

## ***Serinus serinus* (European Serin)**

### **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).

*Serinus serinus* (European Serin)

**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                             | 3300–6200                 | <1         | 2007-2018 | partial             | -                                        | -69 to -33                 | 2007-2018 | partial             | -                                       | -69 to -33                 | 1980-2018 | expert              |                                         |
| Andorra                             | 1100–7400                 | <1         | 2014-2017 | partial             | ?                                        |                            | 2011-2018 | complete            | ?                                       |                            |           |                     |                                         |
| Austria                             | 40000–60000               | <1         | 2013-2018 | partial             | -                                        |                            | 2007-2018 | complete            | ?                                       |                            | 1981-2018 | deficient           |                                         |
| Belarus                             | 50000–100000              | <1         | 2010-2018 | partial             | +                                        | 20 to 50                   | 2012-2019 | expert              | 0                                       | 0                          | 1980-2019 | expert              |                                         |
| Belgium                             | 80–380                    | <1         | 2013-2018 | partial             | -                                        | -88 to -42                 | 2008-2018 | complete            | -                                       | -96 to -80                 | 1973-2018 | partial             |                                         |
| Bosnia & HG                         | 50000–80000               | <1         | 2015-2018 | complete            | ?                                        | -10 to 10                  | 2007-2018 | complete            | ?                                       |                            | 1980-2018 | deficient           |                                         |
| Bulgaria                            | 25000–50000               | <1         | 2005-2018 | partial             | 0                                        | 0                          | 2001-2018 | partial             | 0                                       | 0 to 5                     | 1980-2018 | expert              |                                         |
| Croatia                             | 100000–500000             | 1          | 2014-2014 | expert              | ?                                        |                            | 2007-2018 | deficient           | ?                                       |                            | 1980-2018 | deficient           |                                         |
| Cyprus                              | 4000–12000                | <1         | 2013-2018 | partial             | +                                        | 20 to 60                   | 2007-2018 | partial             | +                                       | 25 to 50                   | 1980-2018 | expert              |                                         |
| Czechia                             | 400000–800000             | 3          | 2014-2017 | complete            | -                                        |                            | 2007-2018 | complete            | -                                       |                            | 1982-2018 | complete            |                                         |
| Denmark                             | 2                         | <1         | 2017      | complete            | 0                                        | -100 to 2617               | 2011-2017 | complete            | 0                                       | -92 to 41                  | 1980-2017 | complete            |                                         |
| Estonia                             | 150–300                   | <1         | 2013-2017 | expert              | +                                        | 10 to 20                   | 2006-2017 | expert              | +                                       | 20 to 50                   | 1980-2017 | expert              |                                         |
| Finland                             | 0–3                       | <1         | 2013-2018 | expert              | 0                                        |                            | 2007-2018 | expert              | +                                       |                            | 1980-2018 | expert              |                                         |
| France                              | 250000–500000             | 2          | 2013-2018 | partial             | -                                        |                            | 2007-2018 | complete            | -                                       |                            | 2001-2018 | complete            |                                         |
| Germany                             | 65000–130000              | <1         | 2016-2016 | complete            | -                                        | -59 to -39                 | 2004-2016 | complete            | -                                       |                            | 1980-2016 | expert              |                                         |
| Gibraltar                           | 2–10                      | <1         | 2014-2018 | partial             | F                                        | -66 to 66                  | 2001-2018 | partial             | 0                                       | 0                          | 1980-2018 | partial             |                                         |
| Greece                              | 80000–110000              | <1         | 2013-2018 | partial             | 0                                        |                            | 2007-2018 | partial             | ?                                       |                            | 1980-2018 | deficient           |                                         |
| Hungary                             | 113000–130000             | <1         | 2014-2018 | complete            | 0                                        |                            | 2007-2018 | complete            | -                                       | -48 to -12                 | 1980-2018 | expert              |                                         |
| Italy                               | 1000000–1500000           | 6          | 2013-2018 | expert              | 0                                        |                            | 2012-2017 | partial             | +                                       | 150 to 400                 | 1993-2018 | expert              |                                         |
| Kosovo                              | 8000–10000                | <1         | 2007-2019 | partial             | -                                        |                            | 2007-2018 | partial             | -                                       |                            | 1990-2018 | partial             |                                         |
| Latvia                              | 1200–3000                 | <1         | 2013-2018 | partial             | +                                        | 813 to 871                 | 2000-2018 | partial             | +                                       | 1263 to 1478               | 1991-2017 | partial             |                                         |
| Lithuania                           | 15000–25000               | <1         | 2013-2018 | partial             | 0                                        |                            | 2013-2018 | partial             | ?                                       |                            | 1980-2018 | deficient           |                                         |
| Luxembourg                          | 1000–2000                 | <1         | 2013-2018 | partial             | 0                                        | 0 to 10                    | 2007-2018 | partial             | -                                       | -30 to 0                   | 1980-2018 | expert              |                                         |
| North Macedonia                     | 3000–6000                 | <1         | 2014-2019 | expert              | 0                                        |                            | 2007-2018 | expert              | ?                                       |                            | 1980-2019 |                     |                                         |
| Moldova                             | 80–120                    | <1         | 2014-2017 | partial             | +                                        |                            | 2007-2018 | partial             | 0                                       |                            | 1990-2018 | expert              |                                         |
| Montenegro                          | 10000–15000               | <1         | 2002-2012 | expert              | 0                                        |                            | 2007-2018 | expert              | ?                                       |                            |           |                     |                                         |
| Netherlands                         | 20–40                     | <1         | 2013-2015 | complete            | -                                        | -91 to -67                 | 2006-2017 | complete            | -                                       |                            | 1980-2017 | partial             |                                         |
| Norway                              | 1                         | <1         | 2013-2018 | complete            | 0                                        |                            | 2013-2018 | complete            | +                                       | 100                        | 1980-2018 | partial             |                                         |
| Poland                              | 567000–749000             | 3          | 2013-2018 | complete            | -                                        | -27 to -5                  | 2007-2018 | complete            | ?                                       |                            | 1980-2018 | deficient           |                                         |
| Portugal                            | 1000000–5000000           | 10         | 2013-2018 | partial             | -                                        |                            | 2004-2018 | partial             | -                                       |                            | 1980-2018 | partial             |                                         |
| Romania                             | 97600–252000              | <1         | 2013-2015 | complete            | ?                                        | -20 to 2                   | 2008-2018 | complete            | ?                                       |                            | 1980-2018 | deficient           |                                         |
| Russia                              | 2000–3300                 | <1         | 2008-2017 | partial             | ?                                        |                            | 2008-2019 | deficient           | +                                       | 10 to 20                   | 1980-2018 | expert              |                                         |

