

## *Fringilla coelebs* (Eurasian Chaffinch)

### European Red List of Birds

### Supplementary Material

The European Union (EU27) 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 2013-14. 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 (2015).

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#### Recommended citation

BirdLife International (2015) European Red List of Birds. Luxembourg: Office for Official Publications of the European Communities.

#### Further information

<http://www.birdlife.org/datazone/info/euroredlist>

<http://www.birdlife.org/europe-and-central-asia/european-red-list-birds-0>

<http://www.iucnredlist.org/initiatives/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).

*Fringilla coelebs* (Eurasian Chaffinch)

**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>4</sup>				Long-term population trend <sup>4</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	
Albania	50,000-100,000	<1	2002-2012	medium	+	10-20	2002-2012	medium	+	10-20	1980-2012	medium	
Andorra	5,000-8,000	<1	1999-2001	poor	?				?				
Armenia	100,000-200,000	<1	2002-2012	good	?				?				
Austria	1,500,000-2,300,000	1	2001-2012	medium	0	0	2000-2011	medium	?				all others
Azerbaijan	100,000-500,000	<1	1996-2000	poor	?				?				
Belarus	7,500,000-8,500,000	4	2001-2012	medium	0	0	2001-2012	medium	0	0	1980-2012	medium	
Belgium	300,000-700,000	<1	2008-2012	poor	0	0	2000-2012	medium	+	20-180	1973-2012	medium	all others
Bosnia & HG	80,000-130,000	<1	2010-2014	poor	?				?				
Bulgaria	2,000,000-4,000,000	1	2005-2012	medium	0	0	2001-2012	medium	0	0	1980-2012	medium	all others
Croatia	3,000,000-4,000,000	2	2014	poor	?				?				
Cyprus	15,000-45,000	<1	2006-2013	medium	0	0	2001-2013	medium	?				all others
Czech Rep.	3,720,000-7,440,000	2	2012	medium	-	4-15	2000-2012	good	-	20-32	1982-2012	good	all others
Denmark	1,300,000	1	2011	medium	0	0	1999-2011	good	0	0	1980-2011	good	all others
Estonia	1,700,000-2,200,000	1	2008-2012	medium	0	0-10	2001-2012	medium	0	0-10	1980-2012	medium	all others
Finland	7,200,000-8,500,000	4	2006-2012	good	0	0	2001-2012	good	0	0	1983-2012	good	all others
France	8,000,000-15,000,000	5	2008-2012	medium	+	11	2001-2011	good	0	0	1989-2011	medium	all others
Georgia	Present	<1			?				?				
Germany	7,350,000-11,000,000	4	2005-2009	medium	-	7-13	1998-2009	good	0	0	1990-2009	good	all others
Greece	430,000-550,000	<1	2007-2013	medium	0	0	2007-2013	medium	?				all others
Hungary	1,130,000-1,360,000	1	2000-2012	medium	+	42	1999-2012	medium	?				all others
Rep. Ireland	1,844,933-3,871,930	1	2006-2011	good	+	7-21	1998-2011	good	?				all others
Italy	1,000,000-2,000,000	1	2013	poor	+	5-15	2000-2012	medium	+	10-20	1980-2012	poor	all others
Kosovo	140,000-180,000	<1	2009-2014	medium	?				?				
Latvia	2,623,780-3,219,441	1	2011	good	+	24-68	2005-2012	good	0	0	1994-2010	good	all others
Liechtenstein	2,500-3,500	<1	2009-2014	medium	0	0	2003-2014	poor	0	0	1980-2014	poor	
Lithuania	1,500,000-2,500,000	1	2008-2012	medium	0	0	2001-2012	medium	0	0	1980-2012	medium	all others
Luxembourg	50,000-70,000	<1	2008-2012	medium	0	0	2000-2012	poor	?				all others
FYRO Macedonia	300,000-500,000	<1	2001-2012	poor	?				?				
Moldova	17,000-250,000	<1	2000-2010	good	0	0	2000-2010	good	0	0	1980-2010	good	
Montenegro	200,000-300,000	<1	2002-2012	poor	?				?				
Netherlands	715,468-834,712	<1	2008-2011	medium	+	8-19	2002-2011	medium	+	91-154	1984-2011	medium	all others
Norway	2,000,000-4,500,000	1	2013	poor	0	0	2006-2013	good	0	0	1980-2013	good	

