



THE IUCN RED LIST
OF THREATENED SPECIES™



***Leiopicus medius* (Middle Spotted Woodpecker)**

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).

Contents

| | |
|---|-------|
| Reported national population sizes and trends | p. 2 |
| Trend maps of reported national population data | p. 4 |
| Sources of reported national population data | p. 6 |
| Species factsheet bibliography | p. 10 |

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.

Leiopicus medius (Middle Spotted Woodpecker)

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 | 500-1,000 | <1 | 2002-2012 | poor | 0 | 0 | 2002-2012 | poor | - | 10-20 | 1980-2012 | poor | |
| Armenia | 800-1,200 | <1 | 2002-2012 | medium | ? | | | | ? | | | | |
| Austria | 3,000-5,000 | 1 | 2001-2012 | medium | 0 | 0 | 2001-2012 | medium | ? | | | | |
| Azerbaijan | 500-5,000 | <1 | 1996-2000 | poor | ? | | | | ? | | | | |
| Belarus | 5,000-9,000 | 2 | 2000-2012 | medium | 0 | 0 | 2001-2012 | medium | 0 | 0 | 1980-2012 | medium | |
| Belgium | 4,300-4,400 | 1 | 2008-2012 | medium | + | 2-4 | 2000-2012 | medium | + | 1620-1660 | 1973-2012 | medium | |
| Bosnia & HG | 6,500-10,000 | 2 | 2010-2014 | poor | ? | | | | ? | | | | |
| Bulgaria | 10,000-12,000 | 2 | 2005-2012 | medium | 0 | 10 | 2000-2012 | medium | ? | | | | |
| Croatia | 17,000-23,000 | 4 | 2013 | poor | ? | | | | ? | | | | |
| Czech Rep. | 3,000-6,000 | 1 | 2001-2003 | good | + | 8-24 | 2000-2012 | medium | + | 200 | 1980-2012 | poor | |
| Estonia | 100-300 | <1 | 2008-2012 | medium | + | 50-70 | 2001-2012 | medium | + | 50-70 | 1980-2012 | medium | |
| France | 40,000-80,000 | 13 | 2008-2012 | medium | + | 33 | 2001-2011 | medium | ? | | | | |
| Georgia | Present | <1 | | | ? | | | | ? | | | | |
| Germany | 27,000-48,000 | 8 | 2005-2009 | good | + | 11-40 | 1998-2009 | medium | + | 3-82 | 1990-2009 | good | |
| Greece | 10,000-30,000 | 4 | 2008-2012 | poor | ? | | | | ? | | | | |
| Hungary | 7,000-16,000 | 2 | 1999-2012 | medium | 0 | 0 | 1999-2012 | medium | ? | | | | |
| Italy | 400-600 | <1 | 2007 | poor | ? | | | | + | 20-35 | 1983-2007 | poor | |
| Kosovo | 100-250 | <1 | 2009-2014 | medium | ? | | | | ? | | | | |
| Latvia | 2,758-39,983 | 2 | 2009 | poor | + | 1-1300 | 2005-2012 | poor | + | 0-876 | 1994-2010 | poor | |
| Lithuania | 1,500-3,500 | 1 | 2008-2012 | poor | 0 | 0 | 2001-2012 | medium | 0 | 0 | 1980-2012 | medium | |
| Luxembourg | 200-400 | <1 | 2008-2012 | medium | + | 10-20 | 2000-2012 | medium | + | 20-30 | 1980-2012 | poor | |
| FYRO Macedonia | 3,000-10,000 | 1 | 2001-2012 | poor | ? | | | | ? | | | | |
| Moldova | 120-200 | <1 | 2000-2010 | medium | F | 0 | 2000-2010 | medium | F | 0 | 1980-2010 | medium | |
| Montenegro | 1,000-1,500 | <1 | 2002-2012 | poor | ? | | | | ? | | | | |
| Netherlands | 130-460 | <1 | 2008-2011 | good | + | 4544-12544 | 2002-2011 | good | + | 15304-98114 | 1994-2011 | good | |
| Poland | 18,000-23,000 | 5 | 2008-2012 | poor | + | 10-190 | 2000-2012 | good | ? | | | | |
| Romania | 80,000-250,000 | 32 | 2001-2013 | medium | - | 5-20 | 2001-2012 | poor | ? | | | | |
| Russia | 8,000-15,000 | 2 | 2005-2010 | poor | + | 30-100 | 2000-2012 | good | + | 30-100 | 1980-2012 | medium | |
| Serbia | 9,000-13,000 | 2 | 2008-2012 | medium | 0 | 0 | 2000-2012 | medium | - | 1-9 | 1980-2012 | medium | |
| Slovakia | 2,500-4,000 | 1 | 2002 | medium | 0 | 0 | 2000-2012 | medium | 0 | 0 | 1980-2012 | medium | |
| Slovenia | 2,000-3,300 | 1 | 2002-2010 | medium | - | 0-20 | 2001-2012 | poor | - | 0-20 | 1980-2012 | poor | |
| Spain | 1,045-1,205 | <1 | 1998-2002 | good | ? | | | | ? | | | | |

