



THE IUCN RED LIST  
OF THREATENED SPECIES™



## *Hippolais icterina* (Icterine Warbler)

### 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).

*Hippolais icterina* (Icterine Warbler)

**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	140–340	<1	2007-2018	partial	?		2007-2018	partial	?		1980-2018	expert	
Armenia	30–60	<1	2013-2018	complete	?		2007-2018	deficient	?		2003-2018	deficient	
Austria	13000–27000	<1	2013-2018	partial	+		2007-2018	complete	?		1981-2018	deficient	
Azerbaijan	100–1000	<1	1996-2019	expert	?		2013-2019	expert	?		1980-2019	expert	
Belarus	120000–180000	5	2010-2018	partial	0	-30 to 30	2012-2019	expert	0	0	1980-2019	expert	
Belgium	3600–7700	<1	2013-2018	expert	-	-52 to 3	2008-2018	partial	-	-61 to -16	1973-2018	partial	
Bosnia & HG	300–800	<1	2015-2018	complete	?	-10 to 10	2007-2018	complete	?		1980-2018	deficient	
Bulgaria	300–1000	<1	2005-2018	partial	+	10 to 20	2001-2018	expert	0	5 to 10	1980-2018	expert	
Croatia	300–500	<1	2011-2011	partial	0		2001-2011	expert	?		1980-2018	deficient	
Czechia	35000–70000	2	2014-2017	complete	-		2007-2018	complete	-		1982-2018	complete	
Denmark	39000–39100	1	2017	partial	-	-46 to -5	2006-2017	complete	-	-76 to -64	1980-2017	complete	
Estonia	150000–200000	6	2013-2017	expert	+	15 to 17	2007-2018	expert	0		1983-2018	expert	
Finland	16900–41100	<1	2013-2018	complete	?	-3 to 130	2007-2018	complete	0	-55 to 39	1980-2018	complete	
France	1500–2500	<1	2009-2018	partial	?		2007-2017	expert	-	-75 to -50	1989-2017	expert	
Georgia	220–2300	<1	2013-2017	partial	?			deficient	?				
Germany	100000–150000	4	2016-2016	complete	-	-31 to -10	2004-2016	complete	-		1980-2016	expert	
Hungary	3000–5000	<1	2017-2018	partial	?		2007-2018	deficient	?		1980-2018	deficient	
Kosovo	2	<1	2007-2019	expert	?		2007-2018	expert	?		1990-2018	partial	
Latvia	133000–240000	6	2016-2016	complete	+	83 to 292	2005-2018	complete	+	140 to 143	1991-2016	partial	
Lithuania	60000–90000	2	2013-2018	partial	0	0	2013-2018	partial	0	0	1980-2018	partial	
Luxembourg	0	<1	2013-2018	expert	?		2007-2018	deficient	-	-100	1980-2018	partial	
North Macedonia	0–200	<1	2014-2019	expert	0		2007-2018	expert	?		1980-2019		
Moldova	1200–1400	<1	2014-2017	partial	0		2007-2018	partial	0		1990-2018	expert	
Netherlands	10000–15000	<1	2013-2015	complete	+	4 to 30	2006-2017	complete	-	-64 to -45	1984-2017	complete	
Norway	20000–100000	1	2013-2018	expert	F		2013-2018	partial	?		1980-2018	partial	
Poland	410000–540000	15	2013-2018	complete	-	-25 to -5	2007-2018	complete	?		1980-2018	deficient	
Romania	113000–312000	6	2013-2015	complete	?	-4 to 8	2008-2018	partial	?		1980-2018	deficient	
Russia	1000000–2000000	45	2006-2018	partial	-	-20 to -10	2006-2018	expert	+	10 to 20	1978-2018	expert	
Serbia	12500–20100	<1	2013-2018	partial	0	0	2007-2018	complete	+	10 to 29	1980-2018	complete	
Slovakia	10000–20000	<1	2013-2018	expert	0		2007-2018	expert	0		1980-2018	expert	
Slovenia	0–5	<1	2002-2017	complete	?		2008-2018	deficient	?		1980-2018	deficient	
Sweden	51000–67000	2	2013-2018	partial	+	2 to 34	2007-2018	partial	0	-10 to 50	1980-2018	partial	

*Hippolais icterina* (Icterine Warbler)

