

Capra hircus  [简体中文](#) [正體中文](#)

System: Terrestrial

Kingdom	Phylum	Class	Order	Family
Animalia	Chordata	Mammalia	Artiodactyla	Bovidae

Common name Hausziege (German), goat (English)

Synonym

Similar species

Summary The goat (*Capra hircus*) was domesticated 10,000 years ago in the highlands of western Iran. These herbivores have a highly varied diet and are able to utilise a larger number of plant species than other livestock. Goats alter plant communities and forest structure and threaten vulnerable plant species. The reduction of vegetation reduces shelter options for native animals and overgrazing in native communities leads to ecosystem degradation. Feral goats spread disease to native animals. Native fauna on islands are particularly susceptible.



[view this species on IUCN Red List](#)

Species Description

Males weigh between 45 and 55 kilos and females weigh between 25 and 35 kilos. Colouration is highly variable from mostly black, to various shades of brown, and from single-coloured to multi-coloured. Black anterior with brown posterior is a common pattern. Horns are dimorphic, having homonymous spiral and anterior keel. Males are bearded and produce pheromones during the breeding season.

Uses

The ability of goat herds to survive in harsh environments has led to their introduction onto many islands, including Saint Helena Island, the Juan Fernandez Islands and Hawaii. They provided food for colonising people (specifically European colonisers and ship crews) (Campbell and Donlan 2005). Fishermen may have spread goats onto new islands, such as San Benitos (Mexico) and Pinta Island and Marchena Island (Galapagos Islands, Ecuador) (Campbell and Donlan 2005).

Goats were domesticated 10,000 years ago in the highlands of western Iran (Zeder and Hesse 2000, in Campbell and Donlan 2005). Goats are used for their fur and meat as well as for milk and cheese production. Goat meat is the most highly consumed meat source in the world. More goats milk is consumed than cows milk. Angora goats have long soft fur which is utilised to produce a soft silk-like fabric called mohair. In New Zealand, mohair prices are strong (2006) and farm gate returns are good. Although little is known of optimum farm management systems, it is considered that the farming of angora goats could contribute to the positive growth of the economy (Mohair NZ Business Plan 2006). The French are well known for utilising goat products for economic purposes; making cheese and other goat milk products (Canus Undated). Some cosmetic products have claimed to help eczema sufferers (Johnson 2006).

Habitat Description

Goats usually move in herds that roam over territories up to 20km wide. Sometimes herd ranges can be as small as 100m². Males usually wander more widely than females. Grasslands, scrub lands, rocky outcrops and semi-open or open forests are all used extensively by goats as habitat substrate. In bad weather, they may seek shelter under rocky ledges (SPREP, 2000).

Reproduction

Both sexes are physiologically capable of reproduction at about 6 months of age. Dominant males fight to win females. They follow a serial pattern and attend to one female after another as they come into estrus. In one sense this is termed polygyny, as males breed with as many females as they can during a breeding period, but more properly this is serial monogamy as a male will tend a female for extended periods, both before and after copulation and before leaving in search of a different mate.

Realised reproduction varies among populations, seasons and years. At best a typical female goat would produce one young in its first pregnancy and twin kids in subsequent pregnancies. However, most females are at less than optimal condition, which may result in a twinning rate of as little as 0%. At best, herds may produce twins at a rate of 80% or more. Triplets are not uncommon.

Nutrition

Goats are herbivores and will forage on any palatable plants in their home range. Goats have rather large rumino-reticular volume so they are able to subsist on poorer quality plants than most herbivores, therefore goats can survive and subsist in heavily exploited environments.