Leipicus medius (Middle Spotted Woodpecker)

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 | |
| Sweden | 0 | <1 | 2008-2012 | good | | | | | - | 100 | 1980-0 | good | |
| Switzerland | 700-1,000 | <1 | 2007-2011 | medium | + | 35-51 | 2001-2012 | medium | + | 57-138 | 1990-2012 | medium | |
| Turkey | 30,000-50,000 | 9 | 2013 | poor | 0 | 0 | 2000-2012 | good | - | 0-19 | 1990-2013 | poor | |
| Ukraine | 6,000-9,500 | 2 | 2000 | good | F | 5-10 | 2001-2012 | medium | F | 10-25 | 1980-2012 | medium | |
| EU27 | 213,000-528,000 | 74 | | | Increasing | | | | | | | | |
| Europe | 301,000-678,000 | 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.

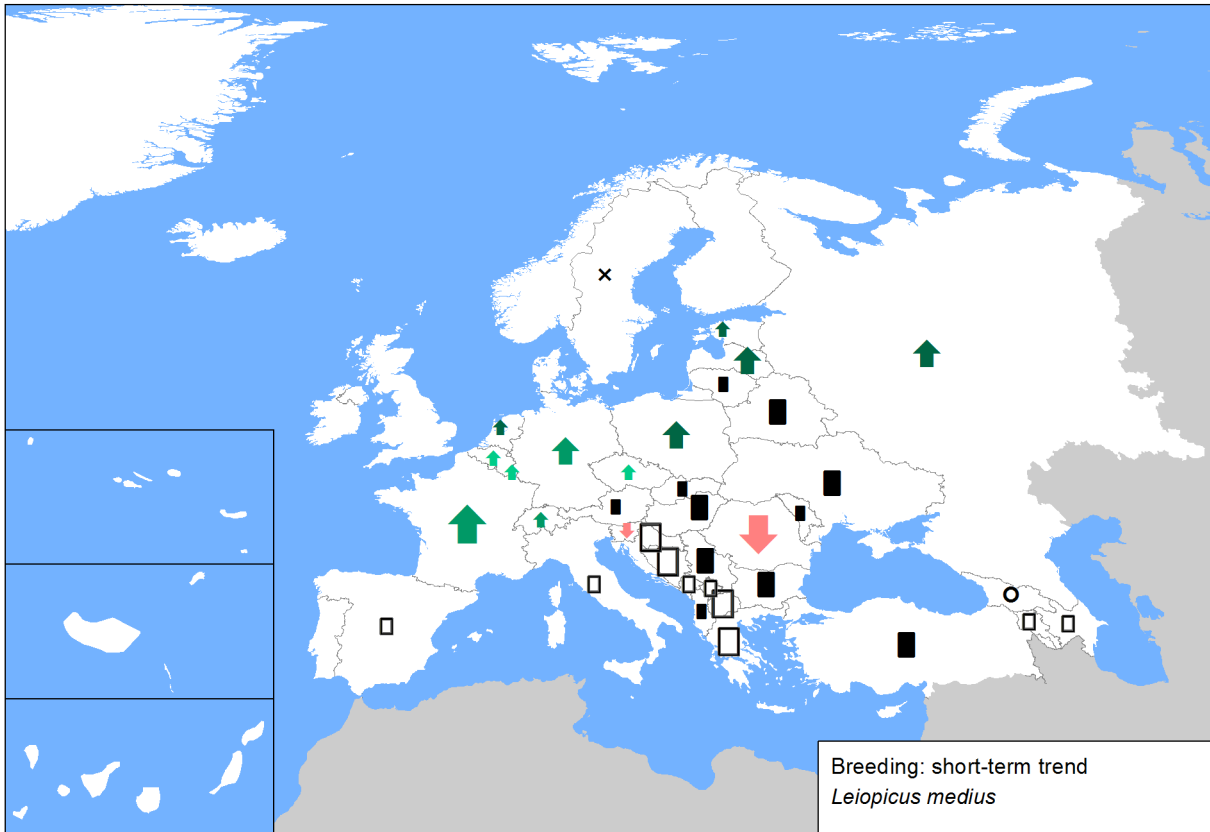
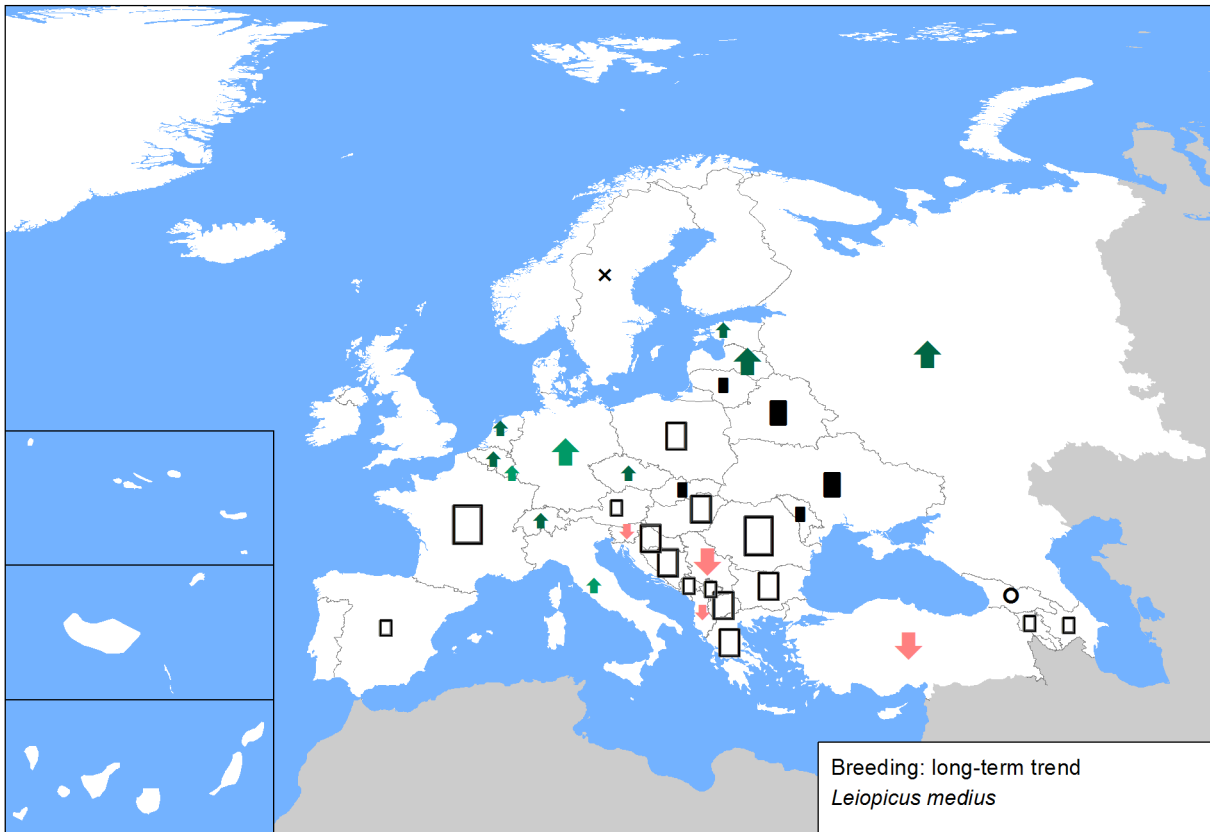


Figure 2. Breeding population sizes and long-term trends across Europe.