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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>4</sup>				Long-term population trend <sup>4</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	
Poland	7,600,000-8,500,000	4	2008-2012	good	-	10-20	2000-2012	good	?				all others
Portugal	1,000,000-5,000,000	1	2008-2012	medium	0	0	2004-2011	medium	?				all others
PT: Azores	1,894,766-2,582,210	1	2008-2012	poor	?				?				all others
PT: Madeira	50,000-100,000	<1	2009-2012	medium	+	91-149	2001-2012	good	0	0	1980-2012	poor	all others
Romania	4,000,000-8,000,000	3	2010-2013	medium	F	0-20	2001-2013	medium	?				all others
Russia	80,000,000-100,000,000	41	2000-2008	medium	0	0	2000-2012	medium	0	0	1980-2012	medium	
Serbia	1,300,000-1,600,000	1	2008-2012	medium	0	0	2000-2012	medium	0	0	1980-2012	medium	
Slovakia	3,000,000-5,000,000	2	2002	medium	0	0	2000-2012	medium	0	0	1980-2012	medium	all others
Slovenia	750,000-1,250,000	<1	2002-2012	good	0	0	2001-2012	medium	0	0	1980-2012	medium	all others
Spain	8,710,000-10,675,000	4	2004-2006	good	+	75	1998-2012	good	+		1980-2012	poor	all others
ES: Canary Is	1,000-5,000	<1	2012	poor	?				?				F. c. ombriosa
Sweden	5,720,000-10,860,000	4	2008-2012	medium	0	0	2001-2012	good	0	0	1980-2012	good	all others
Switzerland	900,000-1,200,000	<1	2008-2012	medium	+	7-21	2001-2012	good	+	20-37	1990-2012	medium	
Turkey	3,000,000-15,000,000	3	2013	poor	0	0	2000-2012	poor	0	0-9	1990-2013	poor	
Ukraine	5,300,000-6,700,000	3	2000	medium	F	5-10	1998-2010	medium	0	0	1980-2010	medium	
United Kingdom	6,200,000	3	2009	medium	+	7	1998-2010	good	+	19	1980-2010	good	all others
<b>EU27</b>	<b>81,300,000-125,000,000</b>	<b>45</b>			<b>Increasing</b>								
<b>Europe</b>	<b>185,000,000-269,000,000</b>	<b>100</b>			<b>Stable</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 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>5</sup> Trend directions are reported as: increasing (+); decreasing (-); stable (0); fluctuating (F); or unknown (?).

<sup>6</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

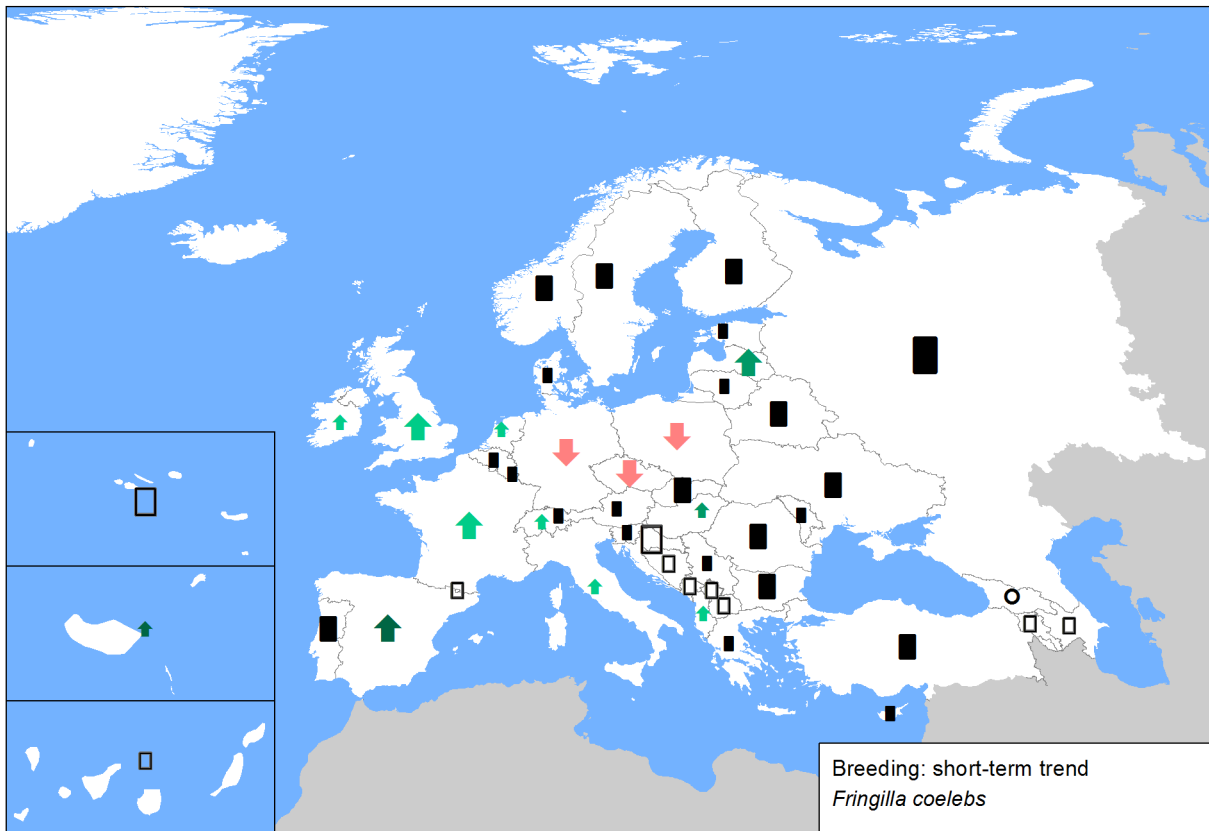
- |   |                                  |
|---|----------------------------------|
| ↑ Large increase ( $\geq 50\%$ )        | ↓ Large decrease ( $\geq 50\%$ ) |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)     |
| ↑ Small increase ( $< 20\%$ )           | ↓ Small decrease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

