

***Coracias garrulus* (European Roller)**

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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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.

Coracias garrulus (European Roller)

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	1–4	<1	2007-2018	partial	-	-90 to -87	2007-2018	partial	-	-92 to -90	1980-2018	expert	
Armenia	640–970	1	2013-2018	complete	0		2007-2018		?		2003-2018	deficient	
Austria	2–5	<1	2013-2017	complete	-		2007-2017	complete	-		1981-2017	complete	
Azerbaijan	2000–20000	9	1996-2019	expert	0		2013-2019	expert	0		1980-2019	expert	
Belarus	10–30	<1	2010-2018	partial	-	-50 to 0	2012-2019	expert	-	-100 to -90	1980-2019	expert	
Bosnia & HG		<1	2015-2018		?		2007-2018		?		1980-2018	deficient	
Bulgaria	2000–4500	4	2013-2018	partial	-	-20 to -10	2001-2018	expert	+	5 to 10	1980-2018	expert	
Croatia	40–50	<1	2018-2018	complete	+		2007-2018	expert	-	-70 to -30	1980-2018	expert	
Cyprus	800–2500	2	2013-2018	expert	-	-20 to -17	2007-2018	expert	?		1980-2018	deficient	
Czechia	0	<1	2014-2017	complete	?		2007-2018	deficient	?		1980-2018	deficient	
Estonia	0	<1	2013-2017	expert	-	-20 to 0	2006-2017	expert	-	-100 to -50	1980-2017	expert	
France	850–1100	1	2013-2018	complete	?		2007-2017	expert	?		1989-2018	expert	
Georgia	13000–13100	19	2018-2019	partial	?			deficient	?				
Germany	0	<1	2011-2016	complete	?		2004-2016	deficient	?		1980-2016	deficient	
Greece	200–400	<1	2015	partial	+		2007-2018	partial	-		1980-2018	partial	
Hungary	1800	3	2018-2018	complete	+		2007-2018	complete	+	200 to 500	1990-2018	expert	
Italy	900–1000	1	2013-2018	expert	+	100 to 200	2000-2014	expert	+	100 to 200	1993-2018	expert	
Kosovo	5	<1	2007-2019	deficient	-		2007-2018	partial	?		1990-2018	partial	
Latvia	14–16	<1	2018-2018	complete	-	-32 to -29	2012-2017	complete	-	-64 to -46	1991-2017	partial	
Lithuania	8–12	<1	2013-2018	complete	-	-15 to -10	2013-2018	partial	-	-99 to -98	1980-2018	partial	
North Macedonia	200–300	<1	2014-2019	expert	0		2007-2018	expert	?		1980-2019		
Moldova	50–100	<1	2014-2017	partial	+		2007-2018	partial	0		1990-2018	expert	
Montenegro	15	<1	2013-2018	complete	-		2007-2018	expert	?				
Poland	14–34	<1	2013-2018	complete	-		2010-2018	complete	-	-99 to -90	1980-2018	complete	
Portugal	50–120	<1	2013-2018	partial	?		2007-2018	deficient	?		1980-2018	deficient	
Romania	4600–6500	8	2013-2018	expert	?	-8 to 10	2008-2018	partial	?		1980-2018	deficient	
Russia	7000–13000	14	2008-2013	partial	-	-29 to -20	2008-2018	expert	-	-79 to -70	1980-2018	expert	
Serbia	250–340	<1	2013-2018	complete	+	30 to 49	2007-2018	complete	+	30 to 49	1980-2018	complete	
Slovakia	0	<1	2013-2018	partial	0		2007-2018	partial	-	-100 to -20	1980-2018	partial	
Slovenia	0–2	<1	2013-2018	complete	?		2007-2018	complete	-	-100 to -90	1980-2018	complete	
Spain	2000–4000	3	2002-2018	partial	-		2007-2018	partial	-		1980-2018	partial	
Turkey	11500–29000	26	2013-2019	expert	-		2012-2018	expert	-		1980-2019	expert	

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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	
Ukraine	3000–5000	6	2014-2018	partial	-	-20 to -10	2007-2018	partial	-	-60 to -30	1980-2018	partial	
EU28	13200–22000	24											
Europe	51000–104000	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 ($\geq 50\%$) | ↓ 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.

