



THE IUCN RED LIST
OF THREATENED SPECIES™



Sitta europaea (Wood Nuthatch)

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.

Sitta europaea (Wood Nuthatch)

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

| Country (or territory) ² | Population estimate | | | | Short-term population trend ⁴ | | | | Long-term population trend ⁴ | | | | Subspecific population (where relevant) |
|-------------------------------------|---------------------------|------------|-----------|---------|--|----------------------------|-----------|---------|---|----------------------------|-----------|---------|---|
| | Size (pairs) ³ | Europe (%) | Year(s) | Quality | Direction ⁵ | Magnitude (%) ⁶ | Year(s) | Quality | Direction ⁵ | Magnitude (%) ⁶ | Year(s) | Quality | |
| Albania | 1,500-4,500 | <1 | 2002-2012 | poor | - | 10-25 | 2002-2012 | poor | - | 10-30 | 1980-2012 | poor | |
| Andorra | 150-300 | <1 | 1999-2001 | poor | ? | | | | ? | | | | |
| Armenia | 10,000-20,000 | <1 | 2002-2012 | medium | ? | | | | ? | | | | |
| Austria | 200,000-300,000 | 2 | 2001-2012 | medium | - | 10-30 | 2000-2011 | medium | ? | | | | |
| Azerbaijan | 10,000-100,000 | <1 | 1996-2000 | poor | ? | | | | ? | | | | |
| Belarus | 200,000-280,000 | 2 | 2001-2012 | medium | 0 | 0 | 2001-2012 | medium | 0 | 0 | 1980-2012 | medium | |
| Belgium | 40,000-50,000 | <1 | 2008-2012 | medium | 0 | 0 | 2000-2012 | medium | + | 74-117 | 1973-2012 | medium | |
| Bosnia & HG | 150,000-250,000 | 1 | 2010-2014 | poor | ? | | | | ? | | | | |
| Bulgaria | 100,000-300,000 | 1 | 2005-2012 | medium | F | 5-20 | 2000-2012 | medium | 0 | 5-10 | 1980-2012 | medium | |
| Croatia | 500,000-1,000,000 | 5 | 2014 | poor | ? | | | | ? | | | | |
| Czech Rep. | 702,000-1,404,000 | 7 | 2012 | medium | + | 8-38 | 2000-2012 | good | + | 38-73 | 1982-2012 | good | |
| Denmark | 26,000 | <1 | 2011 | medium | + | 25-50 | 1999-2011 | good | + | 50-100 | 1980-2011 | good | |
| Estonia | 60,000-100,000 | 1 | 2008-2012 | medium | - | 20-50 | 2001-2012 | medium | 0 | 0-10 | 1980-2012 | medium | |
| Finland | 0-20 | <1 | 2006-2010 | medium | ? | | | | F | 0 | 1980-2010 | medium | |
| France | 700,000-1,400,000 | 7 | 2008-2012 | medium | + | 18 | 2001-2011 | medium | - | 27 | 1989-2011 | poor | |
| Georgia | Present | <1 | | | ? | | | | ? | | | | |
| Germany | 930,000-1,550,000 | 8 | 2005-2009 | medium | + | 6-24 | 1998-2009 | good | F | 0 | 1990-2009 | good | |
| Greece | 10,000-50,000 | <1 | 2008-2012 | poor | ? | | | | ? | | | | |
| Hungary | 176,000-247,000 | 1 | 2000-2012 | medium | + | 37 | 1999-2012 | medium | ? | | | | |
| Italy | 50,000-200,000 | 1 | 2011 | poor | + | 60-70 | 2000-2012 | medium | + | 60-70 | 1990-2012 | poor | |
| Kosovo | 15,000-25,000 | <1 | 2009-2014 | medium | ? | | | | ? | | | | |
| Latvia | 95,993-176,335 | 1 | 2011 | good | 0 | 0-30 | 2005-2012 | good | + | 0-302 | 1994-2010 | medium | |
| Liechtenstein | 250-400 | <1 | 2009-2014 | medium | 0 | 0 | 2003-2014 | medium | 0 | 0 | 1980-2014 | medium | |
| Lithuania | 30,000-50,000 | <1 | 2008-2012 | medium | 0 | 0 | 2001-2012 | medium | 0 | 0 | 1980-2012 | medium | |
| Luxembourg | 5,000-10,000 | <1 | 2008-2012 | medium | ? | | | | ? | | | | |
| FYRO Macedonia | 50,000-150,000 | 1 | 2001-2012 | poor | ? | | | | ? | | | | |
| Moldova | 15,000-30,000 | <1 | 2000-2010 | medium | 0 | 0 | 2000-2010 | medium | 0 | 0 | 1980-2010 | medium | |
| Montenegro | 50,000-100,000 | <1 | 2002-2012 | poor | ? | | | | ? | | | | |
| Netherlands | 29,701-37,126 | <1 | 2008-2011 | medium | + | 36-56 | 2002-2011 | good | + | 102-198 | 1984-2011 | good | |
| Norway | 15,000-25,000 | <1 | 2013 | poor | ? | | | | ? | | | | |
| Poland | 290,000-490,000 | 3 | 2008-2012 | good | + | 3-34 | 2000-2012 | good | ? | | | | |
| Portugal | 100,000-500,000 | 1 | 2008-2012 | medium | ? | | | | ? | | | | |

