

***Spatula querquedula* (Garganey)**

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).

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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.

Spatula querquedula (Garganey)

Table 1. Reported national breeding population size and trends in Europe¹.

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	4–12	<1	2007-2018	complete	-	-80 to -76	2007-2018	complete	-	-80	1980-2018	expert	
Armenia	540–880	<1	2013-2018	complete	0		2007-2018		?		2003-2018	deficient	
Austria	30–140	<1	2013-2018	complete	-	-40 to -30	2007-2018	complete	+		1985-2018	complete	
Azerbaijan	0–200	<1	1996-2000	expert	?		2013-2019	expert	?		1980-2019	expert	
Belarus	16000–20000	4	2010-2018	partial	-	-30 to 0	2012-2019	expert	-	-70 to 50	1980-2019	expert	
Belgium	100–160	<1	2013-2018	partial	0	-20 to 28	2008-2018	partial	-	-44 to -11	1973-2018	partial	
Bosnia & HG	100–200	<1	2015-2018	complete	?	-10 to 10	2007-2018	complete	?		1980-2018	deficient	
Bulgaria	340–530	<1	2005-2018	partial	0	0	2001-2018	complete	0	0	1980-2018	partial	
Croatia	30	<1	2012-2018	deficient	?		2007-2018	deficient	?		1980-2018	deficient	
Cyprus	1–3	<1	2013-2018	partial	0	0	2007-2018	partial	+	50 to 100	1980-2018	expert	
Czechia	20–40	<1	2014-2017	complete	-	-75 to -66	2001-2017	complete	-		1981-2017	partial	
Denmark	150	<1	2017	complete	-		2006-2017	expert	0	-73 to 293	1990-2017	complete	
Estonia	800–1000	<1	2013-2017	partial	-	-42 to -13	2007-2018	partial	-	-35 to -22	1980-2017	partial	
Finland	500–2000	<1	2013-2018	complete	0		2007-2018	expert	-	-79 to -44	1980-2018	partial	
France	350–550	<1	2009-2012	partial	?		2007-2018	expert	-	-30	1980-2012	expert	
Georgia	present	<1		deficient	?			deficient	?				
Germany	1200–1700	<1	2016-2016	expert	-		2004-2016	expert	-		1980-2016	expert	
Greece	30–100	<1	2015	partial	0		2007-2018	partial	0		1980-2018	partial	
Hungary	500–700	<1	2013-2018	partial	-	-53 to -33	2007-2018	partial	-	-58 to -53	1980-2018	expert	
Rep. Ireland	0–2	<1	2013-2018	expert	0		2011-2018	partial	0		1991-2018	partial	
Italy	350–500	<1	2013-2018	expert	-	-25 to -5	2003-2018	expert	+	65 to 75	1993-2018	expert	
Kosovo	20–50	<1	2007-2019	partial	+		2007-2018	partial	+		1990-2018	partial	
Latvia	100–300	<1	2013-2018	expert	0		2012-2018	expert	-	-88 to -87	1991-2017	partial	
Lithuania	700–1000	<1	2013-2018	partial	-	-53 to -50	2013-2018	partial	-	-30 to -10	1980-2018	partial	
Luxembourg	0–2	<1	2013-2018	expert	F		2007-2018	partial	F		1980-2018	expert	
North Macedonia	0–10	<1	2014-2019	expert	0		2007-2018	expert	?		1980-2019		
Moldova	29–50	<1	2014-2017	partial	-		2007-2018	partial	0		1990-2018	expert	
Montenegro	3	<1	2002-2012	expert	0		2007-2018	expert	?				
Netherlands	1000–1400	<1	2013-2015	complete	-	-49 to -31	2006-2017	complete	-	-76 to -59	1984-2017	complete	
Norway	10–20	<1	2013-2018	complete	F		2013-2018	complete	F		1980-2018	partial	
Poland	1000–3000	<1	2013-2018	expert	?	-21 to 295	2007-2018	complete	-	-60 to -30	1980-2018	expert	
Romania	520–5200	<1	2013-2018	expert	?		2007-2018	deficient	?		1980-2018	deficient	

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Table 1. Reported national breeding population size and trends in Europe¹.

