



THE IUCN RED LIST
OF THREATENED SPECIES™



***Dendrocopos leucotos* (White-backed Woodpecker)**

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

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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.

Dendrocopos leucotos (White-backed Woodpecker)

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

Country (or territory) ²	Population estimate				Short-term population trend ⁵				Long-term population trend ⁵				Subspecific population (where relevant)
	Size (pairs) ³	Europe (%)	Year(s)	Method ⁴	Direction ⁶	Magnitude (%) ⁷	Year(s)	Method ⁴	Direction ⁶	Magnitude (%) ⁷	Year(s)	Method ⁴	
Albania	230–580	<1	2007-2018	partial	+	15 to 16	2007-2018	partial	0	15 to 16	1980-2018	expert	
Austria	1300–1900	<1	2013-2018	complete	?		2007-2018	deficient	?		1981-2018	deficient	
Azerbaijan	100–500	<1	1996-2019	expert	?		2013-2019	expert	?		1980-2019	expert	
Belarus	6000–8000	2	2010-2018	partial	+	10 to 25	2012-2019	expert	0	0	1980-2019	expert	
Bosnia & HG	300–500	<1	2015-2018	complete	?	-10 to 10	2007-2018	complete	-	-10 to -1	1980-2018	expert	
Bulgaria	1000–1800	<1	2013-2018	partial	-	-10 to -5	2000-2018	partial	-	-10 to -5	1980-2018	partial	
Croatia	1200–1800	<1	2010-2015	expert	?		2007-2018	deficient	?		1980-2018	deficient	
Czechia	180–260	<1	2014-2017	complete	?		2007-2018	deficient	?		1980-2018	deficient	
Estonia	4000–6000	2	2013-2017	partial	0	-11 to 83	2007-2018	partial	+	0 to 20	1980-2018	partial	
Finland	180–400	<1	2013-2018	complete	+		2007-2018	complete	+		1985-2018	complete	
France	310–400	<1	2013-2018	partial	0	0	2007-2017	deficient	0	0	1989-2018	partial	
Georgia	1400–2500	<1	2018-2019	partial	?			deficient	?				
Germany	480–650	<1	2012-2016	expert	0		2004-2016	expert	?		1980-2016	deficient	
Greece	500–2000	<1	2015	partial	0		2007-2018	partial	0		1980-2018	partial	
Hungary	260–760	<1	2014-2018	partial	0		2007-2018	expert	0		1980-2018	expert	
Italy	250–350	<1	2013-2018	expert	?		2007-2018	deficient	0		1993-2018	expert	
Kosovo	150–250	<1	2007-2019	partial	+		2007-2018	partial	+		1990-2018	partial	
Latvia	4000–7000	2	2018-2018	partial	+	8 to 314	2008-2018	complete	+	314 to 326	1991-2018	expert	
Lithuania	1500–2300	<1	2013-2018	partial	-	-20 to -10	2013-2018	partial	?		1980-2018	deficient	
North Macedonia	200–400	<1	2014-2019	expert	?		2007-2018	deficient	?		1980-2019		
Montenegro	2400–4800	1	2013-2018	partial	+		2007-2018	expert	?				
Norway	1100–2000	<1	2013-2018	expert	?		2013-2018	deficient	?		1980-2018	partial	
Poland	1500–2000	<1	2013-2017	complete	?	-25 to 14	2013-2017	complete	?		1980-2018	deficient	
Romania	16600–55600	10	2013-2015	complete	?		2007-2018	deficient	?		1980-2018	deficient	
Russia	160000–300000	75	2006-2018	partial	-	-30 to -10	2006-2019	partial	+	10 to 20	1980-2018	partial	
Serbia	410–660	<1	2013-2018	partial	-	-29 to -10	2007-2018	complete	-	-29 to -10	1980-2018	complete	
Slovakia	3000–4500	1	2013-2018	partial	-	-10 to 0	2007-2018	partial	-	-10 to 0	1980-2018	partial	
Slovenia	100–150	<1	2002-2018	complete	-	-40 to -20	2012-2019	partial	?		1980-2018	deficient	
Spain	70–100	<1	2018	expert	0		2007-2018	partial	+		1980-2018	partial	
Sweden	5–10	<1	2013-2018	complete	+	200 to 250	2007-2018	complete	-		1980-2018	complete	
Switzerland	20–30	<1	2013–2016	complete	+		2007-2018	partial	+		1990-2018	partial	
Turkey	500–1000	<1	2002-2012	expert	?		2008-2019	deficient	?		1980-2013	deficient	

