# *Tetrao urogallus* (Western Capercaillie)

## European Red List of Birds

## Supplementary Material

The European Union (EU28) Red List assessments were based principally on the official data reported by EU Member States to the European Commission under Article 12 of the Birds Directive in 2019-20. For the European Red List assessments, similar data were sourced from BirdLife Partners and other collaborating experts in other European countries and territories. For more information, see BirdLife International (2021).

**Contents**

Reported national population sizes and trends
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Species factsheet bibliography

**Recommended citation**

BirdLife International (2021) European Red List of Birds. Luxembourg: Publications Office of the European Union.

**Further information**

http://datazone.birdlife.org/info/euroredlist
http://www.birdlife.org/europe-and-central-asia/european-red-list-birds-0
http://www.iucnredlist.org/regions/europe
http://ec.europa.eu/environment/nature/conservation/species/redlist/

**Data requests and feedback**

To request access to these data in electronic format, provide new information, correct any errors or provide feedback, please email science@birdlife.org.

**Table 1**. Reported national breeding population size and trends in Europe[1].

| Country (or territory)[2] | Population estimate | | | | Short-term population trend[5] | | | | Long-term population trend[5] | | | | Subspecific population (where relevant) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Size (pairs)[3] | Europe (%) | Year(s) | Method[4] | Direction[6] | Magnitude (%)[7] | Year(s) | Method[4] | Direction[6] | Magnitude (%)[7] | Year(s) | Method[4] | |
| Albania | 70–140 | <1 | 2007-2018 | partial | + | 440 to 600 | 2007-2018 | partial | + | 350 to 600 | 1980-2018 | expert | |
| Andorra | 11–70 | <1 | 2014-2017 | expert | ? | | 2011-2018 | deficient | ? | | | | |
| Austria | 10000–12500 | 1 | 2013-2018 | partial | 0 | | 2007-2018 | partial | ? | | 1981-2018 | expert | all others |
| Belarus | 4200–4500 | <1 | 2010-2018 | partial | 0 | -10 to 10 | 2012-2019 | expert | + | 2 to 3 | 1980-2019 | expert | |
| Bosnia & HG | 600–1000 | <1 | 2015-2018 | complete | - | -10 to -1 | 2007-2018 | complete | ? | | 1980-2018 | deficient | |
| Bulgaria | 1000–1200 | <1 | 2013-2018 | partial | - | -10 to -1 | 2000-2018 | partial | - | -40 to -30 | 1980-2018 | partial | all others |
| Croatia | 50–100 | <1 | 2010-2015 | expert | - | | 2007-2018 | expert | - | | 1980-2018 | expert | all others |
| Czechia | 90–200 | <1 | 2014-2017 | complete | ? | | 2007-2018 | deficient | ? | | 1980-2018 | deficient | all others |
| Estonia | 1300–1600 | <1 | 2013-2017 | complete | - | -15 to -11 | 2006-2017 | complete | - | -47 to -41 | 1980-2017 | complete | all others |
| Finland | 202000–676000 | 24 | 2013-2018 | complete | - | -20 to -7 | 2007-2018 | complete | - | -22 to -3 | 1987-2018 | complete | all others |
| France | 2400–3600 | <1 | 2010-2017 | complete | 0 | | 2010-2017 | partial | - | -60 to -20 | 1980-2012 | partial | aquitanicus |
| France | 200–260 | <1 | 2013-2018 | complete | - | -30 to -15 | 2000-2012 | complete | - | -60 to -50 | 1980-2012 | complete | all others |
| Germany | 750–1000 | <1 | 2012-2016 | expert | - | | 2004-2016 | expert | - | | 1980-2016 | expert | all others |
| Greece | 150–180 | <1 | 2015 | partial | ? | | 2007-2018 | deficient | ? | | 1980-2018 | deficient | all others |
| Italy | 1800–2500 | <1 | 2013-2018 | expert | ? | | 2007-2018 | deficient | - | -30 to -10 | 1993-2018 | expert | all others |
| Kosovo | 30–60 | <1 | 2007-2019 | partial | ? | | 2007-2018 | expert | 0 | | 1990-2018 | partial | |
| Latvia | 1900–2000 | <1 | 2015-2015 | complete | 0 | | 2007-2018 | expert | ? | | 1991-2012 | deficient | all others |
| Lithuania | 300–400 | <1 | 2013-2018 | partial | 0 | 0 | 2013-2018 | partial | - | -15 to -10 | 1980-2018 | partial | all others |
| North Macedonia | 0 | <1 | 2014-2019 | expert | 0 | | 2007-2018 | expert | ? | | 1980-2019 | | |
| Montenegro | 810–1100 | <1 | 2013-2018 | partial | + | | 2007-2018 | expert | ? | | | | |
| Norway | 40000–50000 | 4 | 2013-2018 | expert | F | | 2013-2018 | partial | ? | | 1980-2018 | partial | |
| Poland | 260–320 | <1 | 2016-2018 | partial | + | 25 to 30 | 2007-2018 | expert | - | -70 to -60 | 1980-2018 | expert | all others |
| Romania | 2500–6000 | <1 | 2013-2018 | expert | ? | | 2007-2018 | deficient | ? | | 1980-2018 | deficient | all others |
| Russia | 280000–480000 | 35 | 2008-2018 | partial | ? | | 2008-2018 | deficient | ? | | 1980-2018 | deficient | |
| Serbia | 250–390 | <1 | 2013-2018 | expert | - | -29 to -10 | 2007-2018 | expert | - | -29 to -10 | 1980-2018 | expert | |
| Slovakia | 300–420 | <1 | 2013-2018 | partial | - | -50 to -30 | 2007-2018 | partial | - | -70 to -30 | 1980-2018 | partial | all others |
| Slovenia | 550–600 | <1 | 2002-2017 | partial | - | -20 to -5 | 2001-2018 | partial | - | -40 to -20 | 1980-2012 | partial | all others |
| Spain | 370–430 | <1 | 2016-2018 | complete | - | -34 to -24 | 2007-2018 | complete | - | -45 to -44 | 1980-2018 | complete | aquitanicus |
| Spain | 180–220 | <1 | 2018 | complete | - | -79 to -33 | 2009-2018 | complete | - | -77 to -42 | 1980-2018 | partial | cantabricus |
| Sweden | 244000–458000 | 33 | 2013-2018 | partial | 0 | -30 to 10 | 2007-2018 | partial | 0 | -59 to 382 | 1980-2018 | partial | all others |
| Switzerland | 380–480 | <1 | 2013–2016 | complete | 0 | -3 to 81 | 2007-2018 | complete | - | -46 to -19 | 1990-2018 | complete | |
| Ukraine | 800–1000 | <1 | 2015-2017 | complete | - | | 1997-2005 | complete | - | | 1981-2005 | partial | |

