

***Ciconia ciconia* (White Stork)**

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).

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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.

Ciconia ciconia (White Stork)

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	6–9	<1	2007-2018	complete	0	-20 to 20	2007-2018	complete	-	-55 to -40	1980-2018	expert	
Armenia	660–730	<1	2013-2018	complete	+		2007-2018	complete	+	15 to 20	2003-2018	partial	
Austria	370–390	<1	2013-2015	complete	+		2007-2018	complete	+		1981-2018	complete	Central & Eastern Europe/Sub-Saharan Africa
Azerbaijan	4000–8000	2	1996-2019	partial	-		2013-2019	expert	-		1980-2019	partial	
Belarus	22000–22500	8	2010-2018	partial	0	-15 to 15	2012-2019	expert	+	65 to 103	1980-2019	expert	
Belgium	14–48	<1	2013-2018	complete	+	250 to 1100	2008-2018	complete	+	2700 to 9500	1973-2018	partial	W Europe & North-west Africa/Sub-Saharan Africa
Bosnia & HG	70–100	<1	2015-2018	complete	?	-10 to 10	2007-2018	complete	?		1980-2018	deficient	
Bulgaria	5700–6000	2	2013-2018	complete	+	15 to 20	2001-2018	complete	F		1980-2018	complete	Central & Eastern Europe/Sub-Saharan Africa
Croatia	1700–1800	<1	2014-2015	complete	0		2004-2015	complete	0		1994-2015	complete	Central & Eastern Europe/Sub-Saharan Africa
Czechia	800–810	<1	2014-2014	complete	0		2007-2018	partial	+		1984-2018	partial	Central & Eastern Europe/Sub-Saharan Africa
Denmark	2	<1	2017	complete	0		2006-2017	expert	-		1980-2017	partial	Central & Eastern Europe/Sub-Saharan Africa
Estonia	4500–5500	2	2013-2017	partial	+	54 to 61	2007-2018	partial	+	200 to 300	1980-2018	partial	Central & Eastern Europe/Sub-Saharan Africa
France	3900	2	2017-2018	partial	+		2007-2018	partial	+		1980-2018	partial	W Europe & North-west Africa/Sub-Saharan Africa
Georgia	120–1300	<1	2013-2017	partial	?			deficient	+	107 to 1955	1996-2017	partial	
Germany	3000	1	2016-2016	complete	0	-3 to 16	2004-2016	complete	+	-5 to 133	1980-2016	complete	Central & Eastern Europe/Sub-Saharan Africa
Germany	3000–3500	1	2016-2016	complete	+	199 to 358	2004-2016	complete	+	46 to 226	1980-2016	complete	W Europe & North-west Africa/Sub-Saharan Africa
Greece	2000	<1	2013-2018	partial	-		2007-2018	partial	-		1980-2018	partial	Central & Eastern Europe/Sub-Saharan Africa
Hungary	4400–5100	2	2015-2018	complete	F		2007-2018	complete	F		1979-2018	complete	Central & Eastern Europe/Sub-Saharan Africa
Italy	320–330	<1	2017	expert	+	65 to 115	2007-2018	expert	+	3200 to 31900	1993-2018	expert	W Europe & North-west Africa/Sub-Saharan Africa
Kosovo	80–90	<1	2007-2019	complete	+		2006–2018	complete	+		1990-2018	partial	
Latvia	13500–14200	5	2014-2018	complete	+	38	2012-2018	complete	+		1980-2014	complete	Central & Eastern Europe/Sub-Saharan Africa
Lithuania	18500–19500	7	2013-2018	partial	-	-5 to 0	2013-2018	partial	+	120 to 150	1980-2018	partial	Central & Eastern Europe/Sub-Saharan Africa
Luxembourg	1–2	<1	2013-2018	complete	+	100 to 200	2007-2018	complete	+	100 to 200	1980-2018	expert	W Europe & North-west Africa/Sub-Saharan Africa
North Macedonia	820–850	<1	2015-2016	expert	+	10 to 30	2007-2018	complete	+	40 to 60	1980-2019	partial	
Moldova	450–600	<1	2014-2018	complete	0		2007-2018	complete	0		1990-2018	expert	
Montenegro	1	<1	2013-2018	complete	0		2007-2018	expert	?				
Netherlands	820–1100	<1	2013-2017	complete	+	109 to 179	2006-2017	complete	+	7000 to 9949	1980-2017	complete	W Europe & North-west Africa/Sub-Saharan Africa
Poland	47400–52700	19	2013-2018	complete	+	4 to 20	2007-2018	complete	+	55 to 75	1980-2018	complete	Central & Eastern Europe/Sub-Saharan Africa
Portugal	12400–12600	5	2014	complete	0		2004-2018	partial	+		1980-2018	partial	W Europe & North-west Africa/Sub-Saharan Africa
Romania	7500–9000	3	2013-2018	partial	?	-29 to 2	2008-2018	complete	?		1980-2018	deficient	Central & Eastern Europe/Sub-Saharan Africa
Russia	10000–14000	4	2008-2018	partial	+	0	2008-2018	partial	+	0	1980-2018	partial	
Serbia	1900–2400	<1	2013-2018	complete	0	0	2007-2018	complete	0	0	1980-2018	complete	