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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> |                                         |
| Serbia                              | 28500–44000               | <1         | 2013-2018 | partial             | 0                                        | 0                          | 2007-2018 | complete            | +                                       | 10 to 29                   | 1980-2018 | complete            |                                         |
| Slovakia                            | 20000–90000               | <1         | 2013-2018 | partial             | -                                        | -30 to -10                 | 2007-2018 | partial             | -                                       | -30 to -10                 | 1980-2018 | partial             |                                         |
| Slovenia                            | 49900–88300               | <1         | 2018-2018 | complete            | -                                        |                            | 2008-2018 | complete            | ?                                       |                            | 1980-2018 | deficient           |                                         |
| Spain                               | 13000000–15500000         | 66         | 2004-2018 | partial             | -                                        | -2 to -1                   | 2007-2018 | partial             | -                                       |                            | 1980-2018 | expert              |                                         |
| ES: Canary Is                       | 1000–2500                 | <1         | 1997-2018 | expert              | ?                                        |                            | 2007-2018 | deficient           | ?                                       |                            | 1980-2018 | deficient           |                                         |
| Sweden                              | 30–60                     | <1         | 2013-2018 | partial             | 0                                        | -20 to 20                  | 2007-2018 | complete            | 0                                       | -50 to 50                  | 1980-2018 | partial             |                                         |
| Switzerland                         | 35000–45000               | <1         | 2013–2016 | partial             | 0                                        | -30 to 3                   | 2007-2018 | complete            | -                                       | -29 to -2                  | 1990-2018 | complete            |                                         |
| Turkey                              | 500000–2000000            | 5          | 2002-2012 | expert              | ?                                        |                            | 2008-2019 | deficient           | ?                                       |                            | 1980-2013 | deficient           |                                         |
| Ukraine                             | 50000–100000              | <1         | 2015-2017 | partial             | F                                        | 5 to 10                    | 2007-2019 | expert              | ?                                       |                            | 1980-2019 | deficient           |                                         |
| EU28                                | 16800000–25500000         | 94         |           |                     |                                          |                            |           |                     |                                         |                            |           |                     |                                         |
| <b>Europe</b>                       | <b>17600000–28000000</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