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**Table 1**. Reported national breeding population size and trends in Europe[1].

| Country (or territory)[2] | Population estimate | | | | Short-term population trend[5] | | | | Long-term population trend[5] | | | | Subspecific population (where relevant) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Size (pairs)[3] | Europe (%) | Year(s) | Method[4] | Direction[6] | Magnitude (%)[7] | Year(s) | Method[4] | Direction[6] | Magnitude (%)[7] | Year(s) | Method[4] | |
| United Kingdom | 260–760 | <1 | 2015-2016 | complete | - | | 2009-2015 | complete | - | | 1992-2010 | complete | all others |
| EU28 | 468000–1170000 | 60 | | | | | | | | | | | |
| **Europe** | **798000–1710000** | **100** | | | | | | | | | | | |

[1] See 'Sources' at end of factsheet, and for more details on individual EU Member State reports, see the Article 12 reporting portal at http://bd.eionet.europa.eu/article12/report.
[2] The designation of geographical entities and the presentation of the material do not imply the expression of any opinion whatsoever on the part of IUCN or BirdLife International concerning the legal status of any country, territory or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.
[3] In the few cases where population size estimates were reported in units other than those specified, they were converted to the correct units using standard correction factors.
[4] The 'method used' (replacing the data 'quality' assessment in the 2015 European Red List) is reported as: a) Complete: complete survey or a statistically robust estimate; b) Partial: based mainly on extrapolation from a limited amount of data; c) Expert: based mainly on expert opinion with very limited data; d) Defficient: insufficient or no data available.
[5] The robustness of regional trends to the effects of any missing or incomplete data was tested using plausible scenarios, based on other sources of information, including any other reported information, recent national Red Lists, scientific literature, other publications and consultation with relevant experts.
[6] Trend directions are reported as: increasing (+); decreasing (-); stable (0); fluctuating (F); or unknown (?).
[7] Trend magnitudes are rounded to the nearest integer.

