



THE IUCN RED LIST  
OF THREATENED SPECIES™



## ***Panurus biarmicus* (Bearded Reedling)**

### **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  
Trend maps of reported national population data  
Sources of reported national population data  
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](mailto:science@birdlife.org).

*Panurus biarmicus* (Bearded Reedling)

**Table 1.** Reported national breeding population size and trends in Europe<sup>1</sup>.

Country (or territory) <sup>2</sup>	Population estimate				Short-term population trend <sup>5</sup>				Long-term population trend <sup>5</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	
Albania	24–60	<1	2007-2018	partial	-	-95 to -94	2007-2018	partial	-	-94 to -92	1980-2018	expert	
Armenia	1500–2800	<1	2013-2018	complete	0		2007-2018		0		2003-2018	partial	
Austria	2000–8000	2	2013-2018	expert	?		2007-2018	expert	-	-80 to -20	1985-2018	expert	
Azerbaijan	10000–100000	13	1996-2019	expert	0		2013-2019	expert	?		1980-2019	expert	
Belarus	100–600	<1	2010-2018	partial	+	0 to 50	2012-2019	expert	?		1980-2019	deficient	
Belgium	40–80	<1	2013-2018	complete	+	8 to 116	2008-2018	complete	+	116 to 332	1973-2018	partial	
Bulgaria	200–450	<1	2005-2018	partial	0	0	2000-2018	partial	0	0	1980-2018	partial	
Croatia	30–60	<1	2010-2012	expert	?		2007-2018	deficient	?		1980-2018	deficient	
Czechia	90–180	<1	2014-2017	complete	?		2007-2018	deficient	?		1980-2018	deficient	
Denmark	2000	<1	2017	complete	0		2006-2017	expert	0	-22 to 264	1996-2017	complete	
Estonia	300–1000	<1	2013-2017	expert	+	100 to 150	2006-2017	expert	+		1980-2017	expert	
Finland	300–700	<1	2013-2018	partial	0		2007-2018	partial	+		1987-2018	partial	
France	3000–9000	2	2013-2018	partial	?		2007-2017	deficient	?		1980-2017	expert	
Georgia	11–200	<1	2013-2017	partial	?			deficient	?				
Germany	4100–8000	2	2016-2016	expert	+		2004-2016	expert	+		1985-2016	expert	
Greece	2000–5000	1	2015	partial	0		2007-2018	partial	0		1980-2018	partial	
Hungary	4500–6800	2	2014-2018	expert	F		2007-2018	expert	0		1980-2018	expert	
Rep. Ireland	2–5	<1	2013-2018	partial	+		2013-2018	partial	+		1991-2018	partial	
Italy	550–850	<1	2013-2018	expert	-	-50 to -5	2000-2014	expert	-	-95 to -85	1993-2018	expert	
Latvia	600–2000	<1	2013-2018	partial	+	38 to 44	2012-2018	partial	+	38 to 44	1991-2017	partial	
Lithuania	600–1000	<1	2013-2018	partial	+	10 to 20	2013-2018	partial	+	900 to 1100	1980-2018	partial	
North Macedonia	500–1500	<1	2014-2019	expert	0		2007-2018	expert	?		1980-2019		
Moldova	2000–2600	<1	2014-2017	partial	+		2007-2018	partial	0		1990-2018	expert	
Netherlands	1400–2100	<1	2013-2016	complete	0	-9 to 21	2006-2017	complete	+	36 to 44	1980-2017	complete	
Norway	5–20	<1	2013-2018	complete	F		2013-2018	complete	F		1980-2018	partial	
Poland	1800–2500	<1	2013-2018	expert	?		2007-2018	deficient	?		1980-2018	deficient	
Romania	19600–40500	11	2013-2015	complete	?		2007-2018	deficient	?		1980-2018	deficient	
Russia	60000–110000	33	2008-2018	partial	+	5 to 15	2008-2018	expert	-	-20 to -10	1980-2018	expert	
Serbia	1000–1300	<1	2013-2018	partial	0	0	2007-2018	complete	-	-29 to -10	1980-2018	complete	
Slovakia	50–150	<1	2013-2018	partial	-	-20 to -10	2007-2018	partial	0		1980-2018	partial	
Spain	690–1200	<1	1998-2018	partial	0		2007-2018	partial	+		1984-2018	partial	
Sweden	9000–15000	5	2013-2018	partial	?	-50 to 50	2007-2018	partial	+	15 to 45	1980-2018	partial	

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**Table 1.** Reported national breeding population size and trends in Europe<sup>1</sup>.