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

Country (or territory) <sup>2</sup>	Population estimate				Short-term population trend <sup>5</sup>				Long-term population trend <sup>5</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	
Switzerland	100–150	<1	2013–2016	partial	0	-66 to 4	2007-2018	complete	-	-85 to -66	1990-2018	complete	
Turkey	100–500	<1	2002-2012	partial	?		2008-2019	deficient	?		1980-2013	deficient	
Ukraine	60000–80000	2	2015-2017	partial	F	5 to 10	2007-2019	expert	F	10 to 15	1980-2019	expert	
EU28	1150000–1830000	46											
<b>Europe</b>	<b>2360000–4220000</b>	<b>100</b>											

<sup>1</sup> See 'Sources' at end of factsheet, and for more details on individual EU Member State reports, see the Article 12 reporting portal at <http://bd.eionet.europa.eu/article12/report>.

<sup>2</sup> The designation of geographical entities and the presentation of the material do not imply the expression of any opinion whatsoever on the part of IUCN or BirdLife International concerning the legal status of any country, territory or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

<sup>3</sup> In the few cases where population size estimates were reported in units other than those specified, they were converted to the correct units using standard correction factors.

<sup>4</sup> The 'method used' (replacing the data 'quality' assessment in the 2015 European Red List) is reported as: a) Complete: complete survey or a statistically robust estimate; b) Partial: based mainly on extrapolation from a limited amount of data; c) Expert: based mainly on expert opinion with very limited data; d) Defficient: insufficient or no data available.

<sup>5</sup> The robustness of regional trends to the effects of any missing or incomplete data was tested using plausible scenarios, based on other sources of information, including any other reported information, recent national Red Lists, scientific literature, other publications and consultation with relevant experts.

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

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

## Trend maps

A symbol appears in each country where the species occurs: the shape and colour of the symbol represent the population trend in that country, and the size of the symbol corresponds to the proportion of the European population occurring in that country.

### KEY

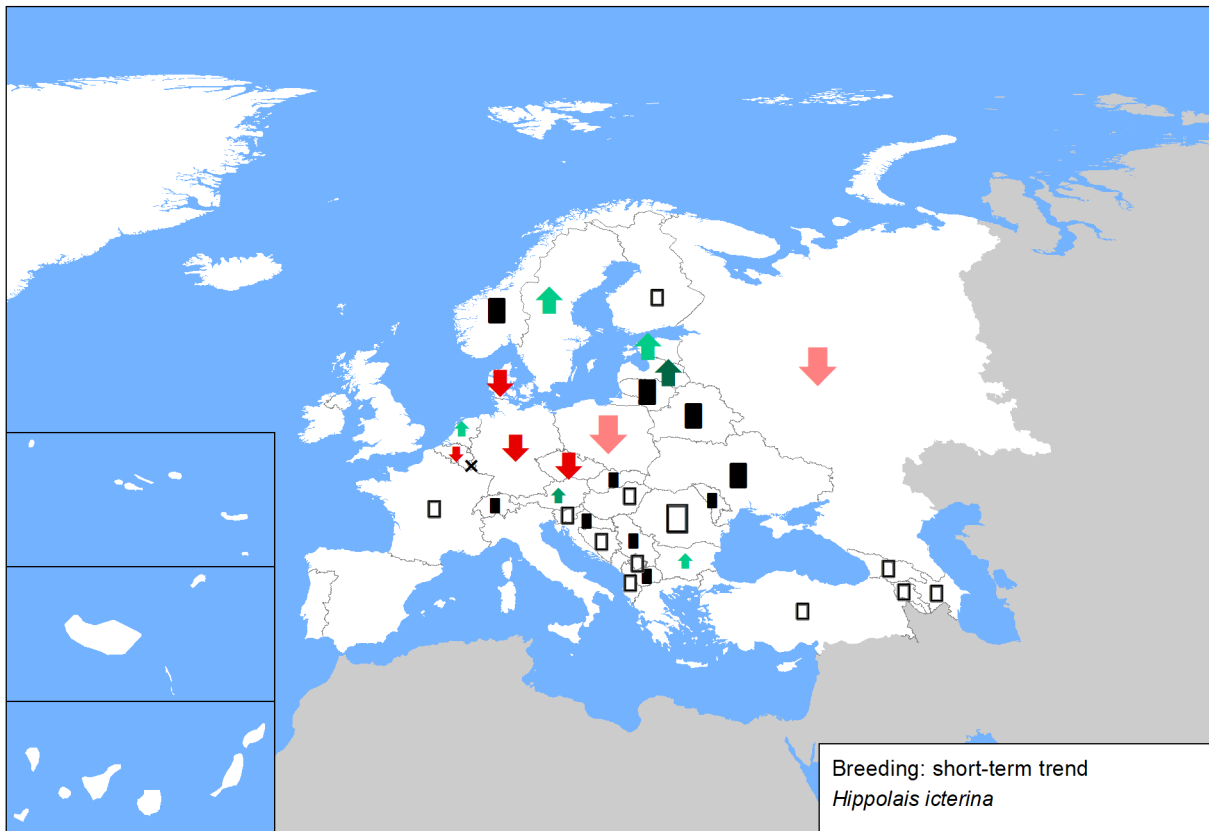
- |   |                                 |
|---|---------------------------------|
| ↑ Large increase (≥50%)                 | ↓ Large decrease (≥50%)         |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)    |
| ↑ Small increase (<20%)                 | ↓ Small decrease (<20%)         |
| ↑ Increase of unknown magnitude         | ↓ Decrease of unknown magnitude |
| ■ Stable or fluctuating                 |                                 |
| □ Unknown                               |                                 |
| ○ Present (no population or trend data) |                                 |
| × Extinct since 1980                    |                                 |