# Trend maps

A symbol appears in each country where the species occurs: the shape and colour of the symbol represent the population trend in that country, and the size of the symbol corresponds to the proportion of the European population occurring in that country.

**KEY**

- Large increase (≥50%)
- Moderate increase (20–49%)
- Small increase (<20%)
- Increase of unknown magnitude
- Large decrease (≥50%)
- Moderate decrease (20–49%)
- Small decrease (<20%)
- Decrease of unknown magnitude
- Stable or fluctuating
- Unknown
- Present (no population or trend data)
- Extinct since 1980

Each symbol, with the exception of Present and Extinct, may occur in up to three different size classes, corresponding to the proportion of the European population occurring in that country.

- Large: ≥10% of the European population
- Medium: 1–9% of the European population
- Small: <1% of the European population

The designation of geographical entities and the presentation of the material do not imply the expression of any opinion whatsoever on the part of IUCN or BirdLife International concerning the legal status of any country, territory or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**Figure 1.** Breeding population sizes and short-term trends across Europe.

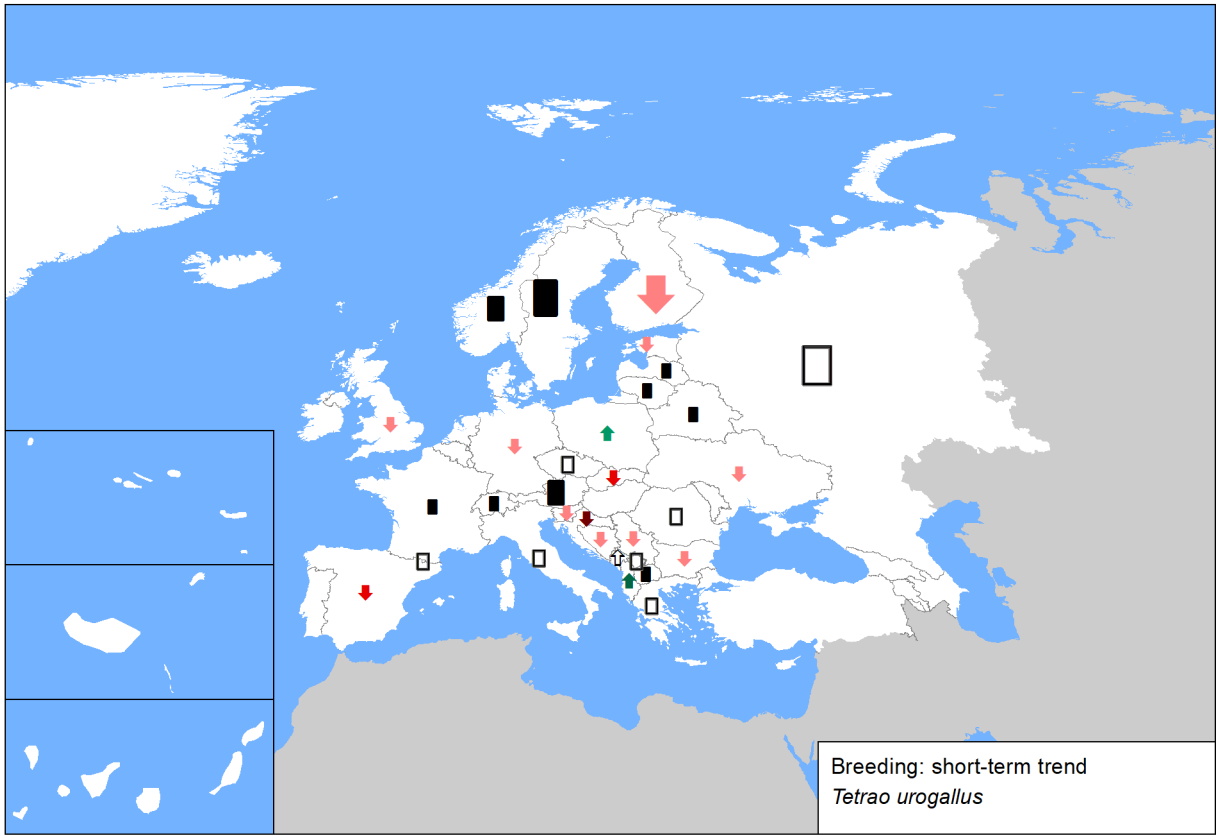
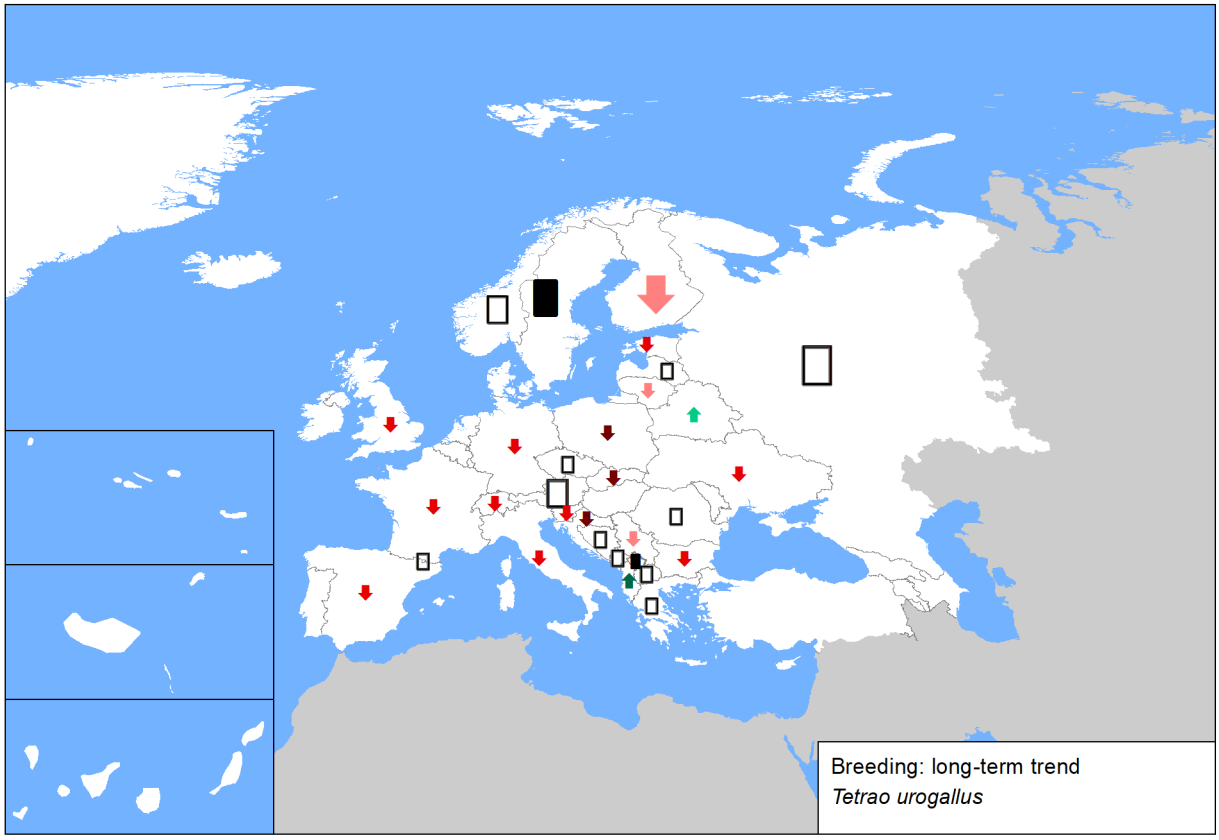



**Figure 2.** Breeding population sizes and long-term trends across Europe.



# Sources

## Albania

| |
|---|
| **Breeding population size:** Bino & Xeka pers. obs. |
| **Breeding short-term trend:** Bino & Xeka pers. obs. |
| **Breeding long-term trend:** Bino pers. obs. |

## Andorra

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|---|
| **Breeding population size:** Fieldwork EBBA2, published at "Guia dels ocells d'Andorra. J. Nicolau & C. Pladevall, 2018" |
| **Breeding short-term trend:** Common Bird Monitoring Scheme of Andorra (SOCA) |

