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/44	0/0/36	1/B
<i>Pantala tristis</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/6	0/0/1	1/N
<i>Pantala turneri</i>	Vanuatu Tree Snail	-	-	-	-	na/33	0/0/53	1/D
<i>Pantala varia</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/1	0/0/3	1/M
<i>Pantala sp.</i>	Polynesian Tree Snail	-	-	-	-	-	-	1/D
<i>Samoa attenuata</i> (EN)	Marquesan Tree Snail	-	-	-	-	-	-	1/D
<i>Samoa bellula</i>	Marquesan Tree Snail	-	-	-	-	-	-	1/D
<i>Samoa garymedes</i>	Marquesan Tree Snail	-	-	-	-	na/1	0/0/3	1/D
<i>Diplomorpha delatouri</i>	Vanuatu Snail	-	-	-	-	nr/1	0/0/3	1/D
<i>Trichomorpha sp.</i>	Tahitian Trichomorph Snail	-	-	-	-	nr/	0/0/2	1/M

		1	2	3	4	5	6	7
<i>Synodontis multipunctatus</i>	Cuckoo Catfish	1	-	-	-	-	-	1
<i>Synodontis sp.</i>	Synodontis	3	-	-	-	-	-	3

Tetradontiformes

<i>Ballistodes conspicillatus</i>	Clown Triggerfish	-	1	-	-	-	-	1
<i>Rhinecanthus assasi</i>	Arabian Picasso Triggerfish	1	-	-	-	-	-	1
<i>Arothron sp.</i>	Small Spotted Pufferfish	1	-	-	-	-	-	1
<i>Arothron diadematus</i>	Masked Pufferfish	1	-	-	-	-	1	-
<i>Arothron stellatus</i>	Spotted Pufferfish	1	-	-	-	-	-	1
<i>Arothron nigropunctatus</i>	Black Spotted Pufferfish	2	-	-	-	1	1	-
<i>Arothron mappa</i>	Scribbled Toadfish	1	-	-	-	-	1	-

CHONDRICHTHYES

Carcharhiniformes

<i>Carcharhinus melanopterus</i>	Black-tipped Reef Shark	2	-	-	-	-	-	2
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Lamniformes

<i>Squalorhynchus canalicula</i>	Spotted Dogfish	8	-	-	-	8	-	-
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Rajiformes

<i>Potamotrygon sp.</i>	Freshwater Stingray	2	-	-	-	-	2	-
<i>Raja clavata</i>	Thornback Ray	3	-	-	-	3	-	-
<i>Raja undulata</i>	Spotted Ray	1	-	-	-	1	-	-
<i>Raja macrocellata</i>	Painted Ray	2	-	-	-	2	-	-

Total: Fishes		2909	871(10)	1055	101	1117	233(63)	3312
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INVERTEBRATES

Key to columns:								
column 1	Arrivals							
column 2	Births/Hatchlings							
column 3	Deaths							
column 4	Departures							
column 5	Number at end of year of Eggs/Young (na=not applicable, nr=not recorded)							
column 6	Number at end of year of Adult Males/Adult Females/Adults of unknown gender or without gender, or number of colonies							
column 7	Count Unit: 1=Adult numbers represent exact number of individuals. Young and Eggs may be estimated. A=All numbers are approximate. C=Numbers represent exact number of colonies							
column 8	Population Status: M=Maintaining. B=Breeding. D=Declining. N=Newly acquired species. nr=Not recorded. na=Not applicable.							

CNIDARIA

		1	2	3	4	5	6	7/8
Scyphozoa								
<i>Cassiopea sp.</i>	Upside-down Jellyfish	25	nr	nr	-	nr/	0/0/13	1/M
<i>Aurelia aurita</i>	Moon Jellyfish	400	-	nr	-	nr/400	-	A/N
Anthozoa								
<i>Alcyonium sp.</i>	Snakelocks Anemone	11	nr	nr	-	nr	0/0/13	A/N
<i>Actinia equina</i>	Beadlet Anemone	20	nr	nr	-	nr	0/0/67	A/N
<i>Metridium sp.</i>	Phanose Anemone	3	nr	nr	-	nr	0/0/3	A/N
<i>Stichodactyla heddoni</i>	Carpet Anemone	2	nr	2	-	-	-	1/N
<i>Stichodactyla giganteum</i>	Carpet Anemone	3	-	-	-	-	0/0/4	1/M
<i>Ertacoma quadricolor</i>	Bull-tentacled Sea Anemone	1	-	1	-	-	-	1/N
<i>Heteractis sebastes</i>	Tropical Anemone	1	nr	1	-	-	-	1/N
<i>Heteractis crispus</i>	Sand Anemone	3	nr	1	-	nr	0/0/2	1/N
<i>Sundaria brassica</i>	Soft Coral	9	-	-	-	nr	0/0/9	C/N
<i>Dissotisoma sp.</i>	Mushroom Polyp	22	nr	nr	-	nr	0/0/22	C/N
<i>Pocillopora damicornis</i>	Hard Coral	1	-	-	-	nr	0/0/1	C/N

		1	2	3	4	5	6	7/8
<i>Littorina normalis</i>	Tahitian Tree Snail	-	-	-	-	nr/7	0/0/2	1/M
<i>Astruc tectum</i>	Super Turbo Snail	66	nr	nr	-	nr	0/0/65	A/M
<i>Turbo castaneus</i>	Turbo Snail	67	-	nr	-	-	0/0/65	A/N
<i>Planorbis</i> sp.	Ramshorn Snail	20	nr	nr	-	nr	0/0/10	1/M
<i>Lymnaea</i> sp.	Pond Snail	50	nr	nr	-	nr	0/0/50	1/M
<i>Littorina littorea</i>	Periwinkle	30	nr	nr	-	nr	0/0/30	1/M

		1	2	3	4	5	6	7
<i>Amphiprion akindynos</i>	Australian Clownfish	2	-	-	-	-	-	2
<i>Amphiprion frenatus</i>	Tomato Clownfish	-	4	-	-	1	-	3
<i>Amphiprion ocellaris</i>	False Clownfish	2	8	-	-	-	-	10
<i>Chromis viridis</i>	Blue-green Chromis	25	2	-	-	-	-	27
<i>Dascyllus marginatus</i>	Margined Damselfish	1	-	-	-	-	-	1
<i>Dascyllus melanurus</i>	Black-tailed Humbug	3	-	-	-	-	-	3
<i>Dascyllus trimaculatus</i>	Domino/Three Spot Damselfish	2	-	-	-	2	-	-
<i>Pomacentrus alleni</i>	Neon Damselfish	9	-	-	-	1	-	8
<i>Pomacentrus pavo</i>	Blue Damselfish	-	1	-	-	-	-	1
<i>Gramma loreto</i>	Royal Gramma	-	1	-	-	-	-	1
<i>Aristostomus virginicus</i>	Porkfish	-	1	-	-	-	-	1
<i>Premnas biaculeatus</i>	Maroon Clownfish	2	-	-	-	1	-	1
<i>Pseudochromis diadematus</i>	Purple Flashback	1	-	-	-	-	-	1
<i>Archamia squamipennis</i>	Lyretail Corallfish	3	-	-	-	-	-	3
<i>Cephalopholis minckleyi</i>	Red Grouper	1	-	-	-	-	-	1
<i>Cromileptes altivelis</i>	Polkadot Grouper/Pantherfish	2	-	-	-	-	-	2
<i>Serranus tigrinus</i>	Harlequin Bass	1	-	-	-	1	-	-
<i>Serranus tortuosus</i>	Chalk Bass	2	1	-	-	1	-	2
<i>Spanus auratus</i>	Gilthead Bream	8	-	-	-	3	-	5
<i>Spondyliotoma cantharus</i>	Black Sea Bream	10	-	-	-	4	-	6
<i>Toxotes jaculator</i>	Archerfish	4	-	-	-	-	4	-

Pleuronectiformes

<i>Pleuronectes platessa</i>	Plaice	8	-	-	-	8	-	-
<i>Limanda limanda</i>	Dab	1	-	-	-	1	-	-
<i>Solea solea</i>	Sole	3	-	-	-	3	-	-

Polypteriformes

<i>Polypterus bichir</i>	Polypterus	2	-	-	-	-	-	2
<i>Polypterus palmas</i>	Polypterus	1	-	-	-	-	-	1
<i>Polypterus retropinnatus</i>	Polypterus	2	-	-	-	-	-	2
<i>Polypterus senegalus</i>	Polypterus	1	-	-	-	-	-	1
<i>Polypterus weekii</i>	Polypterus	1	-	-	-	-	-	1

Salmoniformes

<i>Exocoetidae</i>	Pike	1	-	-	-	-	-	1
<i>Oncorhynchus mykiss</i>	Rainbow Trout	12	-	-	-	7	-	5
<i>Salmo trutta</i>	Brown Trout	-	6	-	-	4	-	2
<i>Thyallanus thyallanus</i>	Grayling	-	7	-	-	-	-	7