Country (or territory) <sup>2</sup>	Population estimate				Short-term population trend <sup>5</sup>				Long-term population trend <sup>5</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	
Switzerland	80–110	<1	2013–2016	complete	0	-9 to 313	2007-2018	complete	+	3 to 153	1990-2018	complete	
Turkey	3000–5000	2	2002-2012	expert	?		2008-2019	deficient	?		1980-2013	deficient	
Ukraine	40000–60000	20	2015-2017	partial	?		2007-2019	deficient	F	10 to 30	1980-2019	expert	
United Kingdom	650–660	<1	2012-2016	complete	+		2001-2016	complete	+		1978-2016	complete	
EU28	53500–108000	30											
<b>Europe</b>	<b>171000–392000</b>	<b>100</b>											

<sup>1</sup> 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>.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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) Deficient: insufficient or no data available.

<sup>5</sup> 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.

<sup>6</sup> Trend directions are reported as: increasing (+); decreasing (-); stable (0); fluctuating (F); or unknown (?).

<sup>7</sup> Trend magnitudes are rounded to the nearest integer.

*Panurus biarmicus* (Bearded Reedling)

**Table 2.** Reported national wintering population sizes and trends in Europe<sup>1</sup>. Note that some countries within the species' wintering range did not report any data, and that only minimum totals are presented, to avoid double-counting of birds moving between countries.

Country (or territory) <sup>2</sup>	Population estimate				Short-term population trend <sup>5</sup>				Long-term population trend <sup>5</sup>				Subspecific population (where relevant)
	Size (individuals) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	
Serbia	100–1000	100	2013-2018	partial	F		2013-2018	partial	?	-10 to 10	1980-2018	expert	
<b>Europe</b>	<b>100–1000</b>	<b>100</b>											

<sup>1</sup> 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>.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> 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.

<sup>6</sup> Trend directions are reported as: increasing (+); decreasing (-); stable (0); fluctuating (F); or unknown (?).

<sup>7</sup> 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

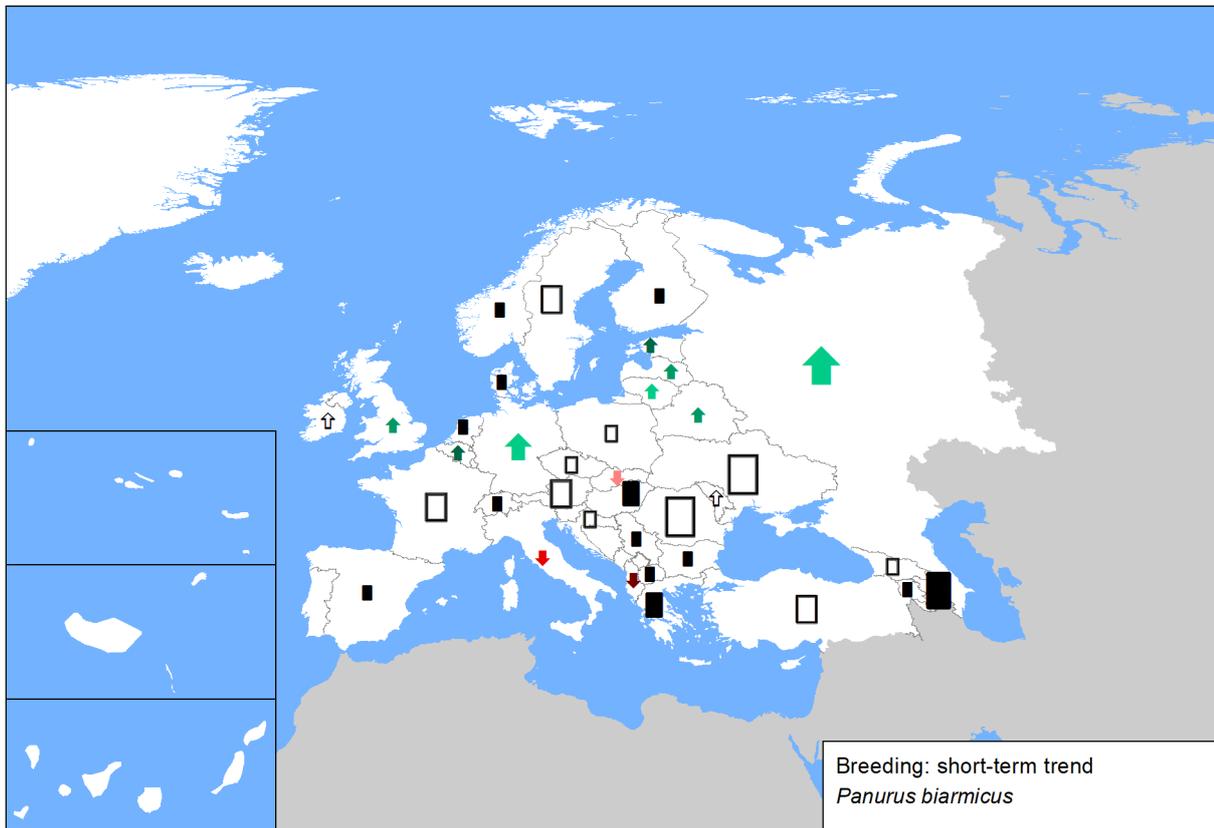
- |   |                                 |
|---|---------------------------------|
| ↑ Large increase (≥50%)                 | ↓ Large decrease (≥50%)         |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)    |
| ↑ Small increase (<20%)                 | ↓ Small decrease (<20%)         |
| ↑ Increase of unknown magnitude         | ↓ 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.