## Austria: all others

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|---|
| **Breeding population size:** BirdLife Austria, estimate based on a sample of breeding densities from different sites and habitats (minimum estimate); state hunting associations (Landesjagdverbände der Bundesländer), results of counts of displaying males on lekking grounds (maximum estimate) |
| **Breeding short-term trend:** BirdLife Austria, unpublished data from www.ornitho.at; BirdLife Austria, unpublished archive data; state hunting associations (Landesjagdverbände der Bundesländer), results of counts of displaying males on lekking grounds (maximum estimate) |
| **Breeding long-term trend:** BirdLife Austria |

## Belarus

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|---|
| **Breeding population size:** Research work of the National Academy of Sciences of the Republic of Belarus “Dynamics and predictive assessment of changes in the state of populations of the main resource and biocenotically most important bird species in Belarus” |
| **Breeding long-term trend:** Nikiforov M.E., Pavlyushchik T.E., Kozulin A.V., Pareiko O.N., Cherkas N.D., Byshnev I.I. The status of Capercaillie, Tetrao urogallus, in Belarus // Belovezskaya Pushcha Forest Biodiversity Conservation / Ed. A. Luchkov et. al. - Minsk, 1997. - P. 244-261 Tatiana Pawluszczyk Stan populacji głuszca na Białorusi. //Ochrona kurakow lesnych. – Warszawa, 2008. - P.262-275 Pavlushchick T.E. Contemporary status of Capercaillie population in Belarus // State of the environment in Belarus. Ecological Bulletin. – 2012. – Minsk. – P. 266-272 |

## Bosnia and Herzegovina

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|---|
| **Breeding population size:** Based on data for EBBA2 |
| **Breeding short-term trend:** more individual articles e.g published in magazine Bilten mreže posmatrača ptica u Bosni i Hercegovini-see https://ptice.ba/bs/category/bilteni_/), individual reports (e.g. for EBBA2, projects etc) |

## Bulgaria: all others

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|---|
| **Breeding population size:** BSPB Bird Database; Golemansky V. (ed.) 2011. Red Data Book of Bulgaria. Vol. 2, Animals. Http://e-ecodb.bas.bg/rdb/en/vol2/; Iankov, P. (ed.) 2007 Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 679 p.; National Art. 12 reporting database 2013-2018; Plachiyski, D., G.S: Popgeorgiev, S.G. Avramov & Z.N. Boev (2018): The Balkan Capercaillie Tetrao urogallus rudolfi Dombrowski, 1912 (Galliformes: Phasanidae): Distribution History and Current Status in Bulgaria. Acta Zool. Bulg. 70(1): 101-111. |
| **Breeding short-term trend:** BSPB Bird Database; Golemansky V. (ed.) 2011. Red Data Book of Bulgaria. Vol. 2, Animals. Http://e-ecodb.bas.bg/rdb/en/vol2/; Iankov, P. (ed.) 2007 Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 679 p.; Petrov, I. K. (2008) Acta Zool. Bulg.,Suppl. 2: 35-40.; National Art. 12 reporting database 2013-2018; Plachiyski, D., G.S: Popgeorgiev, S.G. Avramov & Z.N. Boev (2018): The Balkan Capercaillie Tetrao urogallus rudolfi Dombrowski, 1912 (Galliformes: Phasanidae): Distribution History and Current Status in Bulgaria. Acta Zool. Bulg. 70(1): 101-111. |
| **Breeding long-term trend:** Plachiyski, D., G.S: Popgeorgiev, S.G. Avramov & Z.N. Boev (2018): The Balkan Capercaillie Tetrao urogallus rudolfi Dombrowski, 1912 (Galliformes: Phasanidae): Distribution History and Current Status in Bulgaria. Acta Zool. Bulg. 70(1): 101-111.BSPB Bird Database; Golemansky V. (ed.) 2011. Red Data Book of Bulgaria. Vol. 2, Animals. Http://e-ecodb.bas.bg/rdb/en/vol2/; Iankov, P. (ed.) 2007 Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 679 p.; Petrov, I. K. (2008) Acta Zool. Bulg.,Suppl. 2: 35-40; Simeonov, S., T. Michev, D. Nankinov. 1990. The Fauna of Bulgaria. Vol. 20. AVES. Part I. BAS Press, Sofia. 350 pp. (in Bulgarian with English Summary) |