Scorpaeniformes

<i>Trigla lucerna</i>	Tub Gurnard	6	-	-	-	2	-	4
<i>Hypodytes rubripinnis</i>	Velvet Waspfish	1	1	-	-	-	-	2
		1	2	3	4	5	6	7

Tauridae

<i>Taurulus bubalis</i>	Sea Scorpion	-	10	-	-	10	-	-
<i>Pterois volitans</i>	Dragonfish	3	-	-	-	1	-	2

Siluriformes

<i>Pelteobagrus brachius</i>	Amur Dragon Catfish	5	-	-	-	-	-	5
<i>Corydoras aeneus</i>	Bronze Catfish	7	-	-	-	3	-	4
<i>Corydoras elegans</i>	Elegant Corydoras	5	-	-	-	-	-	5
<i>Corydoras haraldschultzei</i>	Corydoras	4	-	-	-	-	-	4
<i>Corydoras nattereri</i>	Blue Catfish	3	-	-	-	1	-	2
<i>Corydoras paleatus</i>	Peppered Catfish	17	-	-	-	-	-	17
<i>Corydoras trilineatus</i>	Leopard Catfish	1	-	-	-	-	-	1
<i>Corydoras undulatus</i>	Wavy Catfish	8	-	-	-	-	-	8
<i>Agamyx pectinifrons</i>	Spotted Doras Catfish	1	-	-	-	-	-	1
<i>Heteropneustes fossilis</i>	Stinging Catfish	2	-	-	-	1	1	-
<i>Ameiurus nebulosus</i>	Brown Bullhead Catfish	1	-	-	-	1	-	-
<i>Ancistrus sp.</i>	Bristle-nosed Catfish	1	-	-	-	-	-	1
<i>Otocinclus affinis</i>	Dwarf Sucker Catfish	5	-	-	-	-	-	5
<i>Pterygoplichthys gibbiceps</i>	Sailfin Plecostomus	6	-	-	-	-	-	6
<i>Synodontis angelicus</i>	African Spotted Catfish	1	-	-	-	-	-	1
<i>Synodontis chloris</i>	Red-tailed Synodontis	1	-	-	-	-	-	1

<i>Stylophora pallidula</i>	Hard Coral	2	-	-	-	nr	0/0/2	C/N
<i>Seriatophora hystrix</i>	Hard Coral	1	-	-	-	nr	0/0/1	C/N
<i>Pavona decussata</i>	Hard Coral	1	-	-	-	nr	0/0/1	C/N
<i>Hydnophora sp.</i>	Hard Coral	1	-	-	-	nr	0/0/1	C/N
<i>Zoanthid sp.</i>	Zoanthid	4	nr	nr	-	nr	0/0/4	C/N

ECHINODERMATA

<i>Diadema septosum</i>	Long-spined Sea Urchin	16	-	15	-	nr	0/0/8	I/D
<i>Protoreaster lanki</i>	Crimson-knobbed Starfish	-	-	1	-	-	0/0/1	I/D
<i>Ophiomastix janualis</i>	Brittle Star	8	nr	nr	-	nr	0/0/8	I/N
<i>Ophiuraster inermis</i>	Green Brittlestar	1	-	1	-	-	-	I/N
<i>Asteria gibbosa</i>	Cushion Star	10	nr	nr	-	nr	0/0/12	I/N
<i>Pseudocolchirus violaceus</i>	Sea Apple	2	nr	nr	-	nr	0/0/2	I/N
<i>Paracucumaria sp.</i>	Candy Cucumber	2	-	-	-	nr	0/0/2	I/N
<i>Holothuria atra</i>	Black Sea Cucumber	1	-	-	-	nr	0/0/1	I/N

ANNELIDA

<i>Hirudinea</i>								
<i>Hirudo medicinalis</i> (RT)	Medicinal Leech	20	-	5	-	nr/1	0/0/16	I/M

Polychaeta

<i>Sabella pavona</i> Feather	Duster Worm	6	nr	nr	-	-	-	I/N
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MOLLUSCA

Gastropoda								
(figures reported for <i>Pantala</i> , <i>Samoa</i> , <i>Diplomorpha</i> and <i>Trichomorphus</i> species are for the end of the year only)								
<i>Berghia verucornis</i>	Nudibranch	8	-	-	-	5	0/0/3	I/N
<i>Euglandina rosea</i>	Predatory Snail	-	-	31	-	-	-	I/D
<i>Pachnodus fregatensis</i>	Fregate Island Enid Snail	19	nr	nr	-	nr/200	0/0/14	I/B
<i>Pomacea pallidosa</i>	Apple Snail	-	nr	nr	-	nr/30	0/0/39	I/B
<i>Achatina achatina</i>	Giant Land Snail	17	-	-	-	nr	0/0/17	I/M
<i>Achatina fulica</i>	Giant Land Snail	-	-	79	20	nr	0/0/18	I/M
<i>Archachatina marginata</i>	West African Giant Land Snail	5	-	3	-	nr	0/0/13	I/M
<i>Strophochelone oblongus</i>	Mega Snail	-	-	1	-	-	0/0/2	I/M
<i>Pantala affinis</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/426	0/0/182	I/M
<i>Pantala clara</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/62	0/0/72	I/D
<i>Pantala dentifera</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/78	0/0/58	I/M
<i>Pantala faba</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/16	0/0/13	I/B
<i>Pantala gibba</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/6	0/0/14	I/M
<i>Pantala hebe bella</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/9	0/0/5	I/M
<i>Pantala hyalina</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/8	0/0/18	I/M
<i>Pantala labrusca</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/31	0/0/28	I/N
<i>Pantala lirata</i> Fijian	Tree Snail	-	-	-	-	na/50	0/0/79	I/N
<i>Pantala mirabilis</i>	Polynesian Tree Snail	-	-	-	-	na/	0/0/4	I/D
<i>Pantala mirabilis</i> x <i>taeniata</i>	Polynesian Tree Snail hybrid	-	-	-	-	na/32	0/0/65	I/B
<i>Pantala mooreana</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/4	0/0/5	I/M
<i>Pantala nodosa</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/	0/0/2	I/D
<i>Pantala otahitana</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/6	0/0/5	I/D
<i>Pantala radiolata</i> (CR)	Guam Tree Snail	-	-	-	-	na/1	-	I/D
<i>Pantala rosea</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/81	0/0/132	I/M
<i>Pantala saturata</i> strigosa (EW)	Polynesian Tree Snail	-	-	-	-	na/127	0/0/185	I/B
<i>Pantala saturata</i> vexillum (EW)	Polynesian Tree Snail	-	-	-	-	na/4	0/0/3	I/M
<i>Pantala saturata</i> mixed sp.	Polynesian Tree Snail	-	-	-	-	na/8	0/0/11	I/N
<i>Pantala taeniata</i> simulans (EW)	Polynesian Tree Snail	-	-	-	-	na/77	0/0/120	I/B
<i>Pantala tobiensis</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/44	0/0/36	I/B
<i>Pantala tristis</i> (EW)	Polynesian Tree Snail	-	-	-	-	na/6	0/0/1	I/N
<i>Pantala turneri</i>	Vanuatu Tree Snail	-	-	-	-	na/33	0/0/53	I/D
<i>Pantala varia</i> (CR)	Polynesian Tree Snail	-	-	-	-	na/1	0/0/3	I/M
<i>Pantala sp.</i>	Polynesian Tree Snail	-	-	-	-	-	-	I/D
<i>Samoa attenuata</i> (EN)	Marquesan Tree Snail	-	-	-	-	-	-	I/D
<i>Samoa bellula</i>	Marquesan Tree Snail	-	-	-	-	-	-	I/D
<i>Samoa garymedes</i>	Marquesan Tree Snail	-	-	-	-	na/1	0/0/3	I/D
<i>Diplomorpha delatouri</i>	Vanuatu Snail	-	-	-	-	nr/1	0/0/3	I/D
<i>Trichomorphus sp.</i>	Tahitian Trichomorph Snail	-	-	-	-	nr/	0/0/2	I/M

		1	2	3	4	5	6	7
<i>Synodontis multipunctatus</i>	Cuckoo Catfish	1	-	-	-	-	-	1
<i>Synodontis sp.</i>	Synodontis	3	-	-	-	-	-	3

Tetradontiformes

<i>Ballistodes conspicillatus</i>	Clown Triggerfish	-	1	-	-	-	-	1
<i>Rhinecanthus assasi</i>	Arabian Picasso Triggerfish	1	-	-	-	-	-	1
<i>Arothron sp.</i>	Small Spotted Pufferfish	1	-	-	-	-	-	1
<i>Arothron diadematus</i>	Masked Pufferfish	1	-	-	-	-	1	-
<i>Arothron stellatus</i>	Spotted Pufferfish	1	-	-	-	-	-	1
<i>Arothron nigropunctatus</i>	Black Spotted Pufferfish	2	-	-	-	1	1	-
<i>Arothron mappa</i>	Scribbled Toadfish	1	-	-	-	-	1	-