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

| Country (or territory) ² | Population estimate | | | | Short-term population trend ⁴ | | | | Long-term population trend ⁴ | | | | Subspecific population (where relevant) |
|-------------------------------------|------------------------------|------------|-----------|---------|--|----------------------------|-----------|---------|---|----------------------------|-----------|---------|---|
| | Size (pairs) ³ | Europe (%) | Year(s) | Quality | Direction ⁵ | Magnitude (%) ⁶ | Year(s) | Quality | Direction ⁵ | Magnitude (%) ⁶ | Year(s) | Quality | |
| Romania | 800,000-2,000,000 | 8 | 2010-2013 | medium | F | 0-20 | 2001-2013 | medium | ? | | | | |
| Russia | 3,000,000-7,000,000 | 31 | 2000-2008 | poor | ? | | | | ? | | | | |
| Serbia | 260,000-360,000 | 2 | 2008-2012 | medium | 0 | 0 | 2000-2012 | medium | 0 | 0 | 1980-2012 | medium | |
| Slovakia | 800,000-1,100,000 | 6 | 2000-2012 | medium | + | 5-15 | 2000-2012 | medium | + | 5-15 | 1980-2012 | medium | |
| Slovenia | 100,000-200,000 | 1 | 2002-2012 | medium | 0 | 0 | 2000-2012 | medium | 0 | 0 | 1980-2012 | medium | |
| Spain | 418,000-660,000 | 4 | 2004-2006 | good | + | 110 | 1998-2012 | good | 0 | 0 | 1980-2012 | poor | |
| Sweden | 125,000-252,000 | 1 | 2008-2012 | medium | + | 19-57 | 2001-2012 | good | + | 25-75 | 1980-2012 | good | |
| Switzerland | 70,000-120,000 | 1 | 2008-2012 | medium | 0 | 0 | 2001-2012 | good | 0 | 0 | 1990-2012 | medium | |
| Turkey | 50,000-200,000 | 1 | 2013 | poor | 0 | 0 | 2000-2012 | poor | 0 | 0-19 | 1990-2013 | poor | |
| Ukraine | 300,000-400,000 | 2 | 2000 | medium | F | 0-5 | 1998-2010 | medium | 0 | 0 | 1980-2010 | medium | |
| United Kingdom | 220,000 | 1 | 2009 | medium | + | 61 | 1998-2010 | good | + | 144 | 1980-2010 | good | |
| EU27 | 6,010,000-11,300,000 | 55 | | | Increasing | | | | | | | | |
| Europe | 10,700,000-21,400,000 | 100 | | | Increasing | | | | | | | | |

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

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

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

⁴ The 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.

⁵ Trend directions are reported as: increasing (+); decreasing (-); stable (0); fluctuating (F); or unknown (?).

⁶ 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.