Each symbol, with the exception of Present and Extinct, may occur in up to three different size classes, corresponding to the proportion of the European population occurring in that country.

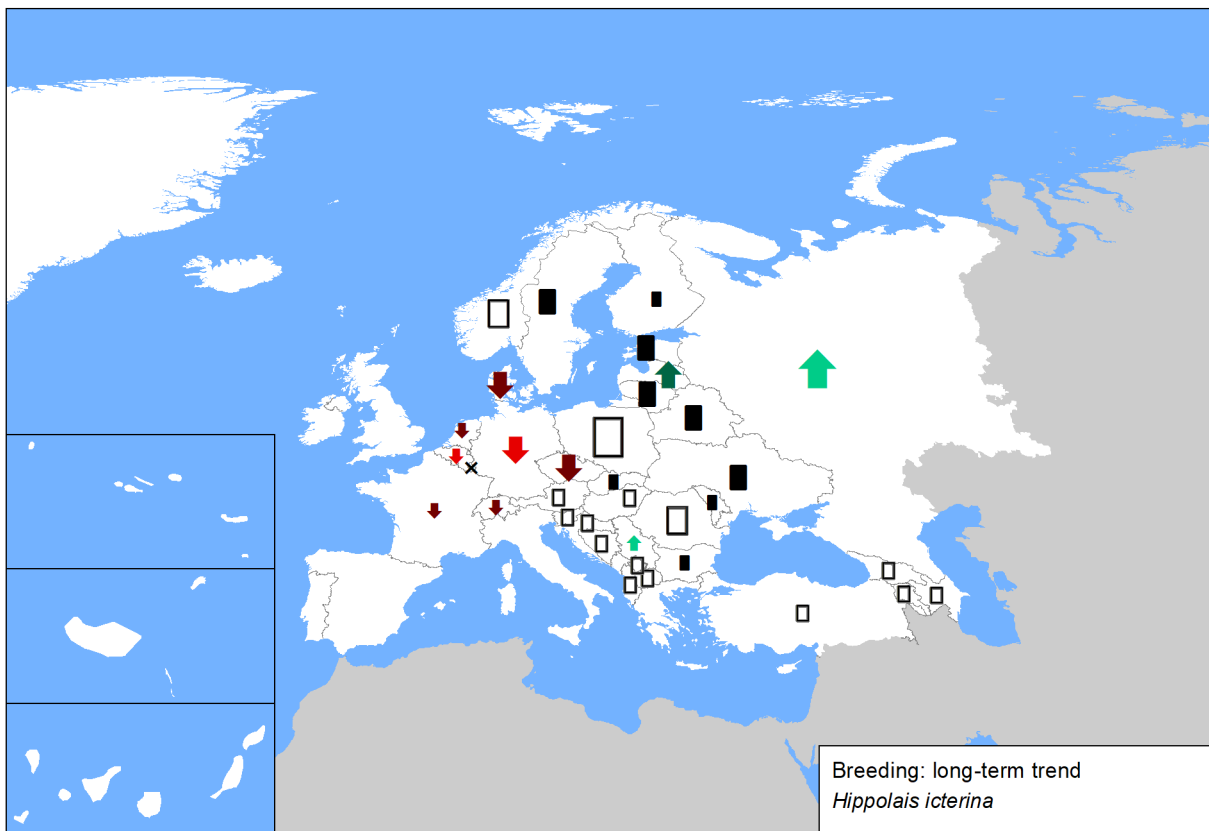
- ↑ Large: ≥10% of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small: <1% of the European population

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.