In a study conducted by Chimera, Coleman and Parkes (1995) the rumen contents of 49 goats (captured in 1989) were identified and the dry weight of each component was measured to produce a breakdown of the diet of a small, unique remnant population (now extinct) of feral goats on Auckland Island (a subantarctic island located south of New Zealand). Woody plants and grasses made up the bulk of their diet (41% and 39%, respectively); seaweeds made up 13%, ferns 4% and herbaceous species 3%. At least 40 plant species were eaten by the goats, but only three species, rata (*Metrosideros umbellata*), snow tussock (*Chionochloa Antarctica*) and kelp (*Durvillea Antarctica*), made up half of the total. Rata (*Metrosideros umbellata*), *Coprosma foetidissima*, *Pseudopanax simplex* and *Carex appressa* were the most commonly found species - eaten in at least some quantity by 90%, 80%, 76% and 69% of the goats (respectively). Unidentified grasses composed 21.4% of the total contents (dry weight) and were found in 100% of goats. NB: This population had a unique genetic makeup as it evolved separately for over 100 years on an isolated island with a cold and harsh climate and so it may not represent the dietary preferences of all goats. However, it highlights the huge adaptability of goats and their ability to subsist in particular and inhospitable landscapes.

General Impacts

Biodiversity on islands is greatly threatened, making the introduction of herbivores a great risk (Campbell and Donlan 2005). Unfortunately, goats (*Capra hircus*) have been established on many such islands. Goats alter plant communities and forest structures and threaten vulnerable plant species; the flow-down effect of these outcomes includes increased soil erosion and the reduction of native fauna that share a similar environmental niche (Spatz and Mueller-Dombois 1973, Coblenz 1978, Parkes 1984, Brennan 1986, Coblenz and Van Vuren 1987, Cronk 1989, Walker 1991, Moran 1996, Desender *et al.* 1999, in Campbell and Donlan 2005). In some island ecosystems it has been the case that goats are the most destructive herbivore present (King, 1985). Feral goats are particularly destructive in such environments and cause a huge loss in native vegetation due to their grazing habits. This leads to ecosystem degradation and biodiversity loss (Coblenz 1978; Schofield 1989; Moran 1996; Desender *et al.* 1999 in Campbell and Donlan 2005).



GLOBAL INVASIVE SPECIES DATABASE

FULL ACCOUNT FOR: *Capra hircus*

Management Info

Goats have been eradicated from approximately 120 islands and there is hope that native communities will recover rapidly (Hamann 1979, 1993, in Campbell and Donlan 2005). The largest islands on which substantial goat populations have been removed are: Lanai Island (Hawaii), San Clemente (USA), Pinta Island (Galapagos Islands, Ecuador) and Raoul Island (New Zealand) (Campbell and Donlan 2005). In general, goat eradication management for islands larger than 500 hectares requires detailed planning and the use of specialised technology, equipment and personnel. Securing funds for eradication programmes may be an obstacle to goat control (Campbell and Donlan 2005).

The introduction of modern eradication technology has greatly improved the effectiveness of goat control programmes, making goat eradication more likely. Some control methods include the employment of aerial hunting (helicopter), specially trained goat-hunting dogs, Global Positioning Systems and Geographic Information System techniques as well as sterilised goats marked with radiotelemetry collars, called "Judas goats", which gravitate to, and therefore detect, wild goat herds. Judas goats are used to find wild herds and are especially suitable for finding the last few survivors or to detect the presence of wild goats when it is uncertain whether they have been eradicated. Hunting dogs are particularly useful in situations when goat density is low and vegetation density is high. Aerial hunting is appropriate in situations where there is less ground cover and a higher density of goats. Eradication is always the better option when compared to short-term control. If short-term control is chosen, goats should be kept at low densities.

Please follow this link for an [overview of the management methods adopted for the control of *Capra hircus*](#) compiled by the ISSG.

Guidelines for managing the impact of feral goats have been developed under the Vertebrate Pest Program (VPP) Australia administered by the Bureau of Resource Sciences (BRS). The purpose of these guidelines is to assist in the development of cost-effective strategies to reduce the damage feral goats' cause to production and conservation. Management techniques and strategies for feral goat management are recommended and illustrated by case studies. Deficiencies in knowledge, management and legislation are identified. Please follow this link to view and download [Parkes, J., R Henzell & G Pickles, 1995. Managing Vertebrate Pests: Feral Goats](#)

Pathway

Goats (*Capra hircus*) were released as potential food for people marooned by shipwrecks. Goats (*Capra hircus*) were introduced to islands for their milk.

Principal source:

Compiler: IUCN SSC Invasive Species Specialist Group (ISSG) with support from the Overseas Territories Environmental Programme (OTEP) project XOT603, a joint project with the Cayman Islands Government - Department of Environment

Review: Dr. Bruce Coblenz, Oregon State University, USA.