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	
Russia	300000–400000	88	2008-2018	partial	-	0	2008-2018	expert	-	0	1980-2018	partial	
Serbia	120–330	<1	2013-2018	partial	-	-29 to -10	2007-2018	complete	-	-49 to -30	1980-2018	complete	
Slovakia	50–100	<1	2013-2018	partial	-	-20 to -10	2007-2018	partial	-	-50 to -30	1980-2018	partial	
Slovenia	10–25	<1	2013-2018	partial	?		2007-2018	complete	?		1980-2018	deficient	
Spain	17–100	<1	1998-2018	partial	F		2007-2018	expert	F		1984-2018	expert	
Sweden	180–420	<1	2013-2018	partial	-	-70 to -30	2007-2018	partial	F		1980-2018	partial	
Switzerland	1	<1	2013–2016	complete	F		2007-2018	complete	F		1990-2018	complete	
Turkey	100–1000	<1	2002-2012	expert	?		2008-2019	deficient	?		1980-2013	deficient	
Ukraine	15800–18000	4	2010-2018	partial	-		2010-2018	partial	-		1980-2018	partial	
United Kingdom	100–110	<1	2012-2016	expert	+		2001-2016	complete	+		1978-2016	complete	
EU28	8000–19300	3											
Europe	340000–460000	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) Deficient: 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.

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Table 2. Reported national wintering population sizes and trends in Europe¹. 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) ²	Population estimate				Short-term population trend ⁵				Long-term population trend ⁵				Subspecific population (where relevant)
	Size (individuals) ³	Europe (%)	Year(s)	Method ⁴	Direction ⁶	Magnitude (%) ⁷	Year(s)	Method ⁴	Direction ⁶	Magnitude (%) ⁷	Year(s)	Method ⁴	
Albania	0–60	1	2007-2018	complete	0	0	2007-2018	complete	0	0	1980-2018	complete	
Azerbaijan	200–2000	89	1996-2019	partial	?		2010-2019	partial	?		1980-2019	expert	
Ukraine	50–100	10	2014-2017	partial	?		2007-2018	partial	?		1980-2018	partial	
Europe	250–2200	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>.

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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 ($\geq 50\%$) | ↓ Large decrease ($\geq 50\%$) |
| ↑ 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: $\geq 10\%$ 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.