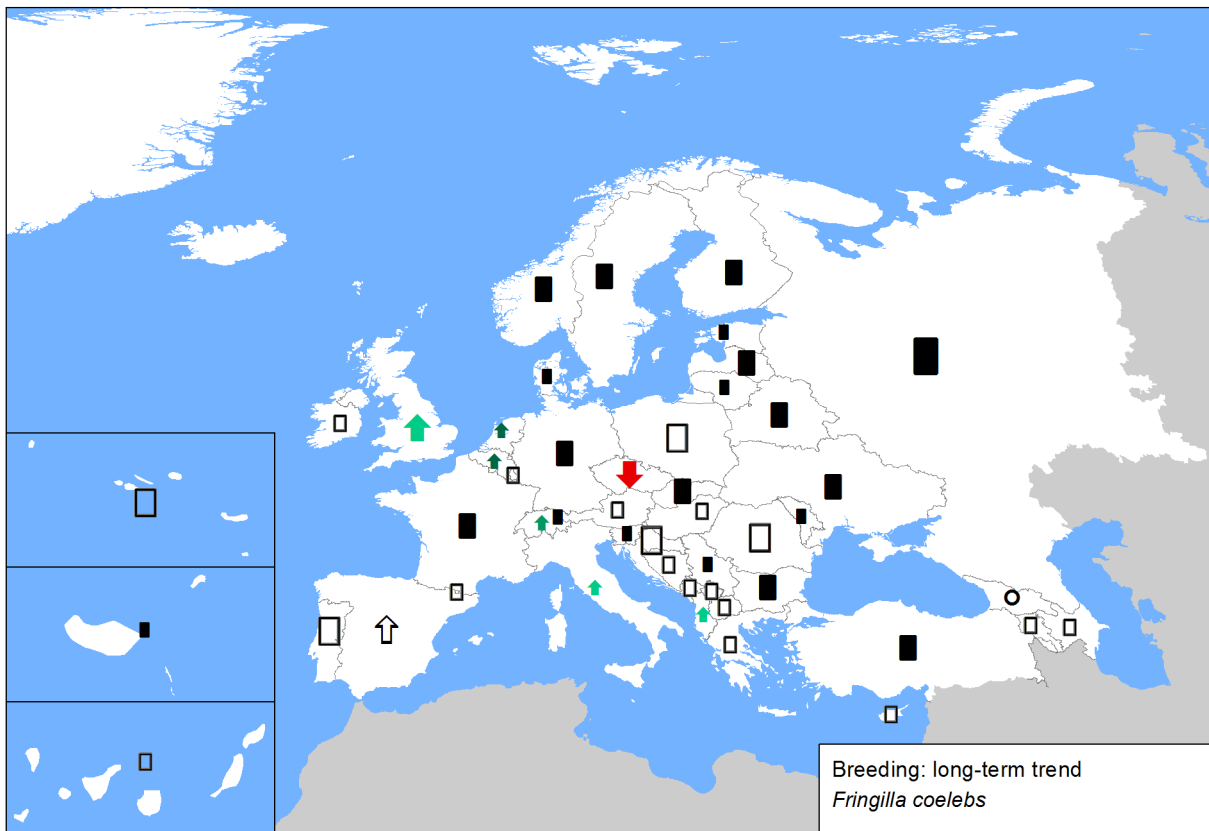
- ↑ Large:  $\geq 10\%$  of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small:  $< 1\%$  of the European population