Dendrocopos leucotos (White-backed Woodpecker)

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

Country (or territory) ²	Population estimate				Short-term population trend ⁵				Long-term population trend ⁵				Subspecific population (where relevant)
	Size (pairs) ³	Europe (%)	Year(s)	Method ⁴	Direction ⁶	Magnitude (%) ⁷	Year(s)	Method ⁴	Direction ⁶	Magnitude (%) ⁷	Year(s)	Method ⁴	
Ukraine	900–1800	<1	2015-2017	partial	?		2009-2019	deficient	-	-80 to -50	1980-2018	partial	
EU28	36400–88000	19											
Europe	210000–411000	100											

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 '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.

⁵ 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.

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

⁷ 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.

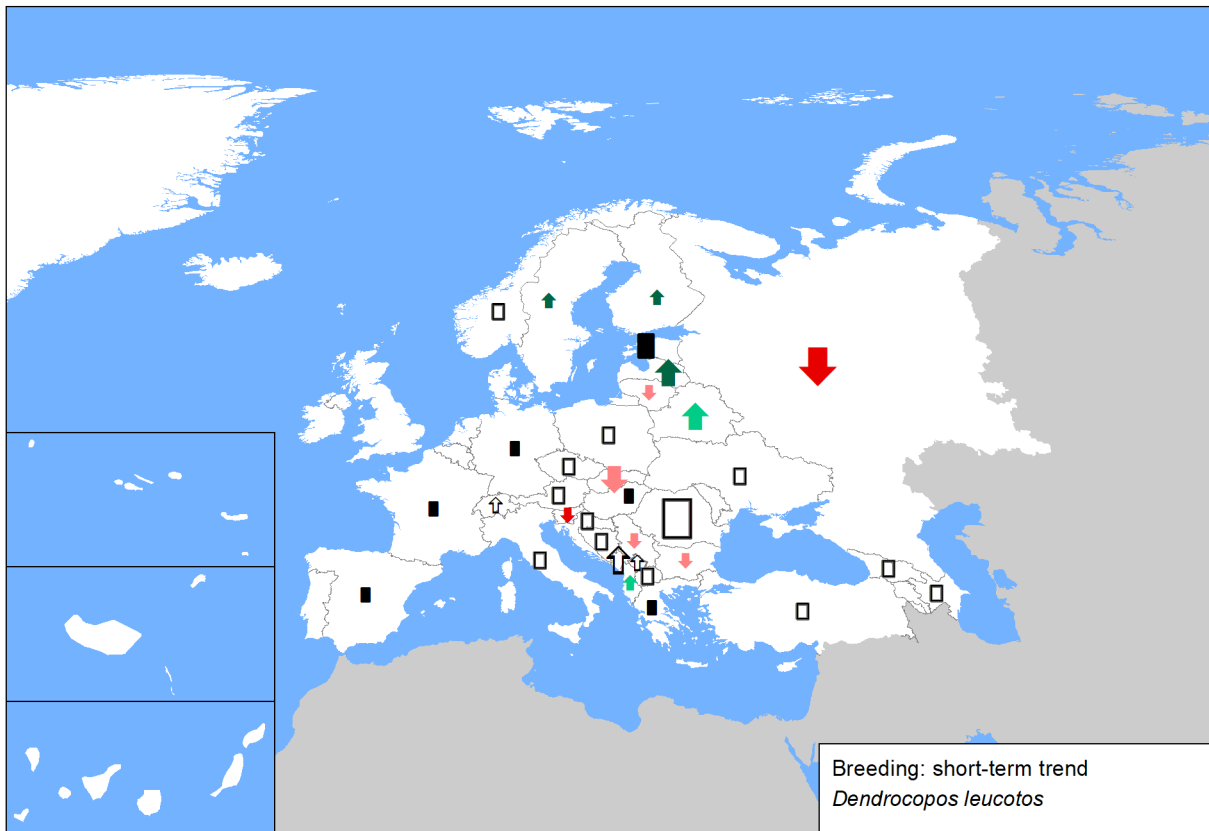
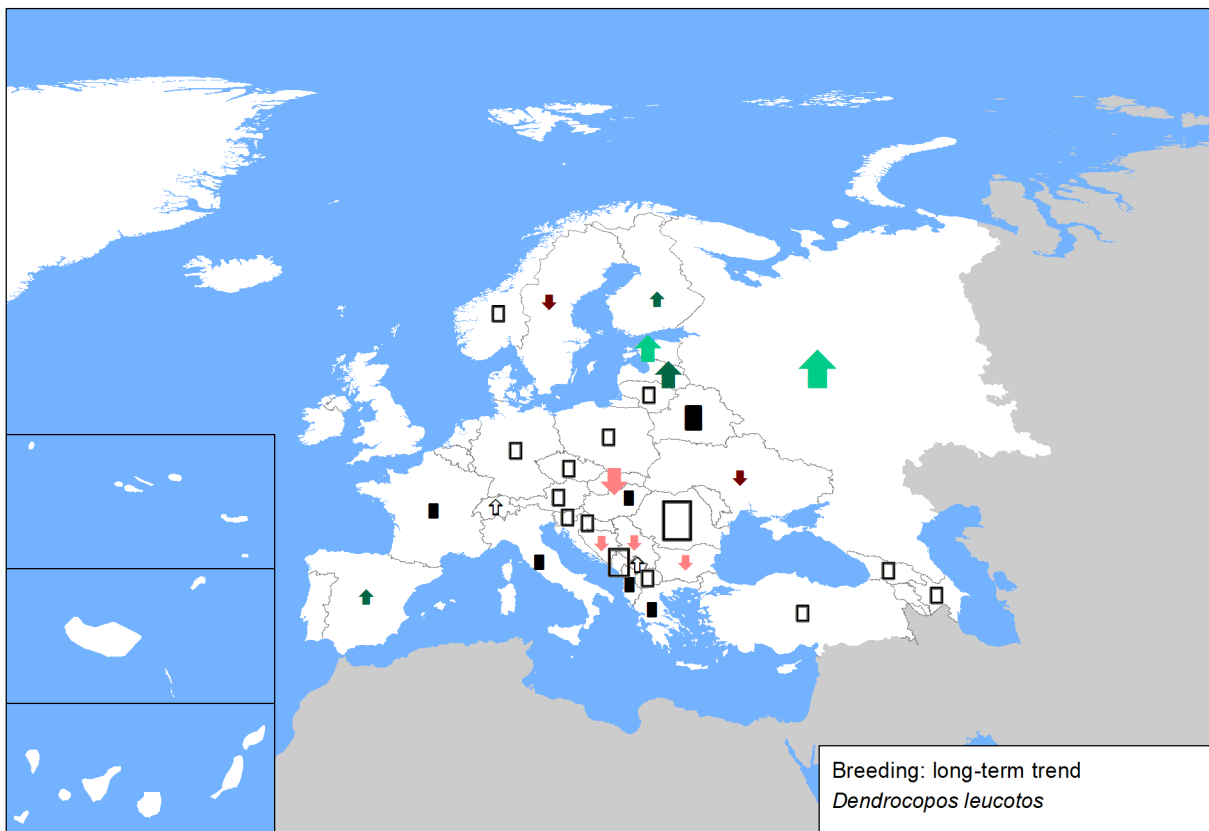