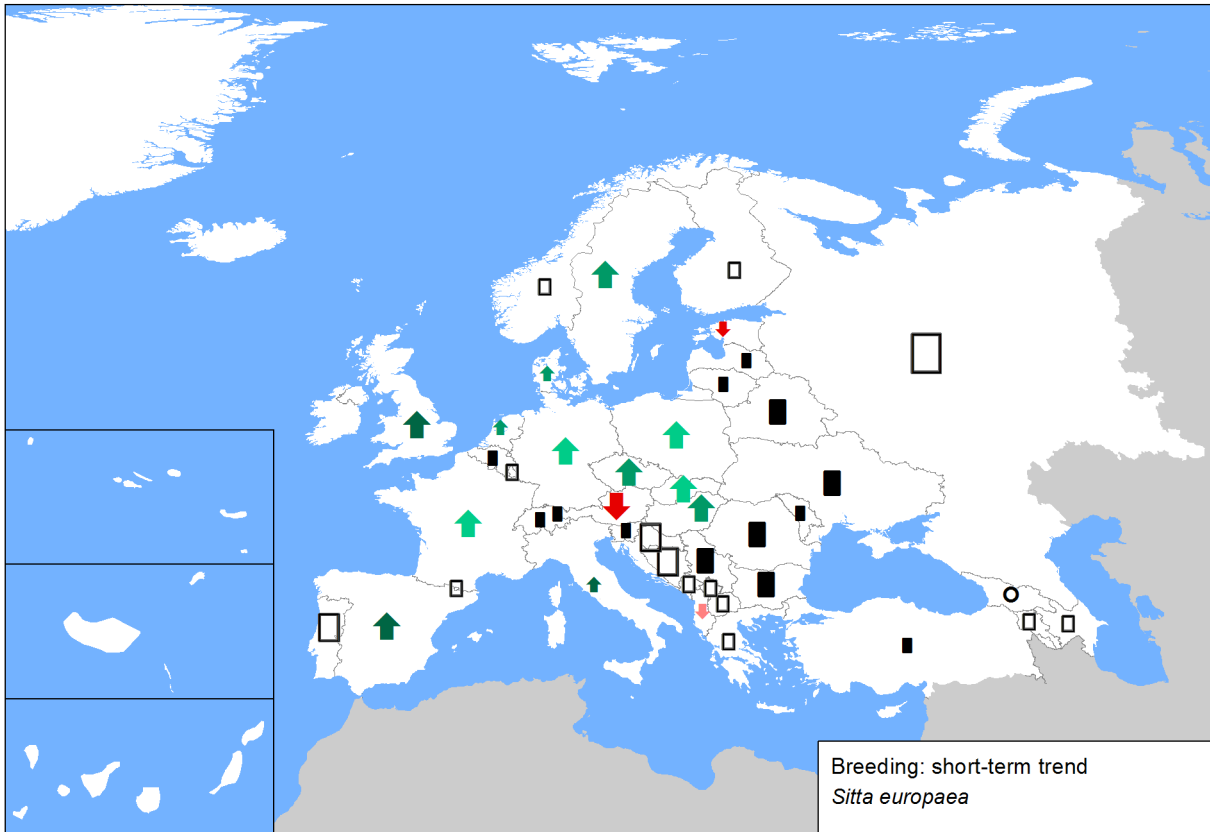
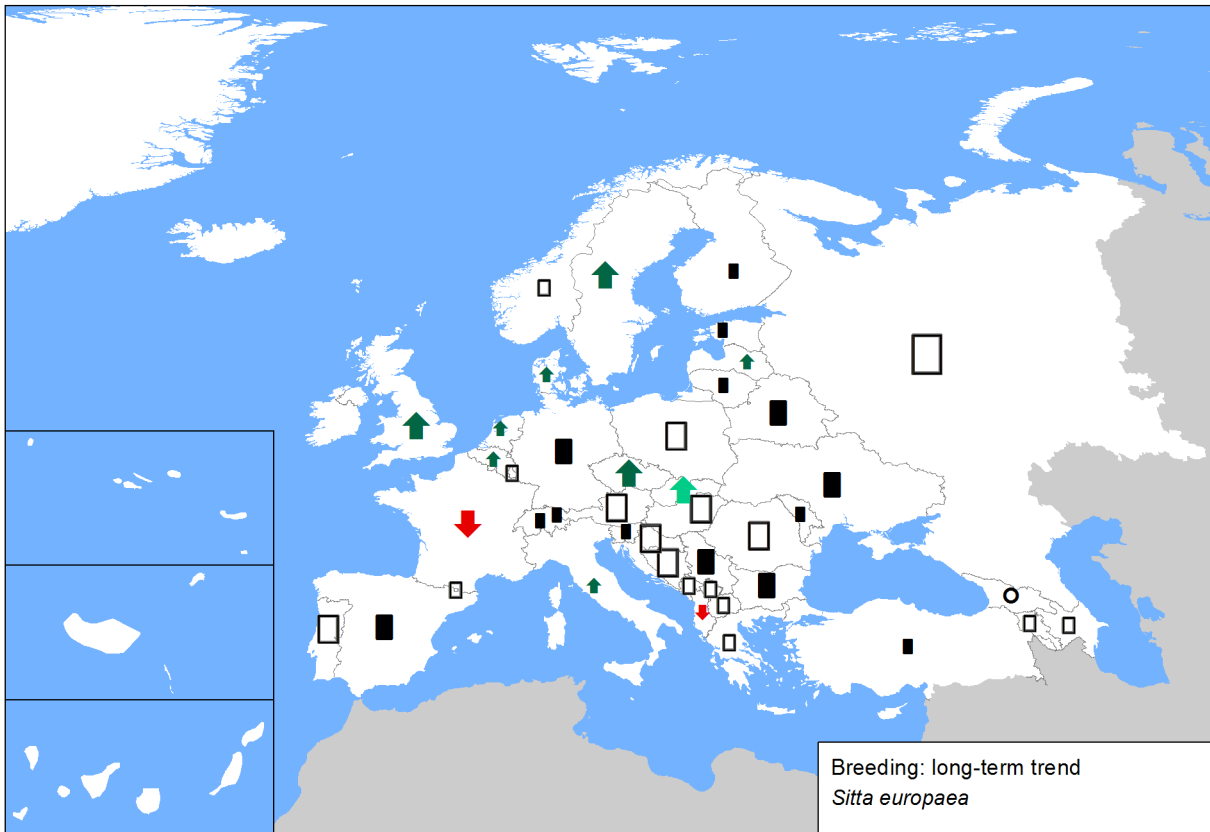