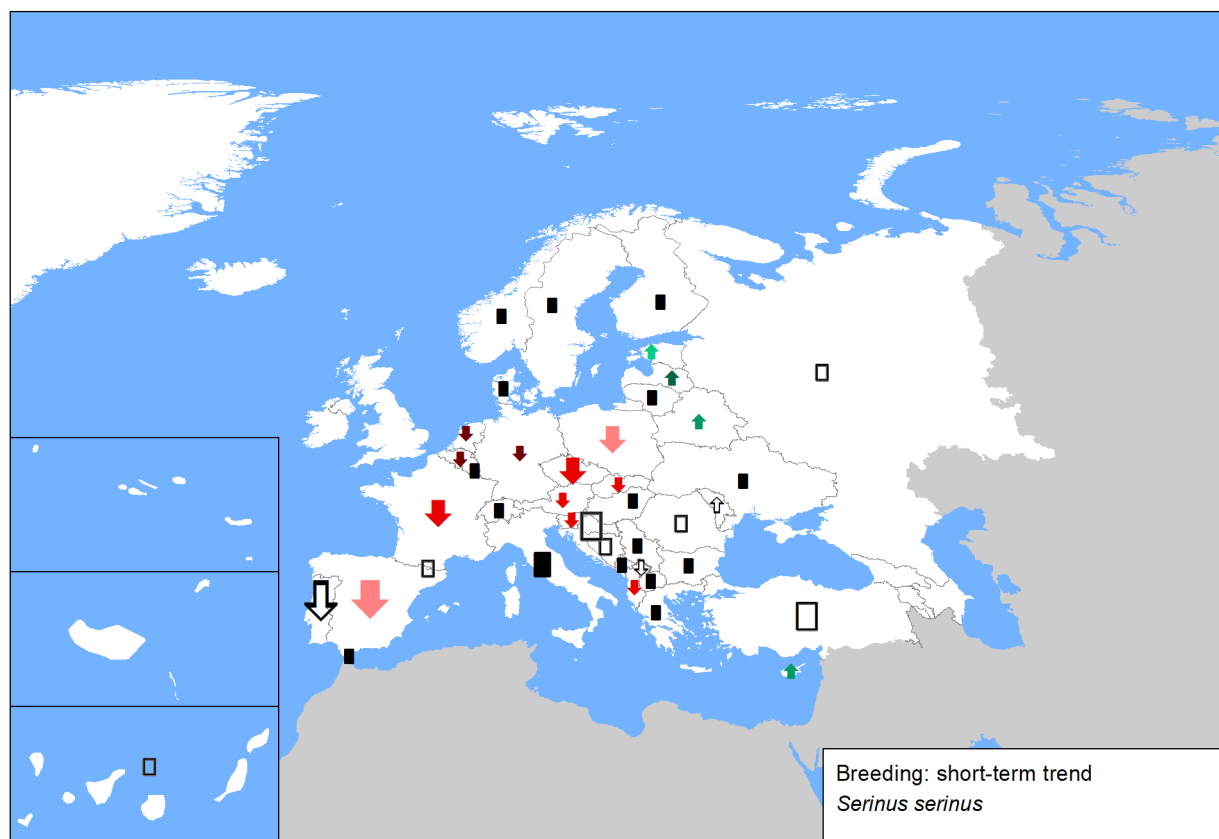
- |                                         |                                  |
|-----------------------------------------|----------------------------------|
| ↑ Large increase ( $\geq 50\%$ )        | ↓ Large decrease ( $\geq 50\%$ ) |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (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.

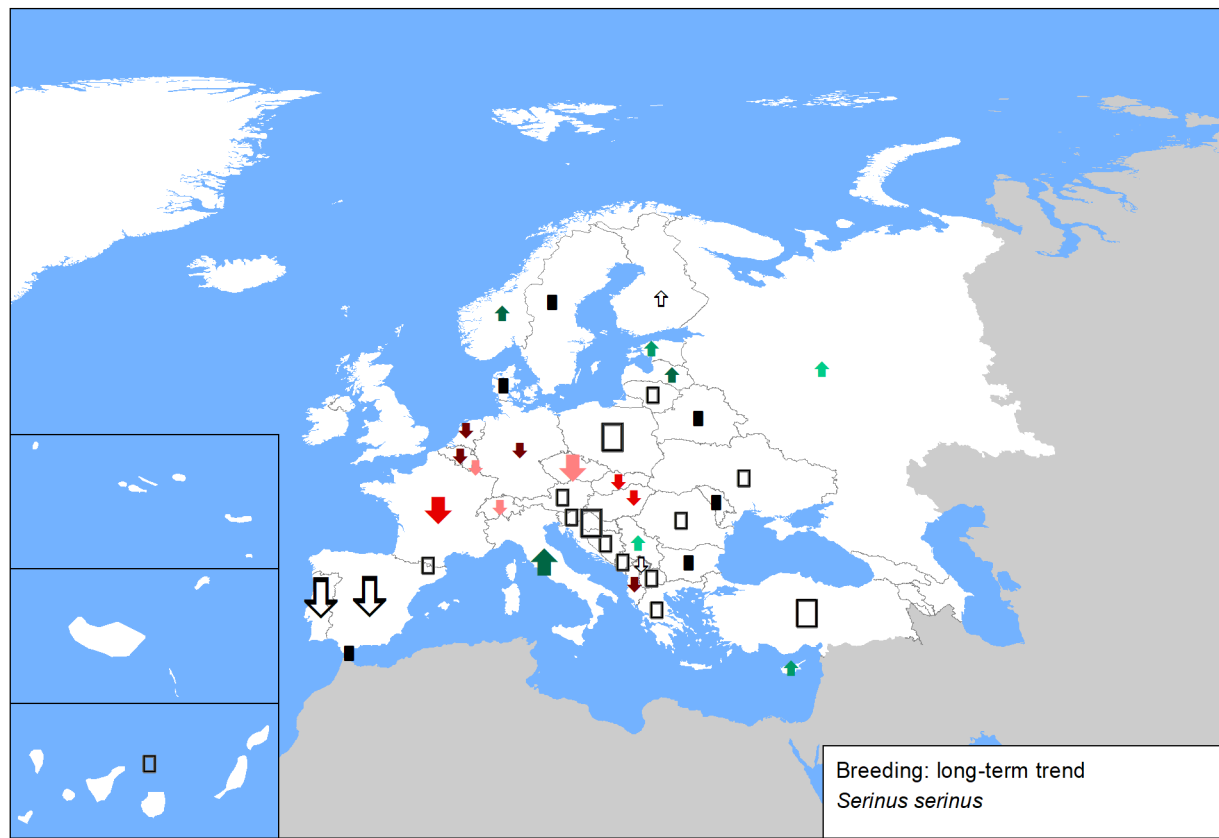
- ↑ Large:  $\geq 10\%$  of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small:  $< 1\%$  of the European population