## Croatia: all others

| |
|---|
| **Breeding population size:** Tutiš, V., Kralj, J., Radović, D., Ćiković, D., Barišić, S. (ur.) (2013): Crvena knjiga ptica Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Zagreb, 258 str. Grubešić M. , K. Tomljanović, M. Ančić (2015): Monitoring tetrijeba gluhana (Tetrao urogallus) na području Primorsko-goranske županije za 2015. godinu s analizom razloga ugroženosti i prijedlogom mjera zaštite tetrijeba gluhana i njegovih staništa. Stručna studija. Šumarski fakultet Sveučilišta u Zagrebu. Zagreb. 39 str. |
| **Breeding short-term trend:** Tutiš, V., Kralj, J., Radović, D., Ćiković, D., Barišić, S. (ur.) (2013): Crvena knjiga ptica Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Zagreb, 258 str. Grubešić M. , K. Tomljanović, M. Ančić (2015): Monitoring tetrijeba gluhana (Tetrao urogallus) na području Primorsko-goranske županije za 2015. godinu s analizom razloga ugroženosti i prijedlogom mjera zaštite tetrijeba gluhana i njegovih staništa. Stručna studija. Šumarski fakultet Sveučilišta u Zagrebu. Zagreb. 39 str. |
| **Breeding long-term trend:** Tutiš, V., Kralj, J., Radović, D., Ćiković, D., Barišić, S. (ur.) (2013): Crvena knjiga ptica Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Zagreb, 258 str. Grubešić M. , K. Tomljanović, M. Ančić (2015): Monitoring tetrijeba gluhana (Tetrao urogallus) na području Primorsko-goranske županije za 2015. godinu s analizom razloga ugroženosti i prijedlogom mjera zaštite tetrijeba gluhana i njegovih staništa. Stručna studija. Šumarski fakultet Sveučilišta u Zagrebu. Zagreb. 39 str. |

## Czechia: all others

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|---|
| **Breeding population size:** Šťastný et Bejček in prep. - Atlas hnízdního rozšíření ptáků ČR 2014-2017 |
| **Breeding short-term trend:** expert opinion |
| **Breeding long-term trend:** expert opinion |

## Estonia: all others

| |
|---|
| **Breeding population size:** Estonian Working Group on Bird Status and Numbers |
| **Breeding short-term trend:** Estonian Working Group on Bird Status and Numbers |
| **Breeding long-term trend:** Estonian Working Group on Bird Status and Numbers |

## Finland: all others

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|---|
| **Breeding population size:** Finnish wildlife triangle scheme run by Natural Resources Institute Finland (Luke) https://www.riistakolmiot.fi/ Lehikoinen, A. , Below, A., Jukarainen, A., Laaksonen, T., Lehtiniemi, T., Mikkola-Roos, M., Pessa, J., Rajasärkkä, A., Rusanen, P., Sirkiä, P., Tiainen, J. & Valkama, J. 2019: Suomen lintujen pesimäkantojen koot. – Linnut-vuosikirja 2018: 38-45. |
| **Breeding short-term trend:** Finnish wildlife triangle scheme run by Natural Resources Institute Finland (Luke) https://www.riistakolmiot.fi/ |
| **Breeding long-term trend:** Finnish wildlife triangle scheme run by Natural Resources Institute Finland (Luke) https://www.riistakolmiot.fi/ |

## France: all others

## France: aquitanicus

## Germany: all others

| |
|---|
| **Breeding population size:** Gerlach et al. (in Vorb.): Vögel in Deutschland – 2019. Dachverband Deutscher Avifaunisten, Bundesamt für Naturschutz und Länderarbeitsgemeinschaft der Vogelschutzwarten, Münster. |
| **Breeding short-term trend:** Gerlach et al. (in Vorb.): Vögel in Deutschland – 2019. Dachverband Deutscher Avifaunisten, Bundesamt für Naturschutz und Länderarbeitsgemeinschaft der Vogelschutzwarten, Münster. |
| **Breeding long-term trend:** Gerlach et al. (in Vorb.): Vögel in Deutschland – 2019. Dachverband Deutscher Avifaunisten, Bundesamt für Naturschutz und Länderarbeitsgemeinschaft der Vogelschutzwarten, Münster. |