Figure 2. Breeding population sizes and long-term trends across Europe.



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

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: Koloskov M.N. - 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

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

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. BSPB Bird Database Common birds monitoring scheme in Bulgaria SPA mapping of breeding birds 2012

Breeding short-term trend: Common birds monitoring scheme in Bulgaria <http://bspb.org/monitoring/bg/product-view/3/81.html> (Population trend estimate covers the period 2005-2012)

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. BSPB Bird Database

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

Czech Republic

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=810>

Breeding short-term trend: JPSP: <http://jpsp.birds.cz/vysledky.php?taxon=810>

Breeding long-term trend: JPSP: <http://jpsp.birds.cz/vysledky.php?taxon=810>

Denmark

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)

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Estonia

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

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

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

Finland

Breeding population size: Väisänen, Risto A., Hario, Martti & Saurola, Pertti 2011: Population estimates of Finnish birds. In: Valkama, Jari, Vepsäläinen, Ville & Lehtikoinen, Alekski 2011: The Third Finnish Breeding Bird Atlas. – Finnish Museum of Natural History and Ministry of Environment. (cited [15.11.2013]) ISBN 978-952-10-7145-4.

Breeding long-term trend: Valkama, Jari, Vepsäläinen, Ville & Lehtikoinen, Alekski 2011: Suomen III Lintuatlas. – Luonnontieteellinen keskusmuseo ja ympäristöministeriö. (viitattu [15.11.2013]) ISBN 978-952-10-6918-5.

France

Breeding population size: <http://www.atlas-ornitho.fr/> Atlas des oiseaux nicheurs de France

Breeding short-term trend: <http://vigienature.mnhn.fr/page/sittelle-torchepot>

Breeding long-term trend: <http://vigienature.mnhn.fr/page/sittelle-torchepot>

Georgia

Breeding population size: BirdLife International 2004

Germany

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

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

Hungary

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.

Italy

Breeding population size: Bricchetti P & Fracasso G. 2011. *Ornitologia italiana*. Vol.7 (Paridae-Corvidae). 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)

Latvia

Breeding population size: 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.]. Latvian Ornithological society, 47 pp

Breeding short-term trend: 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.

Breeding long-term trend: 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

Breeding population size: Willi, G. (2014) Unpublished collection data

Breeding short-term trend: Willi, G. (2006) Die Vögel des Fürstentums Liechtenstein. Amtlicher Lehrmittelverlag, Vaduz (Naturkundliche Forschung im Fürstentum Liechtenstein, Bd. 22.

Breeding long-term trend: 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

Breeding population size: 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.

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Lithuania

Breeding short-term trend: 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 No12, Cambridge, UK.