Sources

Albania

Breeding population size: Bino pers. obs.

Breeding short-term trend: Bino pers. obs.

Breeding long-term trend: Bino pers. obs.

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: BirdLife Austria, estimate on the basis of available unpublished and published trend data

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

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: Kotrošan, D., Dročić, N., Trbojević, S., Šimić, E., Dervović, I., 2012: Program IBA, Međunarodno značajna područja za ptice, u Bosni i Hercegovini. Ornitološko društvo "Naše ptice", interno izdanje za projekat "Evaluacija IBA područja u FBiH", Sarajevo.

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, 679 p. (In Bulgarian and English) BSPB database P.Shurulinkov, G.daskalova- own unpublished data

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 p. (In Bulgarian and English) BSPB Database P.Shurulinkov, G.daskalova- own unpublished data

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 p. (In Bulgarian and English)

Croatia

Breeding population size: Zavod za ornitologiju (Sanja Barišić, Davor Čiković, Jelena Kralj, Goran Sušić, Vesna Tutiš), Dragan Radović, Ivan Budinski, Robert Crnković, Antun Delić, Dubravko Dender, Vlatka Dumbović, Ivan Darko Grlica, Bariša Ilić, Luka Jurinović, Davor Krnjeta, Krešimir Leskovar, Duje Lisičić, Ivica Lolić, Gordan Lukač. Kristijan Mandić, Krešimir Mikulić, Tibor Mikuska, Gvido Piasevoli, Andrej Radalj, Zlatko Ružanović, Vlatka Ščetarić, Mirko Šetina, Adrian Tomik (2013): Procjene brojnosti za SPA područja. Državni zavod za zaštitu prirode, Zagreb; Zavod za ornitologiju HAZU (2011): Istraživanje brojnosti i rasprostranjenosti zlatovrane (*Coracias garrulus*) na području Ravnih kotara – 1.godina. Izvješće za Državni zavod za zaštitu prirode, Zagreb; Zavod za ornitologiju HAZU (2012): Istraživanje brojnosti i rasprostranjenosti zlatovrane (*Coracias garrulus*) na području Ravnih kotara – 2.godina. Izvješće za Državni zavod za zaštitu prirode, Zagreb

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 ptaku v České republice. Aventinum Praha.

Breeding short-term trend: J. Cepák, J. Hora, D. Horal, Z. Kučera & KUCERA Z. inpress: Monitoring druhu přílohy I směrnice o ptacích a ptacích oblasti v letech 2008-2010. AOPK ČR

Breeding long-term trend: STASTNY K., BEJCEK V. & HUDEC K. 2006: Atlas hnízdního rozšíření ptaku v České republice. Aventinum Praha.

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

Leiopicus medius (Middle Spotted Woodpecker)

France

Breeding population size: <http://www.atlas-ornitho.fr/>

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

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

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: Dachverband Deutscher Avifaunisten e.V.

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: MME Nomenclator Bizottság (2008): Magyarország madarainak névjegyzéke. Nomenclator avium Hungariae. Magyar Madártani és Természetvédelmi Egyesület, Budapest. p. 278.

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

Italy

Breeding population size: Brichetti P & Fracasso G. 2007. *Ornitologia italiana*. Vol.4 (Apodidae-Prunellidae). Alberto Perdisa Editore, Bologna

Breeding short-term trend: Gustin M, Brambilla M & Celada C. 2009. Valutazione dello stato di conservazione dell'avifauna italiana. Specie in Allegato I della Direttiva Uccelli. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Lega Italiana Protezione Uccelli (LIPU) Brichetti P & Fracasso G. 2007. *Ornitologia italiana*. Vol.4 (Apodidae-Prunellidae). Alberto Perdisa Editore, Bologna

Breeding long-term trend: Meschini E & Frugis (Eds.) 1993. Atlante degli uccelli nidificanti in Italia. Suppl. Ric. Biol. Selvaggina, XX: 1-344 Brichetti P & Fracasso G. 2007. *Ornitologia italiana*. Vol.4 (Apodidae-Prunellidae). Alberto Perdisa Editore, Bologna

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.