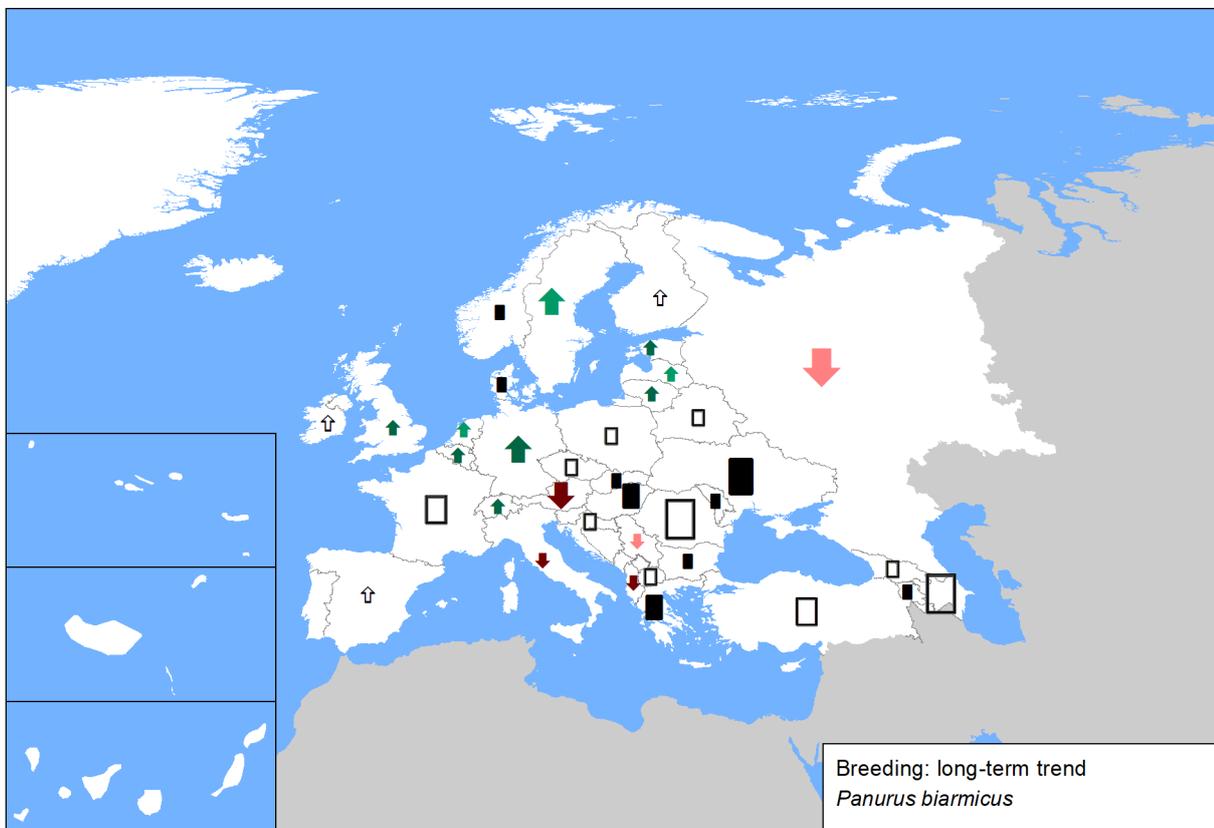
- ↑ Large: ≥10% of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small: <1% of the European population