Breeding long-term trend: 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

Breeding population size: 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

Breeding short-term trend: 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

Breeding long-term trend: 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

Breeding population size: M. Veleviski, unedited data

Moldova

Breeding population size: The Atlas of the Breeding Birds of Republic of Moldova. 2010. 100p.

Breeding short-term trend: The Atlas of the Breeding Birds of Republic of Moldova. 2010. 100p.

Breeding long-term trend: Munteanu A., Zubcov, N., Cozari T. Păsări. Lumea animală. Știința, 2006, Vol. 3, 220p. Burfield I., Bommel van F., Birds in Europe. Population estimates, trends and conservation status. BirdLife International. Oxford, 2004. 374p.

Montenegro

Breeding population size: 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, 36-120. Novi Sad

Netherlands

Breeding population size: NEM, Sovon en CBS, SOVON (2002)

Breeding short-term trend: NEM, Sovon en CBS, Boele et al. (2013)

Breeding long-term trend: NEM, Sovon en CBS

Norway

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

Poland

Breeding population size: Chodkiewicz T., Kuczyński L., Sikora A., Ławicki Ł., Chylarecki P., Neubauer G., Meissner W., Rohde Z. 2013. Opracowanie raportu dla Komisji Europejskiej z wdrażania Dyrektywy Ptasięj w Polsce w zakresie Monitoringu Ptaków Polski w Państwowym Monitoringu Środowiska. Sprawozdanie dla Głównego Inspektoratu Chrony Środowiska. OTOP, Marki.

Breeding short-term trend: MPPL: Chylarecki P. 2013. Czynniki kształtujące zmiany liczebności pospolitych ptaków Polski w latach 2000-2012. MiIZ PAN Warszawa. Bogucki. Wyd. Nauk. 1-126; Chodkiewicz T., Woźniak B., Chylarecki P. 2012. Monitoring Pospolitych Gatunków Ptaków. In: Podsumowanie sezonu lęgowego Monitoringu Ptaków Polski w 2012 r. OTOP, MiIZ, KOO, SOS: 29-45 (source: http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty_faza4/RaportMPP4_etap1_zad2%264_wiosna2012.pdf)

Portugal

Breeding population size: Equipa Atlas (2008). Atlas das Aves Nidificantes em Portugal (1999-2005). Instituto da Conservação da Natureza e da Biodiversidade, Sociedade Portuguesa para o Estudo das Aves, Parque Natural da Madeira e Secretaria Regional do Ambiente e do Mar. Assírio e Alvim. Lisboa; Programa Censos de Aves Comuns (CAC)

Romania

Breeding population size: Romanian Commonbird Monitoring Programme, 2007-2012 SOR database, Milvus database

Breeding short-term trend: Romanian Commonbird Monitoring Programme, 2007-2012 SOR database, Milvus database

Breeding long-term trend: Romanian Commonbird Monitoring Programme, 2007-2012 SOR database, Milvus database

Russia

Breeding population size: Ravkin E.S., Ravkin Yu.S. 2005. Birds of Northern Eurasian plains: numbers, distribution, spatial organization of communities. Novosibirsk, Nauka: 304 p. (in Russian). Numerov A.D. 1996. Class Birds Aves. – Natural resources of Voronezh Region. Vertebrate Animals. Cadaster. Voronezh, Biomik: 48-159 (in Russian). Sarychev V.S. (ed.) 2009. Vertebrates of Lipetsk Region. Voronezh: 494 p. (in Russian). Klimov S.M., Sarychev V.S., Melnikov M.V., Zemlyanukhin A.I. 2004. Fauna of the Upper Don Basin. Nonpasserines. Lipetsk, LGPU: 224 p. (in Russian). Belik V.P. 2005. Cadastre of breeding avifauna of South Russia. Strepet 3, no. 1-2: 5-37 (in Russian).