Ciconia ciconia (White Stork)

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	
Slovakia	1100–1400	<1	2013-2018	partial	-		2007-2018	partial	-		1980-2018	partial	Central & Eastern Europe/Sub-Saharan Africa
Slovenia	210–270	<1	2013-2018	complete	0		2007-2018	complete	+		1979-2018	complete	Central & Eastern Europe/Sub-Saharan Africa
Spain	33200–33300	12	1998-2018	partial	0		2007-2018	complete	+		1980-2018	complete	W Europe & North-west Africa/Sub-Saharan Africa
Sweden	40–60	<1	2013-2018	complete	+	80 to 120	2007-2018	complete	+		1980-2018	complete	Central & Eastern Europe/Sub-Saharan Africa
Switzerland	370–460	<1	2013–2016	complete	+	110 to 201	2007-2018	complete	+	198 to 309	1990-2018	complete	
Turkey	6100–9000	3	2002-2012	complete	?		2008-2019	deficient	?		1980-2013	deficient	
Ukraine	40000–45000	16	2018	partial	+		2007-2018	partial	+	60 to 100	1980-2018	partial	
EU28	156000–168000	61											
Europe	251000–282000	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.

Ciconia ciconia (White Stork)

Table 2. Reported national wintering population sizes and trends in Europe¹. Note that some countries within the species' wintering range did not report any data, and that only minimum totals are presented, to avoid double-counting of birds moving between countries.

Country (or territory) ²	Population estimate				Short-term population trend ⁵				Long-term population trend ⁵				Subspecific population (where relevant)
	Size (individuals) ³	Europe (%)	Year(s)	Method ⁴	Direction ⁶	Magnitude (%) ⁷	Year(s)	Method ⁴	Direction ⁶	Magnitude (%) ⁷	Year(s)	Method ⁴	
Albania	0–1	<1	2007-2018	complete	+	0 to 100	2007-2018	complete	0	0	1980-2018	complete	
Azerbaijan	50–500	99	1996-2019	partial	?		2010-2019	partial	?		1980-2019	expert	
Europe	50–510	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>.

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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 ($\geq 50\%$) | ↓ 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

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Figure 1. Breeding population sizes and short-term trends across Europe.