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



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



**Figure 3.** Reported wintering population sizes and short-term trends across Europe. Note that some countries within the species' wintering range did not report any data.



**Figure 4.** Reported wintering population sizes and long-term trends across Europe. Note that some countries within the species' wintering range did not report any data.



## *Panurus biarmicus* (Bearded Reedling)

### Sources

#### Albania

<b>Breeding population size:</b> Bino & Xeka 2020 in EBBA 2
<b>Breeding short-term trend:</b> Bino & Xeka pers. obs.
<b>Breeding long-term trend:</b> Bino pers. obs.

#### Armenia

<b>Breeding population size:</b> TSE NGO National Bird Monitoring data.
<b>Breeding short-term trend:</b> TSE (2020) The Atlas of the Breeding Birds in Armenia. In preparation.
<b>Breeding long-term trend:</b> TSE (2020) The Atlas of the Breeding Birds in Armenia. In preparation.

#### Austria

<b>Breeding population size:</b> BirdLife Austria, unpublished data from the bird monitoring programm of the Neusiedler See - Seewinkel national park
<b>Breeding short-term trend:</b> BirdLife Austria, unpublished data from the bird monitoring programm of the Neusiedler See - Seewinkel national park
<b>Breeding long-term trend:</b> BirdLife Austria, unpublished data from the bird monitoring programm of the Neusiedler See - Seewinkel national park; data cited in Dvorak, Ranner & Berg 1993 (Atlas of Austrian Breeding Birds)

#### Azerbaijan

<b>Breeding population size:</b> BirdLife International 2004
<b>Breeding short-term trend:</b> AOS data base
<b>Breeding long-term trend:</b> AOS Data Base

#### Belarus

<b>Breeding population size:</b> 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"
<b>Breeding long-term trend:</b> Nikiforov M.E., Kozulin A.V., eds. Belarussian birds at the beginning of XXI century: status, numbers, distribution. - 1997. - Minsk. - 187 p.

#### Belgium

<b>Breeding population size:</b> Vermeersch G. et al. (2018, in press). Broedvogels in Vlaanderen in de periode 2013-2018. Rapporten van het Instituut voor Natuur- en Bosonderzoek (INBO), Brussel. / Paquet, J-Y., Anselin, A., Vermeersch, G., Derouaux, A., Devos, K. (2019, in prep.). Contribution of Belgium to EBCC European Breeding Bird Atlas 2. Internal Report.
<b>Breeding short-term trend:</b> Vermeersch G. et al. (2018, in press). Broedvogels in Vlaanderen in de periode 2013-2018. Rapporten van het Instituut voor Natuur- en Bosonderzoek (INBO), Brussel. / Paquet, J-Y., Anselin, A., Vermeersch, G., Derouaux, A., Devos, K. (2019, in prep.). Contribution of Belgium to EBCC European Breeding Bird Atlas 2. Internal Report.
<b>Breeding long-term trend:</b> Vermeersch G. et al. (2018, in press). Broedvogels in Vlaanderen in de periode 2013-2018. Rapporten van het Instituut voor Natuur- en Bosonderzoek (INBO), Brussel. / Paquet, J-Y., Anselin, A., Vermeersch, G., Derouaux, A., Devos, K. (2019, in prep.). Contribution of Belgium to EBCC European Breeding Bird Atlas 2. Internal Report.