CHONDRICHTHYES

Carcharhiniformes								
<i>Carcharhinus melanopterus</i>	Black-tipped Reef Shark	2	-	-	-	-	-	2

Lamniformes

<i>Squalorhynchus canalicula</i>	Spotted Dogfish	8	-	-	-	8	-	-
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Rajiformes

<i>Potamotrygon sp.</i>	Freshwater Stingray	2	-	-	-	-	2	-
<i>Raja clavata</i>	Thornback Ray	3	-	-	-	3	-	-
<i>Raja undulata</i>	Spotted Ray	1	-	-	-	1	-	-
<i>Raja macrocellata</i>	Painted Ray	2	-	-	-	2	-	-

Total: Fishes		2909	871(10)	1055	101	1117	233(63)	3312
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INVERTEBRATES

Key to columns:

column 1	Arrivals
column 2	Births/Hatchlings
column 3	Deaths
column 4	Departures
column 5	Number at end of year of Eggs/Young (na=not applicable, nr=not recorded)
column 6	Number at end of year of Adult Males/Adult Females/Adults of unknown gender or without gender, or number of colonies
column 7	Count Unit: 1=Adult numbers represent exact number of individuals. Young and Eggs may be estimated. A=All numbers are approximate. C=Numbers represent exact number of colonies
column 8	Population Status: M=Maintaining. B=Breeding. D=Declining. N=Newly acquired species. nr=Not recorded. na=Not applicable.

		1	2	3	4	5	6	7/8
Cnidaria								
<i>Cassiopea sp.</i>	Upside-down Jellyfish	25	nr	nr	-	nr/	0/0/13	I/M
<i>Aurelia aurita</i>	Moon Jellyfish	400	-	nr	-	nr/400	-	A/N

Anthozoa								
<i>Alcyonium sp.</i>	Snakelocks Anemone	11	nr	nr	-	nr	0/0/13	A/N
<i>Actinia equina</i>	Beadlet Anemone	20	nr	nr	-	nr	0/0/67	A/N
<i>Metridium sp.</i>	Phanose Anemone	3	nr	nr	-	nr	0/0/3	A/N
<i>Stichodactyla heddoni</i>	Carpet Anemone	2	nr	2	-	-	-	I/N
<i>Stichodactyla giganteum</i>	Carpet Anemone	3	-	-	-	-	0/0/4	I/M
<i>Ertacnema quadricolor</i>	Bull-tentacled Sea Anemone	1	-	1	-	-	-	I/N
<i>Heteractis sebastes</i>	Tropical Anemone	1	nr	1	-	-	-	I/N
<i>Heteractis crispus</i>	Sand Anemone	3	nr	1	-	nr	0/0/2	I/N
<i>Sundaria brassica</i>	Soft Coral	9	-	-	-	nr	0/0/9	C/N
<i>Dissotisoma sp.</i>	Mushroom Polyp	22	nr	nr	-	nr	0/0/22	C/N
<i>Pocillopora damicornis</i>	Hard Coral	1	-	-	-	nr	0/0/1	C/N

		1	2	3	4	5	6	7/8
Cephalopoda								
<i>Sepia officinalis</i>	Common Cuttlefish	20	20	28	-	-/3	0/0/10	I/D
<i>Octopus vulgaris</i>	Common Octopus	-	-	1	-	-	-	I/D

<i>Pyropogon</i> sp.	Red-legged Tamarin Crab	3	nr	nr	-	-	1/D
<i>Goneplax rhomboides</i> Angalar	Crab	2	nr	nr	-	-	1/D
<i>Homarus gammarus</i>	American Lobster	-	-	2	-	nr	0/0/1
<i>Galathea strigosa</i>	Squat Lobster	-	-	6	-	-	1/N
<i>Limulus polyphemus</i>	Horseshoe Crab	-	-	2	-	-	0/0/1
<i>Lyamata rathbunae</i>	Peppermint Shrimp	6	nr	nr	-	nr	0/0/6
<i>Lyamata debellus</i>	Blood Shrimp	-	-	-	-	nr	0/0/8
<i>Lyamata ambionensis</i>	Cleaner Shrimp	4	nr	nr	-	nr	0/0/2
<i>Austropotamobius pallipes</i> (VU)	White-clawed Crayfish	6	-	4	-	-	1/1
<i>Cherax australis</i>	Yabby Crayfish	6	-	4	-	-	0/0/2

		1	2	3	4	5	6	7/8
<i>Acanthoscurria geniculata</i>	White-kneed Bird-eating Spider	1	-	-	-	-	0/1	1/M
<i>Aphonopelma chalcodes</i>	Mexican Blond	1	-	-	-	-	0/1	1/M
<i>Pseudoscorpion</i>	Bird-eating Spider	1	-	-	-	-	0/1	1/M
<i>Laridodora paralytica</i>	Pink-toed Goliath Spider	1	-	-	-	-	0/1	1/M
<i>Grammostola spatulata</i>	Brazilian Bird-eating Spider	1	-	-	-	-	0/2/1	1/M
<i>Stromatopelma calceata</i>	Chile Rose Bird-eating Spider	3	-	-	1	-	0/0/4	1/M
<i>Metrionopelma</i> sp.	Feather-leg Baboon Spider	1	-	-	-	-	0/1	1/M
<i>Poecilotheria regalis</i>	Bird-eating Spider	-	-	-	-	-	0/1	1/M
<i>Poecilotheria sulcata</i>	Indian Ornamental Spider	-	-	-	-	-	0/1	1/M
<i>Poecilotheria formosa</i>	Sri Lankan Ornamental Spider	-	-	-	-	-	1/1	1/M
Unidentified lycosid species	Indian Tiger Spider	-	-	1	-	-	0/1	1/M
<i>Nephila madagascariensis</i>	Wolf Spider	1	-	-	-	-	1/0	1/M
<i>Nephila senegalensis</i>	Golden Orb Weaver	20	nr	nr	nr	-	-	1/N
<i>Latrodectus variolus</i>	Senegalese Giant Orb Spider	30	nr	nr	nr	-/21	0/1	1/N
<i>Latrodectus hesperus</i>	North American Black Spider	-	-	1	-	-	-	1/D
<i>Latrodectus geometricus</i>	Western Black Widow	1	-	6	-	-/2	0/1	1/M
<i>Heteropoda</i> sp.	Brown Black Widow	1	-	-	-	-	0/1	1/M
<i>Phidippus audax</i>	Crab Spider	-	nr	nr	-	-	1/1	1/M
	Jumping Spider	-	-	-	-	-	1/0	1/M
Scorpiones								
<i>Androctonus australis</i>	Tunisian Fat-tailed Scorpion	-	-	1	-	-	0/0/1	1/M
<i>Androctonus crassicauda</i>	Fat-tailed Scorpion	-	-	2	-	-	0/0/1	1/M
<i>Buthus occitanus</i>	Yellow Scorpion	-	-	-	-	-	0/0/1	1/M
<i>Buthus</i> sp.	Chinese Scorpion	-	-	-	-	-	0/0/1	1/M
<i>Pandinus imperator</i>	Imperial Scorpion	-	nr	nr	-	-/50	0/0/21	1/M
<i>Pandinus</i> sp.	Malagasy Jungle Scorpion	-	-	-	-	-	0/0/1	1/M
<i>Heterometrus</i> sp.	Indian Scorpion	6	-	10	4	-/2	-	1/D
<i>Euscorpium flavicauda</i>	European Scorpion	-	-	2	-	-	-	1/D
<i>Chiracanthus orichthys</i>	Seychelles Scorpion	20	-	2	-	-	1/1/16	1/N
<i>Centruroides</i> sp.	American Desert Scorpion	1	-	-	-	-	0/0/1	1/N
Solifugae								
<i>Galeodes</i> sp.	Egyptian Solifuge	-	-	2	-	-	-	1/D
MYRIAPODA								
Chilopoda								
<i>Scolopendra gigantea</i>	Giant Centipede	1	-	1	-	-	0/0/1	1/M
<i>Scolopendra</i> sp.	Egyptian Giant Centipede	1	-	-	-	-	0/0/1	1/M
Diplopoda								
<i>Iulus</i> sp.	Giant Millipede	-	nr	nr	-	nr/30	0/0/6	1/B
<i>Sechelleptus sechellianus</i>	Seychelles Giant Millipede	19	nr	nr	85	nr/356	0/0/19	1/B
<i>Epibolus pulchripes</i>	Mombassan Train Millipede	-	nr	nr	-	nr/30	0/0/5	1/B
Unidentified species	Fire Millipede	-	-	1	-	-	-	1/D
Unidentified species	Malaysian Giant Millipede	-	-	4	-	-	-	1/D
INSECTA								
Orthoptera								
<i>Gryllotalpa gryllotalpa</i> (RT)	Mole Cricket	6	-	1	-	-	3/2	1/N
<i>Schistocerca gregaria</i>	Desert Locust	500	nr	nr	-	nr/300	0/0/200	A/B
<i>Gryllus bimaculatus</i>	African Field Cricket	-	nr	nr	-	nr/300	0/0/200	A/B
<i>Gryllus campestris</i> (RT)	British Field Cricket	3	1715	862	1050	-/51	-	1/B
<i>Pholoechrysis geortii</i>	Cave Cricket	-	nr	nr	-	nr/170	0/0/20	A/B
<i>Deinoceratus verna</i> (RT)	British Wart-biter Cricket	-	148	124	24	4000/-	-	1/M
<i>Hemideina crassidens</i>	Wellington Tree Weta	22	-	27	-	200/-	-	A/M
<i>Deinoceratus fallus</i> (VU)	Poor Knights Weta	11	-	6	-	-	3/2	1/N
<i>Tropidacris violacea</i>	Giant South American Grasshopper	-	-	6/4	-	100/-	-	A/M
<i>Acanthophas exarata</i>	Whistle Cricket	10	-	10	-	50/-	-	A/N
Unidentified stenopelmaticid	King Cricket	1	-	1	-	-	-	1/D

