

Bos taurus  正體中文

System: Terrestrial

Kingdom	Phylum	Class	Order	Family
Animalia	Chordata	Mammalia	Artiodactyla	Bovidae

Common name Hausrind (German), cattle (English)

Synonym *Bos indicus*, Linnaeus, 1758
Bos primigenius, Bojanus, 1827

Similar species

Summary Feral cattle (*Bos taurus*) are escaped or released domestic animals. Unless well contained by adequate fences, they form feral herds and wander into native vegetation wherever suitable food is available. They can severely modify native vegetation by browsing, crushing and trampling. In native forests they invariably lay bare the forest floor and eliminate nearly all young trees, shrubs and ferns until only a few unpalatable or browse-resistant species remain. In subalpine environments feral cattle open up clearings by breaking down and browsing low-canopied vegetation.



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

Species Description

Feral cattle can be distinguished from domestic stock only by their location and lack of ear marks or tags. Their size and conformation vary greatly depending on sex, age and breed. The male is heavier and larger, particularly around the head and neck. The hair is either straight or curly, and ranges from whitish to black with shades and blotches of red, roan, brown or buff. Both sexes can have horns, which are permanent and hollow, and grow throughout life over bony cores projecting from a prominent ridge on the skull. The horns of bulls are usually shorter and thicker than those of cows (Parkes, 2005).

Uses

Domestic cattle are used for meat, milk, hides and as draft animals. Feral cattle may be hunted for meat and hides.

Reproduction

The oestrus cycle is 3 weeks, and the gestation period about 9.5 months. Feral calves are most commonly born in late spring. Multiple births are unknown in feral herds. Calves are born with their eyes open, they stand and suckle almost at once, and within a few hours can follow their mother. They are usually weaned well before the next calf is born.

Males reach puberty at about 10 months of age, and thereafter are fecund throughout the year, but feral bulls do not mate until strong enough to compete for cows. Domestic cows can conceive at 6-10 months, but apparently very few do so in the wild. Cows may remain fertile for about 12 years and come in-season in spring or about 3 weeks after calving.

Nutrition

In mainland forests feral cattle browse on a very wide range of shrubs and young trees. Feral cattle are afoot at first light, feeding rapidly until the paunch is full, and then they alternate periods of chewing the cud with grazing throughout the day. Normally they ruminate lying down, but in wet weather they may stand with their backs to the wind. In bush country feral cattle will "walk down" tall saplings up to 6m high, straddling the stem in order to bend the tops within reach, and then stripping off the leaves.

General Impacts

Feral cattle can severely modify native vegetation by browsing, crushing and trampling (Aston 1912; Wodzicki 1950). In native forests they invariably lay bare the forest floor and eliminate nearly all young trees, shrubs and ferns, until only a few unpalatable or browse-resistant species remain. In subalpine environments feral cattle open up clearings by breaking down and browsing low-canopied vegetation. On sub-antarctic Enderby Island feral cattle prevented the regeneration of *Poa litorosa* tussock grassland and a variety of endemic sub-antarctic herbs (Parkes, 2005). Scott *et al.* (in Stone 1984) regarded domestic and feral cattle as the "single most destructive agent to Hawai'iian ecosystems, particularly to koa forests". Regeneration of young koa (see [Acacia koaia in IUCN Red List of Threatened Species](#)) trees is completely suppressed in some forests of Hawai'i (Baldwin and Fagerlund 1943; SPREP, 2000).

Degradation of breeding sites by introduced cattle has decreased the range and population of the 'critically endangered' Amsterdam albatross (see [Diomedea amsterdamensis in IUCN Red List of Threatened Species](#)). Across the island (BirdLife International 2007).

Management Info

Preventative measures: Well maintained fences can give adequate protection from cattle to areas of native woody vegetation (Courchamp *et al.* 2003). A fence was used on Amsterdam Island in the Indian Ocean to prevent cattle damaging the breeding grounds of the 'Critically Endangered (CR)' Amsterdam albatross (see [Diomedea amsterdamensis in IUCN Red List of Threatened Species](#)). Cattle were restricted to a small part of the island and eradicated from the rest (Micol and Jouventin, 1995).
Physical: Dogs and shooting are a standard method of control (SPREP, 2000).

Pathway

Particularly important in Hawaii and New Caledonia as the basis for a meat industry.