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

**Breeding population size:** Bino pers. obs.

**Breeding short-term trend:** Bino pers. obs.

**Breeding long-term trend:** Bino pers. obs.

### Andorra

**Breeding population size:** BirdLife International 2004

### Armenia

**Breeding population size:** ASPB data

### Austria: all others

**Breeding population size:** BirdLife Austria, extrapolation on the basis of available unpublished and published population and density data

**Breeding short-term trend:** N. Teufelbauer based on data from the Austrian Common Breeding Bird Monitoring

### Azerbaijan

**Breeding population size:** BirdLife International 2004

### Belarus

**Breeding population size:** Zhuravliev D.V. - personal communication

**Breeding short-term trend:** BirdLife International (2004) Birds in Europe: population estimates, trends and conservation status. Cambridge, UK: BirdLife International. (BirdLife Conservation Series, No 12).

**Breeding long-term trend:** Nikiforov M.E., Kozulin A.V., eds. Belarussian birds at the beginning of XXI century: status, numbers, distribution. - 1997. - Minsk. - 187 p.

### Belgium: all others

**Breeding population size:** Data Breeding Bird atlas Wallonia (Jacob et al 2010), Brussels (Weiserbs 2012) and Flanders (Vermeersch et al 2004) in combination with trend data.

**Breeding short-term trend:** Common bird monitoring schemes

**Breeding long-term trend:** Comparison between 2008-2012 estimate and Devillers, 1989 (Atlas of the Belgian Breeding Bird) population estimate

### Bosnia and Herzegovina

**Breeding population size:** unpublsh data

### Bulgaria: all others

**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 pp.

**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 pp.

**Breeding long-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 pp.

### Croatia

**Breeding population size:** BiE III Work group, Croatia

**Breeding short-term trend:** BiE III Work group, Croatia

**Breeding long-term trend:** BiE III Work group, Croatia

### Cyprus: all others

**Breeding population size:** BirdLife Cyprus 2013 Common Birds monitoring scheme data; Analysis of data from systematic monitoring of four SPA sites by the Game & Fauna service 2007-10, using Distance programme; Unpublished data for the W of Cyprus by proff Derek Pomeroy; Bird sightings records as published in BirdLife Cyprus annual reports.

**Breeding short-term trend:** Analysis of records from line transect survey data for the period 2006-2013 using TRIM software. The data was from line transect surveys carried out under three different but compatible common birds survey programmes (one a 2006-12 pilot programme set up by BirdLife Cyprus and the other a 2006-11 W Cyprus programme operated by Proff Derek Pomeroy). These programmes were merged and expanded in 2013 under a Common Birds Monitoring programme managed by BirdLife Cyprus. This analysis has been detailed in a September 2013 report by BirdLife Cyprus to the Cyprus government, under a contract to produce the Farmland Birds Index for Cyprus; Also monitoring data from the Game & Fauna Service

**Breeding long-term trend:** Recent data as above, but no systematic data is available for before 2006.

### Czech Republic: all others

**Breeding population size:** STASTNY K., BEJCEK V. & HUDEC K. 2006: Atlas hnízdního rozšíření ptáku v České republice. Aventinum Praha. JPSP: <http://jpsp.birds.cz/vysledky.php?taxon=858>

**Breeding short-term trend:** JPSP: <http://jpsp.birds.cz/vysledky.php?taxon=858>

**Breeding long-term trend:** JPSP: <http://jpsp.birds.cz/vysledky.php?taxon=858>

## *Fringilla coelebs* (Eurasian Chaffinch)

### Denmark: all others

**Breeding population size:** BIRDLIFE INTERNATIONAL (2004) Birds in Europe: population estimates, trends and conservation status. Wageningen, The Netherlands: BirdLife International. (BirdLife Conservation Series No. 12) Heldbjerg, H. & Lerche-Jørgensen, M. (2012): Overvågning af de danske almindlige fuglearter i Danmark 1975-2011. Årsrapport for Punkttællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1999-2011)

**Breeding short-term trend:** Heldbjerg, H. & Lerche-Jørgensen, M. (2012): Overvågning af de danske almindlige fuglearter i Danmark 1975-2011. Årsrapport for Punkttællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1999-2011)