		1	2	3	4	5	6	7/8
Blattodea								
<i>Gromphadorhina portentosa</i>	Malagasy Hissing Cockroach	-	nr	nr	-	-	0/0/30	A/D
<i>Periplaneta americana</i>	American Cockroach	-	nr	nr	-	nr/100	0/0/100	A/M
<i>Prinotus vancouveri</i>	Hissing Cockroach	6	nr	nr	-	na/55	7/12	1/B
<i>Archimandrita tessellata</i>	Bullhead Cockroach	12	nr	nr	-	na/6	2/2	1/B
Mantodea								
<i>Sphodromantis</i> sp.	African Praying Mantis	3	nr	nr	-	-/7	0/0/1	1/B
<i>Tenodera</i> sp.	Chinese Praying Mantis	-	nr	nr	-	-	-	1/D
Phasmatodea								
<i>Acrophylla welfingi</i>	Queensland Titan Stick Insect	-	nr	nr	-	nr/50	0/1	1/B
<i>Eurycantha calcarata</i>	Indonesian Spiny Stick Insect	-	nr	nr	-	nr/27	1/2	1/B
<i>Extatosoma tiaratum</i>	Maclean's Spectre Stick Insect	-	nr	nr	-	nr/10	0/1	1/B
<i>Heteropteryx dilatata</i>	Malaysian Jungle Nymph	10	nr	nr	-	nr/10	3/9	1/B
<i>Caraninus morosus</i>	Indian Stick Insect	-	nr	nr	-	-	0/2	1/D
<i>Syngaster sylvius</i>	Pink-wing	-	nr	nr	30	nr/30	0/0/30	1/B
<i>Phyllium</i> sp.	Leaf Insect	6	-	6	-	-	-	1/D
Coleoptera								
<i>Arenaria multipunctatum</i>	African Dung Beetle	-	nr	nr	-	-	-	1/D
Unidentified species	South African Large Dung Beetle	-	nr	nr	-	nr	0/0/3	1/D
Unidentified species	African Dung Beetle	-	nr	nr	-	-	-	1/D
<i>Poloporus herculeanus</i> (CR)	Giant Fungus Beetle	20	87	24	22	nr/nr	0/0/117	1/B
<i>Anthonia scutellata</i>	Domino Beetle	-	-	2	-	nr/-	0/0/3	1/D
<i>Xylotrupes gideon</i>	Sumatran Rhino Beetle	-	nr	nr	-	nr/30	-	1/M
Unidentified species	Chequered Ground Beetle	-	-	5	-	nr/-	0/0/5	1/D
Unidentified species	Large Ground Beetle	-	nr	nr	-	-	-	1/D
<i>Blaps mucronata</i>	Churchyard Beetle	-	nr	nr	-	-	-	1/D
<i>Blaps</i> sp.	Desert Beetle	20	nr	nr	-	nr	0/0/10	1/D
Unidentified species	Minotaur Beetle	-	nr	nr	-	-	-	1/D
Unidentified species	Tenebrionid Beetle	-	nr	nr	13	-	-	1/D
Unidentified species	Large Tenebrionid Beetle	-	nr	nr	5	-	-	1/D
<i>Cyrtus laterimarginatus</i>	Diving Beetle	10	nr	nr	-	nr/-	0/0/6	1/D
Unidentified cerambycid	Indian Longhorn Beetle	1	-	1	-	-	-	1/D
Diptera								
<i>Drosophila melanogaster</i>	Fruit Fly	-	nr	nr	-	nr	0/0/1	C/M
<i>Calliphora vomitoria</i>	Bluebottle	1	nr	nr	-	nr	0/0/1	C/M
Lepidoptera								
<i>Bombyx mori</i>	Silkworm	-	nr	nr	-	300/-	-	A/M
<i>Heliconia charitonius</i>	Zebra Butterfly	10	nr	nr	-	-	-	1/D
<i>Heliconia melpomene</i>	Postman Butterfly	-	nr	nr	40	nr/100	0/0/65	A/M
<i>Attacus atlas</i>	Atlas Moth	9	-	3	-	-/6	-	1/D
Hymenoptera								
<i>Anoplophora compressa</i>	Jewel Wasp	8	-	-	-	nr	1/2	1/D
<i>Apis mellifera</i>	Honeybee	1	nr	1	-	nr	0/0/1	C/M
<i>Atta cephalotes</i>	Leaf-cutting Ant	-	nr	nr	-	nr	0/0/2	C/M
<i>Formica rufa</i> (VU)	Red Wood Ant	-	-	1	-	-	-	C/D
<i>Pseudomyrmex ferruginea</i>	Acacia Ant	1	-	1	-	-	-	C/D
Hemiptera								
<i>Platymeris bogotana</i>	Assassin Bug	-	nr	nr	8	-	-	1/D
<i>Notonecta glauca</i>	Water Boatman	20	nr	nr	-	nr	0/0/20	1/N

Total Invertebrates at 31.12.99: approx. 6238 specimens; 46 colonies; approx. 164 species