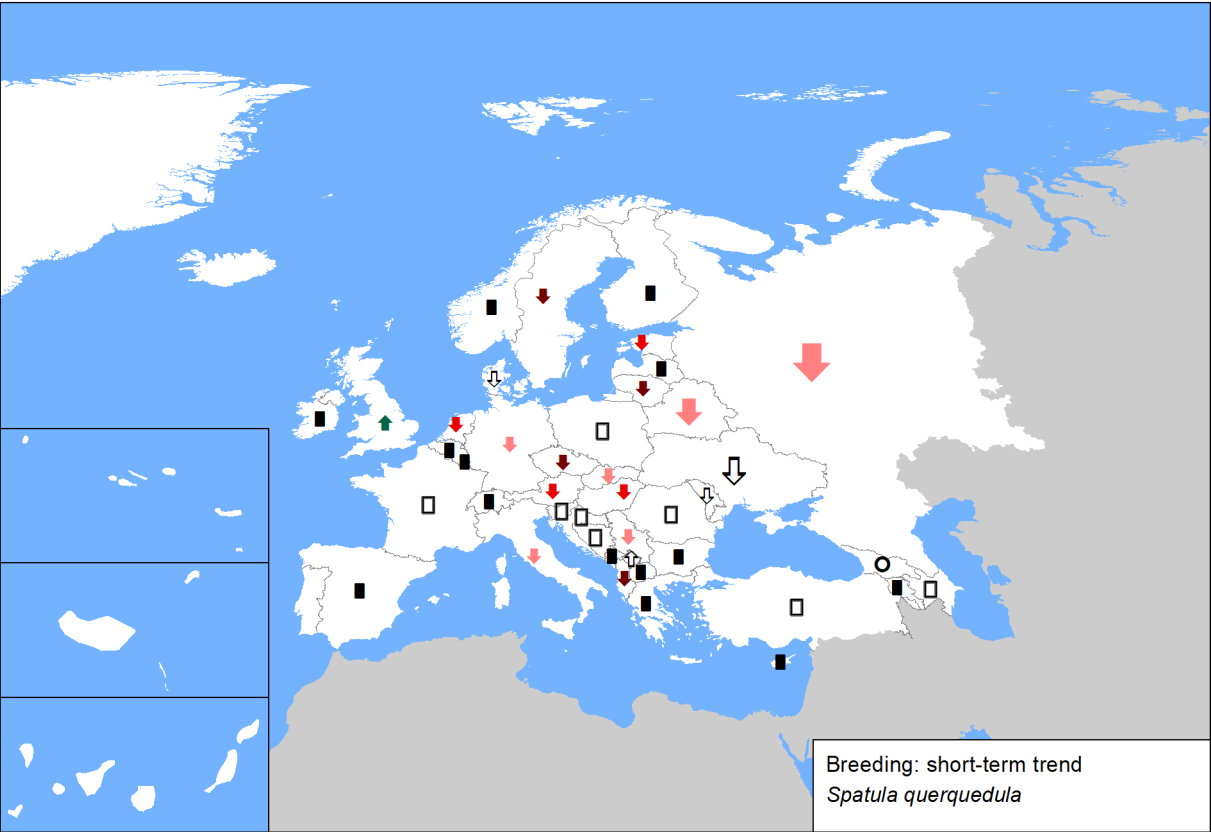


Figure 2. Breeding population sizes and long-term trends across Europe.

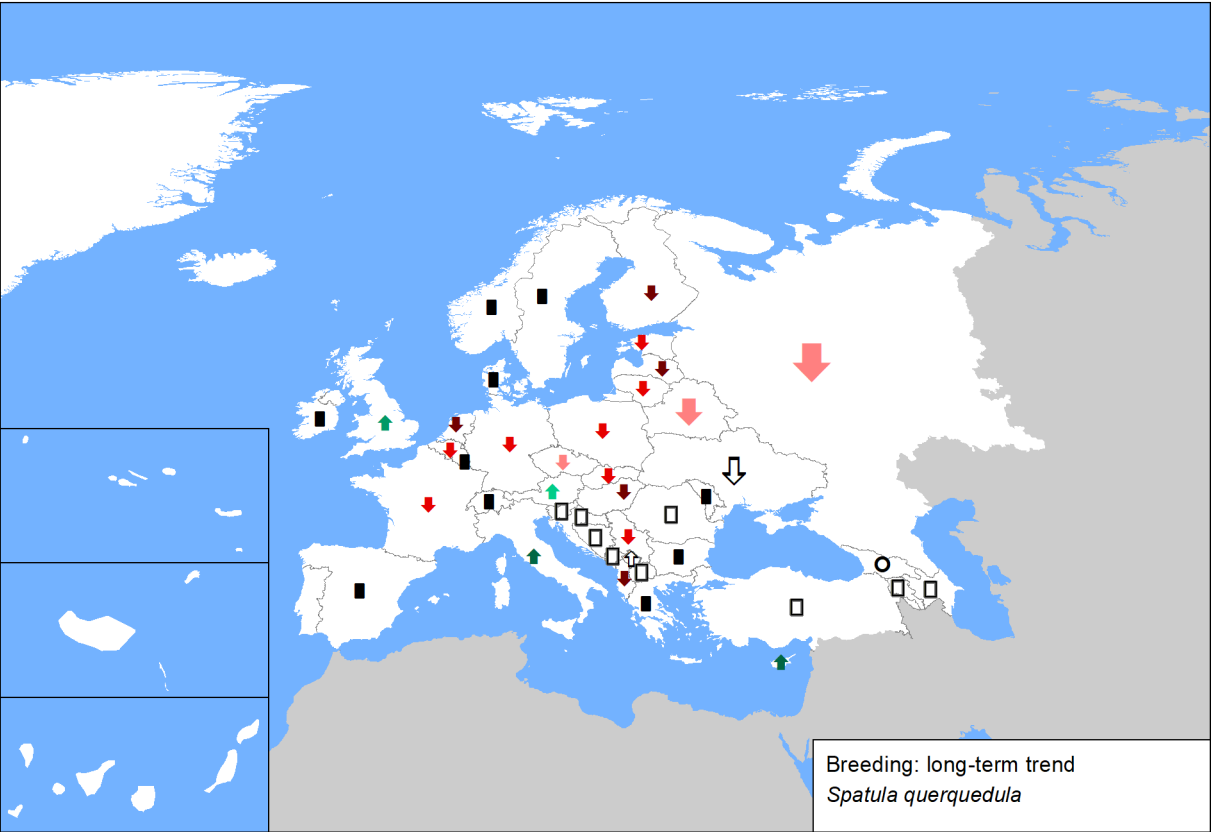


Figure 3. Reported wintering population sizes and short-term trends across Europe. Note that some countries within the species' wintering range did not report any data.