Figure 2. Breeding population sizes and long-term trends across Europe.



Dendrocopos leucotos (White-backed Woodpecker)

Sources

Albania

Breeding population size: Bino & Xeka pers. obs.
Breeding short-term trend: Bino & Xeka pers. obs.
Breeding long-term trend: Bino pers. obs.

Austria

Breeding population size: BirdLife Austria, unpublished data from www.ornitho.at
Breeding short-term trend: BirdLife Austria, unpublished data from www.ornitho.at ; BirdLife Austria, unpublished archive data
Breeding long-term trend: BirdLife Austria, unpublished archive data

Azerbaijan

Breeding population size: BirdLife International 2004
Breeding short-term trend: AOS data base
Breeding long-term trend: AOS Data Base

Belarus

Breeding population size: 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"
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.

Bosnia and Herzegovina

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

Bulgaria

Breeding population size: Gerdzhikov G. P., K. B. Georgiev, D. G. Plachiyski, T. Zlatanov & P. S. Shurulinkov (2018) Habitat Requirements of the White-backed Woodpecker <i>Dendrocopos leucotos lilfordi</i> (Sharpe & Dresser, 1871) (Piciformes: Picidae) in Strandzha Mountain, Bulgaria. Acta zool. bulg., 70 (4), 2018: 527-534; National Art. 12 reporting database 2013-2018; Iankov, P. (ed.) 2007. Atlas of breeding birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10. Sofia, BSPB.
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Croatia

Breeding population size: Zavod za ornitologiju (Sanja Barišić, Davor Ćiković, 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 Krnježeta, 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 (2015): Procjene brojnosti za SPA područja. Državni zavod za zaštitu prirode, Zagreb
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Breeding long-term trend: no data available

Czechia

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Breeding short-term trend: expert opinion
Breeding long-term trend: expert opinion

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] Monitoring of woodpeckers. http://seire.keskkonnainfo.ee/index.php?option=com_content&view=article&id=2058&Itemid=371
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Finland

Breeding population size: Lehikoinen, 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.
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Finland

Breeding long-term trend: Metsähallitus and WWF, monitoring data.