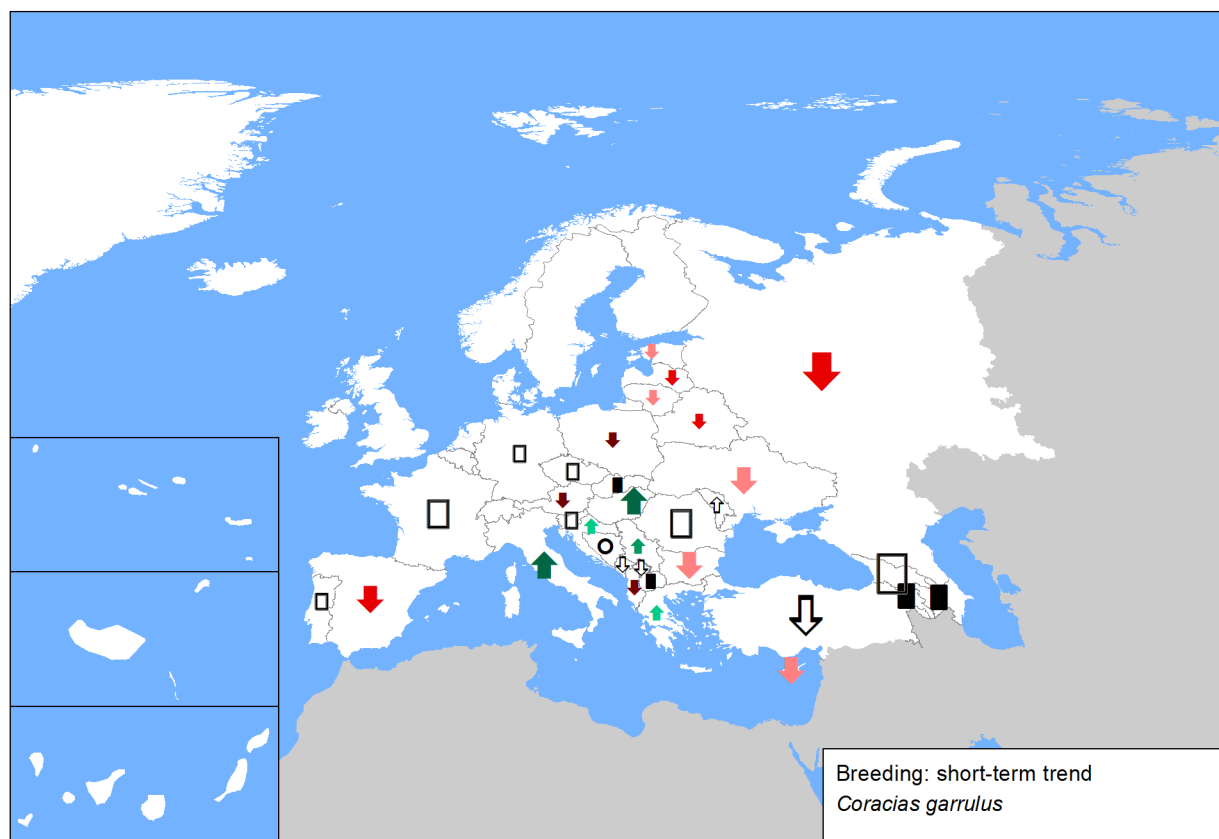
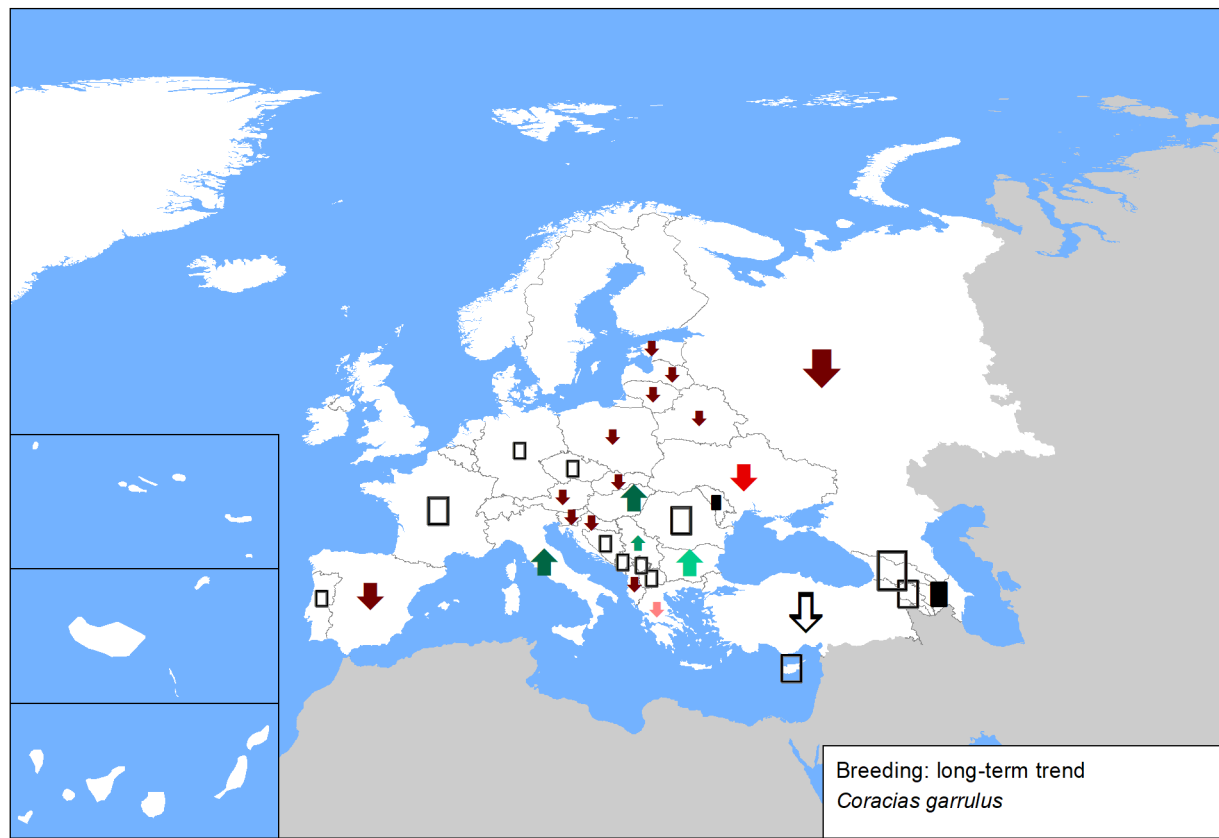