## *Hippolais icterina* (Icterine Warbler)

### Sources

#### Albania

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

#### Armenia

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

#### Austria

<b>Breeding population size:</b> BirdLife Austria, 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

#### Azerbaijan

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

#### Belarus

<b>Breeding population size:</b> Research work of the National Academy of Sciences of the Republic of Belarus "Dynamics and predictive assessment of changes in the state of populations of the main resource and biocenotically most important bird species in Belarus"
<b>Breeding long-term trend:</b> Nikiforov M.E., Kozulin A.V., eds. Belarussian birds at the beginning of XXI century: status, numbers, distribution. - 1997. - Minsk. - 187 p.

#### Belgium

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

#### Bosnia and Herzegovina

<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

<b>Breeding population size:</b> Georgiev, D. 2007. Hippolais icterina. In: Iankov, P. (Ed.) Atlas of breeding birds in Bulgaria. Bulgarian Society for the Protection of Birds Conservation series, Book 10, BSPB, Sofia.; National Art. 12 reporting database 2013-2018; Nankinov, D. et al. Breeding totals of the ornithofauna in Bulgaria. Green Balkans, Plovdiv, 2004. Nikolov, S. Red Data Book of the Republic of Bulgaria. Vol. 2, Animals., 2011.
<b>Breeding short-term trend:</b> Georgiev, D. 2007. Hippolais icterina. In: Iankov, P. (Ed.) Atlas of breeding birds in Bulgaria. Bulgarian Society for the Protection of Birds Conservation series, Book 10, BSPB, Sofia.; National Art. 12 reporting database 2013-2018; Nankinov, D. et al. Breeding totals of the ornithofauna in Bulgaria. Green Balkans, Plovdiv, 2004. Nikolov, S. Red Data Book of the Republic of Bulgaria. Vol. 2, Animals., 2011.
<b>Breeding long-term trend:</b> Georgiev, D. 2007. Hippolais icterina. In: Iankov, P. (Ed.) Atlas of breeding birds in Bulgaria. Bulgarian Society for the Protection of Birds Conservation series, Book 10, BSPB, Sofia. Nankinov, D. et al. Breeding totals of the ornithofauna in Bulgaria. Green Balkans, Plovdiv, 2004. Nikolov, S. Red Data Book of the Republic of Bulgaria. Vol. 2, Animals., 2011.

#### Croatia

<b>Breeding population size:</b> Tomik A. (2011) Inventarizacija gnijezdeće populacije modrovoljke Erithacus svecicus i žutog voljića Hippolais icterina. Konačno izvješće. Hrvatsko društvo za zaštitu ptica i prirode, Osijek. 46 str.
<b>Breeding short-term trend:</b> Tomik A. (2011) Inventarizacija gnijezdeće populacije modrovoljke Erithacus svecicus i žutog voljića Hippolais icterina. Konačno izvješće. Hrvatsko društvo za zaštitu ptica i prirode, Osijek. 46 str.
<b>Breeding long-term trend:</b> Tomik A. (2011) Inventarizacija gnijezdeće populacije modrovoljke Erithacus svecicus i žutog voljića Hippolais icterina. Konačno izvješće. Hrvatsko društvo za zaštitu ptica i prirode, Osijek. 46 str.