WHIPSADE WILD ANIMAL PARK

		1	2	3	4	5	6	7
MAMMALS								
Diprotodontia								
<i>Macropus rufogriseus fruticosa</i>	Red-necked (Bennett's) Wallaby**	-600	-	-	-	-	-	-600
<i>Macropus rufogriseus</i>	White Wallaby	16	-	2	-	3	-	7/8
<i>Macropus parma</i>	White-fronted Wallaby	3	-	2	-	-	1	2/2
Primates								
<i>Lemur catta</i> (VU)	Ring-tailed Lemur	6	3	-	-	1	-	8/0
<i>Varecia variegata</i>	Black-&-white Ruffed Lemur	2	-	-	-	-	-	1/1
<i>Pithecia pithecia</i>	White-faced Saki Monkey	2	-	1	-	-	-	2/1
<i>Saimiri boliviensis</i>	Black-capped Squirrel Monkey	11	-	3	1	1	-	6/6
<i>Callithrix argentata argentata</i>	Silvery Marmoset	3	-	3	1	-	-	2/2/1
<i>Leontopithecus chrysomelas</i> (EN)	Golden-headed Lion Tamarin	4	-	-	-	-	1	2/1
<i>Pan troglodytes</i> (EN)	Chimpanzee	9	-	-	-	1	-	5/3
Rodentia								
<i>Cynomys ludovicianus</i>	Black-tailed Prairie Dog**	-100	-	-	-	-	-	-100
<i>Dolichotis patagonum</i>	Mara**	-210	-	-	-	-	-	-155
<i>Muscardinus avellanarius</i> (RT)	Common Dormouse	10	2 (2)	25	-	1	6	16/10/4
Carnivora								
<i>Canis lupus</i>	Grey Wolf	14	-	-	-	-	-	7/7
<i>Ursus arctos</i>	Brown Bear	5	-	-	-	-	-	1/4
<i>Ailuropus fulgens fulgens</i> (EN)	Red Panda	8	1	3	1	2	-	3/5/1
<i>Helogale parvula</i>	Dwarf Mongoose	5	-	8	8	-	-	2/3
<i>Panthera tigris altaica</i> (CR)	Amur (Siberian) Tiger	22	2	-	-	-	-	2/2
<i>Acinonyx jubatus</i> (VU)	Cheetah	5	2	-	-	-	2	1/4
Pinnipedia								
<i>Zalophus californianus</i>	Californian Sealion	3	-	1	1	-	-	1/2
<i>Phoca vitulina</i>	Common Seal	1	-	-	-	-	-	1/0
<i>Halichoerus grypus</i>	Grey Seal	1	-	-	-	-	-	0/1
Proboscidea								
<i>Elephas maximus</i> (EN)	Asian Elephant	4	-	-	-	-	-	1/3
Perissodactyla								
<i>Equus burchelli chapmani</i>	Chapman's Zebra	1	-	-	-	-	-	1/0
<i>Equus greys</i> (EN)	Grey's Zebra	8	-	-	-	3	-	0/5
<i>Equus hemionus onager</i> (EN)	Asiatic Wild Ass	8	1	-	-	1	1	1/6
<i>Equus przewalskii</i> (EW)	Przewalski's Horse	7	-	5	1	-	-	2/8/1
<i>Rhinoceros unicornis</i> (EN)	Greater One-horned Rhinoceros	4	-	-	-	-	-	1/3
<i>Ceratotherium simum simum</i>	Southern White Rhinoceros	9	-	1	-	-	2	2/6
<i>Diceros bicornis michaeli</i> (CR)	Black Rhinoceros	2	-	-	-	-	-	1/1
Artiodactyla								
<i>Hippopotamus amphibius</i>	Hippopotamus	3	-	-	-	-	1	1/1
<i>Hexaprotodon liberiensis</i> (VU)	Pygmy Hippopotamus	4	-	-	-	-	-	1/3
<i>Lama glama</i>	Llama (domestic)	2	-	-	-	-	-	2/0
<i>Lama pacos</i>	Alpaca (domestic)	2	-	-	-	-	-	2/0
<i>Camelus bactrianus</i>	Bactrian Camel (domestic)	16	1	3	1	-	4(1)	4/11
<i>Muntiacus reevesi</i>	Reeves's Muntjac**	-20	-	-	-	-	-	-25
<i>Dama dama</i>	Fallow Deer	22	-	16	1	2	-	12/17/6
<i>Dama dama</i>	Fallow Deer (black form)**	-54	-	-	-	-	-	-50
<i>Axis axis</i>	Axis Deer	41	-	25	9	2	-	18/32/5
<i>Axis porcinus</i>	Hog Deer	34	-	12	6	6	-	12/16/6
<i>Cervus davidi</i> (VU)	Barasingha/Swamp Deer	39	-	15	8	6	-	18/22
<i>Cervus nippon</i>	Sika Deer	23	-	17	3	4	-	10/15/8
<i>Elaphurus davidianus</i> (CR)	Père David's Deer	28	-	15	3	5	-	4/13/18
<i>Rangifer tarandus</i>	Reindeer (domestic)	4	1	1	-	-	2 (1)	2/2

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		1	2	3	4	5	6	7/8
<i>Acanthoscurria geniculata</i>	White-kneed Bird-eating Spider	1	-	-	-	-	0/1	1/M
<i>Aphonopelma chalcodes</i>	Mexican Blond	1	-	-	-	-	0/1	1/M
<i>Pseudoscorpionus apophysis</i>	Bird-eating Spider	1	-	-	-	-	0/1	1/M
<i>Laridodora paralytica</i>	Pink-toed Goliath Spider	1	-	-	-	-	0/1	1/M
<i>Grammostola spatulata</i>	Brazilian Bird-eating Spider	1	-	-	-	-	0/2/1	1/M
<i>Stromatopelma calceata</i>	Chile Rose Bird-eating Spider	3	-	-	1	-	0/0/4	1/M
<i>Metsopelma sp.</i>	Feather-leg Baboon Spider	1	-	-	-	-	0/1	1/M
<i>Poecilotheria regalis</i>	Bird-eating Spider	-	-	-	-	-	0/1	1/M
<i>Poecilotheria sulcata</i>	Indian Ornamental Spider	-	-	-	-	-	0/1	1/M
<i>Poecilotheria formosa</i>	Sri Lankan Ornamental Spider	-	-	-	-	-	1/1	1/M
Unidentified lycosid species	Indian Tiger Spider	-	-	1	-	-	0/1	1/M
<i>Nephila madagascariensis</i>	Wolf Spider	1	-	-	-	-	1/0	1/M
<i>Nephila senegalensis</i>	Golden Orb Weaver	20	nr	nr	nr	-	1/N	
<i>Latrodectus variolus</i>	Senegalese Giant Orb Spider	30	nr	nr	nr	-/21	0/1	1/N
<i>Latrodectus hesperus</i>	North American Black Spider	-	-	1	-	-	1/D	
<i>Latrodectus geometricus</i>	Western Black Widow	1	-	6	-	-/2	0/1	1/M
<i>Heteropoda sp.</i>	Brown Black Widow	1	-	-	-	-	0/1	1/M
<i>Phidippus audax</i>	Crab Spider	-	nr	nr	-	-	1/1	1/M
	Jumping Spider	-	-	-	-	-	1/0	1/M
Scorpiones								
<i>Androctonus australis</i>	Tunisian Fat-tailed Scorpion	-	-	1	-	-	0/0/1	1/M
<i>Androctonus crassicauda</i>	Fat-tailed Scorpion	-	-	2	-	-	0/0/1	1/M
<i>Buthus occitanus</i>	Yellow Scorpion	-	-	-	-	-	0/0/1	1/M
<i>Buthus sp.</i>	Chinese Scorpion	-	-	-	-	-	0/0/1	1/M
<i>Pandinus imperator</i>	Imperial Scorpion	-	nr	nr	-	-/50	0/0/21	1/M
<i>Pandinus sp.</i>	Malagasy Jungle Scorpion	-	-	-	-	-	0/0/1	1/M
<i>Heterometrus sp.</i>	Indian Scorpion	6	-	10	4	-/2	1/D	
<i>Euscorpium flavicaudus</i>	European Scorpion	-	-	2	-	-	1/D	
<i>Chiracanthus orichthys</i>	Seychelles Scorpion	20	-	2	-	-	1/1/16	1/N
<i>Centruroides sp.</i>	American Desert Scorpion	1	-	-	-	-	0/0/1	1/N
Solifugae								
<i>Galeodes sp.</i>	Egyptian Solifuge	-	-	2	-	-	-	1/D
MYRIAPODA								
Chilopoda								
<i>Scolopendra gigantea</i>	Giant Centipede	1	-	1	-	-	0/0/1	1/M
<i>Scolopendra sp.</i>	Egyptian Giant Centipede	1	-	-	-	-	0/0/1	1/M
Diplopoda								
<i>Iulus sp.</i>	Giant Millipede	-	nr	nr	-	nr/30	0/0/6	1/B
<i>Sechelleptus seychellianus</i>	Seychelles Giant Millipede	19	nr	nr	85	nr/356	0/0/19	1/B
<i>Epibolus pulchripes</i>	Mombassan Train Millipede	-	nr	nr	-	nr/30	0/0/5	1/B
Unidentified species	Fire Millipede	-	-	1	-	-	-	1/D
Unidentified species	Malaysian Giant Millipede	-	-	4	-	-	-	1/D
INSECTA								
Orthoptera								
<i>Gryllotalpa gryllotalpa</i> (RT)	Mole Cricket	6	-	1	-	-	3/2	1/N
<i>Schistocerca gregaria</i>	Desert Locust	500	nr	nr	-	nr/300	0/0/200	A/B
<i>Gryllus bimaculatus</i>	African Field Cricket	-	nr	nr	-	nr/300	0/0/200	A/B
<i>Gryllus campestris</i> (RT)	British Field Cricket	3	1715	862	1050	-/51	-	1/B
<i>Pholoechilus georgii</i>	Cave Cricket	-	nr	nr	-	nr/170	0/0/20	A/B
<i>Deinoceratus verna</i> (RT)	British Wart-biter Cricket	-	148	124	24	4000/-	-	1/M
<i>Hemideina crassidens</i>	Wellington Tree Weta	22	-	27	-	200/-	-	A/M
<i>Deinoceratus fallus</i> (VU)	Poor Knights Weta	11	-	6	-	-	3/2	1/N
<i>Tropidacris violacea</i>	Giant South American Grasshopper	-	-	6/4	-	100/-	-	A/M
<i>Acanthophas exarata</i>	Whistle Cricket	10	-	10	-	50/-	-	A/N
Unidentified stenopelmaticid	King Cricket	1	-	1	-	-	-	1/D

Blattodea

<i>Gromphadorhina portentosa</i>	Malagasy Hissing Cockroach	-	nr	nr	-	-	0/0/30	A/D
<i>Periplaneta americana</i>	American Cockroach	-	nr	nr	-	nr/100	0/0/100	A/M
<i>Prinotus vancouveri</i>	Hissing Cockroach	6	nr	nr	-	na/55	7/12	1/B
<i>Archimandrita tessellata</i>	Bullhead Cockroach	12	nr	nr	-	na/6	2/2	1/B