Publication date: 2010-09-15

ALIEN RANGE

[2] ANGUILLA	[1] ANTIGUA AND BARBUDA
[41] AUSTRALIA	[1] BAHAMAS
[1] BES ISLANDS (BONAIRE, SINT EUSTATIUS AND SABA)	[2] CANADA
[3] CAYMAN ISLANDS	[1] COOK ISLANDS
[1] CURACAO	[1] DOMINICAN REPUBLIC
[8] ECUADOR	[1] FALKLAND ISLANDS (MALVINAS)
[1] FIJI	[3] FRENCH POLYNESIA
[3] FRENCH SOUTHERN TERRITORIES	[1] GREECE

[2] GUADELOUPE
[1] JAMAICA
[1] MAURITIUS
[4] MEXICO
[14] NEW ZEALAND
[2] NORTHERN MARIANA ISLANDS
[1] PORTUGAL
[1] REUNION
[1] SAINT LUCIA
[4] SPAIN
[7] UNITED STATES
[4] VIRGIN ISLANDS, BRITISH

[1] HAITI
[2] KIRIBATI
[1] MAYOTTE
[1] NEW CALEDONIA
[1] NORFOLK ISLAND
[1] PITCAIRN
[1] PUERTO RICO
[4] SAINT HELENA
[3] SEYCHELLES
[2] TURKS AND CAICOS ISLANDS
[1] VENEZUELA
[1] VIRGIN ISLANDS, U.S.

Red List assessed species 284: EX = 7; EW = 1; CR = 102; EN = 80; VU = 67; LR/nt = 1; NT = 16; DD = 5; LC = 5;

[Abutilon menziesii](#) CR
[Acacia anegadensis](#) CR
[Aceros narcondami](#) EN
[Acrocephalus kerearako](#) NT
[Acrocephalus vaughani](#) EN
[Actinella laciniosa](#) VU
[Alectryon macrococcus](#) CR
[Alsinidendron trinerve](#) CR
[Amazona barbadensis](#) VU
[Androcymbium psammophilum](#) VU
[Antirrhinum charidemi](#) CR
[Aphrastura masafuerae](#) CR
[Argyroxiphium sandwicense](#) VU
[Asparagus arborescens](#) VU
[Begonia samhaensis](#) EN
[Bidens cosmoides](#) EN
[Bidens wiebkei](#) CR
[Bonamia menziesii](#) CR
[Brahea edulis](#) EN
[Brassica villosa](#) NT
[Brighamia rockii](#) CR
[Bulimulus cinerarius](#) EN
[Bulimulus indefatigabilis](#) CR
[Bulimulus nesioticus](#) VU
[Bulimulus perrus](#) VU
[Bulimulus tortuganus](#) VU
[Cabalus modestus](#) EX
[Campanula mairei](#) VU
[Canariella huttereri](#) EN
[Canavalia molokaiensis](#) CR
[Canavalia pubescens](#) CR
[Capra aegagrus](#) VU
[Centaurea princeps](#) EN
[Centranthus amazonum](#) CR
[Chamaesyce eleanoriae](#) CR
[Charpentiera densiflora](#) CR
[Chinchilla lanigera](#) CR
[Cicer canariense](#) EN
[Collocalia bartschi](#) EN

[Abutilon sandwicense](#) CR
[Acacia koaia](#) VU
[Achyranthes mutica](#) CR
[Acrocephalus luscinius](#) CR
[Actinella actinophora](#) VU
[Aethionema retsina](#) CR
[Aloe pillansii](#) CR
[Alsinidendron viscosum](#) CR
[Anas wyvilliana](#) EN
[Anolis longiceps](#) VU
[Apalis karamojae](#) VU
[Argyroxiphium kauense](#) CR
[Armeria soleirolii](#) EN
[Atelognathus reverberii](#) EN
[Bencomia exstipulata](#) VU
[Bidens molokaiensis](#) VU
[Bobeia timonioides](#) EN
[Bowdleria rufescens](#) EX
[Brassica rupestris](#) NT
[Brighamia insignis](#) CR
[Bulimulus albermalensis](#) DD
[Bulimulus darwini](#) VU
[Bulimulus jacobi](#) CR
[Bulimulus olla](#) EN
[Bulimulus sculpturatus](#) CR
[Bupleurum kakiskalae](#) CR
[Callaeas cinereus](#) EN
[Canariella eutropis](#) EN
[Canariella jandiaensis](#) CR
[Canavalia napaliensis](#) CR
[Capparis sandwichiana](#) VU
[Cenchrus agrimonioides](#) CR
[Centaurium sebaeoides](#) CR
[Centranthus trinervis](#) EN
[Chamaesyce remyi](#) CR
[Cheirolophus santos-abreui](#) CR
[Christella boydiae](#) EN
[Coccyzus ferrugineus](#) VU
[Colubrina oppositifolia](#) CR