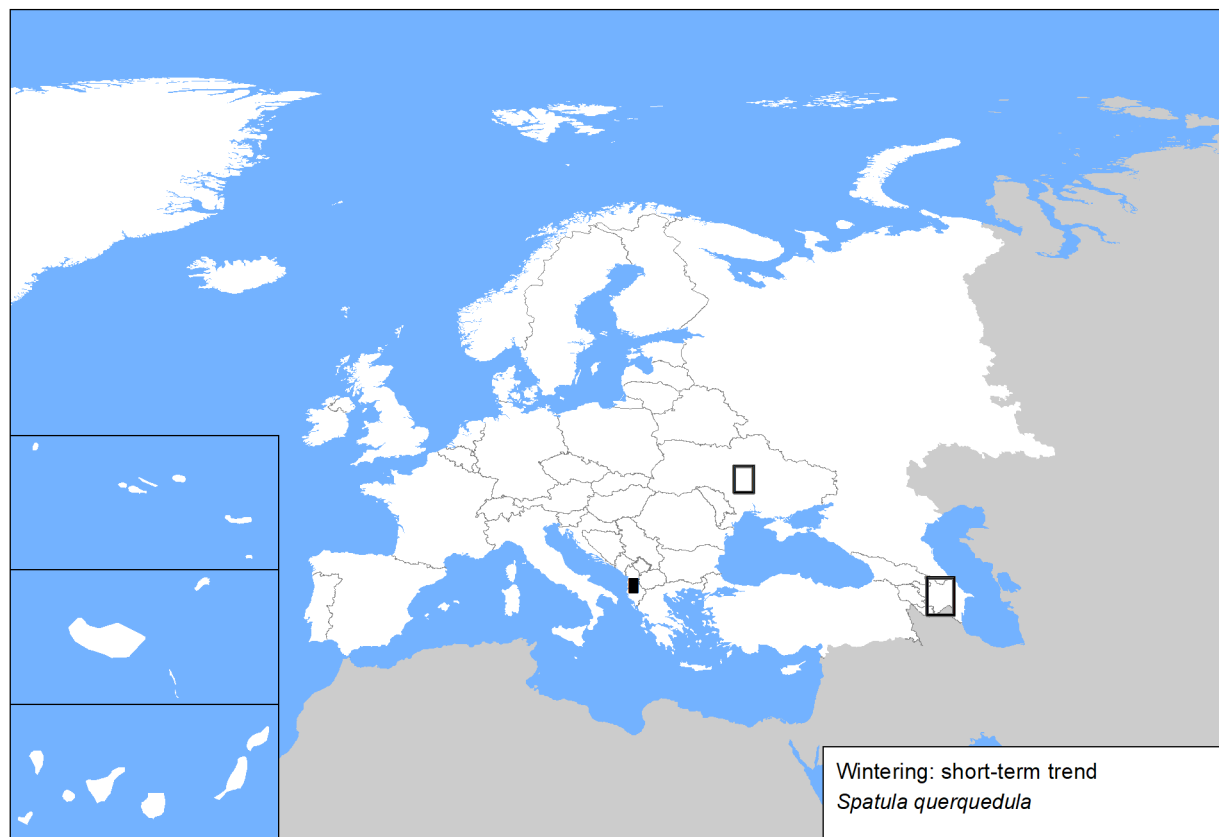
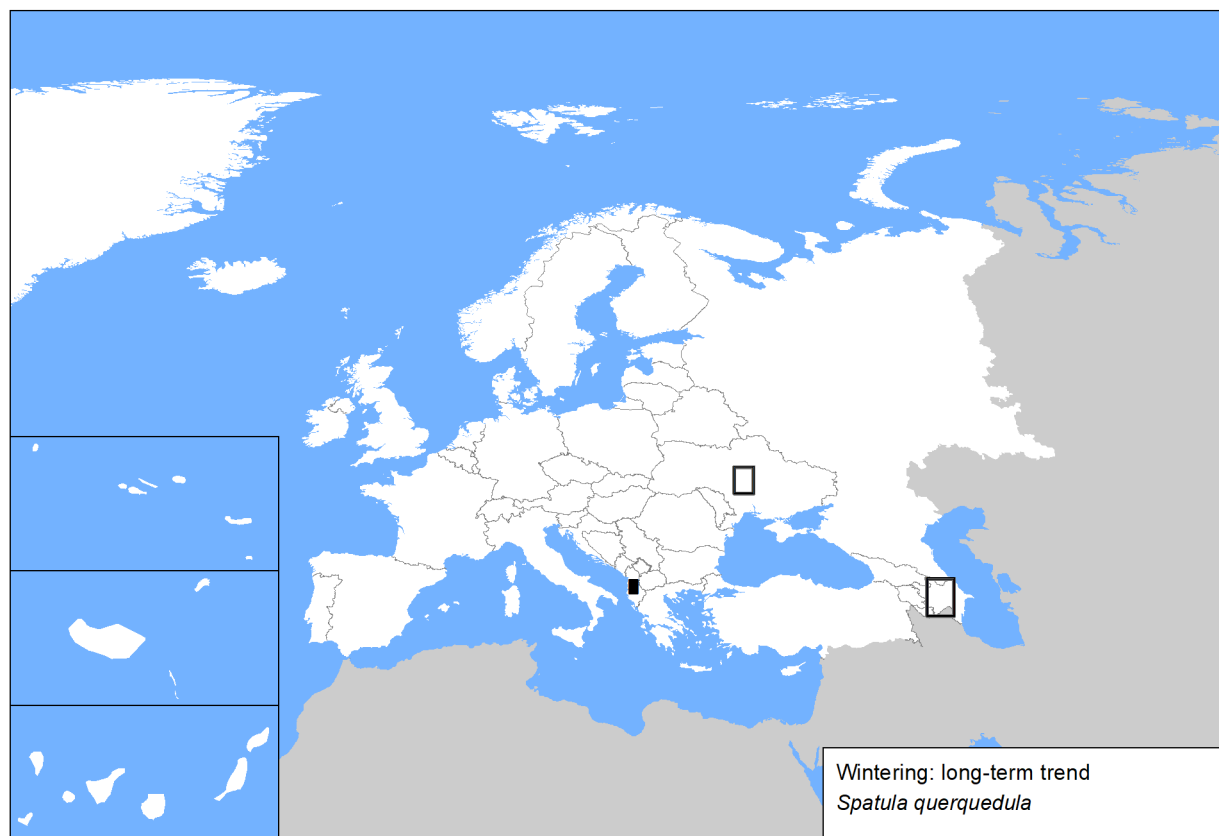