Breeding short-term trend: Preobrazhenskaya E.S., unpublished. voop21@rambler.ru Preobrazhenskaya E.S. 2007. Population dynamics of forest wintering birds in the East European Plain and the Ural. - Dynamics of the birds density in terrestrial landscapes. Proc. of the Russian scientific conference. Moscow: 39-59 (in Russian). Khozhlova T.Yu., Artemiev A.V. 2007. The main results of the long-term ornithological monitoring in the zone of concentration of birds' ranges in northwest Russia (Karelia, Zaonezhye). - Dynamics of the birds density in terrestrial landscapes. Proc. of the Russian scientific conference. Moscow: 60-74 (in Russian). Rykova S.Yu. 2007. Dynamics of number mass species of birds of Pinega reserve. - Dynamics of the birds density in terrestrial landscapes. Proc. of the Russian scientific conference. Moscow: 75-82 (in Russian). Shepel A.I., unpublished. shai53@mail.ru Yakovleva M.V., unpublished. kivach-bird@rambler.ru Sarychev V.S. (ed.) 2009. Vertebrates of Lipetsk Region. Voronezh: 494 p. Sarychev V.S., unpublished. vssar@yandex.ru

Sitta europaea (Wood Nuthatch)

Russia

Breeding long-term trend: Preobrazhenskaya E.S., unpublished. voop21@rambler.ru Preobrazhenskaya E.S. 2007. Population dynamics of forest wintering birds in the East European Plain and the Ural. - Dynamics of the birds density in terrestrial landscapes. Proc. of the Russian scientific conference. Moscow: 39-59 (in Russian). Khohlova T.Yu., Artemiev A.V. 2007. The main results of the long-term ornithological monitoring in the zone of concentration of birds' ranges in northwest Russia (Karelia, Zaonezhye). - Dynamics of the birds density in terrestrial landscapes. Proc. of the Russian scientific conference. Moscow: 60-74 (in Russian). Rykova S.Yu. 2007. Dynamics of number mass species of birds of Pinega reserve. - Dynamics of the birds density in terrestrial landscapes. Proc. of the Russian scientific conference. Moscow: 75-82 (in Russian). Shepel A.I., unpublished. shai53@mail.ru Yakovleva M.V., unpublished. kivach-bird@rambler.ru Sarychev V.S. (ed.) 2009. Vertebrates of Lipetsk Region. Voronezh: 494 p. Sarychev V.S., unpublished. vssar@yandex.ru

Serbia

Breeding population size: BPSSS (2014) Unpublished data

Breeding short-term trend: BPSSS (2014) Unpublished data

Breeding long-term trend: BPSSS (2014) Unpublished data

Slovakia

Breeding population size: Ridzoň, J.

Breeding short-term trend: Ridzoň, J.

Breeding long-term trend: Ridzoň, J.

Slovenia

Breeding population size: <http://www.ptice.si/atlas/index.php?r=site/page&view=about> BirdLife International (2004): Birds in Europe: population estimates, trends and conservation status. BirdLife Conservation Series No. 12. BirdLife International, Cambridge, UK. Geister, I. (1995): Ornitološki atlas Slovenije. DZS, Ljubljana. Jančar, T. & M. Trebušak (2000): Ptice Kozjanskega regijskega parka. Acrocephalus 21 Kmecl, P., T. Jančar & T. Mihelič (2010): Projekt izvedbe popisa ptic v travniških sadovnjakih na območju Kozjanskega regijskega parka v okviru projekta IPA »Od vijeglavke do soka«. Naročnik: Javni zavod Kozjanski park. DOPPS, Ljubljana. (100): 107-134. Kmecl, P. & Figelj, J. (2013): Monitoring splošno razširjenih vrst ptic za določitev slovenskega indeksa ptic kmetijske krajine - poročilo za leto 2013. – DOPPS, Ljubljana. http://www.natura2000.gov.si/uploads/tx_library/SIPKK_2013_1.pdf

Breeding short-term trend: <http://www.ptice.si/atlas/index.php?r=site/page&view=about> BirdLife International (2004): Birds in Europe: population estimates, trends and conservation status. BirdLife Conservation Series No. 12. BirdLife International, Cambridge, UK. Geister, I. (1995): Ornitološki atlas Slovenije. DZS, Ljubljana. Jančar, T. & M. Trebušak (2000): Ptice Kozjanskega regijskega parka. Acrocephalus 21 (100): 107-134. Kmecl, P., T. Jančar & T. Mihelič (2010): Projekt izvedbe popisa ptic v travniških sadovnjakih na območju Kozjanskega regijskega parka v okviru projekta IPA »Od vijeglavke do soka«. Naročnik: Javni zavod Kozjanski park. DOPPS, Ljubljana. Kmecl, P. & Figelj, J. (2013): Monitoring splošno razširjenih vrst ptic za določitev slovenskega indeksa ptic kmetijske krajine - poročilo za leto 2013. – DOPPS, Ljubljana. http://www.natura2000.gov.si/uploads/tx_library/SIPKK_2013_1.pdf