#### Bulgaria

<b>Breeding population size:</b> Iankov P. (ed.) 2007. Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 532-533; National Art. 12 reporting database 2013-2018; Kambourova N., B. Nikolov (2011). Bearded Reedling. In: Red Data Book of Bulgaria, Golemanski G. (ed.), (web edition, <a href="http://e-ecodb.bas.bg/rdb/bg/">http://e-ecodb.bas.bg/rdb/bg/</a> ). SPAs mapping in 2012 Common Bird Monitoring Scheme <a href="http://bspb.org/monitoring/">http://bspb.org/monitoring/</a>
<b>Breeding short-term trend:</b> Iankov P. (ed.) 2007. Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 532-533; National Art. 12 reporting database 2013-2018; Kambourova N., B. Nikolov (2011). Bearded Reedling. In: Red Data Book of Bulgaria, Golemanski G. (ed.), (web edition, <a href="http://e-ecodb.bas.bg/rdb/bg/">http://e-ecodb.bas.bg/rdb/bg/</a> ).
<b>Breeding long-term trend:</b> Iankov P. (ed.) 2007. Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 532-533; Kambourova N., B. Nikolov (2011). Bearded Reedling. In: Red Data Book of Bulgaria, Golemanski G. (ed.), (web edition, <a href="http://e-ecodb.bas.bg/rdb/bg/">http://e-ecodb.bas.bg/rdb/bg/</a> ).

#### Croatia

<b>Breeding population size:</b> Tutiš, V., Kralj, J., Radović, D., Čiković, D., Barišić, S. (ur.) (2013): Crvena knjiga ptica Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Zagreb, 258 str. Zavod za ornitologiju (Sanja Barišić, Davor Čiković, Jelena Kralj, Goran Sušić, Vesna Tutiš), Dragan Radović, Ivan Budinski, Robert Crnković, Antun Delić, Dubravko Dender, Vlatka Dumbović, Ivan Darko Grlica, Bariša Ilić, Luka Jurinović, Davor Krnjeta, Krešimir Leskovar, Duje Lisičić, Ivica Lolić, Gordana Lukač, Kristijan Mandić, Krešimir Mikulić, Tibor Mikuska, Guido Piasevoli, Andrej Radalj, Zlatko Ružanović, Vlatka Ščetarić, Mirko Šetina, Adrian Tomik (2015): Procjene brojnosti za SPA područja. Državni zavod za zaštitu prirode, Zagreb
<b>Breeding short-term trend:</b> no data available
<b>Breeding long-term trend:</b> no data available

#### Czechia

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

## *Panurus biarmicus* (Bearded Reedling)

### Denmark

**Breeding population size:** www.dofbasen.dk & Nyegaard, T. et al., Truede og sjældne ynglefugle i Danmark 1998-2012, Dansk Ornitologisk Forenings Tidsskrift 108, nr 1, 2014 & Atlas III 2014-2017 (www.dofbasen.dk/atlas) & DOF BirdLifeDK Fugleåret 2006-2017 &

**Breeding short-term trend:** www.dofbasen.dk & Nyegaard, T. et al., Truede og sjældne ynglefugle i Danmark 1998-2012, Dansk Ornitologisk Forenings Tidsskrift 108, nr 1, 2014 & Atlas III 2014-2017 (www.dofbasen.dk/atlas) & DOF BirdLifeDK Fugleåret 2006-2017

**Breeding long-term trend:** www.dofbasen.dk & Nyegaard, T. et al., Truede og sjældne ynglefugle i Danmark 1998-2012, Dansk Ornitologisk Forenings Tidsskrift 108, nr 1, 2014 & Atlas III 2014-2017 (www.dofbasen.dk/atlas) & DOF BirdLifeDK Fugleåret 2006-2017

### Estonia

**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

**Breeding population size:** 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:** BirdLife Finland 2019: Tiira bird observation database.

**Breeding long-term trend:** BirdLife Finland 2019: Regional observation summary database of Finnish Birdwatching societies on scarce bird species. Expert working group.

