

## *Gallus gallus*

**System:** Terrestrial

Kingdom	Phylum	Class	Order	Family
Animalia	Chordata	Aves	Galliformes	Phasianidae

### Common name

yar (Breton), kip (Dutch), gallina (Catalan), oilasko (Basque), puddu (Sardinian), gall bankiva (Catalan), galinha (Portuguese), slepice (Czech), gaina (Romanian), gallo comune (Italian), kilhog (Breton), gjeli (Albanian), Gà rùng jabou (Vietnamese), pilence kokoška (Bulgarian), frango (Portuguese), arg (Estonian), kura (Polish), puddone (Sardinian), ayam hutan (Malay), kukko (Finnish), eean (Manx), gallo bankiva (Spanish), poulet (French), pollo (Spanish), pollastre (Catalan), piščanec (Slovenian), pragozdna kokoš (Slovenian), cearc (English, Ireland), oilo (Basque), punaviidakkokana (Finnish), sekishokuyakei (Japanese), kesykana (Finnish), haushuhn (German), pulschain (Romansh), pui (Romanian), hen kiark (Manx), domestic fowl (English), høne (Norwegian), hænsn (Icelandic), puna-džunglikana (Estonian), calis (Latvian), junglefowl (English), bankivahuhn (German), bankivahane (Norwegian), bankivahoen (Dutch), red junglefowl (English), csirke (Hungarian), cyw (Welsh), coq bankiva (French), cipka (English), caboniscu (Sardinian), høsn (Faroese), Röd djungelhöna (Swedish), caboni (Sardinian), ayam hutan merah (Indonesian Bahasa), cyplenok (Russian), kurjetko (English), koko (English), wild chicken (English), moa (Hawaiian), kurje (English), fellus (Maltese), kur bankiwa (Polish), kura divá (Slovak), kur bankivský (Czech), piliç (Turkish), kurica (Russian), pile (Croatian), kurka (Ukrainian), kuryca (Belarusian), hin (Frisian), tigiega (Maltese), galo (English, Ireland), kurjo (English), vuonccis (Northern Sami), feral chicken (English), kyckling (Swedish), manok-ihalas (Cebuano), kokoška (Macedonian), malkureome (Palauan), vista (Latvian), tavuk (Turkish), kylling (Norwegian), poul (English, Haiti), wild junglefowl (English), poleç (Friulian), bankivine viéta (Lithuanian), bankivahøne (Danish), bankivska kokoš (Slovenian), galiña (English, Ireland), höna (Swedish)

### Synonym

*Gallus domesticus*

### Similar species

### Summary

*Gallus* spp. include the many forms of domesticated chicken which have been bred and distributed widely across the world as an important food source. In addition to potentially spreading disease to other avian fauna, as generalist feeders, *Gallus* spp. may also negatively impact upon native flora and fauna.



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

### Species Description

*Gallus* spp. are highly variable medium sized birds capable of short ranged flight. While there are many different forms of *Gallus* spp., a number of characteristics are considered to indicate a pure *G. gallus* individual. These are the presence of an "eclipse" plumage in the males, absence of a comb and wattles in the female, slender dark legs, tail posture, call characteristics, and a generally wild and wary behaviour (Peterson & Brisbin, 1999). Sexual dimorphism is common in this genus, with males being generally larger, with a larger comb and wattles.



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FULL ACCOUNT FOR: *Gallus gallus*

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## Notes

*Gallus gallus* is thought to have provided the genetic stock for various domesticated breeds of chicken *Gallus* spp. which are widely distributed across the world. As the subspecies are capable of interbreeding, it is possible that the original pure genetic strain of *G. gallus* could actually be extinct or critically endangered (Peterson & Brisbin, 1999). A survey of 745 museum specimens suggests that most wild populations of *G. gallus* have been contaminated by introgression of genes from domesticated and feral chickens (Peterson & Brisbin, 1999).

## Uses

*Gallus gallus* has been bred to produce many different domesticated variants which are used and widely distributed as a source of food (Pyle & Pyle, 2009).

## Nutrition

*Gallus* spp. are generalist feeders on a wide range of invertebrates and vertebrates as well as plants and seeds.