Principal source: Taylor R. H. (1990) in King C. M. (ed.) The Handbook of New Zealand Mammals

Compiler: IUCN/SSC Invasive Species Specialist Group (ISSG)

Review:

Publication date: 2007-07-03

ALIEN RANGE

- | | |
|---------------------------------|---------------------------------|
| [3] CAYMAN ISLANDS | [1] ECUADOR |
| [1] FALKLAND ISLANDS (MALVINAS) | [4] FIJI |
| [12] FRENCH POLYNESIA | [1] FRENCH SOUTHERN TERRITORIES |
| [1] KIRIBATI | [2] NEW CALEDONIA |
| [6] NEW ZEALAND | [2] NORTHERN MARIANA ISLANDS |
| [1] REUNION | [1] SAMOA |
| [4] TURKS AND CAICOS ISLANDS | [1] TUVALU |
| [7] UNITED STATES | [1] VIRGIN ISLANDS, BRITISH |

Red List assessed species 230: EX = 1; EW = 1; CR = 54; EN = 65; VU = 76; LR/nt = 1; NT = 27; DD = 1; LC = 4;

Global Invasive Species Database (GISD) 2024. Species profile *Bos taurus*. Available from:

<https://iucngisd.org/gisd/species.php?sc=172> [Accessed 08 May 2024]

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Abutilon eremitopetalum CR	Abutilon menziesii CR
Abutilon sandwicense CR	Acacia anegadensis CR
Acacia koaia VU	Aceros everetti VU
Achyranthes mutica CR	Achyranthes splendens VU
Acropogon bullatus NT	Albizia guillainii VU
Alectryon macrococcus CR	Apalis karamojae VU
Arborophila rufipectus EN	Ardeotis australis NT
Argyroxiphium kauense CR	Arianta chamaeleon EN
Arytera nekorensis VU	Aschisma kansanum VU
Aspidoscelis arizona NT	Assyriella rechingeri CR
Asthenes luizae NT	Atractocarpus platyxylon VU
Austromyrtus lotoides VU	Avicennia bicolor VU
Balaeniceps rex VU	Batrachoseps campi EN
Batrachoseps simatus VU	Bettongia lesueur NT
Bonamia menziesii CR	Boophis tampoka EN
Bos javanicus EN	Cadicus aquaticus CR
Callerya neocalledonica CR	Callicebus medemi VU
Calyptranthes thomasi EN	Camarhynchus pauper CR
Cambarus clivosus VU	Cambarus cymatilis EN
Canavalia veillonii CR	Capra caucasica EN
Celtis balansae VU	Cenchrus agrimonoides CR
Centaurium sebaeoides CR	Centrocercus urophasianus NT
Cephalomappa sinensis VU	Ceratogomphus triceraticus VU
Ceratozamia mexicana VU	Cercocetus galeritus EN
Cherax leckii CR	Chinchilla lanigera CR
Chlorolestes apricans EN	Cinnyricinclus femoralis VU
Cisticola aberdare EN	Commidendrum robustum EN
Cordia rupicola CR	Corvus hawaiiensis EW
Crambe scoparia EN	Crocidura harenna CR
Cryptotis nelsoni CR	Cupaniopsis globosa VU
Cyanoramphus malherbi CR	Cyclura pinguis CR
Cymbopetalum torulosum VU	Darevskia clarkorum EN
Darevskia unisexualis NT	Darevskia ullaelli EN
Diomedea amsterdamensis CR	Diomedea epomophora VU
Dioon califanoi EN	Diospyros cherrieri VU
Diospyros impolita VU	Diospyros minimifolia NT
Diospyros pustulata VU	Diplotaxis siettiana CR
Dorcatragus megalotis VU	Drepanis funerea EX
Ducula galeata EN	Eleutherodactylus armstrongi EN
Eleutherodactylus hypostenor EN	Emmenosperma pantherianum VU
Engaeus granulatus CR	Engaeus nulloporius DD
Engaeus spinicaudatus CR	Engaeus sternalis CR
Engaewa pseudoreducta CR	Engaewa reducta EN
Engaewa similis LC	Engaewa walpolea EN
Equus hemionus EN	Erigeron frigidus EN
Eriocaulon tuberiferum VU	Eudorcas rufifrons VU
Eugenia ericoides NT	Eugenia sp. nov. 'calcarea' VU
Eugenia sp. nov. 'dagostini' EN	Eugenia sp. nov. 'lepredouri' CR
Eugenia sp. nov. 'metzdorfii' EN	Felis nigripes VU
Gallinula pacifica CR	Gardenia brighamii CR
Geophaps smithii NT	Gomphus sandrius VU
Grossuana thracica CR	Guettardella sp. nov. 'durisylvatica' EN
Haematopus chathamensis EN	Heleioporus australiacus VU
Hemignathus lucidus CR	Hibiscus clayi CR