## *Hippolais icterina* (Icterine Warbler)

### Czechia

**Breeding population size:** Šťastný et Bejček in prep. - Atlas hnízdního rozšíření ptáků ČR 2014-2017

**Breeding short-term trend:** ČSO (unpubl.): Common Bird Monitoring Programme

**Breeding long-term trend:** ČSO (unpubl.): Common Bird Monitoring Programme

### Denmark

**Breeding population size:** Charlotte M. Moshøj, Daniel Palm Eskildsen, Michael Fink Jørgensen & Thomas Vikstrøm, (2018): Overvågning af de almindelige fuglearter i Danmark 1975-2017 & Mandrup, E. 1997, Hvor mange fugle yngler i Danmark, Dansk Ornitologisk Tidsskrift, nr 3, 1997

**Breeding short-term trend:** Charlotte M. Moshøj, Daniel Palm Eskildsen, Michael Fink Jørgensen & Thomas Vikstrøm, (2018): Overvågning af de almindelige fuglearter i Danmark 1975-2017

**Breeding long-term trend:** Charlotte M. Moshøj, Daniel Palm Eskildsen, Michael Fink Jørgensen & Thomas Vikstrøm, (2018): Overvågning af de almindelige fuglearter i Danmark 1975-2017

### Estonia

**Breeding population size:** Estonian Working Group on Bird Status and Numbers

**Breeding short-term trend:** [1] Estonian Working Group on Bird Status and Numbers [2] Point counts of breeding birds. [http://seire.keskkonnainfo.ee/index.php?option=com\\_content&view=article&id=3417&Itemid=5815](http://seire.keskkonnainfo.ee/index.php?option=com_content&view=article&id=3417&Itemid=5815)

**Breeding long-term trend:** [1] Estonian Working Group on Bird Status and Numbers [2] Point counts of breeding birds. [http://seire.keskkonnainfo.ee/index.php?option=com\\_content&view=article&id=3417&Itemid=5815](http://seire.keskkonnainfo.ee/index.php?option=com_content&view=article&id=3417&Itemid=5815)

### Finland

**Breeding population size:** 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.

**Breeding short-term trend:** Väisänen, R. A., Lehtikoinen, A. & Sirkiä, P. 2018: Suomen pesivän maalinuston kannanvaihtelut 1975-2017. Linnut-vuosikirja 2017: 16 31.

**Breeding long-term trend:** Väisänen, R. A., Lehtikoinen, A. & Sirkiä, P. 2018: Suomen pesivän maalinuston kannanvaihtelut 1975-2017. Linnut-vuosikirja 2017: 16 31.

### France

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

### Georgia

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

### Germany

**Breeding population size:** Monitoring häufiger Brutvögel ([http://www.dda-web.de/index.php?cat=monitoring&subcat=ha\\_neu&subsubcat=kontakt](http://www.dda-web.de/index.php?cat=monitoring&subcat=ha_neu&subsubcat=kontakt))

**Breeding short-term trend:** Monitoring häufiger Brutvögel ([http://www.dda-web.de/index.php?cat=monitoring&subcat=ha\\_neu&subsubcat=kontakt](http://www.dda-web.de/index.php?cat=monitoring&subcat=ha_neu&subsubcat=kontakt))

**Breeding long-term trend:** Gerlach et al. (in Vorb.): Vögel in Deutschland – 2019. Dachverband Deutscher Avifaunisten, Bundesamt für Naturschutz und Länderarbeitsgemeinschaft der Vogelschutzwarten, Münster.

### Hungary

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

**Breeding short-term trend:** [http://www.termeszetvedelem.hu/\\_user/browser/File/Natura2000/BD\\_12\\_jelentes\\_2013\\_anyagai/Hippolais\\_icterina.pdf](http://www.termeszetvedelem.hu/_user/browser/File/Natura2000/BD_12_jelentes_2013_anyagai/Hippolais_icterina.pdf) National park directorates' databases <http://map.mme.hu/maps/map2> National common bird monitoring scheme (MMM) database.

**Breeding long-term trend:** Magyar G., Hadarics T., Waliczky Z., Schmidt A., Nagy T. & Bankovics A. (1998): Magyarország madarainak névjegyzéke. Madártani Intézet, Budapest, 110 p. Ecsedi Z. (szerk.) (2004): A Hortobágy madárvilága. Hortobágy Természetvédelmi Egyesület, Winter Fair, Balmazújváros - Szeged. 2004. 468-469 p. MME Nomenclator Bizottság (2008): Magyarország madarainak névjegyzéke. Nomenclator avium Hungariae. Magyar Madártani és Természetvédelmi Egyesület, Budapest. 190 p. KEHOP-4.3.0-15-2016-00001 project results, unpublished. National park directorates' databases <http://map.mme.hu/maps/map2>