- [Convolvulus lopezsocasii](#) EN
[Corvus hawaiiensis](#) EW
[Ctenitis squamigera](#) CR
[Cyanea asplenifolia](#) CR
[Cyclura carinata](#) CR
[Cyclura onchiopsis](#) EX
[Darevskia rostombekovi](#) EN
[Dipodomys insularis](#) CR
[Discula tetrica](#) CR
[Echium gentianoides](#) VU
[Encephalartos lehmannii](#) NT
[Erigeron frigidus](#) EN
[Euastacus australasiensis](#) LC
[Euastacus bispinosus](#) VU
[Euastacus clarkae](#) CR
[Euastacus crassus](#) EN
[Euastacus dharawalus](#) CR
[Euastacus eungella](#) CR
[Euastacus girurmulayn](#) CR
[Euastacus guruhgi](#) CR
[Euastacus hystricosus](#) EN
[Euastacus jagara](#) CR
[Euastacus maidae](#) CR
[Euastacus monteithorum](#) CR
[Euastacus polysetosus](#) EN
[Euastacus setosus](#) CR
[Euastacus spinichelatus](#) EN
[Euastacus suttoni](#) VU
[Euastacus valentulus](#) LC
[Euastacus yanga](#) LC
[Eupherusa poliocerca](#) VU
[Frankenia portulacifolia](#) VU
[Gallirallus sylvestris](#) EN
[Genista benehoavensis](#) VU
[Globularia ascanii](#) CR
[Hemicycla efferata](#) CR
[Hemignathus parvus](#) VU
[Heteromys oasicus](#) EN
[Hyloxalus infraguttatus](#) NT
[Isoplexis isabelliana](#) EN
[Kokia kauaiensis](#) CR
[Lactuca palmensis](#) LC
[Laterallus spilonotus](#) VU
[Leiopelma hochstetteri](#) VU
[Leipoa ocellata](#) VU
[Lepidoblepharis montecanoensis](#) DD
[Ligusticum huteri](#) CR
[Lotus pyranthus](#) CR
[Loxops caeruleirostris](#) CR
[Mammillaria albicoma](#) EN
[Mastus claudia](#) VU
[Melanomys zunigae](#) CR
[Melicope mucronulata](#) CR
[Metastelma anegadense](#) CR
[Cordia rupicola](#) CR
[Crambe microcarpa](#) EN
[Cumarinia odorata](#) VU
[Cyanea procera](#) CR
[Cyclura cyclura](#) VU
[Cyclura stejnegeri](#) EN
[Dendroica subita](#) NT
[Discula lyelliana](#) CR
[Ducula galeata](#) EN
[Echium handiense](#) CR
[Epicrates monensis](#) EN
[Euastacus armatus](#) DD
[Euastacus bidawalis](#) EN
[Euastacus brachythorax](#) EN
[Euastacus claytoni](#) EN
[Euastacus dalagarbe](#) CR
[Euastacus diversus](#) EN
[Euastacus gamilaroi](#) CR
[Euastacus gumar](#) EN
[Euastacus hirsutus](#) EN
[Euastacus jagabar](#) CR
[Euastacus maccai](#) EN
[Euastacus mirangudjin](#) CR
[Euastacus pilosus](#) EN
[Euastacus rieki](#) EN
[Euastacus simplex](#) VU
[Euastacus sulcatus](#) VU
[Euastacus urospinosus](#) EN
[Euastacus wiowuru](#) NT
[Euastacus yarreansis](#) VU
[Euphorbia haeleeleana](#) EN
[Fritillaria epirotica](#) EN
[Gardenia brighamii](#) CR
[Geomitra grabhami](#) CR
[Gouania vitifolia](#) CR
[Hemicycla paeteliana](#) CR
[Hesperomannia arborescens](#) CR
[Hibiscadelphus woodii](#) CR
[Iguana delicatissima](#) EN
[Isotomus jarmilae](#) EN
[Kunkeliella psilotoclada](#) CR
[Larus audouinii](#) NT
[Ledebouria insularis](#) EN
[Leiostyla macilenta](#) VU
[Lepidoblepharis colombianus](#) DD
[Leptochloa ginae](#) EN
[Limonium sventenii](#) CR
[Loxioides bailleui](#) CR
[Macaca sylvanus](#) EN
[Mastus amenazada](#) VU
[Megapodius laperouse](#) EN
[Melicope haupuensis](#) CR
[Melicope saint-johnii](#) EN
[Microcavia shiptoni](#) NT