Homalium leratiorum	VU	Hyloxalus ruizi	CR
Iberolacerta aranica	EN	Iberolacerta aurelio	EN
Iberolacerta bonnali	NT	Ixora margaretae	VU
Jamesoniella undulifolia	VU	Jasminum elatum	VU
Juniperus brevifolia	VU	Justicia pinensis	EN
Kobus megaceros	EN	Kobus vardonii	NT
Laterallus spilonotus	VU	Leontodon siculus	NT
Leptaxis minor	EN	Leptopelis xenodactylus	EN
Lipocarpha kernii	LC	Litoria pearsoniana	NT
Loxioides bailleui	CR	Lycodryas citrinus	VU
Lygodactylus klemmeri	VU	Mandevilla jamesonii	CR
Megapodius laperouse	EN	Melicope hawaiensis	VU
Mertensiella caucasica	VU	Metastelma anegadense	CR
Myadestes obscurus	VU	Nanger dama	CR
Nothura minor	VU	Ochetona princeps	LC
Opuntia chaffeyi	CR	Orculella templorum	NT
Oreomystis mana	EN	Oreophasis derbianus	EN
Oryza neocaledonica	EN	Oxera balansae	EN
Oxyura australis	NT	Ozobryum ogalalense	CR
Pezoporus occidentalis	CR	Phalacrocorax colensoi	VU
Phelsuma standingi	VU	Phenacolimax blanci	VU
Philoria kundagungan	EN	Philoria loveridgei	EN
Philoria richmondensis	EN	Philoria sphagnicolus	EN
Phyllanthus deplanchei	VU	Phyllanthus unifoliatus	EN
Pichonia balansana	LC	Piliocalyx eugeniooides	EN
Pinguicula nevadensis	EN	Pinus maximartinezii	EN
Pisonia artensis	VU	Pittosporum brevispinum	EN
Pittosporum gatopense	VU	Pittosporum tannianum	CR
Platanthera praecilara	EN	Plethodontohyla fonzateana	EN
Podonephelium subaequilaterum	VU	Polyscias crenata	VU
Polyscias nothisia	EN	Pristimantis simoteriscus	EN
Pristimantis simoterus	NT	Protium inconforme	VU
Psephotus chrysoterygius	EN	Pseuderanthemum incisum	VU
Pseudobithynia ambrakis	VU	Pseudomys australis	VU
Pseudomys oralis	VU	Psychotria deverdiana	VU
Pterodroma externa	VU	Pterodroma longirostris	VU
Pterodroma phaeopygia	CR	Pterodroma sandwichensis	VU
Ptilinopus buttoni	VU	Puffinus creatopus	VU
Randia pancheriana	VU	Rhabdoena mirifica	NT
Rhabdoena stokesi	NT	Rhabdoena zasiensis	NT
Rhinella rubropunctata	VU	Ruprechtia apetala	LR/nt
Rynchops flavirostris	NT	Sceloporus exsul	CR
Serapias stenopetala	CR	Solanum hugonis	EN
Solanum pancheri	NT	Solenanthus albanicus	EN
Spermodea lamellata	NT	Sturna albostriata	EN
Sylvilagus insonus	EN	Sylvisorex cameronensis	VU
Syzygium pendulinum	EN	Syzygium poyanum	VU
Syzygium veillonii	EN	Tacheocampylaea carotii	VU
Tachyoryctes macrocephalus	EN	Taoniscus nanus	VU
Tapirus terrestris	VU	Tephrosia pondoensis	VU
Terminalia cherrieri	EN	Thalassarche carteri	EN
Todiramphus farquhari	NT	Todiramphus godeffroyi	CR
Tomichia cawstoni	CR	Trigonostemon cherrieri	CR
Turbina inopinata	CR	Turnix melanogaster	VU

[Uebelmannia buiningii](#) **CR**
[Veronica oetaea](#) **CR**
[Vini ultramarina](#) **EN**
[Vipera dinniki](#) **VU**
[Xerocrassa edmundi](#) **EN**
[Zaedyus pichiy](#) **NT**
[Zamia restrepoi](#) **CR**

[Uma paraphygas](#) **NT**
[Vestiaria coccinea](#) **VU**
[Vipera darevskii](#) **CR**
[Vipera ebneri](#) **VU**
[Xylosma grossecrenatum](#) **EN**
[Zamia loddigesii](#) **NT**
[Zavattariornis stresemanni](#) **EN**

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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.