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

|                                                             |
|-------------------------------------------------------------|
| <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.            |

### Andorra

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

### Austria

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Breeding population size:</b> BirdLife Austria, estimate based on a sample of breeding densities from different sites and habitats and corrected by the results of the Austrian breeding bird monitoring ("Brutvogelmonitoring") for 1998-2018 |
| <b>Breeding short-term trend:</b> BirdLife Austria, results of the Austrian Breeding bird monitoring ("Brutvogelmonitoring")                                                                                                                      |
| <b>Breeding long-term trend:</b> BirdLife Austria, unpublished                                                                                                                                                                                    |

### Belarus

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| <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

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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.  |

### Bosnia and Herzegovina

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

### Bulgaria

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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, 679 p.; National Art. 12 reporting database 2013-2018; SPAs mapping in 2012 Common Bird Monitoring Scheme <a href="http://bspb.org/monitoring/">http://bspb.org/monitoring/</a> Geographic Information System with Ornithological Information of BSPB |
| <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, 679 p.; National Art. 12 reporting database 2013-2018;                                                                                                                                                                                               |
| <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, 679 p.                                                                                                                                                                                                                                                |

### Croatia

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Breeding population size:</b> BirdLife International 2015: European Red List of Birds. Luxembourg: Office for Official Publications of the European Communities.). <a href="http://datazone.birdlife.org/info/euroredlis">http://datazone.birdlife.org/info/euroredlis</a> |
| <b>Breeding short-term trend:</b> no data available                                                                                                                                                                                                                           |
| <b>Breeding long-term trend:</b> no data available                                                                                                                                                                                                                            |

### Cyprus

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Breeding population size:</b> Expert opinion based on the "Study on FBI and CBI Indicators" (Birdlife Cyprus, 2017)                                                                                                                                                |
| <b>Breeding short-term trend:</b> Study on FBI and CBI Indicators, Birdlife Cyprus, 2017                                                                                                                                                                              |
| <b>Breeding long-term trend:</b> Analysis of sightings records as reported in BirdLife Cyprus annual reports (no systematic longer-term data); Flint & Stewart BOU Checklist no.6 (1992) The Birds of Cyprus; Whaley DJ & Dawes JC, 2003 Cyprus Breeding Birds' Atlas |

### Czechia

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|------------------------------------------------------------------------------------------------------------|
| <b>Breeding population size:</b> Šťastný et Bejček in prep. - Atlas hnízdního rozšíření ptáků ČR 2014-2017 |
| <b>Breeding short-term trend:</b> ČSO (unpubl.): Common Bird Monitoring Programme                          |
| <b>Breeding long-term trend:</b> ČSO (unpubl.): Common Bird Monitoring Programme                           |

## *Serinus serinus* (European Serin)

### Denmark

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Breeding population size:</b> 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 & Uffe Gjør Sørensen, Truede og sjældne danske ynglefugle 1976-1991, Dansk Ornitologisk Forenings Tidsskrift, nr 89, 1995. |
| <b>Breeding short-term trend:</b> 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                                                                                                                           |
| <b>Breeding long-term trend:</b> 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

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|-------------------------------------------------------------------------------------|
| <b>Breeding population size:</b> Estonian Working Group on Bird Status and Numbers  |
| <b>Breeding short-term trend:</b> Estonian Working Group on Bird Status and Numbers |
| <b>Breeding long-term trend:</b> Estonian Working Group on Bird Status and Numbers  |