### France

**Breeding population size:** Issa N. & Muller Y. 2015. Atlas des oiseaux nicheurs de France métropolitaine. , LPO/SEOF/MNHN/Delachaux et Niestlé, Paris

### Georgia

**Breeding population size:** EBBA Georgia, prepared by Sabuko-Society for nature conservation, Iliia state university, NGO "psovi".

### Germany

**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

**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) Natura Viewer (<http://natura2000.eea.europa.eu/#>).

**Breeding short-term trend:** 1) BirdLife International (2004) Birds in Europe: Population estimates, trends and conservation status. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 12). 2) Natura Viewer (<http://natura2000.eea.europa.eu/#>).

**Breeding long-term trend:** 1) Handrinos, G., & Akriotis, T., (1997) The birds of Greece. C. Helm, A & C Black, London. 2) BirdLife International (2004) Birds in Europe: Population estimates, trends and conservation status. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 12). 3) Natura Viewer (<http://natura2000.eea.europa.eu/#>).

### Hungary

**Breeding population size:** KEHOP-4.3.0-15-2016-00001 project results, unpublished. National park directorates' databases <http://map.mme.hu/maps/map2>

**Breeding short-term trend:** [http://www.termeszetvedelem.hu/\\_user/browser/File/Natura2000/BD\\_12\\_jelentes\\_2013\\_anyagai/Panurus\\_biarmicus.pdf](http://www.termeszetvedelem.hu/_user/browser/File/Natura2000/BD_12_jelentes_2013_anyagai/Panurus_biarmicus.pdf) National park directorates' databases <http://map.mme.hu/maps/map2>

**Breeding long-term trend:** Ecsedi Z. (szerk.) (2004): A Hortobágy madárvilága. Hortobágy Természetvédelmi Egyesület, Winter Fair, Balmazújváros - Szeged. 2004. 484-485 p. MME Nomenclator Bizottság (2008): Magyarország madarainak névjegyzéke. Nomenclator avium Hungariae. Magyar Madártani és Természetvédelmi Egyesület, Budapest. 199 p. KEHOP-4.3.0-15-2016-00001 project results, unpublished. National park directorates' databases <http://map.mme.hu/maps/map2>

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**Breeding population size:** Crowe, O. (2019). Status of rare breeding birds in the Republic of Ireland 2013 - 2018. Unpublished report to the National Parks and Wildlife Service, Dublin, Ireland.

**Breeding short-term trend:** Crowe, O. (2019). Status of rare breeding birds in the Republic of Ireland 2013 - 2018. Unpublished report to the National Parks and Wildlife Service, Dublin, Ireland.

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### Italy

**Breeding population size:** Brichetti P & Fracasso G. 2010. Ornitologia italiana. Vol.6 (Sylviidae-Paradoxornithidae). Alberto Perdisa Editore, Bologna

**Breeding short-term trend:** Brichetti P & Fracasso G. 2010. Ornitologia italiana. Vol.6 (Sylviidae-Paradoxornithidae). 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.

### Latvia

**Breeding population size:** Unpublished data for European Breeding Bird Atlas (2013-2017); Expert: Andris Dekants, andris.dekants@lob.lv

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### Latvia

<b>Breeding short-term trend:</b> Unpublished data for European Breeding Bird Atlas (2013-2017); Expert: Andris Dekants, andris.dekants@lob.lv
<b>Breeding long-term trend:</b> Strazds M., Priednieks J., Vaverins G. 1994. [Size of Latvian bird populations.] (in Latvian) In: Putni dabā, 4: 3–18 Unpublished data for European Breeding Bird Atlas (2013-2017); Expert: Andris Dekants, andris.dekants@lob.lv

### Lithuania

<b>Breeding population size:</b> 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)
<b>Breeding short-term trend:</b> 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)
<b>Breeding long-term trend:</b> Logminas, V. (ed.). 1991. Lietuvos fauna: paukščiai. Vilnius: „Mokslas“. Kurlavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“. Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) BirdLife International/European Bird Census Council. 2000. European bird populations: estimates and trends. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 10). Raudonikis L. 2004. Important Bird Areas of the European Union Importance in Lithuania. Lithuanian Ornithological Society & Institute of Ecology of Vilnius University. Lutute, Vilnius. Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“. 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. 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. 2016-2018. Leidinio "Lietuvos raudonoji knyga" parengimo paslaugos (Red data book of Lithuania). (Agreement No VPS-2016-104-ES)