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Courchamp, F., Chapuis, J.-L., and Pascal, M. 2003. Mammal invaders on islands: impact, control and control impact. Biological Reviews, 78: 347-383.

Summary: Comprehensive review of impacts of mammals on islands using rabbits as a case study

Klinger, R. C.; P. Schuyler, and J. D. Sterner., 2002. The response of herbaceous vegetation and endemic plant species to the removal of feral sheep from the Santa Cruz Island, California. In *Turning the tide: the eradication of invasive species*: 381-388. 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.

Rauzon, M. J., D. J. Forsell, and E. N. Flint., 2002. Seabird re-colonisation after cat eradication on equatorial Jarvis, Howland, and Baker Islands, USA, Central Pacific. In *Turning the tide: the eradication of invasive species*: 406 - 414 IUCN SSC Invasive Species Specialist Group. IUCN. Gland. Switzerland and Cambridge. UK.

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[Rescue Projects of the Rare Breeds Conservation Society of New Zealand: Enderby Island cattle.](#)

Summary: Outlines the effort invested in a rescue project to conserve the rare breed of Enderby Island cattle when conservation values conflicted with historical values.

Snowcraft, P. G. 1983. Tree cover changes in mammal-free (Sophora chrysophylla) forests grazed by sheep and cattle. Pacific Science 37: 109-119.

Taylor, R. H. 1990. Feral cattle. In King, C. M. (ed.) The Handbook of New Zealand Mammals, Oxford University Press, New Zealand: 373-379.

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

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

Summary: This database compiles information on alien species from British Overseas Territories.

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Summary: Available from: <http://www.iucnredlist.org/apps/redlist/details/144900/0> [Accessed March 8 2010]

Butaud, pers. comm., 2007

Summary: Personal communication with Jean François Butaud, an expert naturalist of French Polynesia

Chapuis, J., Boussès, P., & Barnaud, G. 1994. Alien mammals, impact and management in the French Subantarctic Islands. Biological Conservation, 67, 97-104.

Summary: Cet article présente la situation actuelle et les impacts des populations introduites de mammifères dans les îles subantarctiques françaises. Les moyens de contrôle en place ou planifiés sont également présentés.

Chapuis, J.L., & Boussès, P. 1987. Relations animal-végétation : conséquences des introductions de mammifères phytophages dans l'archipel de Kerguelen. Actes du colloque sur la Recherche française dans les Terres Australes. 269-278

Summary: L'histoire des introductions de 4 mammifères herbivores, l'évolution de leurs populations, et leurs impacts sur les communautés végétales et animales sont présentés et discutés. Des moyens de contrôle sont envisagés pour permettre la restauration de ces milieux.

De Garine-Wichatitsky, M., Spaggiari, J., Menard, C. 2004. Ecologie et impact des ongulés introduits sur la forêt sèche de Nouvelle-Calédonie. IAC/CIRAD, Programme Elevage et Faune, Païta, Nouvelle-Calédonie, 50p et 128 p d annexes.

Frenot, Y., Chown, S.L., Whinam, J., Selkirk, P., Convey, P., Skotnicki, M., & Bergstrom, D. 2005. Biological invasions in the Antarctic: extent, impacts and implications. *Bio. Rev.*, 80, 45-72.

Summary: Article de synthèse sur les invasions biologiques (plantes, invertébrés et vertébrés) en antarctique.

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Summary: Cette article propose une liste des plantes exotiques pour 3 des îles subantarctiques françaises. Le rôle passé et présent des activités humaines dans les phénomènes d invasions est discuté.

Gargominy, O., Bouchet, P., Pascal, M., Jaffre, T. and Tourneu, J. C. 1996. Conséquences des introductions d espèces animales et végétales sur la biodiversité en Nouvelle-Calédonie.. *Rev. Ecol. (Terre Vie)* 51: 375-401.

Summary: Consequences to the biodiversity of New Caledonia of the introduction of plant and animal species.

ITIS (Integrated Taxonomic Information System), 2004. Online Database *Bos taurus*

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=183838 [Accessed December 31 2004]

Meyer, J.-Y. pers. comm., 2007

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

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

Triolo, J. 2005. Guide pour la restauration écologique de la végétation indigène de La Réunion, ONF-Direction Générale de la Réunion, 88 p

Summary: Guide pratique sur la restauration écologique à la Réunion. De nombreuses informations sur la végétation et les menaces.