### Finland

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Breeding population size:</b> Lehtikoinen, 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. |
| <b>Breeding short-term trend:</b> BirdLife Finland 2019: Tiira bird observation database.                                                                                                                                                                                               |
| <b>Breeding long-term trend:</b> BirdLife Finland 2019: Regional observation summary database of Finnish Birdwatching societies on scarce bird species. Expert working group.                                                                                                           |

### France

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Breeding population size:</b> Issa N. & Muller Y. 2015. Atlas des oiseaux nicheurs de France métropolitaine. , LPO/SEOF/MNHN/Delachaux et Niestlé, Paris |
| <b>Breeding short-term trend:</b> . STOC EPS / MNHN.                                                                                                        |

### Germany

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Breeding population size:</b> Monitoring häufiger Brutvögel ( <a href="http://www.dda-web.de/index.php?cat=monitoring&amp;subcat=ha_neu&amp;subsubcat=kontakt">http://www.dda-web.de/index.php?cat=monitoring&amp;subcat=ha_neu&amp;subsubcat=kontakt</a> )  |
| <b>Breeding short-term trend:</b> Monitoring häufiger Brutvögel ( <a href="http://www.dda-web.de/index.php?cat=monitoring&amp;subcat=ha_neu&amp;subsubcat=kontakt">http://www.dda-web.de/index.php?cat=monitoring&amp;subcat=ha_neu&amp;subsubcat=kontakt</a> ) |
| <b>Breeding long-term trend:</b> Gerlach et al. (in Vorb.): Vögel in Deutschland – 2019. Dachverband Deutscher Avifaunisten, Bundesamt für Naturschutz und Länderarbeitsgemeinschaft der Vogelschutzwarten, Münster.                                            |

### Gibraltar

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| <b>Breeding population size:</b> Bensusan, K.J. & Perez, C.E. (2003). A Conservation Action Plan for MOD sites in Gibraltar: Gibraltar Ornithological & Natural History Society. GONHS. Cortes, J.E. (1978). Conservation – A Future? Semi - natural Nature Reserve, Gibraltar: A Management Plan. Gibraltar Ornithological and Natural History Society. GONHS. Cortes, J.E. (1996). Windmill Hill Flats: a good view of migration across the Straits of Gibraltar. Almoraima 15:163-184. Cortes, J.E., Finlayson J.C., Garcia, E.F.J., Mosquera, M.A.J., (1980). The Birds of Gibraltar. Gibraltar Books. Gibraltar. Environmental Action & Management Plan (2012). Government of Gibraltar. Gibraltar Bird Reports (2006 - 2012). Gibraltar Ornithological & Natural History Society Gibraltar Nature News (2006 – 2012). Bi-annual Publication. Gibraltar Ornithological & Natural History Society. Nature Protection Act 1991 (2013). Perez, C.E. (2013). Report on the Conservation of Terrestrial Flora & Fauna in Gibraltar (2012). Wildlife (Gibraltar) Ltd Perez, C.E. & Bensusan, K. J. (2005). Upper Rock Nature Reserve A Management and Action. Plan. Gibraltar: The Gibraltar Ornithological & Natural History Society (GONHS). Perez, C.E. (2006). Biodiversity Action Plan, Gibraltar: Planning for Nature. Gibraltar: Gibraltar Ornithological & Natural History Society (GONHS). Southern Waters of Gibraltar Management Scheme EU Natura 2000 Site (2012).  |
| <b>Breeding short-term trend:</b> Bensusan, K.J. & Perez, C.E. (2003). A Conservation Action Plan for MOD sites in Gibraltar: Gibraltar Ornithological & Natural History Society. GONHS. Cortes, J.E. (1978). Conservation – A Future? Semi - natural Nature Reserve, Gibraltar: A Management Plan. Gibraltar Ornithological and Natural History Society. GONHS. Cortes, J.E. (1996). Windmill Hill Flats: a good view of migration across the Straits of Gibraltar. Almoraima 15:163-184. Cortes, J.E., Finlayson J.C., Garcia, E.F.J., Mosquera, M.A.J., (1980). The Birds of Gibraltar. Gibraltar Books. Gibraltar. Environmental Action & Management Plan (2012). Government of Gibraltar. Gibraltar Bird Reports (2006 - 2012). Gibraltar Ornithological & Natural History Society Gibraltar Nature News (2006 – 2012). Bi-annual Publication. Gibraltar Ornithological & Natural History Society. Nature Protection Act 1991 (2013). Perez, C.E. (2013). Report on the Conservation of Terrestrial Flora & Fauna in Gibraltar (2012). Wildlife (Gibraltar) Ltd Perez, C.E. & Bensusan, K. J. (2005). Upper Rock Nature Reserve A Management and Action. Plan. Gibraltar: The Gibraltar Ornithological & Natural History Society (GONHS). Perez, C.E. (2006). Biodiversity Action Plan, Gibraltar: Planning for Nature. Gibraltar: Gibraltar Ornithological & Natural History Society (GONHS). Southern Waters of Gibraltar Management Scheme EU Natura 2000 Site (2012). |
| <b>Breeding long-term trend:</b> Bensusan, K.J. & Perez, C.E. (2003). A Conservation Action Plan for MOD sites in Gibraltar: Gibraltar Ornithological & Natural History Society. GONHS. Cortes, J.E. (1978). Conservation – A Future? Semi - natural Nature Reserve, Gibraltar: A Management Plan. Gibraltar Ornithological and Natural History Society. GONHS. Cortes, J.E. (1996). Windmill Hill Flats: a good view of migration across the Straits of Gibraltar. Almoraima 15:163-184. Cortes, J.E., Finlayson J.C., Garcia, E.F.J., Mosquera, M.A.J., (1980). The Birds of Gibraltar. Gibraltar Books. Gibraltar. Environmental Action & Management Plan (2012). Government of Gibraltar. Gibraltar Bird Reports (2006 - 2012). Gibraltar Ornithological & Natural History Society Gibraltar Nature News (2006 – 2012). Bi-annual Publication. Gibraltar Ornithological & Natural History Society. Nature Protection Act 1991 (2013). Perez, C.E. (2013). Report on the Conservation of Terrestrial Flora & Fauna in Gibraltar (2012). Wildlife (Gibraltar) Ltd Perez, C.E. & Bensusan, K. J. (2005). Upper Rock Nature Reserve A Management and Action. Plan. Gibraltar: The Gibraltar Ornithological & Natural History Society (GONHS). Perez, C.E. (2006). Biodiversity Action Plan, Gibraltar: Planning for Nature. Gibraltar: Gibraltar Ornithological & Natural History Society (GONHS). Southern Waters of Gibraltar Management Scheme EU Natura 2000 Site (2012).  |