Breeding long-term trend: <http://www.ptice.si/atlas/index.php?r=site/page&view=about> BirdLife International (2004): Birds in Europe: population estimates, trends and conservation status. BirdLife Conservation Series No. 12. BirdLife International, Cambridge, UK. Geister, I. (1995): Ornitološki atlas Slovenije. DZS, Ljubljana. Jančar, T. & M. Trebušak (2000): Ptice Kozjanskega regijskega parka. Acrocephalus 21 (100): 107-134. Kmecl, P., T. Jančar & T. Mihelič (2010): Projekt izvedbe popisa ptic v travniških sadovnjakih na območju Kozjanskega regijskega parka v okviru projekta IPA »Od vijeglavke do soka«. Naročnik: Javni zavod Kozjanski park. DOPPS, Ljubljana. Kmecl, P. & Figelj, J. (2013): Monitoring splošno razširjenih vrst ptic za določitev slovenskega indeksa ptic kmetijske krajine - poročilo za leto 2013. – DOPPS, Ljubljana. http://www.natura2000.gov.si/uploads/tx_library/SIPKK_2013_1.pdf

Spain

Breeding population size: Carrascal, L.M. & D. Palomino (2008). Las aves comunes reproductoras en España. Población en 2004-2006. (Seguimiento de Aves, 19). SEO/BirdLife. Madrid. 202 pp. http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/19_paseriformes_2004_2006_tcm7-218232.pdf

Breeding short-term trend: SEO/BirdLife (2013). Resultados del programa Sacre de SEO/BirdLife en 2012. SEO/BirdLife. Madrid. Información obtenida a partir de la Base de Datos del Inventario de especies terrestres. Seguimiento de Aves SACRE. (Ministerio de Agricultura, Alimentación y Medio Ambiente). http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/tendencia_aves_comunes_espania.aspx Gráfica de la tendencia poblacional: http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet_aves_sist_seg_tendencia_comunes_esp.aspx <http://www.seo.org/RESULTADOS-SEGUIMIENTO-DE-AVES/>

Breeding long-term trend: 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. http://www.magrama.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/BidLife. Lynx Edicions. Barcelona. 583 pp.

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. Sveriges Ornitologiska Förening, Halmstad.

Breeding short-term trend: Swedish Bird Survey (Svensk Fågeltaxering), Lund University.

Breeding long-term trend: Swedish Bird Survey (Svensk Fågeltaxering), Lund University.

Switzerland

Breeding population size: Original estimate: Schmid, H., R. Luder, B. Naef-Daenzer, R. Graf & N. Zbinden (1998): Schweizer Brutvogelatlas. Verbreitung der Brutvögel in der Schweiz und im Fürstentum Liechtenstein 1993-1996/Atlas des oiseaux nicheurs de Suisse. Distribution des oiseaux nicheurs en Suisse et au Liechtenstein en 1993-1996. Schweizerische Vogelwarte/Station ornithologique suisse, Sempach. Swiss Ornithological Institute: Updated 2002 for BIE2 and checked with population trend: no change.

Breeding short-term trend: Swiss Ornithological Institute. <http://www.vogelwarte.ch/monitoring-common-breeding-birds.html>. 95% Confidence interval see point 3.3.

Breeding long-term trend: Swiss Ornithological Institute. <http://www.vogelwarte.ch/monitoring-common-breeding-birds.html>. Data before 1999 from less standardised survey. 95% Confidence interval see point 3.3.

Sitta europaea (Wood Nuthatch)

Turkey

Breeding population size: Zeynel Arslangündođdu personal communication. Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status. Cambridge UK: Birdlife International (Birdlife Conservation series no: 12) www.kusbank.org 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-

Breeding short-term trend: Dođa Derneđi, Eken G., Bozdođan M., İsfendiyarođlu S., Kılıç D.T., Lise Y. (2006) Key Biodiversity Areas of Turkey (Türkiye'nin Önemli Dođa Alanları) Dođa Derneđi, Ankara, KILIÇ, T., EKEN, G. 2004, Türkiye'nin Önemli Kuş Alanları Güncellemesi, Dođa Derneđi. Ankara.