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.

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. Raudonikis L. 2004. Lithuania. In: Birds in Europe: population estimates, trends, and conservation status. BirdLife International, BirdLife Conservation Series No12, Cambridge, UK. Rašomavičius, V. (red.) 2007. Lietuvos raudonoji knyga. Kaunas: „Lututė“, 800 p. (Red Data Book of Lithuania, 2007)

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. Rašomavičius, V. (red.) 2007. Lietuvos raudonoji knyga. Kaunas: „Lututė“, 800 p. (Red Data Book of Lithuania, 2007)

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 Melchior E., E. Mentgen, R. Peltzer, R. Schmitt, J. Weiss (1987): Atlas der Brutvögel Luxemburgs. Lëtzebuurger Natur- a Vulleschutzliga. Kremer-Muller & Cie, Foetz, Luxembourg

The Former Yugoslav Republic of Macedonia

Breeding population size: Veleviski, M., B. Hallmann, B. Grubač, T. Lisičanec, E. Stojnov, E. Lisičanec, V. Avukatov, L. Božič, and B. Stumberger. 2010. Important Bird Areas in Macedonia: Sites of Global and European Importance. *Acrocephalus* 31:181–282.

Moldova

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

Leipicus medius (Middle Spotted Woodpecker)

Moldova

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

Breeding long-term trend: The Atlas of the Breeding Birds of Republic of Moldova. 2010. 100p. Аверин Ю. В., Ганя И.М., Успенский Г. Птицы Молдавии, том 2, Кишинев, 1971 Burfield I., Bommel van F., Birds in Europe. Population estimates, trends and conservation status. BirdLife International. Oxford, 2004. 374p. Glavan T. Ecologia piciformelor din teritoriul dintre Prut și Nistru. Galați.2003.

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 (Boele et al. 2011-2013, van Dijk et al 2010)

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

Breeding long-term trend: Sovon

Poland

Breeding population size: Expert assesment by Arkadiusz Sikora, Ornithological Station Museum and Institute of Zoology Polish Academy of Sciences, sikor@miiz.waw.pl; Ziemowit Kosiński, Department of Avian Biology and Ecology, Institute of Environmental Biology, Faculty of Biology, Adam Mickiewicz University, zkosinsk@amu.edu.pl

Breeding short-term trend: MPPL: Chylarecki P. 2013. Czynniki kształtujące zmiany liczebności pospolitych ptaków Polski w latach 2000-2012. MiZ 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, MiZ, KOO, SOS: 29-45 (source: http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty_faza4/RaportMPP4_etap1_zad2%264_wiosna2012.pdf)

Romania

Breeding population size: 1. Kovács I., Barbos L., Bóné G.M., Daróczy J. Sz., Kis R.B., Komáromi I., Latkova H., Marton A., Papp T., Zeitz R. (2013): - Evaluarea pasarilor de interes comunitar în zona Hârtibaciu - Târnava Mare - Olt. - Raport realizat pentru Asociatia WWF Programul Dunare Carpati România. Asociatia "Grupul Milvus", Târgu Mures,. 2. Kovács I., Bóné G.M., Kis R.B. (2013): Evaluarea pasarilor de interes comunitar în SPA Muntii Trascaului. Raport realizat pentru Clubul de Ecologie si Turism Montan Albamont. Asociatia "Grupul Milvus", Târgu Mures,. 3. Romanian Common Bird Monitoring Database

Breeding short-term trend: Surface of suitable forest is decreasing. "Milvus Group" Bird and Nature Protection Association database, unpublished data