**Breeding long-term trend:** Heldbjerg, H. & Lerche-Jørgensen, M. (2012): Overvågning af de danske almindlige fuglearter i Danmark 1975-2011. Årsrapport for Punkttællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1980-2011)

### Estonia: all others

**Breeding population size:** Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008-2012. *Hirundo* 26(2): 80-112. URL: [http://www.eoy.ee/hirundo/file\\_download/149/Elts\\_et\\_al\\_2013\\_2.pdf](http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf)

**Breeding short-term trend:** Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008-2012. *Hirundo* 26(2): 80-112. URL: [http://www.eoy.ee/hirundo/file\\_download/149/Elts\\_et\\_al\\_2013\\_2.pdf](http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf)

**Breeding long-term trend:** Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008-2012. *Hirundo* 26(2): 80-112. URL: [http://www.eoy.ee/hirundo/file\\_download/149/Elts\\_et\\_al\\_2013\\_2.pdf](http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf)

### Finland: all others

**Breeding population size:** Bird monitoring schemes of the Finnish Museum of Natural History, University of Helsinki.

**Breeding short-term trend:** Bird monitoring schemes of the Finnish Museum of Natural History, University of Helsinki.

**Breeding long-term trend:** Bird monitoring schemes of the Finnish Museum of Natural History, University of Helsinki.

### France: all others

**Breeding population size:** <http://www.mnhn.fr/spn/rapports.html> <http://www.atlas-ornitho.fr/> Dubois P.J., Le Maréchal P., Olios G. & Yésou P. 2008 *Nouvel Inventaire des Oiseaux de France*, Paris, Delachaux & Niestlé, 559

**Breeding short-term trend:** <http://vigienature.mnhn.fr/page/pinson-des-arbres>

**Breeding long-term trend:** <http://vigienature.mnhn.fr/page/pinson-des-arbres>

### Georgia

**Breeding population size:** BirdLife International 2004

### Germany: all others

**Breeding population size:** Gedeon, K., C. Grüneberg, A. Mitschke & C. Sudfeldt (in Vorb.): Atlas Deutscher Brutvogelarten. SVD & DDA, Münster.

**Breeding short-term trend:** Monitoring häufiger Brutvögel

**Breeding long-term trend:** Monitoring häufiger Brutvögel

### Greece: all others

**Breeding population size:** Hellenic Common Birds Monitoring Scheme database, Hellenic Ornithological Society

**Breeding short-term trend:** Hellenic Common Birds Monitoring Scheme database, Hellenic Ornithological Society

### Hungary: all others

**Breeding population size:** National common bird monitoring scheme (MMM) database. Szép, T., Nagy, K., Nagy, Zs. & Halmos, G. (2012): Population trends of common breeding and wintering birds in Hungary, decline of long-distance migrant and farmland birds during 1999-2012. *Ornis Hungarica* 2012. 20(2): 13-63.

**Breeding short-term trend:** National common bird monitoring scheme (MMM) database. Szép, T., Nagy, K., Nagy, Zs. & Halmos, G. (2012): Population trends of common breeding and wintering birds in Hungary, decline of long-distance migrant and farmland birds during 1999-2012. *Ornis Hungarica* 2012. 20(2): 13-63.

### Republic of Ireland: all others

**Breeding population size:** Crowe, O., Musgrove, A.J. & O'Halloran, J. (2014). Generating population estimates for common and widespread breeding birds in Ireland. *Bird Study* 61 (1) 82 - 90.

**Breeding short-term trend:** Crowe, O. (2013). Calculation of short-term trends for Common and Widespread Breeding Birds for Article 12 Reporting. Unpublished report.

**Breeding long-term trend:** Baillie, S.R., Marchant, J.H., Leech, D.I., Massimino, D., Eglington, S.M., Johnston, A., Noble, D.G., Barimore, C., Kew, A.J., Downie, I.S., Risely, K. & Robinson, R.A. (2013) *BirdTrends 2012: trends in numbers, breeding success and survival for UK breeding birds*. BTO Research Report No. 644. BTO, Theftford. <http://www.bto.org/birdtrends>. Balmer, D., Gillings, S., Caffrey, B., Swan, B., Downie, I. & Fuller, R. (2013) *Bird Atlas 2007-11 The breeding and wintering birds of Britain and Ireland*. British Trust for Ornithology. Crowe, O. (2013) Calculation of short-term trends for Common and Widespread Breeding Birds for Article 12 Reporting. Unpublished report. Expert opinion - O. Crowe, [BirdWatch Ireland](http://birdwatchireland.ie/), <http://birdwatchireland.ie/>. Sharrock, J.T.R. (1976) *The Atlas of Breeding Birds in Britain and Ireland*. T. & AD Poyser.