Breeding long-term trend: 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: 1. Hagemajjer W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poyser. - London. 1997. 903 p. 2. Heath M.F., Evans M.I. Important birds areas in Europe. Priority sites for conservation. // Southern Europe. BirdLife International. - Cambridge. Vol.2., 2000. P. 691-724. 3. European birds populations; Estimates and trends Compiled by M. Heath, C. Borggreve, N. Peet, W. Hagemajjer/ BirdLife International/EBCC. 2000. Cambridge, UK: BirdLife Conservation Series N10, 160 p. 4. Горбань І. Оцінка чисельності гніздових птахів України. Вісник Львівського університету. Серія біологічна. Випуск 34. 2003. с. 147 – 158.

Breeding short-term trend: 1. Бокотей А.А., Дзюбенко Н.В., Горбань І.М. та інші. Гніздова орнітофауна басейну Верхнього Дністра. – Львів: ЛНУ, 2010. – 400 с. 2. Dombrowski A., Piotrowska M., Gorban I., Nikiforov M. Status and threats to avifauna. (Eds. Dombrowski A., & Z. Glowacki, та інші). Bug river valleys as the ecological corridor: state-threats-protection. IUCN European Programme. Warsaw. 2002. S. 87-102. 3. Горбань І.М. Рідкісні види птахів Шацького національного парку. // Вісник Львівського університету. Серія біологічна. Вип. 29. 2002. С.188-199.

Breeding long-term trend: 1. Tucker G.M., Heath M.F. Birds in Europe: their conservation status. - Cambridge. U.K. Bird Life Conservation Series № 3. 1994. 600 p. 2. Hagemajjer W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poyser. - London. 1997. 903 p. 3. Heath M.F., Evans M.I. Important birds areas in Europe. Priority sites for conservation. // Southern Europe. BirdLife International. - Cambridge. Vol.2., 2000. P. 691-724. 4. European birds populations; Estimates and trends Compiled by M. Heath, C. Borggreve, N. Peet, W. Hagemajjer/ BirdLife International/EBCC. 2000. Cambridge, UK: BirdLife Conservation Series N10, 160 p. 5. Горбань І.М., Бокотей А.А. Вплив трансформаційних процесів на фауну та населення птахів басейну Верхнього Дністра. Дослідження басейнової екосистеми Верхнього Дністра. Збірник наукових праць. 2000. С.145 – 155. 6. Горбань І. Оцінка чисельності гніздових птахів України. Вісник Львівського університету. Серія біологічна. Випуск 34. 2003. с. 147 – 158. 7. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 8. Бокотей А.А., Дзюбенко Н.В., Горбань І.М. та інші. Гніздова орнітофауна басейну Верхнього Дністра. – Львів: ЛНУ, 2010. – 400 с.

United Kingdom

Breeding population size: Gibbons, D.W., Reid, J.B. & Chapman, R.A. 1993. The New Atlas of Breeding Birds in Britain and Ireland: 1988–1991. Poyser, London. Musgrove, A.J., Aebischer, N.J., Eaton, M.A., Hearn, R.D., Newson, S.E., Noble, D.G., Parsons, M., Risely, K. & Stroud, D.A. 2013. Population estimates of birds in Great Britain and the United Kingdom. British Birds 106: 64-100.

Breeding short-term trend: BTO/JNCC/RSPB Breeding Bird Survey data: Risely, K., Massimino, D., Johnston, A., Newson, S.E., Eaton, M.A., Musgrove, A.J., Noble, D.G., Procter, D. & Baillie, S.R. 2012. The Breeding Bird Survey 2011. BTO Research Report 624. British Trust for Ornithology, Thetford. <http://www.bto.org/sites/default/files/u16/downloads/reports/bbsreport11.pdf>

Breeding long-term trend: Baillie, S.R., Marchant, J.H., Leech, D.I., Massimino, D., Eglinton, 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. Research Report 644. BTO, Thetford. <http://www.bto.org/birdtrends>

Bibliography

Harrap, S. 2008. Eurasian Nuthatch (*Sitta europaea*). In: del Hoyo, J., Elliott, A., Sargatal, J., Christie, D.A. and de Juana, E. (eds.) 2014. *Handbook of the Birds of the World Alive*. Lynx Edicions, Barcelona. (retrieved from <http://www.hbw.com/node/59914> on 28 March 2015).

Hagemeijer, W.J.M. and Blair, M.J. 1997. *The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance*. T & A D Poyser, London.