## General Impacts

*Gallus* spp. also can carry a number of diseases which may be harmful to other avian fauna such as [Newcastle Disease \(NDV\)](#), *Mycoplasma gallisepticum*, and the proventricular parasite *Dispharynx* sp. on the Galapagos Islands (Gottdenka *et al.*, 2005).

In populations of *Gallus* spp. bred for food, there are risks of carrying disease causing pathogens such as *Toxoplasma gondii* and *Salmonella* spp. (Dubey, 2009). Although not confirmed, there were also fears that *Gallus* spp. could be a vector for the H5N1 avian bird flu (Daily Gazette, 2006).

Having a highly generalist diet, *Gallus* spp. could negatively impact native invertebrates and vertebrates as well as native plants (Varnham, 2006). Feral *Gallus* spp. are also known to be a pest on farms, damaging crops and potentially spreading disease to domesticated *Gallus* spp. populations (Varnham, 1996; Daily Gazette, 1998.). In high numbers, *Gallus* spp. can become a human nuisance due to the noise made by males.

They are potential risks to aircraft near airports (Daily Gazette, 1998).

## Management Info

**Physical control:** Feral individual *Gallus* spp. are often controlled via shooting or trapping as carried out on Bermuda and the Cayman Islands (Varnham, 2006). On the Cayman Islands, trapped feral individuals were then distributed to people who kept chickens (Varnham, 2006).

**Chemical control:** On Lord Howe Island, *Gallus* spp. were one of the species identified to be put at risk from use of brodifacoum for rodent eradication (Lord Howe Island Board, 2009). However, no information could be found regarding chemical control programs for *Gallus* spp.. On Bermuda, chemical control was not considered due to the risk of non-target effects on other avian fauna and farmer's crops (Daily Gazette, 2006).

## Pathway

*Gallus* spp. have been widely distributed and bred as a food source for humans (Pyle & Pyle, 2009).

## 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:

**Publication date:** 2010-06-09

## ALIEN RANGE

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FULL ACCOUNT FOR: *Gallus gallus*

[1] ANGUILLA  
[1] BERMUDA  
[1] CAYMAN ISLANDS  
[1] GUAM  
[1] MICRONESIA, FEDERATED STATES OF  
[1] NAURU  
[1] PALAU  
[1] UNITED STATES

[3] AUSTRALIA  
[2] BRITISH INDIAN OCEAN TERRITORY  
[1] ECUADOR  
[1] MARSHALL ISLANDS  
[1] MONTSERRAT  
[1] NORTHERN MARIANA ISLANDS  
[1] TURKS AND CAICOS ISLANDS

**Red List assessed species 10: CR = 1; EN = 2; VU = 4; LC = 3;**

[Atelopus guanujo](#) **CR**

[Gallirallus philippensis andrewsi](#) **LC**

[Larus fuliginosus](#) **VU**

[Megapodius nicobariensis](#) **VU**

[Rhinophis oxyrhynchus](#) **LC**

[Cnemaspis kandiana](#) **LC**

[Iguana delicatissima](#) **EN**

[Megapodius bernsteinii](#) **VU**

[Phalacrocorax harrisi](#) **VU**

[Spheniscus mendiculus](#) **EN**

## BIBLIOGRAPHY

**31** references found for *Gallus gallus*

### Management information

[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]

[Bomford, M. 2008. Risk assessment models for establishment of exotic vertebrates in Australia and New Zealand. Invasive Animals Cooperative Research Centre, Canberra.](#)

**Summary:** Available from: [http://www.feral.org.au/wp-content/uploads/2010/03/Risk\\_Assess\\_Models\\_2008\\_FINAL.pdf](http://www.feral.org.au/wp-content/uploads/2010/03/Risk_Assess_Models_2008_FINAL.pdf) [Accessed 19 August 2010]

[Department of Environment and Rural Affairs \(DEFRA\), 2007. UK National Control Programme for Salmonella in Layers \(\*Gallus gallus\*\)](#)

**Summary:** Available from: <http://www.defra.gov.uk/foodfarm/farmanimal/diseases/atoz/zoonoses/documents/salmonella-layers.pdf> [Accessed 3 April 2010]

[Dubey, J. P., 2009. Toxoplasma gondii Infections in Chickens \(\*Gallus domesticus\*\): Prevalence, Clinical Disease, Diagnosis and Public Health Significance. Zoonoses and Public Health Volume 57 Issue 1, Pages 60 - 73](#)