Figure 4. Reported wintering population sizes and long-term trends across Europe. Note that some countries within the species' wintering range did not report any data.



Sources

Albania

Breeding population size: Bino & Xeka 2020 in EBBA 2
Breeding short-term trend: Bino & Xeka pers. obs.
Breeding long-term trend: Bino pers. obs.
Winter population size: Bino pers. obs.
Winter short-term trend: Bino et al. 2018
Winter long-term trend: Bino et al. 2018

Armenia

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

Austria

Breeding population size: BirdLife Austria unpublished data from specific monitoring projects and from www.ornitho.at, Alexander Schuster unpublished data (Trautal), Thomas Zuna-Kratky & Johannes Frühauf (March/Thaya-Auen)
Breeding short-term trend: BirdLife Austria unpublished data from specific monitoring projects and from www.ornitho.at, Alexander Schuster unpublished data (Trautal)
Breeding long-term trend: BirdLife Austria unpublished data from specific monitoring projects and from www.ornitho.at; data from Dvorak et al. 1994

Azerbaijan

Breeding population size: AOS data base
Breeding short-term trend: AOS data base
Breeding long-term trend: AOS Data Base
Winter population size: AOS data base
Winter short-term trend: AOS Data Base
Winter long-term trend: AOS Data Base

Belarus

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: Natykanets V., Kozulin A. Population of Garganey and Shoveler in Belarus. In: S.Swazas, Viksne J., Kuresoo A., Kozulin A. (eds.) The Garganey and Shoveler in the Baltic States and Belarus. – "Ompo Vilnius" – 2003. – Vilnius. - P.6-20 Viksne J., Svazas S., Czajkovski A., Janaus M., Mischenko A., Kozulin A., Kuresoo A., Serebryakov V. Atlas of Duck populations in Eastern Europe. – 2010. – Vilnius, Akstis. – 199 p. Nikiforov M.E., Kozulin A.V., eds. Belarussian birds at the beginning of XXI century: status, numbers, distribution. - 1997. - Minsk. - 187 p.