- [Micromeria glomerata](#) CR
[Mimus melanotis](#) EN
[Minuartia dirphya](#) CR
[Moho bishopi](#) EX
[Montivipera bornmuelleri](#) EN
[Myadestes obscurus](#) VU
[Myiarchus semirufus](#) EN
[Naufraga balearica](#) CR
[Nesillas aldabrana](#) EX
[Nothocestrum peltatum](#) CR
[Obelus moratus](#) VU
[Ochrosia inventorum](#) CR
[Oldenlandia adscensionis](#) EX
[Oreomystis mana](#) EN
[Parvilacerta fraasii](#) EN
[Pennantia baylisiana](#) CR
[Petrogale penicillata](#) NT
[Picris willkommii](#) EN
[Pinguicula nevadensis](#) EN
[Podarcis lilfordi](#) EN
[Portulaca samhaensis](#) EN
[Procellaria westlandica](#) VU
[Pseudonestor xanthophrys](#) CR
[Psittirostra psittacea](#) CR
[Pterodroma arminjoniana](#) VU
[Pterodroma brevipes](#) VU
[Pterodroma externa](#) VU
[Pterodroma longirostris](#) VU
[Pterodroma phaeopygia](#) CR
[Pterodroma solandri](#) VU
[Ptilinopus huttoni](#) VU
[Puffinus newelli](#) EN
[Quercus cedrosensis](#) VU
[Ribes sardoum](#) CR
[Salvia herbanica](#) CR
[Scalesia atractyloides](#) CR
[Scalesia incisa](#) VU
[Scalesia stewartii](#) VU
[Schiedea kaalae](#) CR
[Silene holzmannii](#) EN
[Somuncuria somuncurensis](#) CR
[Sylvilagus graysoni](#) EN
[Tephrosia pondoensis](#) VU
[Thymus carnosus](#) NT
[Todiramphus godeffroyi](#) CR
[Triplax emgei](#) VU
[Tumbezia salvini](#) NT
[Vini ultramarina](#) EN
[Xerosecta giustii](#) CR