[Duncan, Richard P., Mary Bomford, David M. Forsyth, Louise Conibear, 2001. High Predictability in Introduction Outcomes and the Geographical Range Size of Introduced Australian Birds: A Role for Climate. Journal of Animal Ecology, Vol. 70, No. 4 \(Jul., 2001\), pp. 621-632](#)

[Fassbinder-Orth; Carol A. Hofmeister, Erik K.; Weeks-Levy, Carolyn; Karasov, William H., 2009. Oral and Parenteral Immunization of Chickens \(\*Gallus gallus\*\) Against West Nile Virus with Recombinant Envelope Protein. Avian Diseases. 53\(4\). DEC 2009. 502-509](#)

[Gottdenker, Nicole L.; Timothy Walsh; Hernan Vargas; Jane Merkel; Gustavo U. Jimenez; R. Eric Miller; Murray Dailey; Patricia G. Parker, 2005. Assessing the risks of introduced chickens and their pathogens to native birds in the Galapagos Archipelago. Biological Conservation 126 \(2005\) 429-439](#)

[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.

[Miller, E., Parker P., Duncan M., Merkel J., Padi l la L., Vargas H., Snel l H., 2003. Developing an Early Warning System to Monitor Avian Health in the Gallapagos Islands. Verh.ber. Erkrq. Zootiere \(2003\) 41.](#)

**Summary:** Available from:

<http://library.vetmed.fu-berlin.de/resources/global/contents/VET164623/IZW/Rome%20PDF/Microsoft%20Word%20-%20Miller.pdf> [Accessed 3 April 2010]

[Montserrat Centre Hills Project. 2005. Enabling the effective conservation and management of natural resources within Montserrat's Centre Hills.](#)

**Summary:** Available from <http://darwin.defra.gov.uk/documents/14027/1216/Annex%20%20-%20Montserrat%20CHP%20Leaflet.pdf> [Accessed 8 April 2010]

[Permin, A., and G. Pedersen, undated. The need for a holistic view on disease problems in free-range chickens. Network for Smallholder Poultry Development The Royal Veterinary and Agricultural University Frederiksberg, Denmark](#)

**Summary:** Available from: <http://www.naweb.iaea.org/nafa/aph/public/1-the-need-permin.pdf> [Accessed 3 April 2010]

[Rauw, Fabienne; Gardin, Yannick; van den Berg, Thierry; Lambrecht, Benedicte, 2009. Vaccination against Newcastle disease in chickens.. Biotechnologie Agronomie Societe et Environnement. 13\(4\). 2009. 587-596.](#)

[Sol, Daniel and Louis Lefebvre, 2000. Behavioural Flexibility Predicts Invasion Success in Birds Introduced to New Zealand Oikos, Vol. 90, No. 3 \(Sep., 2000\), pp. 599-605](#)

[The Daily Gazette. 2006. Chicken cull to combat bird flu.](#)

**Summary:** Available from <http://www.royalgazette.com/rg/Article/article.jsp?sectionId=60&articleId=7d628923003001c> [Accessed 8 April 2010]

Global Invasive Species Database (GISD) 2025. Species profile *Gallus gallus*. Available from:

<https://iucngisd.org/gisd/species.php?sc=1661> [Accessed 31 March 2025]



# GLOBAL INVASIVE SPECIES DATABASE

FULL ACCOUNT FOR: *Gallus gallus*

## General information

Anderson, Atholl, 2009. The rat and the octopus: initial human colonization and the prehistoric introduction of domestic animals to Remote Oceania. *Biological Invasions*. 11(7). AUG 2009. 1503-1519.

[Avibase, 2003. Red Junglefowl \(\*Gallus gallus\*\) \(Linnaeus, 1758\)](#)

**Summary:** Available from: <http://avibase.bsc-eoc.org/species.jsp?avibaseid=3749777E14C923E9> [Accessed 3 April 2010]

[Bergman, David L., Monte D. Chandler and Adrienne Locklear, undated. The Economic Impacts of Invasive Species to Wildlife Service Cooperators. Human Conflicts with Wildlife: Economic Considerations](#)

**Summary:** Available from: [http://168.68.129.70/wildlife\\_damage/nwrc/symposia/economics\\_symposium/bergmanHR.pdf](http://168.68.129.70/wildlife_damage/nwrc/symposia/economics_symposium/bergmanHR.pdf) [Accessed 3 April 2010]