France

Breeding population size: Issa N. & Muller Y. 2015. Atlas des oiseaux nicheurs de France métropolitaine. , LPO/SEOF/MNHN/Delachaux et Niestlé, Paris ; Auria J. C. 2016. Recherche du pic à dos blanc. Forêt communale de Bruges.. Rapport d'étude, ONF17 p.

Georgia

Breeding population size: Levan Ninua: levan.ninua@iliauni.edu.ge; Zura Javakhishvili: zurab.javakhishvili.1@iliauni.edu.ge;

Germany

Breeding population size: Gerlach et al. (in Vorb.): Vögel in Deutschland – 2019. Dachverband Deutscher Avifaunisten, Bundesamt für Naturschutz und Länderarbeitsgemeinschaft der Vogelschutzwarten, Münster.

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Greece

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Hungary

Breeding population size: National park directorates' databases (Annual survey of colonially breeding and strictly protected bird species) <http://map.mme.hu/maps/map2> KEHOP-4.3.0-15-2016-00001 project

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Italy

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Kosovo

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Latvia

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Latvia

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Lithuania

Breeding population size: Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) 2015-2018. Lietuvos perinčių paukščių atlaso duomenų bazė (Lithuanian Breeding Birds Atlas Database). Vilnius. Ministry of Environment of the Republic of Lithuania. 2012. Status and trends of bird populations (Article 12, Birds Directive 2009/147/EC) National Summary 2008-2012 Lithuania. Ministry of Environment of the Republic of Lithuania. 2016-2018. Leidinio "Lietuvos raudonoji knyga" parengimo paslaugos (Red data book of Lithuania). (Agreement No VPS-2016-104-ES)

Breeding short-term trend: Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) 2015-2018. Lietuvos perinčių paukščių atlaso duomenų bazė (Lithuanian Breeding Birds Atlas Database). Vilnius. Ministry of Environment of the Republic of Lithuania. 2012. Status and trends of bird populations (Article 12, Birds Directive 2009/147/EC) National Summary 2008-2012 Lithuania. Ministry of Environment of the Republic of Lithuania. 2016-2018. Leidinio "Lietuvos raudonoji knyga" parengimo paslaugos (Red data book of Lithuania). (Agreement No VPS-2016-104-ES)

Breeding long-term trend: Logminas, V. (ed.). 1991. Lietuvos fauna: paukščiai. Vilnius: „Mokslas“. Kurlavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“. Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) BirdLife International/European Bird Census Council. 2000. European bird populations: estimates and trends. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 10). Raudonikis L. 2004. Important Bird Areas of the European Union Importance in Lithuania. Lithuanian Ornithological Society & Institute of Ecology of Vilnius University. Lututė, Vilnius. Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“. Ministry of Environment of the Republic of Lithuania. 2012. Status and trends of bird populations (Article 12, Birds Directive 2009/147/EC) National Summary 2008-2012 Lithuania. Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) 2015-2018. Lietuvos perinčių paukščių atlaso duomenų bazė (Lithuanian Breeding Birds Atlas Database). Vilnius. Ministry of Environment of the Republic of Lithuania. 2016-2018. Leidinio "Lietuvos raudonoji knyga" parengimo paslaugos (Red data book of Lithuania). (Agreement No VPS-2016-104-ES)

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

Montenegro

Breeding population size: Rubinić, B., Sackl, P. & Gramatikov, M. (2019): Conserving of wild birds in Montenegro. The first inventory of potential Special Protection Areas in Montenegro. Aam Consulting. Budapest xiii + 328 pp.

Norway

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

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

Poland

Breeding population size: Chylarecki P., Chodkiewicz T., Neubauer G., Sikora A., Meissner W., Woźniak B., Wylegała P., Ławicki Ł., Marchowski D., Betleja J., Bzoma S., Cenian Z., Górski A., Korniluk M., Moczarska J., Ochocińska D., Rubacha S., Wieloch M., Zielińska M., Zieliński P., Kuczyński L. 2018. Trendy liczebności ptaków w Polsce. GIOŚ, Warszawa.