### Greece

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| <b>Breeding population size:</b> (1) Hellenic Common Birds Monitoring Scheme database (2007-2019), Hellenic Ornithological Society, (2) BirdLife International (2017). European birds of conservation concern: populations, trends and national responsibilities. Cambridge. UK: BirdLife International. ISBN 978-1-912086-00-9, (3) D. Portolou & V. Kati (2017). "Abundance and distribution of selected species – SEBI 01". In: Kati V (Ed) "Greece-the state of environment 2015-2016: Nature and biodiversity. National report". National Center of Environment and Sustainable Development, Athens, pp 3-20 – 3-36 [In Greek]. Available at: <a href="http://ekpa.ypeka.gr/index.php/soer-2018">http://ekpa.ypeka.gr/index.php/soer-2018</a>  |
| <b>Breeding short-term trend:</b> (1) Hellenic Common Birds Monitoring Scheme database (2007-2019), Hellenic Ornithological Society, (2) BirdLife International (2017). European birds of conservation concern: populations, trends and national responsibilities. Cambridge. UK: BirdLife International. ISBN 978-1-912086-00-9, (3) D. Portolou & V. Kati (2017). "Abundance and distribution of selected species – SEBI 01". In: Kati V (Ed) "Greece-the state of environment 2015-2016: Nature and biodiversity. National report". National Center of Environment and Sustainable Development, Athens, pp 3-20 – 3-36 [In Greek]. Available at: <a href="http://ekpa.ypeka.gr/index.php/soer-2018">http://ekpa.ypeka.gr/index.php/soer-2018</a> |
| <b>Breeding long-term trend:</b> No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## *Serinus serinus* (European Serin)

### Hungary

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| <b>Breeding population size:</b> Expert opinions. National common bird monitoring scheme (MMM) database.  |
| <b>Breeding short-term trend:</b> Expert opinions. National common bird monitoring scheme (MMM) database. |
| <b>Breeding long-term trend:</b> Expert opinions. National common bird monitoring scheme (MMM) database.  |

### Italy

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| <b>Breeding population size:</b> BirdLife International 2017. European birds of conservation concern: populations, trends and national responsibilities. Cambridge, UK: BirdLife International.                                                                                        |
| <b>Breeding short-term trend:</b> Extrapolated data by the average annual trend, from: Rete Rurale Nazionale & Lipu (2018). Uccelli comuni delle zone agricole in Italia. Aggiornamento degli andamenti di popolazione e del FBI per la Rete Rurale Nazionale dal 2000 al 2017. 16 pp. |
| <b>Breeding long-term trend:</b> 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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| <b>Breeding population size:</b> Qenan Maxhuni                                                                                                            |
| <b>Breeding short-term trend:</b> Qenan Maxhuni                                                                                                           |
| <b>Breeding long-term trend:</b> 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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| <b>Breeding population size:</b> Unpublished data for European Breeding Bird Atlas (2013-2017); Expert: Andris Dekants, andris.dekants@lob.lv                                                                                                                       |
| <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