Russia

Breeding population size: Butjev V.T., Fridman V.S. 2005. Middle Spotted Woodpecker. In: Prikloński S.G., Ivanchev V.P., Zubakin V.A. (eds.). Birds of Russia and adjacent regions. Strigiformes, Caprimulgiformes, Apodiformes, Coraciiformes, Upupiformes, Piciformes. Moscow, KMK: 371-383 (in Russian). Belik V.P. 2005. Cadastre of breeding avifauna of South Russia. Strepit 3, no. 1-2: 5-37 (in Russian). Proposals on enhancement of the Red Data Book of the Russian Federation: principles, structure, species composition. Vertebrate animals. - Red Data Book Laboratory of All-Russian Research Institute of Nature Protection. Executive editor Prisyazhnyuk V.E. Moscow, 2012: 528 p. 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). Sarychev V.S., unpublished. vssar@yandex.ru

Breeding short-term trend: Khohlov A.N., Ilykh M.P. 2005. Changes of fauna, populations and ecology of birds in Stavropol Territory during last 10 years. Strepit 3, issue 1-2: 38-50 (in Russian). Sarychev V.S. (ed.) 2009. Vertebrates of Lipetsk Region. Voronezh: 494 p. (in Russian). Sarychev V.S., unpublished. vssar@yandex.ru Fridman V.S. 2008. Middle Spotted Woodpecker. P. 97. In: Kachan A.S. (editor-chairman). Red Data Book of Moscow Region. Moscow (in Russian).

Breeding long-term trend: Belik V.P. et al. 2003. Recent population trends of breeding birds in the Southern Russia. - Strepit 1: 10-30 (in Russian). Numerov A.D. 1996. Class Birds Aves. – Natural resources of Voronezh Region. Vertebrate Animals. Cadaster. Voronezh, Biomik: 48-159 (in Russian). Khohlov A.N., Ilykh M.P. 2005. Changes of fauna, populations and ecology of birds in Stavropol Territory during last 10 years. Strepit 3, issue 1-2: 38-50 (in Russian). Sarychev V.S. (ed.) 2009. Vertebrates of Lipetsk Region. Voronezh: 494 p. (in Russian). 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: Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.

Breeding short-term trend: Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.

Breeding long-term trend: Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.

Slovenia

Breeding population size: Denac, K., T. Mihelič, L. Božič, P. Kmecl, T. Jančar, J. Figelj & B. Rubinič (2011): Strokovni predlog za revizijo posebnih območij varstva (SPA) z uporabo najnovejših kriterijev za določitev mednarodno pomembnih območij za ptice (IBA). Končno poročilo (dopolnjena verzija). Naročnik: Ministrstvo za okolje in prostor. DOPPS – BirdLife, Ljubljana. http://ptice.si/simarine-natura/wp-content/uploads/2013/01/Revizija_IBA_končno_porocilo_oddano_28_10_2011_dopolnjena_verzija_stisnjeno.pdf Mihelič, T. (2013): Novi ornitološki atlas gnezdičk Slovenije 2002-2010. Internetna baza podatkov. Spletna stran: <http://www.ptice.si/atlas>. Društvo za opazovanje in proučevanje ptic Slovenije, DOPPS - BirdLife Slovenija. Ljubljana.

Breeding short-term trend: Denac, K., T. Mihelič, L. Božič, P. Kmecl, T. Jančar, J. Figelj & B. Rubinič (2011): Strokovni predlog za revizijo posebnih območij varstva (SPA) z uporabo najnovejših kriterijev za določitev mednarodno pomembnih območij za ptice (IBA). Končno poročilo (dopolnjena verzija). Naročnik: Ministrstvo za okolje in prostor. DOPPS – BirdLife, Ljubljana. http://ptice.si/simarine-natura/wp-content/uploads/2013/01/Revizija_IBA_končno_porocilo_oddano_28_10_2011_dopolnjena_verzija_stisnjeno.pdf

Breeding long-term trend: Denac, K., T. Mihelič, L. Božič, P. Kmecl, T. Jančar, J. Figelj & B. Rubinič (2011): Strokovni predlog za revizijo posebnih območij varstva (SPA) z uporabo najnovejših kriterijev za določitev mednarodno pomembnih območij za ptice (IBA). Končno poročilo (dopolnjena verzija). Naročnik: Ministrstvo za okolje in prostor. DOPPS – BirdLife, Ljubljana. http://ptice.si/simarine-natura/wp-content/uploads/2013/01/Revizija_IBA_končno_porocilo_oddano_28_10_2011_dopolnjena_verzija_stisnjeno.pdf