[Mimus macdonaldi](#) VU
[Mimus trifasciatus](#) CR
[Mogera uchidai](#) DD
[Monilearia granostriata](#) CR
[Munroidendron racemosum](#) CR
[Myadestes palmeri](#) CR
[Napaeus lichenicola](#) VU
[Neraudia ovata](#) CR
[Nesotriccus ridgwayi](#) VU
[Obelus discogranulatus](#) EN
[Oceanodroma macrodactyla](#) CR
[Ochrosia kilaueaensis](#) CR
[Oligosoma acrinasum](#) NT
[Paroreomyza montana](#) EN
[Pelargonium insularis](#) CR
[Peromyscus madrensis](#) EN
[Phyllodactylus leei](#) VU
[Pinaroloxias inornata](#) VU
[Podarcis levendis](#) VU
[Pomarea nukuhivae](#) EX
[Pritchardia glabrata](#) EN
[Proechimys decumanus](#) VU
[Pseudosphegastes bergeri](#) EN
[Pteralyxia kauaiensis](#) EN
[Pterodroma barau](#) EN
[Pterodroma cervicalis](#) VU
[Pterodroma feae](#) NT
[Pterodroma madeira](#) EN
[Pterodroma sandwichensis](#) VU
[Pteropus mariannus](#) EN
[Puffinus creatopus](#) VU
[Puffinus opisthomelas](#) NT
[Rhionaeschna galapagoensis](#) EN
[Ruprechtia apetala](#) LR/nt
[Scalesia aspera](#) VU
[Scalesia divisa](#) CR
[Scalesia retroflexa](#) VU
[Scalesia villosa](#) VU
[Sideritis marmorea](#) CR
[Sinapidendron sempervivifolium](#) EN
[Stenopterus creticus](#) EN
[Teline rosmarinifolia](#) EN
[Theba impugnata](#) VU
[Tinostoma smaragditis](#) EN
[Todiramphus ruficollaris](#) VU
[Trochetiopsis ebenus](#) CR
[Vermivora crissalis](#) NT
[Xantusia riversiana](#) LC
[Zelkova abelicea](#) VU

BIBLIOGRAPHY

48 references found for *Capra hircus*

Management information



GLOBAL INVASIVE SPECIES DATABASE

FULL ACCOUNT FOR: *Capra hircus*

[Medina, M. M. & Martin, A., 2009. A new invasive species in the Canary Islands: a naturalized population of ferrets *Mustela furo* in La Palma Biosphere Reserve. *Fauna & Flora International, Oryx*, 44\(1\), 41-44 doi:10.1017/S0030605309990743](#)

Summary: Available from: http://www.lacerta.de/AS/Bibliografie/BIB_5107.pdf [Accessed 30 April 2011]

[Atkinson, I. A. E. and Atkinson, T. J. 2000. Land vertebrates as invasive species on islands served by the South Pacific Regional Environment Programme. In: *Invasive Species in the Pacific: A Technical Review and Draft Regional Strategy*. South Pacific Regional Environment Programme, Samoa: 19-84.](#)

Summary: This report reviews available information on the adverse effects of 14 alien vertebrates considered to be significant invasive species on islands of the South Pacific and Hawaii, supplementing the authors' experience with that of other workers.

[Atkinson, R., J. Renteria, W. Simbana. 2008. The Consequences of Herbivore Eradication on Santiago: Are We In Time to Prevent Ecosystem Degredation Again? In Galapagos Report 2007-8 FCD, PNG, and INGALA, Puerto Ayora, Galapagos, Ecuador.](#)

[Bellchambers, K., 2004. Improving the development of effective and humane trapping systems as a control method for feral goats in Australia.](#)

[Bomford, M., 2003. Risk Assessment for the Import and Keeping of Exotic Vertebrates in Australia. Bureau of Rural Sciences, Canberra.](#)

Summary: Available from: <http://www.feral.org.au/wp-content/uploads/2010/03/PC12803.pdf> [Accessed August 19 2010]

[Bullock, D. J., S. G. North, M. E. Dulloo, and M. Thorsen., 2002. The impact of rabbit and goat eradication on the ecology of Round Island, Mauritius. In *Turning the tide: the eradication of invasive species*: 53-63. Veitch, C.R. and Clout, M.N.\(eds\). IUCN SSC Invasive Species Specialist Group. IUCN. Gland, Switzerland and Cambridge, UK.](#)

Summary: Eradication case study in *Turning the tide: the eradication of invasive species*.

[Campbell, K.J, Baxter, G.S, Murray, P.J, Coblenz, B.E, Donlan, C.J & Carrion G., V in review, Increasing the efficacy of Judas goats by sterilisation and pregnancy termination , Wildlife Research.](#)

[Campbell, K.J, Baxter, G.S, Murray, P.J, Coblenz, B.E & Donlan, J.D in review, Development of a prolonged estrus effect for use in Judas goats , Applied Animal Behaviour Science.](#)

[Campbell, K.J & Donlan, C.J 2005, A review of feral goat eradication on islands , Conservation Biology, vol. 19, no. 5, pp. 1362-74.](#)

[Coblentz, B. E. 1978. The effects of feral goats \(*Capra hircus*\) on island ecosystems. *Biological Conservation* 13\(4\): 279-286.](#)

Summary: Feral goats are implicated in habitat destruction and alteration of species composition on sensitive insular ecosystems. In the absence of population control goats become ecologically dominant and cause extinction of numerous endemic species. Removal of goats can lead to rapid recovery of suppressed flora. Problems associated with excessive goats have rarely been studied.