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| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <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. Lututė, 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. |

### Luxembourg

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| <b>Breeding population size:</b> Ornitho.lu (2018): online database natur&ëmwelt asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. Natur&ëmwelt Luxembourg. ISBN: 978-2-919920-01-3                                                          |
| <b>Breeding short-term trend:</b> Ornitho.lu (2018): online database natur&ëmwelt asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. Natur&ëmwelt Luxembourg. ISBN: 978-2-919920-01-3; LUXOR (2018): natur&ëmwelt – Bird-database, Luxembourg |
| <b>Breeding long-term trend:</b> Ornitho.lu (2018): online database natur&ëmwelt asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. Natur&ëmwelt Luxembourg. ISBN: 978-2-919920-01-3; LUXOR (2018): natur&ëmwelt – Bird-database, Luxembourg  |

### North Macedonia

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| <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

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| <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)                               |

### Montenegro

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| <b>Breeding population size:</b> Puzovic, S., Simic, D., Saveljić, D., Gergelj, J., Tucakov, M., Stojnic, N., Hulo, I., Ham, I., Vizi, O., Sciban, M., Ruzic, M., Vucanovic, M., Jovanovic, T. (2004): Birds of Serbia and Montenegro – Size of nesting populations. I trends: 1990-2002. Ciconia 12, |
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### Netherlands

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

## *Serinus serinus* (European Serin)

### Norway

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| <b>Breeding population size:</b> Shimmings P. & Øien, I.J. 2015. Bestandsestimater og trender for norske hekkfugler. NOF-rapport 2015-2.                                            |
| <b>Breeding short-term trend:</b> a) The Norwegian Rare Bird Records Committee (NSKF). (b) Artsobservasjoner <a href="http://www.artsobservasjoner.no">www.artsobservasjoner.no</a> |
| <b>Breeding long-term trend:</b> Shimmings P. & Øien, I.J. 2015. Bestandsestimater og trender for norske hekkfugler. NOF-rapport 2015-2.                                            |

### Poland

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| <b>Breeding population size:</b> State Environmental Monitoring / Chief Inspectorate of Environmental Protection (survey: MPPL – Common Bird Survey)  |
| <b>Breeding short-term trend:</b> State Environmental Monitoring / Chief Inspectorate of Environmental Protection (survey: MPPL)                      |
| <b>Breeding long-term trend:</b> Chief Inspectorate of Environmental Protection & Polish Society for the Protection of Birds (OTOP) / BirdLife Poland |

### Portugal

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| <b>Breeding population size:</b> eBird (2019). eBird: An online database of bird distribution and abundance [web application]. eBird, Ithaca, New York. Available: <a href="http://www.ebird.org/portugal/home">http://www.ebird.org/portugal/home</a> . (Accessed: October 22, 2018).                    |
| <b>Breeding short-term trend:</b> Alonso, H., Coelho, R., Costa, J., Gouveia, C., Leitão, D., Machado, R., & Teodósio, J. 2019. Relatório do Censo de Aves Comuns 2004-2018. Sociedade Portuguesa para o Estudo das Aves, Lisboa (relatório não publicado).                                               |
| <b>Breeding long-term trend:</b> Alonso, H., Coelho, R., Costa, J., Gouveia, C., Leitão, D., Machado, R., & Teodósio, J. 2019. Relatório do Censo de Aves Comuns 2004-2018. Sociedade Portuguesa para o Estudo das Aves, Lisboa (relatório não publicado); Relatório Nacional Directiva Aves (2008-2012). |

### Romania

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

### Russia

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| <b>Breeding population size:</b> Voltzit & Kalyakin 2013-2019; Database of the project on Atlas of breeding birds of European Russia        |
| <b>Breeding long-term trend:</b> Shemyakina 2004; Grishanov unpublished. <a href="mailto:ggrishanov@kantiana.ru">ggrishanov@kantiana.ru</a> |

### Serbia

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| <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.  |
| <b>Breeding short-term trend:</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. |
| <b>Breeding long-term trend:</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.  |

### Slovakia

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| <b>Breeding population size:</b> Coordinatory group for reporting 2019. Danko Štefan, Darolová Alžbeta, Krištin 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, Krištin 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, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.  |