### Italy: all others

**Breeding population size:** Brichetti P & Fracasso G. 2013. *Ornitologia italiana*. Vol.8 (Sturnidae-Fringillidae). Alberto Perdisa Editore, Bologna

**Breeding short-term trend:** Rete Rurale Nazionale & LIPU 2013. Uccelli comuni in Italia. Gli andamenti di popolazione dal 2000 al 2012

**Breeding long-term trend:** Rete Rurale Nazionale & LIPU 2013. Uccelli comuni in Italia. Gli andamenti di popolazione dal 2000 al 2012 BirdLife International 2004. Birds in Europe: population estimates, trends and conservation status Cambridge, UK: BirdLife International. BirdLife Conservation Series No. 12

### Kosovo

**Breeding population size:** NGO "Finch" (2014)



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### Latvia: all others

<b>Breeding population size:</b> Calculation based on data collected in Latvian Breeding bird monitoring scheme: Aunins A., Keišs O. 2012. [Monitoring for the Farmland Bird Population Index. Final report for the year 2012. ] (in Latvian) Latvian Ornithological society, 47 pp
<b>Breeding short-term trend:</b> Aunins A. 2012. [Changes in the Abundance of Common Birds in Latvia during the Previous Seven Years]. Putni Dabā 2013/1, 10 - 13. Aunins A., Keišs O. 2012. [Monitoring for the Farmland Bird Population Index. Final report for the year 2012. ]. Latvian Ornithological society, 47 pp.
<b>Breeding long-term trend:</b> Kerus V. 2011. Latvijas ligzdojoso putnu stavokla parmainas laika no 1980. līdz 2010. gadam. Promocijas darbs. Rīga: Latvijas Universitāte Strazds M., Priednieks J., Vaverins G. 1994. Latvijas putnu skaits. – Putni daba, 4: 3–18.

### Liechtenstein

<b>Breeding population size:</b> Willi, G. (2014) Unpublished collection data
<b>Breeding short-term trend:</b> Willi, G. (2006) Die Vögel des Fürstentums Liechtenstein. Amtlicher Lehrmittelverlag, Vaduz (Naturkundliche Forschung im Fürstentum Liechtenstein, Bd. 22.
<b>Breeding long-term trend:</b> Willi, G. & M.F. Broggi (1986) Die Vogelwelt des Fürstentums Liechtenstein unter Berücksichtigung der benachbarten Gebiete; Teil III: Passeriformes. Ber. Bot.-Zool. Ges. Liechtenstein-Sargans-Werdenberg, Band 15, S. 37-82.; Willi, G. (2006) Die Vögel des Fürstentums Liechtenstein. Amtlicher Lehrmittelverlag, Vaduz (Naturkundliche Forschung im Fürstentum Liechtenstein, Bd. 22.

### Lithuania: all others

<b>Breeding population size:</b> Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt)
<b>Breeding short-term trend:</b> Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“, 288 p. Kurlavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“, 256 p. Raudonikis L. 2004. Lithuania. In: Birds in Europe: population estimates, trends, and conservation status. BirdLife International, BirdLife Conservation Series No 12, Cambridge, UK.
<b>Breeding long-term trend:</b> 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). Kurlavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“, 256 p.

### Luxembourg: all others

<b>Breeding population size:</b> LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Lorgé P., E. Melchior (2010): Die Vögel Luxemburgs. LNVL, Luxembourg. ISBN: 978-2-919920-01-3
<b>Breeding short-term trend:</b> LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Lorgé P., E. Melchior (2010): Die Vögel Luxemburgs. LNVL, Luxembourg. ISBN: 978-2-919920-01-3
<b>Breeding long-term trend:</b> LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Lorgé P., E. Melchior (2010): Die Vögel Luxemburgs. LNVL, Luxembourg. ISBN: 978-2-919920-01-3

### The Former Yugoslav Republic of Macedonia

<b>Breeding population size:</b> Veleviski, M., B. Hallmann, B. Grubač, T. Lisičanec, E. Stojnov, E. Lisičanec, V. Avukatov, L. Božiič, and B. Stumberger. 2010. Important Bird Areas in Macedonia: Sites of Global and European Importance. <i>Acrocephalus</i> 31:181–282.
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### Moldova

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