Mantodea

<i>Sphodromantis sp.</i>	African Praying Mantis	3	nr	nr	-	-/7	0/0/1	1/B
<i>Tenodera sp.</i>	Chinese Praying Mantis	-	nr	nr	-	-	-	1/D

Phasmatodea

<i>Acrophylla welfingi</i>	Queensland Titan Stick Insect	-	nr	nr	-	nr/50	0/1	1/B
<i>Eurycantha calcarata</i>	Indonesian Spiny Stick Insect	-	nr	nr	-	nr/27	1/2	1/B
<i>Extatosoma tiaratum</i>	Maclean's Spectre Stick Insect	-	nr	nr	-	nr/10	0/1	1/B
<i>Heteropteryx dilatata</i>	Malaysian Jungle Nymph	10	nr	nr	-	nr/10	3/9	1/B
<i>Caraninus morosus</i>	Indian Stick Insect	-	nr	nr	-	-	0/2	1/D
<i>Syngaster sylvius</i>	Pink-wing	-	nr	nr	30	nr/30	0/0/30	1/B
<i>Phyllium sp.</i>	Leaf Insect	6	-	6	-	-	-	1/D

Coleoptera

<i>Arenaria multipunctatum</i>	African Dung Beetle	-	nr	nr	-	-	-	1/D
Unidentified species	South African Large Dung Beetle	-	nr	nr	-	nr	0/0/3	1/D
Unidentified species	African Dung Beetle	-	nr	nr	-	-	-	1/D
<i>Poloporus herculeanus</i> (CR)	Giant Fungus Beetle	20	87	24	22	nr/27	0/0/117	1/B
<i>Anthonia scutellata</i>	Domino Beetle	-	-	2	-	nr/-	0/0/3	1/D
<i>Xylotrupes gideon</i>	Sumatran Rhino Beetle	-	nr	nr	-	nr/30	-	1/M
Unidentified species	Chequered Ground Beetle	-	-	5	-	nr/-	0/0/5	1/D
Unidentified species	Large Ground Beetle	-	nr	nr	-	-	-	1/D
<i>Blaps mucronata</i>	Churchyard Beetle	-	nr	nr	-	-	-	1/D
<i>Blaps sp.</i>	Desert Beetle	20	nr	nr	-	nr	0/0/10	1/D
Unidentified species	Minotaur Beetle	-	nr	nr	-	-	-	1/D
Unidentified species	Tenebrionid Beetle	-	nr	nr	13	-	-	1/D
Unidentified species	Large Tenebrionid Beetle	-	nr	nr	5	-	-	1/D
<i>Cyboester laterimarginatus</i>	Diving Beetle	10	nr	nr	-	nr/-	0/0/6	1/D
Unidentified cerambycid	Indian Longhorn Beetle	1	-	1	-	-	-	1/D

Diptera

<i>Drosophila melanogaster</i>	Fruit Fly	-	nr	nr	-	nr	0/0/1	C/M
<i>Calliphora vomitoria</i>	Bluebottle	1	nr	nr	-	nr	0/0/1	C/M

Lepidoptera

<i>Bombyx mori</i>	Silkworm	-	nr	nr	-	300/-	-	A/M
<i>Heliconia charitonius</i>	Zebra Butterfly	10	nr	nr	-	-	-	1/D
<i>Heliconia melpomene</i>	Postman Butterfly	-	nr	nr	40	nr/100	0/0/65	A/M
<i>Attacus atlas</i>	Atlas Moth	9	-	3	-	-/6	-	1/D

Hymenoptera

<i>Anoplopes compressa</i>	Jewel Wasp	8	-	-	-	nr	1/2	1/D
<i>Apis mellifera</i>	Honeybee	1	nr	1	-	nr	0/0/1	C/M
<i>Atta cephalotes</i>	Leaf-cutting Ant	-	nr	nr	-	nr	0/0/2	C/M
<i>Formica rufa</i> (VU)	Red Wood Ant	-	-	1	-	-	-	C/D
<i>Pseudomyrmex ferruginea</i>	Acacia Ant	1	-	1	-	-	-	C/D

Hemiptera

<i>Platymeris bogotana</i>	Assassin Bug	-	nr	nr	8	-	-	1/D
<i>Notonecta glauca</i>	Water Boatman	20	nr	nr	-	nr	0/0/20	1/N

Total Invertebrates at 31.12.99: approx. 6238 specimens; 46 colonies; approx. 164 species

WHIPSADE WILD ANIMAL PARK

MAMMALS

		1	2	3	4	5	6	7
Diprotodontia								
<i>Macropus rufogriseus fruticosa</i>	Red-necked (Bennett's) Wallaby**	-600	-	-	-	-	-	-600
<i>Macropus rufogriseus</i>	White Wallaby	16	-	2	-	3	-	7/8
<i>Macropus parma</i>	White-fronted Wallaby	3	-	2	-	-	1	2/2
Primates								
<i>Lemur catta</i> (VU)	Ring-tailed Lemur	6	3	-	-	1	-	8/0
<i>Varecia variegata</i>	Black-&-white Ruffed Lemur	2	-	-	-	-	-	1/1
<i>Pithecia pithecia</i>	White-faced Saki Monkey	2	-	1	-	-	-	2/1
<i>Saimiri boliviensis</i>	Black-capped Squirrel Monkey	11	-	3	1	1	-	6/6
<i>Callithrix argentata argentata</i>	Silvery Marmoset	3	-	3	1	-	-	2/2/1
<i>Leontopithecus chrysomelas</i> (EN)	Golden-headed Lion Tamarin	4	-	-	-	-	1	2/1
<i>Pan troglodytes</i> (EN)	Chimpanzee	9	-	-	-	1	-	5/3
Rodentia								
<i>Cynomys ludovicianus</i>	Black-tailed Prairie Dog**	-100	-	-	-	-	-	-100
<i>Dolichotis patagonum</i>	Mara**	-210	-	-	-	-	-	-155
<i>Muscardinus avellanarius</i> (RT)	Common Dormouse	10	2 (2)	25	-	1	6	16/10/4
Carnivora								
<i>Canis lupus</i>	Grey Wolf	14	-	-	-	-	-	7/7
<i>Ursus arctos</i>	Brown Bear	5	-	-	-	-	-	1/4
<i>Ailuropus fulgens fulgens</i> (EN)	Red Panda	8	1	3	1	2	-	3/5/1
<i>Helogale parvula</i>	Dwarf Mongoose	5	-	8	8	-	-	2/3
<i>Panthera tigris altaica</i> (CR)	Amur (Siberian) Tiger	22	2	-	-	-	-	2/2
<i>Acinonyx jubatus</i> (VU)	Cheetah	5	2	-	-	-	2	1/4
Pinnipedia								
<i>Zalophus californianus</i>	Californian Sealion	3	-	1	1	-	-	1/2
<i>Phoca vitulina</i>	Common Seal	1	-	-	-	-	-	1/0
<i>Halichoerus grypus</i>	Grey Seal	1	-	-	-	-	-	0/1
Proboscidea								
<i>Elephas maximus</i> (EN)	Asian Elephant	4	-	-	-	-	-	1/3
Perissodactyla								
<i>Equus burchelli chapmani</i>	Chapman's Zebra	1	-	-	-	-	-	1/0
<i>Equus greys</i> (EN)	Grey's Zebra	8	-	-	-	3	-	0/5
<i>Equus hemionus onager</i> (EN)	Asiatic Wild Ass	8	1	-	-	1	1	1/6
<i>Equus przewalskii</i> (EW)	Przewalski's Horse	7	-	5	1	-	-	2/8/1
<i>Rhinoceros unicornis</i> (EN)	Greater One-horned Rhinoceros	4	-	-	-	-	-	1/3
<i>Ceratotherium simum simum</i>	Southern White Rhinoceros	9	-	1	-	-	2	2/6
<i>Diceros bicornis michaeli</i> (CR)	Black Rhinoceros	2	-	-	-	-	-	1/1
Artiodactyla								
<i>Hippopotamus amphibius</i>	Hippopotamus	3	-	-	-	-	1	1/1
<i>Hexaprotodon liberiensis</i> (VU)	Pygmy Hippopotamus	4	-	-	-	-	-	1/3
<i>Lama glama</i>	Llama (domestic)	2	-	-	-	-	-	2/0
<i>Lama pacos</i>	Alpaca (domestic)	2	-	-	-	-	-	2/0
<i>Camelus bactrianus</i>	Bactrian Camel (domestic)	16	1	3	1	-	4(1)	4/11
<i>Muntiacus reevesi</i>	Reeves's Muntjac**	-20	-	-	-	-	-	-25
<i>Dama dama</i>	Fallow Deer	22	-	16	1	2	-	12/17/6
<i>Dama dama</i>	Fallow Deer (black form)**	-54	-	-	-	-	-	-50
<i>Axis axis</i>	Axis Deer	41	-	25	9	2	-	18/32/5
<i>Axis porcinus</i>	Hog Deer	34	-	12	6	6	-	12/16/6
<i>Cervus davidiensis</i> (VU)	Barasingha/Swamp Deer	39	-	15	8	6	-	18/22
<i>Cervus nippon</i>	Sika Deer	23	-	17	3	4	-	10/15/8
<i>Elaphurus davidianus</i> (CR)	Père David's Deer	28	-	15	3	5	-	4/13/18
<i>Rangifer tarandus</i>	Reindeer (domestic)	4	1	1	-	-	2 (1)	2/2