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

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: Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) 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: Results of winter bird surveys in Russia and adjacent regions 2007-2018; Yakovleva 2017

Breeding long-term trend: Results of winter bird surveys in Russia and adjacent regions 2007-2018; Yakovleva 2017

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.

Breeding short-term trend: 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.

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, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002. Karaska D., Trnka A., Krištin A., Ridzoň J.: Chránené vtáčie územia Slovenska. ŠOP SR Banská Bystrica, 2015. Ridzoň, J., Karaska, D., Topercer, J., 2015: Aktuálny stav výberových druhov vtákov v Chránených vtáčích územiach na Slovensku. Štátna ochrana prírody SR, Banská Bystrica, 320 s.

Dendrocopos leucotos (White-backed Woodpecker)

Slovakia

Breeding short-term trend: Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018. Monitoring of common species.

Breeding long-term trend: Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018. Monitoring of common species.

Slovenia

Breeding population size: Mihelič T., Kmecl P., Denac K., Koce U., Vrezec A., Denac D. (eds.) (2019): Atlas ptic Slovenije. Popis gnezdičk 2002–2017. DOPPS, Ljubljana. Denac K., Mihelič T. (2015): Status in varstvo belohrbtega detla *Dendrocopos leucotos* v Sloveniji. *Acrocephalus* 36 (164/165): 5–20.

Breeding short-term trend: The majority of Slovenian population of *Dendrocopos leucotos* is located within SPAs. Therefore, the trend for the entire country was presumed to be the same as the trend for SPAs. The negative trend (decrease of 10-30% in the period 2012-2018) was estimated based on published and unpublished results of surveys at SPA Snežnik-Pivka (2012, 2014, 2019), SPA Gluha loza (2014, 2019) and SPA Kočevsko (2012, 2015, 2018). For SPA Snežnik-Pivka see: Denac K. (2013): Belohrbti detel *Dendrocopos leucotos*. pp. 83-117. In: Denac K., Božič L., Mihelič, Denac D., Kmecl P., Figelj J., Bordjan D.: Monitoring populacij izbranih vrst ptic - popisi gnezdičk 2012 in 2013. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS-BirdLife Slovenia, Ljubljana. For Gluha loza see: Denac K. (2014): Popis belohrbtega detla na SPA Gluha loza v letu 2014. Končno poročilo. DOPPS, Ljubljana. For SPA Kočevsko see: Denac K. (2013): Belohrbti detel *Dendrocopos leucotos*. pp. 83-117. In: Denac K., Božič L., Mihelič, Denac D., Kmecl P., Figelj J., Bordjan D.: Monitoring populacij izbranih vrst ptic - popisi gnezdičk 2012 in 2013. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS-BirdLife Slovenia, Ljubljana. Perušek M., Bertonec J., Bitorajc Z., Hudoklin A. (2015): Popis belohrbtega detla *Dendrocopos leucotos* na območju Natura 2000 Kočevsko. Zavod za gozdove Slovenije, Območna enota Kočevje, Kočevje. Kuretič M., Bitorajc Z., Kotnik T., Prijanovič P., Peteržinek S. (2018): Popis belohrbtega (*Dendrocopos leucotos*) in triprstega detla (*Picoides tridactylus*) na območju Natura 2000 Kočevsko. Zavod za gozdove Slovenije, Območna enota Kočevje, Kočevje.

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

Spain

Breeding population size: BIOMA (2017). Estudio de la distribución y estima poblacional de pico dorsiblanco (*Dendrocopos leucotos* lilfordi) en diferentes lugares red Natura2000 de Navarra. Poctefa HABIOS. Informe inédito. BIOMA (2018). Estudio de la distribución y estima poblacional de pico dorsiblanco (*Dendrocopos leucotos* lilfordi) en ZEC ES0000126 "Roncesvalles-Selva del Irati" y ES2200018 "Belate". Poctefa HABIOS. Informe inédito. Campión, D. & Senosiain, A. (2004). Pico dorsiblanco, *Dendrocopos leucotos*. En Madroño, A., González, C. & Atienza, J.C. (Eds.): Libro Rojo de las Aves de España, pp. 202-207. Dirección General de Conservación de la Naturaleza -Sociedad Española de Ornitología. Madrid. Gobierno de Aragón (2018). Informe sobre los resultados del seguimiento de la reproducción del pico dorsiblanco (*Dendrocopos leucotos*) en 2018 en Ansó. Seguiramientos anuales de la población de pico dorsiblanco en Navarra. GAN/NIK y Gobierno de Navarra.