Leipicus medius (Middle Spotted Woodpecker)

Spain

Breeding population size: 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

Breeding short-term trend: Madroño, A., González, C. & Atienza, J.C. (Eds.). 2004. Libro Rojo de las Aves de España. Dirección General para la Biodiversidad-SEO/BirdLife, Madrid. 452 pp. (http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/LR_completo_para_web_tcm7-164856.pdf)

Breeding long-term trend: Madroño, A., González, C. & Atienza, J.C. (Eds.). 2004. Libro Rojo de las Aves de España. Dirección General para la Biodiversidad-SEO/BirdLife, Madrid. 452 pp. (http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/LR_completo_para_web_tcm7-164856.pdf) Purroy, F.J. (Coord.) (1997). Atlas de las aves de España (1975-1995). SEO/BirdLife. 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: Regionally extinct, last confirmed breeding in 1980.

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

Switzerland

Breeding population size: Spaar, R., R. Ayé, N. Zbinden & U. Rehsteiner (2012): Elemente für Artenförderungsprogramme Schweiz - Update 2011. Schweizer Vogelschutz SVS/BirdLife Schweiz und Schweizerische Vogelwarte, Zürich und Sempach.

Breeding short-term trend: Swiss Ornithological Institute: <http://www.vogelwarte.ch/information-service-monitoring-rare-breeding-and-visiting-birds.html> Site-occupancy modelling based on „semi-standardised” chance observations. Percentage change based on linear regression. Min Max refer to 95% Confidence interval.

Breeding long-term trend: Swiss Ornithological Institute: <http://www.vogelwarte.ch/information-service-monitoring-rare-breeding-and-visiting-birds.html> Site-occupancy modelling based on „semi-standardised” chance observations. Percentage change based on linear regression. Min Max refer to 95% Confidence interval.

Turkey

Breeding population size: Cemil Gezgin, Zeynel Arslangündođdu, Güven Eken personal communication. Arslangündođdu Z.2005. İstanbul Belgrad Ormanının Ornitofaunası Üzerinde Arařtırmalar (Studies on the Ornitofauna of Istanbul Belgrade Forests). İ.Ü Fenbilimleri Enstitüsü. Phd Thesis. Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no: 12) www.kusbank.org

Breeding short-term trend: Dođa Derneđi, Eken G., Bozdođan M., İsfendiyođlu 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. Tucker G.M., Heath M.F. Birds in Europe: their conservation status. - Cambridge. U.K. Bird Life Conservation Series №. 3. 1994. 600 p. 2. Hagemajier 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.

Breeding short-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. Hagemajier W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poyser. - London. 1997. 903 p. 3. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 4. Горбань І. Оцінка чисельності гніздових птахів України. Вісник Львівського університету. Серія біологічна. Випуск 34. 2003. с. 147 – 158. 5. Бокотей А.А., Дзюбенко Н.В., Горбань І.М. та інші. Гніздова орнітофауна басейну Верхнього Дністра. – Львів: ЛНУ, 2010. – 400 с.

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. Hagemajier 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. Горбань І. Оцінка чисельності гніздових птахів України. Вісник Львівського університету. Серія біологічна. Випуск 34. 2003. с. 147 – 158.

Bibliography

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.

Pasinelli G., Weggler M. and Mulhauser B. 2008: *Plan d'action Pic mar Suisse. Programme de conservation des oiseaux en Suisse*. L'environnement pratique no 0805. Office fédéral de l'environnement, Station ornithologique suisse, Association Suisse pour la Protection des Oiseaux ASPO/BirdLife Suisse, Berne, Sempach and Zurich. 67 p.

Robles, H., Ciudad, C., Vera, R., Olea, P.P., Purroy, F.J., and Matthysen, E. 2007. Sylvopastoral management and conservation of the middle spotted woodpecker at the south-western edge of its distribution range. *Forest ecology and management* 242(2): 343-352.

Winkler, H., Christie, D.A., Kirwan, G.M. and de Juana, E. 2014. Middle Spotted Woodpecker (*Leipicus medius*). 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/56223> on 2 March 2015).