Hydropotes inermis
Giraffa camelopardalis reticulata
Tragelaphus angasi
Tragelaphus spekei
Tragelaphus streptaceros
Boselaphus tragocamelus
Bubalus depressicornis (EN)
Bos gaurus (VU)
Bos grunniens
Syncerus caffer nanus
Bison bison bison
Bison bonasus (EN)
Hippotragus equinus
Hippotragus equinus bakeri
Kobus ellipsiprimus
Kobus megaceros
Oryx gazella gazella
Oryx dammah (CR)
Antelope cervicapra (VU)
Ovis montanus
Ovis orientalis musimon (VU)

		1	2	3	4	5	6	7
<i>Anser indicus</i>	Bar-headed Goose	35	-	7	-	3	8	3/6/22
<i>Anser erythropus</i> (VU)	Lesser White-fronted Goose	5	4	-	-	-	-	4/5
<i>Anser canagicus</i>	Emperor Goose	4	-	-	-	-	1	2/1
<i>Anser rossii</i>	Ross' Goose	4	-	-	-	-	-	2/2
<i>Branta leucopsis</i>	Barnacle Goose	1	-	-	-	-	-	0/0/1
<i>Branta ruficollis</i> (VU)	Red-breasted Goose	4	-	-	-	-	1	1/2
<i>Branta sandvicensis</i> (VU)	Nene (Hawaiian Goose)	1	-	-	-	-	-	1/0
<i>Alopochen argyrirostris</i>	Egyptian Goose	1	-	-	-	-	-	0/0/1
<i>Dendrocygna viduata</i>	White-faced Whistling Duck	1	-	-	-	-	-	0/1
<i>Tadorna tadorna</i>	Common Shelduck	6	-	-	-	2	1	1/2
<i>Aix galericulata</i>	Mandarin Duck	28	-	11	1	2	5(3)	13/10/8
<i>Aix sponsa</i>	North American Wood Duck	15	-	-	-	2	1	6/6
<i>Chenonetta jubata</i>	Australian Wood Duck	3	-	-	-	-	-	2/1
<i>Callonetta leucophrys</i>	Ringed Teal	13	4	-	-	-	-	6/9/2
<i>Anas americana</i>	American Wigeon	4	-	-	-	-	2	2/0
<i>Anas bahamensis</i>	Bahama Pintail	4	-	-	-	-	-	2/2
<i>Anas falcata</i>	Falcated Duck	2	-	-	-	-	1	0/1
<i>Nettion peponia</i>	Rosybill	4	-	-	-	1	1	0/2
<i>Nettion rufina</i>	Red-crested Pochard	8	-	-	-	-	1	3/4
<i>Aythya ferina</i>	European Pochard	4	-	1	-	-	-	1/3/1
<i>Oxyura jamaicensis jamaicensis</i>	North American Ruddy Duck	2	-	4	1	-	-	2/2/1
<i>Somateria mollissima mollissima</i>	European Eider	11	-	4	2	3	-	6/3/1
<i>Bucephala islandica</i> Barrow's	Goldeneye	2	-	-	-	-	-	1/1
<i>Mergellus albellus</i>	Smew	3	1	-	-	2	-	1/1
<i>Lophodytes cucullatus</i>	Hooded Merganser	2	4	-	-	1	-	2/3
<i>Bucephala albeola</i>	Bufflehead	-	2	-	-	-	-	1/1
Falconiformes								
<i>Coragyps atratus</i>	American Black Vulture	1	-	-	-	-	-	1/0
<i>Cathartes aura</i>	Turkey Vulture	-	1(1)	-	-	-	-	1/0
<i>Aquila chrysaetos</i>	Golden Eagle	1	-	-	-	-	1	-
<i>Melierax gabar</i>	Gabbar Goshawk	1	-	-	-	-	-	0/1
<i>Haliaeetus indus</i>	Brahmany Kite	1	-	-	-	-	-	0/0/1
<i>Haliaeetus leucoccephalus</i>	Bald Eagle	1	-	-	-	-	-	0/1
<i>Gyps africanus</i>	African White-backed Vulture	1	-	-	-	-	-	0/0/1
<i>Gyps rueppelli</i>	Ruppell's Griffon Vulture	5	-	-	-	-	-	2/3
<i>Accipiter nisus</i>	Eurasian Sparrowhawk	1	-	-	-	-	-	0/1
<i>Parabuteo unicinctus</i>	Harris's Hawk	2	-	-	-	-	-	1/1
<i>Falco biarmicus</i>	Lanner Falcon	3	-	-	-	-	-	3/0
<i>Falco cherrug</i>	Saker Falcon	1	-	-	-	-	-	0/1
<i>Falco peregrinus minor</i>	South African Peregrine Falcon	1	-	-	-	-	-	1/0
<i>Falco peregrinus peregrinus</i>	Eurasian Peregrine Falcon	-	1	-	-	1	-	-
<i>Falco columbarius</i>	Merlin	1	-	-	-	-	-	0/1
Galliformes								
<i>Tragopan temminckii</i>	Temminck's Tragopan	4	-	-	-	1	2	1/0
<i>Gallus gallus</i>	Red Jungle Fowl**	-50	-	-	-	-	-	-40
<i>Pavo cristatus</i>	Common Peafowl**	-150	-	-	-	-	-	-109
<i>Lophura edwardsi</i> (CR)	Edward's Pheasant	1	-	-	-	-	-	1/0
<i>Crossoptilon mantchuricum</i> (VU)	Brown Eared Pheasant	2	-	-	-	1	-	1/0
Gruiformes								
<i>Grua japonensis</i> (VU)	Red-crowned Crane	4	-	-	-	-	1	1/2
<i>Grua vipio</i> (VU)	White-naped Crane	4	-	3	3	-	-	2/2
<i>Grua rubicunda</i>	Brolga	3	-	-	-	-	-	2/1
<i>Grua paradisea</i> (VU)	Stanley Crane	7	-	5	2	1	6	1/2
<i>Grua carunculata</i> (VU)	Wattled Crane	3	1	-	-	-	-	2/2
<i>Caracaras cristata</i>	Red-legged Seriema	1	-	-	-	-	-	1/0
<i>Otus tarda tarda</i> (VU)	Great Bustard	1	-	-	-	1	-	-
Charadriiformes								
<i>Haematopus ostralegus</i>	Eurasian Oystercatcher	4	-	-	-	1	-	0/0/3
<i>Barbus bistratus</i>	Double-striped Thick-knee	2	-	-	-	-	-	1/1
<i>Himantopus himantopus mexicanus</i>	Black-necked Stilt	2	-	-	-	-	-	1/0/1
<i>Recurvirostra americana</i>	Pied Avocet	-	3(3)	-	-	-	-	3/1

		1	2	3	4	5	6	7
<i>Anura</i>								
<i>Dendrobates auratus</i>	Green-&-black Poison Frog	37	-	44	5	-	42	0/0/34
<i>Dendrobates pumilio</i>	Strawberry Poison Frog	8	-	-	4	-	4	-
<i>Dendrobates azureus</i>	Blue Poison Frog	4	3	-	1	-	1	1/0/4
<i>Dendrobates leucomelas</i>	Yellow-banded Poison Frog	2	-	-	-	-	-	0/0/2
<i>Dendrobates truncatus</i>	Yellow-&-black Poison Frog	31	-	3	8	-	5	2/1/9
<i>Ceratophrys cranwelli</i>	Chaocan Horned Frog	1	-	-	-	-	-	1/0
Total: Amphibians								
		83	3	47	18	-	52	63

The numbers given for fishes and invertebrates at Whipsnade represent the numbers held at the end of 1999.