[Daly, K. and Gorup, P. 1987. Eradication of feral goats from small islands. *International Council for Bird Preservation*. 46pp.](#)

[Forsyth, D. M., J. P. Parkes, D. Choquenot, G. Reid, and D. Stronge., 2002. Sustained control of feral goats in Egmont National Park, New Zealand. In *Turning the tide: the eradication of invasive species*: 406 - 414 IUCN SSC Invasive Species Specialist Group. IUCN. Gland, Switzerland and Cambridge, UK.](#)

Summary: Eradication case study In *Turning the tide: the eradication of invasive species*.

[IUCN 2010. IUCN Red List of Threatened Species. Version 2010.4.](#)

Summary: The IUCN Red List of Threatened Species provides taxonomic, conservation status and distribution information on taxa that have been globally evaluated using the IUCN Red List Categories and Criteria. This system is designed to determine the relative risk of extinction, and the main purpose of the IUCN Red List is to catalogue and highlight those taxa that are facing a higher risk of global extinction (i.e. those listed as Critically Endangered, Endangered and Vulnerable). The IUCN Red List also includes information on taxa that are categorized as Extinct or Extinct in the Wild; on taxa that cannot be evaluated because of insufficient information (i.e. are Data Deficient); and on taxa that are either close to meeting the threatened thresholds or that would be threatened were it not for an ongoing taxon-specific conservation programme (i.e. are Near Threatened).

Available from: <http://www.iucnredlist.org/> [Accessed 25 May 2011]

[IUCN/SSC Invasive Species Specialist Group \(ISSG\), 2010. A Compilation of Information Sources for Conservation Managers.](#)

Summary: This compilation of information sources can be sorted on keywords for example: Baits & Lures, Non Target Species, Eradication, Monitoring, Risk Assessment, Weeds, Herbicides etc. This compilation is at present in Excel format, this will be web-enabled as a searchable database shortly. This version of the database has been developed by the IUCN SSC ISSG as part of an Overseas Territories Environmental Programme funded project XOT603 in partnership with the Cayman Islands Government - Department of Environment. The compilation is a work under progress, the ISSG will manage, maintain and enhance the database with current and newly published information, reports, journal articles etc.

[Juan Luis Rodríguez Luengo, pers.comm., Dec 20th 2006 \[Aliens-L\] Control of Barbary sheep in La Palma](#)

[Kessler, C.C., 2002. Eradication of feral goats and pigs and consequences for other biota on Sarigan Island, Commonwealth of the Northern Mariana Islands. In *Turning the tide: the eradication of invasive species*: 132-140. Veitch, C.R. and Clout, M.N.\(eds\). IUCN SSC Invasive Species Specialist Group. IUCN. Gland, Switzerland and Cambridge, UK.](#)

Summary: Eradication case study in *Turning the tide: the eradication of invasive species*.

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[Varnham, K. 2006. Non-native species in UK Overseas Territories: a review. JNCC Report 372. Peterborough: United Kingdom.](#)

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General information

Barthelat, pers. comm., 2007

Summary: Personal communication with Fabien Barthelat, an expert of flora of Mayotte.

[Chimera, C.; Coleman, M.C.; Parkes, J.P. 1995. Diet of feral goats and feral pigs on Auckland Island, New Zealand. New Zealand Journal of Ecology 19: 203-207.](#)

Summary: Available from: http://www.nzec.org.nz/nzje/free_issues/NZJcol19_2_203.pdf [Accessed 12 March 2010]

[CONABIO. 2008. Sistema de informaci3n sobre especies invasoras en M3xico. Especies invasoras - Mam3feros. Comisi3n Nacional para el Conocimiento y Uso de la Biodiversidad. Fecha de acceso.](#)

Summary: English:

The species list sheet for the Mexican information system on invasive species currently provides information related to Scientific names, family, group and common names, as well as habitat, status of invasion in Mexico, pathways of introduction and links to other specialised websites. Some of the higher risk species already have a direct link to the alert page. It is important to notice that these lists are constantly being updated, please refer to the main page (<http://www.conabio.gob.mx/invasoras/index.php/Portada>), under the section Novedades for information on updates.