Breeding short-term trend: BIOMA (2017). Estudio de la distribución y estima poblacional de pico dorsiblanco (*Dendrocopos leucotos* lilfordi) en diferentes lugares red Natura2000 de Navarra. Poctefa HABIOS. Informe inédito. BIOMA (2018). Estudio de la distribución y estima poblacional de pico dorsiblanco (*Dendrocopos leucotos* lilfordi) en ZEC ES0000126 "Roncesvalles-Selva del Irati" y ES2200018 "Belate". Poctefa HABIOS. Informe inédito. Campión, D. & Senosiain, A. (2004). Pico dorsiblanco, *Dendrocopos leucotos*. En Madroño, A., González, C. & Atienza, J.C. (Eds.): Libro Rojo de las Aves de España, pp. 202-207. Dirección General de Conservación de la Naturaleza -Sociedad Española de Ornitología. Madrid. Gobierno de Aragón (2010). Informe sobre el estado del pico dorsiblanco. 2009-2010. Gobierno de Aragón (2014). Informe sobre los resultados del seguimiento de la reproducción del pico dorsiblanco (*Dendrocopos leucotos*) en 2014, en Ansó. Gobierno de Aragón (2018). Informe sobre los resultados del seguimiento de la reproducción del pico dorsiblanco (*Dendrocopos leucotos*) en 2018, en Ansó. Seguiramientos anuales de la población de pico dorsiblanco en Navarra. GAN/NIK y Gobierno de Navarra.

Breeding long-term trend: BIOMA (2017). Estudio de la distribución y estima poblacional de pico dorsiblanco (*Dendrocopos leucotos* lilfordi) en diferentes lugares red Natura2000 de Navarra. Poctefa HABIOS. Informe inédito. BIOMA (2018). Estudio de la distribución y estima poblacional de pico dorsiblanco (*Dendrocopos leucotos* lilfordi) en ZEC ES0000126 "Roncesvalles-Selva del Irati" y ES2200018 "Belate". Poctefa HABIOS. Informe inédito. Campión, D. & Senosiain, A. (2004). Pico dorsiblanco, *Dendrocopos leucotos*. En A. Madroño, C. González y J. C. Atienza (Eds.): Libro Rojo de las Aves de España, pp. 202-207. Dirección General de Conservación de la Naturaleza -Sociedad Española de Ornitología. Madrid. Gobierno de Aragón (2010) Informe sobre el estado del pico dorsiblanco. 2009-2010. Gobierno de Aragón (2014). Informe sobre los resultados del seguimiento de la reproducción del pico dorsiblanco (*Dendrocopos leucotos*) en 2014, en Ansó. Gobierno de Aragón (2018). Informe sobre los resultados del seguimiento de la reproducción del pico dorsiblanco (*Dendrocopos leucotos*) en 2018, en Ansó. Seguiramientos anuales de la población de pico dorsiblanco en Navarra. GAN/NIK y Gobierno de Navarra. 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. (https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/lrcompletoparaweb_tcm30-207942.pdf) Martí, R. & del Moral, J.C. (Eds.) (2003). Atlas de las Aves Reproductoras de España. Dirección General de Conservación de la Naturaleza- Sociedad Española de Ornitología. Madrid, 733 pp. (https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/leet_aves_atlas.aspx) Sampietro, F.J., Pelayo, E., Hernandez, F., Cabrera, M. & Guiral, J. (1988). Aves de Aragón. Atlas de especies nidificantes. Diputación General de Aragón-Ibercaja Seguiramientos anuales de la población de pico dorsiblanco en Navarra. GAN-NIK y Gobierno de Navarra.

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: Projekt Vitryggig hackspett SAP White-backed woodpecker

Breeding long-term trend: Projekt Vitryggig hackspett SAP White-backed woodpecker

Switzerland

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

Breeding short-term trend: 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 long-term trend: 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.

Turkey

Breeding population size: Ferdi Akarsu personal communication (2019), Kusbank Bird Database (Ebird) Kirwan G.M., Boyla K. A., Castell P., Demirci B., Özen M., Welch H., Marlow T., 2008, Birds of Turkey. Londra, Christopher Helm, 978-1-4081-0475-

Ukraine

Breeding population size: Atlas work, non-published data

Breeding long-term trend: Gorban, 2009

Dendrocopos leucotos (White-backed Woodpecker)

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