Figure 2. Breeding population sizes and long-term trends across Europe.



Sources

Albania

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

Armenia

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Azerbaijan

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Belarus

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Czechia

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Breeding long-term trend: expert opinion

Estonia

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Breeding short-term trend: Estonian Working Group on Bird Status and Numbers
Breeding long-term trend: Estonian Working Group on Bird Status and Numbers

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France

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Georgia

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Germany

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Hungary

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Lithuania

Breeding population size: EExpert 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)
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North Macedonia

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

Moldova

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

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Poland

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Breeding short-term trend: State Environmental Monitoring / Chief Inspectorate of Environmental Protection (survey: MKR)
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Romania

Breeding population size: Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database
Breeding short-term trend: Romanian Common Bird Monitoring Programme, Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) 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: Ilykh 2014; Kayakin et al. 2019
Breeding long-term trend: Malovichko 1999; Sarychev V.S. (ed.) 2009; Kotykov 2009; Klimov et al. 2004

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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Breeding short-term trend: 1. Гавриш Г.Г. (2009): Сивораक्षा. - Червона книга України. Тваринний світ. Київ: Глобалконсалтинг. 471. 2. Стригунов В.І., Милобог Ю.В. (2011): Сивораक्षा. - Червона книга Дніпропетровської області (Тваринний світ). 380. 3. Банік М.В. (2013): Сивораक्षा. - Червона книга Харківської області. Тваринний світ. Харків: ХНУ імені В.Н. Каразіна. 345. 4. Тараненко Л.І., Пилипенко Д.В., Бронсков О.І. (2017): Дерихвіст лучний. - Червона книга Донецької області. Тваринний світ. Вінниця: Вінницька обласна друкарня. 355. 5. Матеріали до 4-го видання Червоної книги України. Тваринний світ. Київ, 2018. Т. 1. 442 с. Т. 2. 454 с.

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