### Slovenia

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| <b>Breeding population size:</b> Mihelič T., Kmecl P., Denac K., Koce U., Vrezec A., Denac D. (eds.) (2019): Atlas ptic Slovenije. Popis gnezdičk 2002–2017. (The atlas of birds of Slovenia. The census of breeding birds 2002-2017.) – DOPPS, Ljubljana. Kmecl P. & Šumrada T. (2018): Monitoring splošno razširjenih vrst ptic za določitev slovenskega indeksa ptic kmetijske krajine - končno poročilo za leto 2018. (Monitoring of common bird species for the determination of Slovenian farmland bird index - final report for the year 2018.) – DOPPS, Ljubljana. |
| <b>Breeding short-term trend:</b> Kmecl P. & Šumrada T. (2018): Monitoring splošno razširjenih vrst ptic za določitev slovenskega indeksa ptic kmetijske krajine - končno poročilo za leto 2018. (Monitoring of common bird species for the determination of Slovenian farmland bird index - final report for the year 2018.) – DOPPS, Ljubljana.                                                                                                                                                                                                                          |
| <b>Breeding long-term trend:</b> There are no sources for this information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### Spain

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| <b>Breeding population size:</b> Carrascal, L.M. & Palomino, D. (2008). Las aves comunes reproductoras en España. Población en 2004-2006. SEO/BirdLife. Madrid. 202 pp. ( <a href="https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/19_paseriformes_2004_2006_tcm30-208258.pdf">https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/19_paseriformes_2004_2006_tcm30-208258.pdf</a> ) Información proporcionada por las comunidades autónomas.                                                                                                                                                                                                                                                       |
| <b>Breeding short-term trend:</b> Database of the 'Atlas de las aves reproductoras de España'. Updated version 2011 with data from SEO/Birdlife's monitoring programmes. In: Inventario Español de Especies Terrestres, Inventario Español del Patrimonio Natural y de la Biodiversidad. Ministerio de Agricultura, Alimentación y Medio Ambiente (2013). ( <a href="https://www.miteco.gob.es/fr/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet_aves_sist_seg_tendencia_comunes_esp.aspx">https://www.miteco.gob.es/fr/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet_aves_sist_seg_tendencia_comunes_esp.aspx</a> ) Información proporcionada por las comunidades autónomas. |

## *Serinus serinus* (European Serin)

### Spain

**Breeding long-term trend:** 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. ([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)) Purroy, F.J. (Coord.) (1997). Atlas de las aves de España (1975-1995). SEO/BirdLife. Lynx Edicions. Barcelona. 583 pp.

### ES: Canary Is

**Breeding population size:** Trujillo, D. (2017). Censo de las poblaciones de aves fringílicas de serín verdecillo (*Serinus serinus*), serín canario (*Serinus canaria*), verderón común (*Chloris chloris*), jilguero europeo (*Carduelis carduelis*) y pardillo común (*Linaria cannabina*) de Gran Canaria en el año 2017. Cabildo de Gran Canaria. Informe inédito.

**Breeding short-term trend:** Lorenzo, J.A. (2007) (Ed). Atlas de las Aves Nidificantes en el Archipiélago Canario (1997-2003). Dirección General de Conservación de la Naturaleza-Sociedad Española de Ornitología. Madrid. 520 pp. Trujillo, D. (2017). Censo de las poblaciones de aves fringílicas de serín verdecillo (*Serinus serinus*), serín canario (*Serinus canaria*), verderón común (*Chloris chloris*), jilguero europeo (*Carduelis carduelis*) y pardillo común (*Linaria cannabina*) de Gran Canaria en el año 2017. Cabildo de Gran Canaria. Informe inédito.

**Breeding long-term trend:** Lorenzo, J.A. (2007) (Ed). Atlas de las Aves Nidificantes en el Archipiélago Canario (1997-2003). Dirección General de Conservación de la Naturaleza-Sociedad Española de Ornitología. Madrid. 520 pp. Martín, A. & Lorenzo, J.A. (2001). Aves del Archipiélago Canario. Francisco Lemus Editor. La Laguna. 787 pp. Trujillo, D. (2017). Censo de las poblaciones de aves fringílicas de serín verdecillo (*Serinus serinus*), serín canario (*Serinus canaria*), verderón común (*Chloris chloris*), jilguero europeo (*Carduelis carduelis*) y pardillo común (*Linaria cannabina*) de Gran Canaria en el año 2017. Cabildo de Gran Canaria. Informe inédito.

### Sweden

**Breeding population size:** 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.

**Breeding short-term trend:** Species observation system, [www.artportalen.se](http://www.artportalen.se)

**Breeding long-term trend:** BirdLife Sverige annual reports

### Switzerland

**Breeding population size:** Knaus, P., S. Antoniazza, S. Wechsler, J. Guélat, M. Kéry, N. Strebel & T. Sattler (2018): Swiss Breeding Bird Atlas 2013–2016. Distribution and population trends of birds in Switzerland and Liechtenstein. Swiss Ornithological Institute, Sempach.

**Breeding short-term trend:** <https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/>

**Breeding long-term trend:** <https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/>

### Turkey

**Breeding population size:** Ferdi Akarsu 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-

### Ukraine

**Breeding population size:** Atlas work, non-published data

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