Invasive species - mammals is available from: http://www.conabio.gob.mx/invasoras/index.php/Especies_invasoras_-_Mam%C3%ADferos [Accessed 30 July 2008]

Spanish:

La lista de especies del Sistema de informaci3n sobre especies invasoras de M3xico cuenta actualmente con informaci3n acerca de nombre cient3fico, familia, grupo y nombre com3n, as3 como h3bitat, estado de la invasi3n en M3xico, rutas de introducci3n y ligas a otros sitios especializados. Algunas de las especies de mayor riesgo ya tienen una liga directa a la p3gina de alertas. Es importante resaltar que estas listas se encuentran en constante proceso de actualizaci3n, por favor consulte la portada

(<http://www.conabio.gob.mx/invasoras/index.php/Portada>), en la secci3n novedades, para conocer los cambios.

Especies invasoras - Mam3feros is available from:

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[De Garine-Wichatitsky, M., Spaggiari, J., Menard, C. 2004. Ecologie et impact des ongul3s introduits sur la forêt s3che de Nouvelle Cal3donie. IAC/CIRAD, Programme Elevage et Faune, Pa3ta, Nouvelle-Cal3donie, 50p et 128 p d annexes.](#)

Feldmann, pers. comm., 2007

Summary: Personal communication with Philippe Feldmann, an biodiversity expert from the CIRAD- Centre de coop3ration internationale en recherche agronomique pour le d3veloppement

[Fraser, Ross Kingsley Timpson, Pete McClelland, Ian Hill, Greg Sherley., undated. Auckland Island Goats A Rare Breed of New Zealand Origin](#)

Summary: Available from: <http://www.rarebreeds.co.nz/auckgoats.html> [Accessed 23 February 2010]

[Gargominy, O. \(Ed.\). 2003. Biodiversité et conservation dans les collectivités françaises d'outre-mer. Comité français pour l'UICN, Paris.](#)

Summary: Synthèse sur la biodiversité des îles françaises d'outre-mer et les enjeux de conservation.

Available from: <http://www.uicn.fr/Biodiversite-outre-mer-2003.html> [Accessed 26 March 2008]

[ITIS \(Integrated Taxonomic Information System\), 2004. Online Database *Capra hircus*](#)

Summary: An online database that provides taxonomic information, common names, synonyms and geographical jurisdiction of a species. In addition links are provided to retrieve biological records and collection information from the Global Biodiversity Information Facility (GBIF) Data Portal and bioscience articles from BioOne journals.

Available from: http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=180715 [Accessed 18 February 2008]

[Lorvelec, O., Pascal, M., Delloue, X., Chapuis, J.L. 2007. Les mammifères terrestres non volants des Antilles françaises et l'introduction récente d'un écureuil. Rev.Ecol. \(Terre Vie\), 62, 295-314](#)

Summary: Bilan des introductions des mammifères terrestres dans les Antilles françaises et analyse de leurs impacts.

[Louette M. 1999. La Faune terrestre de Mayotte - Musée Royal de l'Afrique Centrale, 247 p.](#)

Summary: Synthèse générale sur la faune terrestre de Mayotte

[Meyer, J.-Y. pers. comm., 2007](#)

Summary: Personal communication with Jean Yves Meyer, from the Délégation de la Recherche of French Polynesia

[Moverly, A.V. \(1953\) Pitcairn Island: An economic survey. Transactions of the Fiji Society 4: 61-67. In: Varnham, K. \(2005\) Non-native species in UK Overseas Territories: a review. JNCC Report 372. Peterborough, United Kingdom](#)

[Muséum national d'Histoire naturelle \[Ed\]. 2003-2006. *Capra hircus*. Inventaire national du Patrimoine naturel](#)

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Summary: Synthèse des introductions d'espèces de vertébrés en Nouvelle-Calédonie et évaluation de leurs impacts.

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