## Greece: all others

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| **Breeding population size:** 1) BirdLife International (2004) Birds in Europe:Population estimates, trends and conservation status. Cambridge, UK: Birdlife International (Birdlife Conservation Series No. 12). 2) Λεγάκις, Α. & Μαραγκού, Π. (επιμ.). 2009. Το Κόκκινο Βιβλίο των Απειλούμενων Ζώων της Ελλάδας. Ελληνική Ζωολογική Εταιρεία, Αθήνα, 528 σελ. 3) Natura Viewer (http://natura2000.eea.europa.eu/#). 4) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Papazoglou, C. & Barov, B. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού. 5) Πορτόλου, Δ., Μπουρδάκης, Σ., Βλάχος, Χ., Καστρίτης, Θ. & Δημαλέξης, Τ. (επιμ.).2009. Οι Σημαντικές Περιοχές για τα Πουλιά της Ελλάδας: Περιοχές Προτεραιότητας για τη Διατήρηση της Βιοποικιλότητας. Ελληνική Ορνιθολογική Εταιρεία, Αθήνα. 6) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μποντζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπαλης Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «"Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ" Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη. |
| **Breeding short-term trend:** No data available |
| **Breeding long-term trend:** No data available |

## Italy: all others

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|---|
| **Breeding population size:** Brichetti P & Fracasso G. 2004. Ornitologia italiana. Vol.2 (Tetraonidae-Scolopacidae). Alberto Perdisa Editore, Bologna |
| **Breeding short-term trend:** No recent data available - Brichetti P & Fracasso G. 2004. Ornitologia italiana. Vol.2 (Tetraonidae-Scolopacidae). Alberto Perdisa Editore, Bologna |
| **Breeding long-term trend:** Brichetti P., Meschini E., 1993. Stima delle popolazioni di uccelli nidificanti. In Meschini E., Frugis S.,1993. Atlante degli uccelli nidificanti in Italia. Suppl. Ric. Biol. Selvaggina, 20, 1-345. |

## Kosovo

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|---|
| **Breeding population size:** Qenan Maxhuni |
| **Breeding short-term trend:** Qenan Maxhuni |
| **Breeding long-term trend:** Puzovic, S. et al. (2004): Birds of Serbia and Montenegro – Size of nesting populations. I trends: 1990-2002. Ciconia 12 |

## Latvia: all others

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|---|
| **Breeding population size:** Lõhmus, A., Leivits, M., Pēterhofs, E. et al. The Capercaillie (Tetrao urogallus): an iconic focal species for knowledge-based integrative management and conservation of Baltic forests. Biodivers Conserv (2017) 26: 1. https://doi.org/10.1007/s10531-016-1223-6 |
| **Breeding short-term trend:** Expert: Elmārs Pēterhofs, E.Peterhofs@lvm.lv |
| **Breeding long-term trend:** No data available. |

## Lithuania: all others

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|---|
| **Breeding population size:** Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) 2015-2018. Lietuvos perinčių paukščių atlaso duomenų bazė (Lithuanian Breeding Birds Atlas Database). Vilnius. Ministry of Environment of the Republic of Lithuania. 2012. Status and trends of bird populations (Article 12, Birds Directive 2009/147/EC) National Summary 2008-2012 Lithuania. Ministry of Environment of the Republic of Lithuania. 2016-2018. Leidinio "Lietuvos raudonoji knyga" parengimo paslaugos (Red data book of Lithuania). (Agreement No VPS-2016-104-ES) |
| **Breeding short-term trend:** Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) 2015-2018. Lietuvos perinčių paukščių atlaso duomenų bazė (Lithuanian Breeding Birds Atlas Database). Vilnius. Ministry of Environment of the Republic of Lithuania. 2012. Status and trends of bird populations (Article 12, Birds Directive 2009/147/EC) National Summary 2008-2012 Lithuania. Ministry of Environment of the Republic of Lithuania. 2016-2018. Leidinio "Lietuvos raudonoji knyga" parengimo paslaugos (Red data book of Lithuania). (Agreement No VPS-2016-104-ES) |

## Lithuania: all others

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