[BirdLife International 2009. \*Gallus gallus\*. In: IUCN 2010. IUCN Red List of Threatened Species.](#)

**Summary:** Available from: <http://www.iucnredlist.org/apps/redlist/details/141319/0> [Accessed 3 April 2010]

[Cook Islands Biodiversity & Natural Heritage, 2007. Species Page \*Gallus gallus\* Moa / Moa Rere-vao Domestic Fowl](#)

**Summary:** Available from: <http://cookislands.bishopmuseum.org/species.asp?id=8486> [Accessed 3 April 2010]

Cronk, Q. C. B., 1980. Extinction and Survival in the Endemic Vascular Flora of Ascension Island. *Biological Conservation* 17 (1980) 207-219

Fitzpatrick, Scott M. & Richard Callaghan, 2009. Examining dispersal mechanisms for the translocation of chicken (*Gallus gallus*) from Polynesia to South America. *Journal of Archaeological Science* Volume 36, Issue 2, February 2009, Pages 214-223

[Integrated Taxonomic Information System \(ITIS\), 2010. \*Gallus gallus\* \(Linnaeus, 1758\)](#)

**Summary:** Available from: [http://www.itis.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=176086](http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=176086) [Accessed 3 April 2010]

[Lord Howe Island Board 2009. Draft Lord Howe Island Rodent Eradication Plan, Lord Howe Island Board, Lord Howe Island.](#)

**Summary:** Available from: <http://www.environment.nsw.gov.au/resources/pestsweeds/draftLHIrodentplan.pdf> [Accessed 3 April 2010]

Mironov, S. V.; Perez, T. M.; Palma, R. L., 2009. A New Genus of Feather Mite of the Family Pterolichidae (Acari: Stigmata) from *Gallus gallus* (Galliformes: Phasianidae) in the Galapagos Islands. *Acarina*. 17(1). 2009. 57-64.

[Pyle, R.L., and P. Pyle. 2009. The Birds of the Hawaiian Islands: Occurrence, History, Distribution, and Status. B.P. Bishop Museum, Honolulu, HI, U.S.A. Version 1 \(31 December 2009\)](#)

**Summary:** Available from: <http://hbs.bishopmuseum.org/birds/rlp-monograph/pdfs/02-Galliformes-Procariiformes/REJU.pdf> [Accessed 3 April 2010]

Spaggiari, J. & M. De Garine-Wichatitsky, 2006. Home range and habitat use of introduced rusa deer (*Cervus timorensis russa*) in a mosaic of savannah and native sclerophyll forest of New Caledonia. *New Zealand Journal of Zoology*, 2006, Vol. 33: 175-183

[The Daily Gazette. 1998. As feral cats die off, chickens multiply.](#)

**Summary:** Available from <http://www.royalgazette.com/rg/Article/article.jsp?sectionId=60&articleId=7ce409330030008> [Accessed 8 April 2010]

[The Daily Gazette. 2006. Govt.: Poisoning feral chickens is illegal.](#)

**Summary:** Available from <http://www.royalgazette.com/rg/Article/article.jsp?sectionId=60&articleId=7d4aa0e30030014> [Accessed 8 April, 2010]

[Theuerkauf, Jorn; Herve Jourdan; Sophie Rouys; Roman Gula; Marta Gajewska; Katarzyna Unrug; Ralph Kuehn, 2010. Inventory of alien birds and mammals in the Wallis and Futuna Archipelago. Biol Invasions](#)

**Summary:** Available from: [http://www.sprep.org/att/irc/ecopies/countries/wallis\\_and\\_futuna/6.pdf](http://www.sprep.org/att/irc/ecopies/countries/wallis_and_futuna/6.pdf) [Accessed 3 April 2010]

Townsend Peterson, A., and I. Lehr Brisbin, Jr., 1999. Genetic Endangerment of wild Red Junglefowl *Gallus gallus*? *Bird Conservation International* (1999) 9: 387-394

Townsend Peterson, A., and I. Lehr Brisbin, Jr., 2005. Phenotypic status of red Junglefowl *Gallus gallus* populations introduced on Pacific Islands. *Bull. B.O.C* 2005 125 (1)