### North Macedonia

<b>Breeding population size:</b> unpublished data from the European Breeding Bird Atlas 2
<b>Breeding short-term trend:</b> unpublished data from the European Breeding Bird Atlas 2

### Moldova

<b>Breeding population size:</b> Moldova's contribution for the second European Breeding Bird Atlas (EBBA2)
<b>Breeding short-term trend:</b> SPPN expert opinion (sppn.moldova@gmail.com)
<b>Breeding long-term trend:</b> SPPN expert opinion (sppn.moldova@gmail.com)

### Netherlands

<b>Breeding population size:</b> Sovon NEM (Sovon, CBS and provinces) and Bird atlas (Sovon 2018)
<b>Breeding short-term trend:</b> NEM (Sovon, RWS, CBS, provinces)
<b>Breeding long-term trend:</b> Sovon

### Norway

<b>Breeding population size:</b> (a) Shimmings P. & Øien, I.J. 2015. Bestandsestimater og trender for norske hekkefugler. NOF-rapport 2015-2. (b) Artsobservasjoner www.artsobservasjoner.no
<b>Breeding short-term trend:</b> Artsobservasjoner www.artsobservasjoner.no
<b>Breeding long-term trend:</b> (a) Shimmings P. & Øien, I.J. 2015. Bestandsestimater og trender for norske hekkefugler. NOF-rapport 2015-2. (b) Artsobservasjoner www.artsobservasjoner.no

### Poland

<b>Breeding population size:</b> Chodkiewicz T., Kuczyński L., Sikora A., Chylarecki P., Neubauer G., Ławicki Ł., Stawarczyk T. 2015. Ocena liczebności populacji ptaków lęgowych w Polsce w latach 2008–2012. Ornis Polonica 56: 149-189
<b>Breeding short-term trend:</b> Chief Inspectorate of Environmental Protection & Polish Society for the Protection of Birds (OTOP) / BirdLife Poland
<b>Breeding long-term trend:</b> Chief Inspectorate of Environmental Protection & Polish Society for the Protection of Birds (OTOP) / BirdLife Poland

### Romania

<b>Breeding population size:</b> Romanian Common Bird Monitoring Programme, Breeding Waterbird Monitoring Programme, Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database
<b>Breeding short-term trend:</b> Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database
<b>Breeding long-term trend:</b> Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database

### Russia

<b>Breeding population size:</b> Voltzit & Kalyakin 2013-2019; Database of the project on Atlas of breeding birds of European Russia
<b>Breeding short-term trend:</b> Sarychev unpublished. vssar@yandex.ru
<b>Breeding long-term trend:</b> Belik et al. 2003; Reutsky 2015

### Serbia

<b>Breeding population size:</b> EBBA2 project; Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.
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## *Panurus biarmicus* (Bearded Reedling)

### Serbia

<b>Breeding short-term trend:</b> Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.
<b>Breeding long-term trend:</b> Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.
<b>Winter population size:</b> IWC database
<b>Winter short-term trend:</b> IWC database
<b>Winter long-term trend:</b> IWC database; Bioras database <a href="http://www.bioras.petnica.rs/home.php">http://www.bioras.petnica.rs/home.php</a>

### Slovakia

<b>Breeding population size:</b> Coordinatory group for reporting 2019. Danko Štefan, Darolová Alžbeta, Krištín Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.
<b>Breeding short-term trend:</b> Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018. Danko Štefan, Darolová Alžbeta, Krištín Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.
<b>Breeding long-term trend:</b> Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018. Danko Štefan, Darolová Alžbeta, Krištín Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.