Belgium

Breeding population size: 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.
Breeding short-term trend: 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.
Breeding long-term trend: 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.

Bosnia and Herzegovina

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

Breeding population size: 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; Green Balkans. 2009. Integrated management plan for Special Protection Area "Pomorie Lake" (BG0000152) under the Bird Directive, Site of Community Interest "Pomorie" (BG0000620) under the Habitat Directive, "Pomorie Lake" Protected Area and "Pomorie Lake" Ramsar site, 212 c. BSPB Bird Database Po sledite na pticite (http://www.worldbirds.org) Shurulinkov, P. G. Daskalova, R. Tzonev, 2013. Breeding Waterbirds in Temporally Flooded Wetlands in Northern Bulgaria. Acta zool. bulg., 65 (2), 2013: 207-215
Breeding short-term trend: 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; Green Balkans. 2009. Integrated management plan for Special Protection Area "Pomorie Lake" (BG0000152) under the Bird Directive, Site of Community Interest "Pomorie" (BG0000620) under the Habitat Directive, "Pomorie Lake" Protected Area and "Pomorie Lake" Ramsar site, 212 c. BSPB Bird Database Po sledite na pticite (http://www.worldbirds.org) Shurulinkov, P. G. Daskalova, R. Tzonev, 2013. Breeding Waterbirds in Temporally Flooded Wetlands in Northern Bulgaria. Acta zool. bulg., 65 (2), 2013: 207-215

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Bulgaria

Breeding long-term trend: expert opinion

Croatia

Breeding population size: Središnja lovna evidencija (https://sle.mps.hr)
Breeding short-term trend: No data available.
Breeding long-term trend: No data available.

Cyprus

Breeding population size: Systematic monthly waterbird counts by BirdLife Cyprus as published in BirdLife Cyprus monthly checklists; Birdwatching records as reported in BirdLife Cyprus annual reports
Breeding short-term trend: Systematic monthly waterbird counts by BirdLife Cyprus as published in BirdLife Cyprus monthly checklists; Birdwatching records as reported in BirdLife Cyprus annual reports
Breeding long-term trend: Birdwatching records as reported in BirdLife Cyprus annual reports; Whaley DJ & Dawes JC, 2003 Cyprus Breeding Birds' Atlas; Flint & Stewart BOU Checklist no.6 (1992) The Birds of Cyprus; First confirmed breeding in 1993.