### Kosovo

**Breeding population size:** Qenan Maxhuni

**Breeding short-term trend:** Qenan Maxhuni

**Breeding long-term trend:** Puzovic, S. et al. (2004): Birds of Serbia and Montenegro – Size of nesting populations. I trends: 1990-2002. Ciconia 12

### Latvia

**Breeding population size:** Aunins A., Mardega I. 2018. [Countrywide monitoring of the common birds. Final report for the year 2018.] (in Latvian) Latvian Ornithological society

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**Breeding long-term trend:** Strazds M., Priednieks J., Vaverins G. 1994. [Size of Latvian bird populations.] (in Latvian) In: Putni dabā, 4: 3–18 Aunins A., Mardega I. 2018. [Countrywide monitoring of the common birds. Final report for the year 2018.] (in Latvian) Latvian Ornithological society

### Lithuania

**Breeding population size:** Expert working group of the Lithuanian Ornithological Society ([lod@birdlife.lt](mailto: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.

## *Hippolais icterina* (Icterine Warbler)

### Lithuania

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### Luxembourg

**Breeding population size:** Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. Natur&environment Luxembourg. ISBN: 978-2-919920-01-3; Ornitho.lu (2018): online database natur&environment asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg

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

**Breeding long-term trend:** Melchior E., E. Mentgen, R. Peltzer, R. Schmitt, J. Weiss (1987): Atlas der Brutvögel Luxemburgs. Lëtzebuurger Natur- a Vulleschutzliga. Kremer-Muller & Cie, Foetz, Luxembourg; Heidt C., A. Konter, P. Lorgé & J. Weiss (2002): Ornithological observations in Luxembourg 1985-1997. Regulus Wissenschaftliche Berichte Nr. 19.; Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. Natur&environment Luxembourg. ISBN: 978-2-919920-01-3; Ornitho.lu (2018): online database natur&environment asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg LUXOR (2018): natur&environment – Bird-database, Luxembourg

### 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)

### Netherlands

**Breeding population size:** Sovon Bird atlas (Sovon 2018)

**Breeding short-term trend:** NEM (Sovon, RWS, CBS, provinces)

**Breeding long-term trend:** NEM (Sovon, RWS, CBS, provinces)

### Norway

**Breeding population size:** Shimmings P. & Øien, I.J. 2015. Bestandsestimater og trender for norske hekkefugler. NOF-rapport 2015-2.

**Breeding short-term trend:** Terrestrial monitoring programme - extensive (TOV-e)

**Breeding long-term trend:** Shimmings, P. & Øien, I.J. 2015. Bestandsestimater for norske hekkefugler. NOF Rapport 2-2015. 268 pp.

### Poland

**Breeding population size:** State Environmental Monitoring / Chief Inspectorate of Environmental Protection (survey: MPPL – Common Bird Survey)

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

**Breeding long-term trend:** Chief Inspectorate of Environmental Protection & Polish Society for the Protection of Birds (OTOP) / BirdLife Poland

### Romania

**Breeding population size:** Romanian Common Bird Monitoring Programme, Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) 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:** Morkovin et al. 2017; Preobrazhenskaya unpublished. voop21@rambler.ru

**Breeding long-term trend:** Kumanin 2017; Belik et al. 2003; Preobrazhenskaya unpublished. voop21@rambler.ru

### 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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### Serbia

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**Breeding long-term trend:** 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

**Breeding population size:** Coordinatory group for reporting 2019. Danko Štefan, Darolová Alžbeta, Krištín Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.

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

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

### Slovenia

**Breeding population size:** MIHELICH T., KMECL P., DENAC K., KOCE U., VREZEC A., DENAC D. (eds.) (2019): Atlas ptic Slovenije. Popis gnezdičk 2002–2017. – DOPPS, Ljubljana.

**Breeding short-term trend:** There are no sources for this information.

**Breeding long-term trend:** There are no sources for this information.

### 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:** Svensk fågeltaxering - Swedish Bird Survey

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**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, Güven Eken, Soner Bekir personal communication (2019), Özkan K. 2011. An avifaunal survey of the Istranca mountains, Turkish Thrace: novel breeding bird records including the first breeding record of wood warbler *Phylloscopus sibilatrix* in Turkey. Sandgrouse 33, Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no: 12)

### Ukraine

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

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