### Spain

<b>Breeding population size:</b> Martí, R. & del Moral, J.C. (Eds.) (2003). Atlas de las Aves Reproductoras de España. Dirección General de Conservación de la Naturaleza-Sociedad Española de Ornitología. Madrid, 733 pp. ( <a href="https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx">https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx</a> )
<b>Breeding short-term trend:</b> Belenguer, R., López Iborra, G.M., Dies, J.I., & Castany i Àlvaro, J. (2016). Dramatic decline of the bearded reedling, <i>Panurus biarmicus</i> , in Spanish Mediterranean wetlands. <i>Animal Biodiversity and Conservation</i> , 39: 17-27. Cornell Lab (2018). eBird. Plataforma online para el registro de observaciones de aves. ( <a href="https://ebird.org/home">https://ebird.org/home</a> ) Información proporcionada por las Comunidades Autónomas. Ministerio de Medio Ambiente (2018). Datos de anillamiento y recuperaciones en España. Ministerio de Agricultura, Alimentación y Medio Ambiente, SEO/BirdLife, ICO, EBD-CSIC y GOB. Madrid. ( <a href="http://www.anillamiento.org">http://www.anillamiento.org</a> )
<b>Breeding long-term trend:</b> BirdLife International (2004). Birds in Europe: population estimates, trends and conservation status. Cambridge, 374 pp. Hagemeyer, E.J. & Blair, M.J. (Eds.) (1997). The EBCC Atlas of European Breeding birds: Their distribution and abundance. T & A D Poyser, London. Información proporcionada por las comunidades autónomas. Martí, R. & del Moral, J.C. (Eds.) (2003). Atlas de las Aves Reproductoras de España. Dirección General de Conservación de la Naturaleza- Sociedad Española de Ornitología. Madrid, 733 pp. ( <a href="https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx">https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx</a> )

### Sweden

<b>Breeding population size:</b> Ottosson, U., Ottvall, R., Elmberg, J., Green, M., Gustafsson, R., Haas, F., Holmqvist, N., Lindström, Å., Nilsson, L., Svensson, M., Svensson, S. & Tjernberg, M. 2012. Fåglarna i Sverige – antal och förekomst. SOF, Halmstad. Swedish Bird Survey. BirdLife Sverige, Annual Bird reports.
<b>Breeding short-term trend:</b> Species observation system, <a href="http://www.artportalen.se">www.artportalen.se</a>
<b>Breeding long-term trend:</b> BirdLife Sverige annual reports

### Switzerland

<b>Breeding population size:</b> Knaus, P., S. Antoniazza, S. Wechsler, J. Guélat, M. Kéry, N. Strelbel & T. Sattler (2018): Swiss Breeding Bird Atlas 2013–2016. Distribution and population trends of birds in Switzerland and Liechtenstein. Swiss Ornithological Institute, Sempach.
<b>Breeding short-term trend:</b> <a href="https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/">https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/</a>
<b>Breeding long-term trend:</b> <a href="https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/">https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/</a>

### Turkey

<b>Breeding population size:</b> Ferdi Akarsu, Güven Eken personal communication (2019), Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no: 12) Kusbank Bird Database (Ebird) Kirwan G.M., Boyla K. A., Castell P., Demirci B., Özen M., Welch H., Marlow T., 2008, Birds of Turkey. Londra, Christopher Helm, 978-1-4081-0475-
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### Ukraine

<b>Breeding population size:</b> Atlas work, non-published data
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### United Kingdom

<b>Breeding population size:</b> RBBP; Holling, M. & the Rare Breeding Birds Panel. 2018. Rare breeding birds in the United Kingdom in 2016. <i>British Birds</i> 111: 644-694. Totals excludes birds in Channel Islands & Isle of Man.
<b>Breeding short-term trend:</b> RBBP; Holling, M. & the Rare Breeding Birds Panel. 2018. Rare breeding birds in the United Kingdom in 2016. <i>British Birds</i> 111: 644-694.
<b>Breeding long-term trend:</b> RBBP; Holling, M. & the Rare Breeding Birds Panel. 2018. Rare breeding birds in the United Kingdom in 2016. <i>British Birds</i> 111: 644-694.

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Robson, C. 2015. Bearded Parrotbill (*Panurus biarmicus*). In: del Hoyo, J., Elliott, A., Sargatal, J., Christie, D.A. and de Juana, E. (eds), *Handbook of the Birds of the World Alive*, Lynx Edicions, Barcelona.

Wilson, J. 2005. Nest box provision to provide additional nesting sites for bearded tits *Panurus biarmicus* at Leighton Moss RSPB Reserve, Lancashire, England. *Conservation Evidence* 2: 30-32.