FISHES

Characiformes								
<i>Serrasalmus nattereri</i>	Red-bellied Piranha	15						
<i>Cheirodon axelrodi</i>	Cardinal Tetra	30						
Cypriniformes								
<i>Barbodes schwanefeldi</i>	Tinibel Barb	5						
<i>Puntius sachsii</i>	Golden Barb	2						
<i>Labeo chrysophekadion</i>	Black Shark	1						
<i>Gyrinocheilus aymonieri</i>	Sucking Loach	2						
Cyprinodontiformes								
<i>Poecilia sp.</i>	Molly	Colony						
<i>Xiphophorus variatus variatus</i>	Platy	Colony						
<i>Xiphophorus helleri</i>	Red Swordtail	Colony						
<i>Ameletus splendens</i> (EW)	Butterfly Goodeid	>35						
<i>Pachypanchax omalonotus</i>	Madagascan Killifish	20						
Gasterosteiformes								
<i>Hippocampus kuda</i> (VU)	Seahorse	11						
Tetradontiformes								
<i>Canthigaster margaritatus</i>	Sharp-nosed Puffer	1						
Gymnotiformes								
<i>Electrophorus electricus</i>	Electric Eel	1						
Perciformes								
<i>Stomatepia sp.</i> (CR)	Barombi Mbo Cichlid	20						
<i>Tilapia sp.</i>	Tilapia	Colony						
<i>Astronotus ocellatus</i>	Oscar	3						
<i>Zelrasoma flavescens</i>	Yellow Sailfin Tang	8						
<i>Paracanthurus hepatus</i>	Regal Tang	10						
<i>Monodactylus argenteus</i>	Malayan Angel	25						
<i>Chrysiptera parasema</i>	Yellow-tailed Blue Damsel	4						
<i>Pteropichthys splendens</i>	Mandarin Fish	2						
<i>Amphiprion percula</i>	Percula Clownfish	13						
<i>Amphiprion clarkii</i>	Clark's Clownfish	2						
<i>Amphiprion melanopus</i>	Pacific Fire Clownfish	1						
<i>Premnas biaculeatus</i>	Maroon Clownfish	2						
<i>Chromis viridis</i>	Blue-green Chromis	23						
<i>Valenciennesa strigata</i>	Blue-checked Goby	4						
<i>Ptereleotris zebra</i>	Shotsilk Goby	1						
<i>Ptereleotris euides</i>	Torpedo Goby	3						
Siluriformes								
<i>Otocinclus affinis</i>	Dwarf Sucker Catfish	3						
<i>Plecostomus sp.</i>	Plecostomus Catfish	8						
<i>Corydoras aeneus</i>	Bronze Catfish	4						

		1	2	3	4	5	6	7
Psittaciformes								
<i>Psittacus erithacus erithacus</i>	Grey Parrot	1	1	-	-	-	-	1/1
<i>Agapornis personata</i>	Masked Lovebird	4	-	-	-	-	-	0/0/4
<i>Ara ararauna</i>	Blue-&-yellow Macaw	3	-	-	-	-	-	2/0/1
<i>Ara macao</i>	Scarlet Macaw	2	-	-	-	-	-	2/0
<i>Ara militaris</i> (VU)	Military Macaw	5	-	-	-	-	-	0/0/5
<i>Myiopsitta monachus</i>	Monk Parakeet	2	-	-	-	-	-	1/1
Strigiformes								
<i>Tyto alba</i>	Barn Owl	1	-	-	-	1	-	-
<i>Otus leucotis</i>	White-faced Scops Owl	1	1	-	-	-	-	1/1
<i>Bubo bubo bengalensis</i>	Bengal Eagle Owl	1	-	-	-	-	-	0/1
<i>Nyctea scandiaca</i>	Snowy Owl	1	-	-	-	-	-	1/0
<i>Strix aluco sylvatica</i>	Tawny Owl	3	-	2	-	-	-	1/1/3
<i>Strix uralensis</i>	Ural Owl	1	-	-	-	-	-	1/0
<i>Speotyto cunicularia</i>	Barrowing Owl	1	-	-	-	-	-	0/0/1
Coraciiformes								
<i>Dacelo novaeguineae</i>	Kookaburra	1	-	-	-	-	-	0/0/1
<i>Coracias caudata</i>	Lilac-breasted Roller	1	-	-	-	1	-	-
<i>Tockus erythrorhynchus</i>	Red-billed Hornbill	1	1	2	-	2	-	1/1
Piciformes								
<i>Ramphastos vitellinus citreolaemus</i>	Citron-throated Toucan	1	-	-	-	-	-	0/1
Passeriformes								
<i>Sporus superbus</i>	Superb Starling	2	1	-	-	1	-	1/1

Total: Birds 621 32(4) 64 17 42 39(3) 568

REPTILES

Testudines								
<i>Testudo hermanni</i>	Hermann's Tortoise	27	-	12	-	-	18	3/11/7
<i>Testudo kleinmanni</i> (EN)	Egyptian Tortoise	8	3	-	-	1	-	7/2/1
<i>Testudo horsfieldi</i> (VU)	Central Asian Tortoise	7	-	1	-	-	-	3/3/2
<i>Chelonia fimbriata</i>	Matamoras	2	-	-	-	-	-	0/0/2
Crocodylia								
<i>Osteoleaemus tetraspis</i> (VU)	West African Dwarf Crocodile	6	-	4	1	-	-	2/2/5
Sauria								
<i>Phelsuma standingi</i> (VU)	Standing's Day Gecko	2	-	-	-	-	-	1/1
<i>Eublepharis macularius</i>	Leopard Ground Gecko	9	-	-	-	-	9	-
<i>Gehyra gecko</i>	Tokay Gecko	-	2	-	-	-	-	1/1
<i>Basiliscus plumifrons</i>	Plumed Basilisk	1	-	-	-	-	-	0/1
<i>Iguana iguana</i>	Common Iguana	2	-	-	-	1	-	0/1
<i>Mabuya perrotetti</i>	Red-sided Skink	4	-	-	-	2	-	0/0/2
<i>Uromastyx hardwickii</i>	Indian Spiny-tailed Lizard	4	1(1)	-	-	-	-	0/1/4
<i>Chamaeleo calyptratus</i>	Yemen Chameleon	17	2	4	-	9	-	0/0/14
<i>Varanus albigularis</i>	Bosc's Monitor	2	-	-	-	-	1	0/0/1
Serpentes								
<i>Python molurus bivittatus</i>	Burmese Python	1	-	-	-	-	-	0/1
<i>Conopsis enydris cooki</i>	Cook's Tree Boa	3	-	-	-	-	3	-
<i>Eryx johni</i>	Smooth Sand Boa	2	-	-	-	-	2	-
<i>Echis carinatus</i>	Saw-scaled Viper	1	-	-	-	1	-	-
<i>Crotalus unicolor</i> (CR)	Aruba Island Rattlesnake	-	2(2)	-	-	1	-	1/0
Total: Reptiles								
		98	10(3)	21	1	15	33	80

Total Fishes: approx. 259 specimens; 4 colonies; approx. 34 species

INVERTEBRATES

ARACHNIDA

Araneae		
<i>Brachypelma smithi</i>	Red-kneed Bird-eating Spider	0/1
<i>Grammostola cola Chile</i>	Rose Bird-eating Spider	0/1
<i>Lasiodora parahybana</i>	Brazilian Bird-eating Spider	0/1
<i>Stegodytes albomaculata</i>	Gambian False Widow Spider	Colony
<i>Poecilotheria regalis</i>	Indian Ornamental Spider	0/0/14
<i>Pterinochilus sp.</i>	Usambara Orange Baboon Spider	0/1/12

SUMMARY

	1	2	3	4	5	6	7	Number of species (excluding domestic) at 31.12.99
London Zoo								
Mammals	690	113 (2)	672	82	457	155 (2)	781	89
Birds	698	62 (3)	162	43	135	54 (4)	690	138
Reptiles	463	19	181	7	121	49 (3)	486	101
Amphibians	145	67	-	-	83	5	124	21
Fishes	2909	871 (10)	1055	101	1117	233 (63)	3312	177
Total	4905	1132(15)	2070	233	1913	496 (72)	5393	526

Domestics: mammals - 15 species; birds - 3 species

Estimated number of invertebrates in the Collection at 31 December 1999:

Invertebrates: approx. 6238 specimens (+ 46 colonies) approx. 164 species

Whipsnade Wild Animal Park

Mammals	2100	19 (2)	209	68	79	42 (2)	1802	57
Birds	621	32 (4)	64	17	42	39 (3)	568	81
Reptiles	98	10 (3)	21	1	15	33	80	15
Amphibians	83	3	47	18	-	52	63	5
Total	2902	64 (9)	341	104	136	166 (5)	2513	158

Note: Births, deaths, arrivals and departures of free-ranging animals at Whipsnade are not recorded.

Domestics: mammals - 11 species

Estimated number of fishes and invertebrates in the Collection at 31 December 1999:

Fishes: approx. 259 specimens (+ 4 colonies) 34 species

Invertebrates: approx. 70 specimens (+ 13 colonies; + larvae) 27 species

Grand Total

Zoological Society of London	7807	1196	2411	337	2049	662	7906	634* excl. fishes at Whipsnade
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Grand Total of fishes: approx. 3567 specimens (+ 4 colonies) of 196 species*

Grand Total of invertebrates: approx. 6308 specimens (+ 59 colonies) of 177 species*

* The species common to London Zoo and Whipsnade Wild Animal Park are counted as one