Czechia

Breeding population size: Šťastný et Bejček in prep. - Atlas hnízdního rozšíření ptáků ČR 2014-2017
Breeding short-term trend: Trends in waterbird breeding population size were estimated using changes in population data from nation-wide numbers project of "Atlas of Breeding Bird Distribution" carried out in whole Czech Republic in 2001-2003 and 2014-2017. Range of relative change in breeding population size was used as the measurement of population trend. The values of relative rate of change were compared with data from annual monitoring (census in May – see Musil & Fuchs 1994, Musil et al. 2001, Čehovská et al. 2019 for the methods) on limited amount of sites (fishpond regions in south and central Bohemia - see Musil & Fuchs 1994). Čehovská M., Musil P., Musilová Z., Poláková, K. & Zouhar J. 2019: Diving duck census efficiency based on monitoring of individually marked females: the influence of breeding stage of individual females and timing of census. Bird Study in press. Musil P. Cepák J. Hudec K. & Zárbybnický J. 2001. The long-term trends in the breeding waterfowl populations in the Czech Republic. OMPO, Institute of Applied Ecology, Kostelec nad Černými lesy. Musil P. & Fuchs R. 1994: Changes in abundance of water birds species in southern Bohemia (Czech Republic) in the last 10 years. Development in Hydrobiology. In: Kerekes J. J. [ed.]: Aquatic Birds in Trophic Web of Lakes. Hydrobiologia 279/280: 511-519.
Breeding long-term trend: The long-term trends were analysed using data from annual waterbird census carried out in May (see Musil & Fuchs 1994, Musil et al. 2001, Čehovská et al. 2019 for the methods) on limited amount of sites (fishpond regions in south and central Bohemia – see Musil & Fuchs 1994). The individual species trends in numbers were calculated by Trends and Indices for Monitoring data (TRIM) software (Statistics Netherlands version 3.52, Pannekoek and Van Strien, 2005). The additive slope (i.e. the change in indices from one year to the next) was used to estimate the Czech trend, see also Fouque et al. (2009), Musil et al. (2011). Čehovská M., Musil P., Musilová Z., Poláková, K. & Zouhar J. 2019: Diving duck census efficiency based on monitoring of individually marked females: the influence of breeding stage of individual females and timing of census. Bird Study in press. Fouque C, Guillemain M, Schricke V (2009) Trends in the numbers of Coot Fulica atra and wildfowl Anatidae wintering in France and their relationship with hunting activity at wetland sites. Wildfowl. Special Issue Musil P. Cepák J. Hudec K. & Zárbybnický J. 2001. The long-term trends in the breeding waterfowl populations in the Czech Republic. OMPO, Institute of Applied Ecology, Kostelec nad Černými lesy. Musil P. & Fuchs R. 1994: Changes in abundance of water birds species in southern Bohemia (Czech Republic) in the last 10 years. Development in Hydrobiology. In: Kerekes J. J. [ed.]: Aquatic Birds in Trophic Web of Lakes. Hydrobiologia 279/280: 511-519. Musil P, Musilová Z, Fuchs R, Poláková S (2011) Long-term changes in numbers and distribution of wintering waterbirds in the Czech Republic, 1966-2008. Bird Study 58: 450-460.

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 &
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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., Sirkkiä, P., Tiainen, J. & Valkama, J. 2019: Suomen lintujen pesimäkantojen koot. – Linnut-vuosikirja 2018: 38-45.
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France

Breeding short-term trend: Triplet P. in Powolny T. et Czajkowski M. A. 2019. Sarcelle d'été. Le statut des espèces de l'annexe IIA de la Directive Oiseaux, OMPO ; . Schricke V. (1999) Management plan, the Garganey Anas querquedula –European Commission General Directorate XI, 74 p.. ; Schricke V. 2001. Elements for a garganey (Anas querquedula) management plan. . Game and Wildlife Science, 189-41 ; Guillemain M., Fritz H., Klaassen M., Johnson A. R. et Hafner H. 2004. Fuelling rates of garganey (Anas querquedula) staging in the Camargue, southern France, during spring migration. . J Ornithol , 145152-158 ; Triplet P. in Rocamora G. & Yeatman-Berthelot D. 2000. Sarcelle d'été . Oiseaux menacés et à surveiller en France. , SEOF, LPO56-57 ; . Fouquet M., Girard O., Tesson J.- L. & Yésou P. (1992) Actions préliminaires pour la restauration des populations de Sarcelle d'été (Anas querquedula). Rapport de convention CEE / ONC. 73 p..
Breeding long-term trend: . Station Biologique de la Tour du Valat/ DDH Consult, on behalf of the European Commission, (2004). European Union Management Plan for Garganey. .

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Georgia

Breeding population size: BirdLife International 2004

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.

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Greece

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Hungary

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Kosovo

Breeding population size: Qenan Maxhuni

Spatula querquedula (Garganey)

Kosovo

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

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Breeding long-term trend: 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

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North Macedonia

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Breeding short-term trend: unpublished data from the European Breeding Bird Atlas 2

Moldova

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Breeding short-term trend: SPPN expert opinion (sppn.moldova@gmail.com)
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Netherlands

Breeding population size: Sovon Bird atlas (Sovon 2018)
Breeding short-term trend: NEM (Sovon, RWS, CBS, provinces)
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Norway

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Spatula querquedula (Garganey)

Poland

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Romania

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Breeding short-term trend: Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database
Breeding long-term trend: Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database

Russia

Breeding population size: Voltzit & Kalyakin 2013-2019; Database of the project on Atlas of breeding birds of European Russia
Breeding short-term trend: Kouzov 2015
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Serbia

Breeding population size: 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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Slovenia

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Sweden

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Spatula querquedula (Garganey)

Sweden

Breeding short-term trend: Species observation system, www.artportalen.se
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