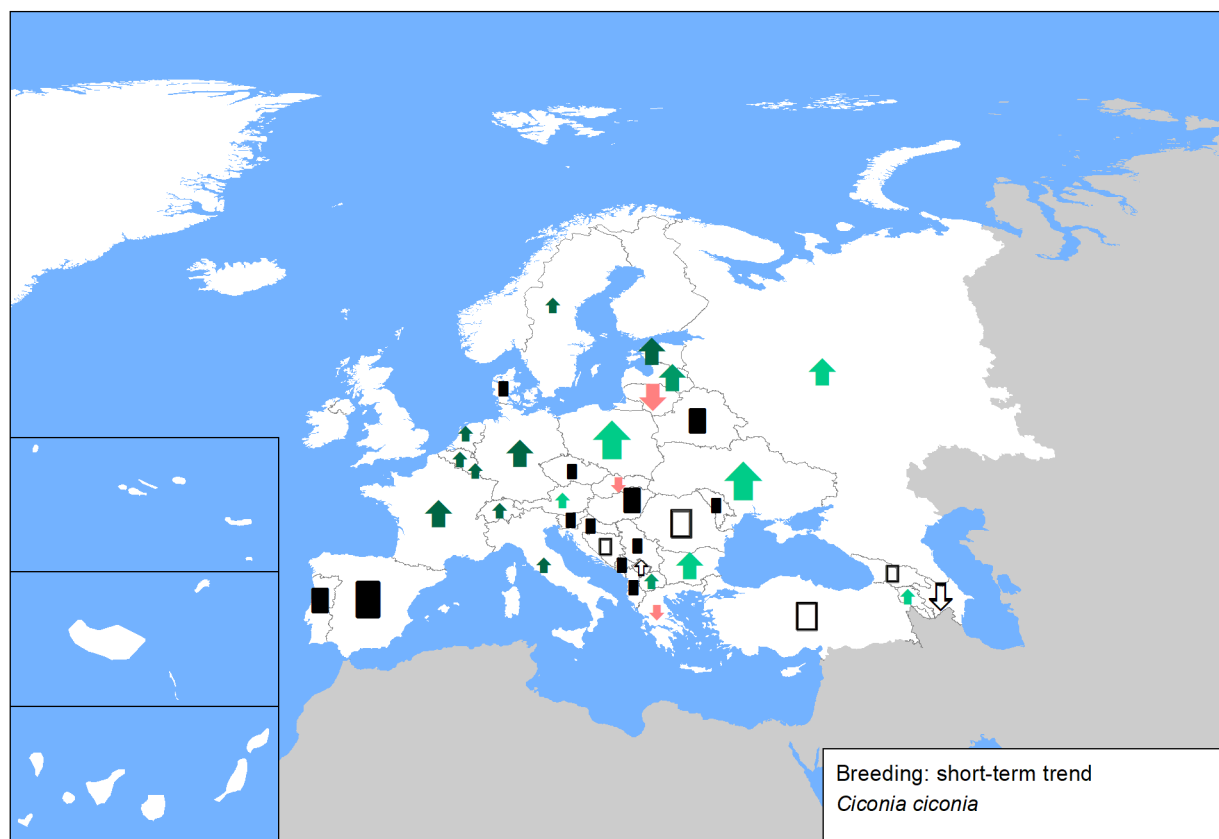


Figure 2. Breeding population sizes and long-term trends across Europe.

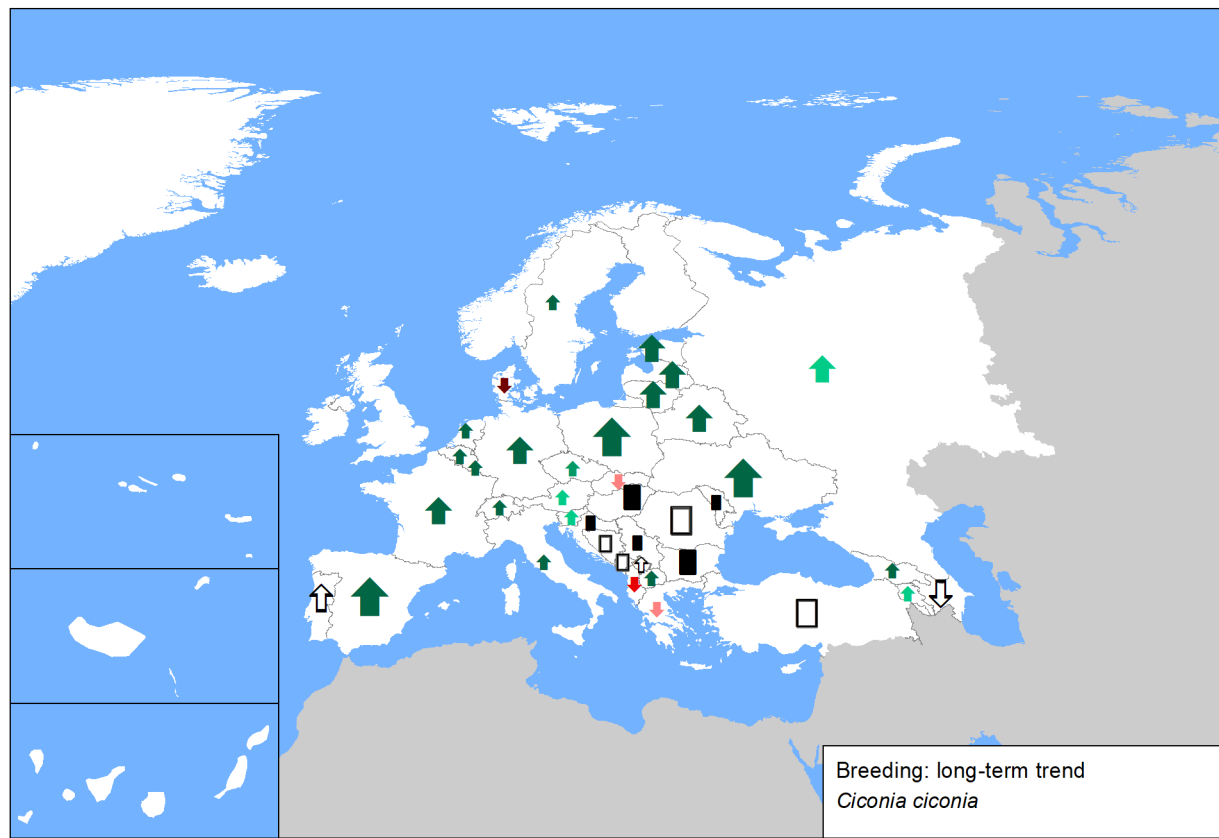


Figure 3. Reported wintering population sizes and short-term trends across Europe. Note that some countries within the species' wintering range did not report any data.

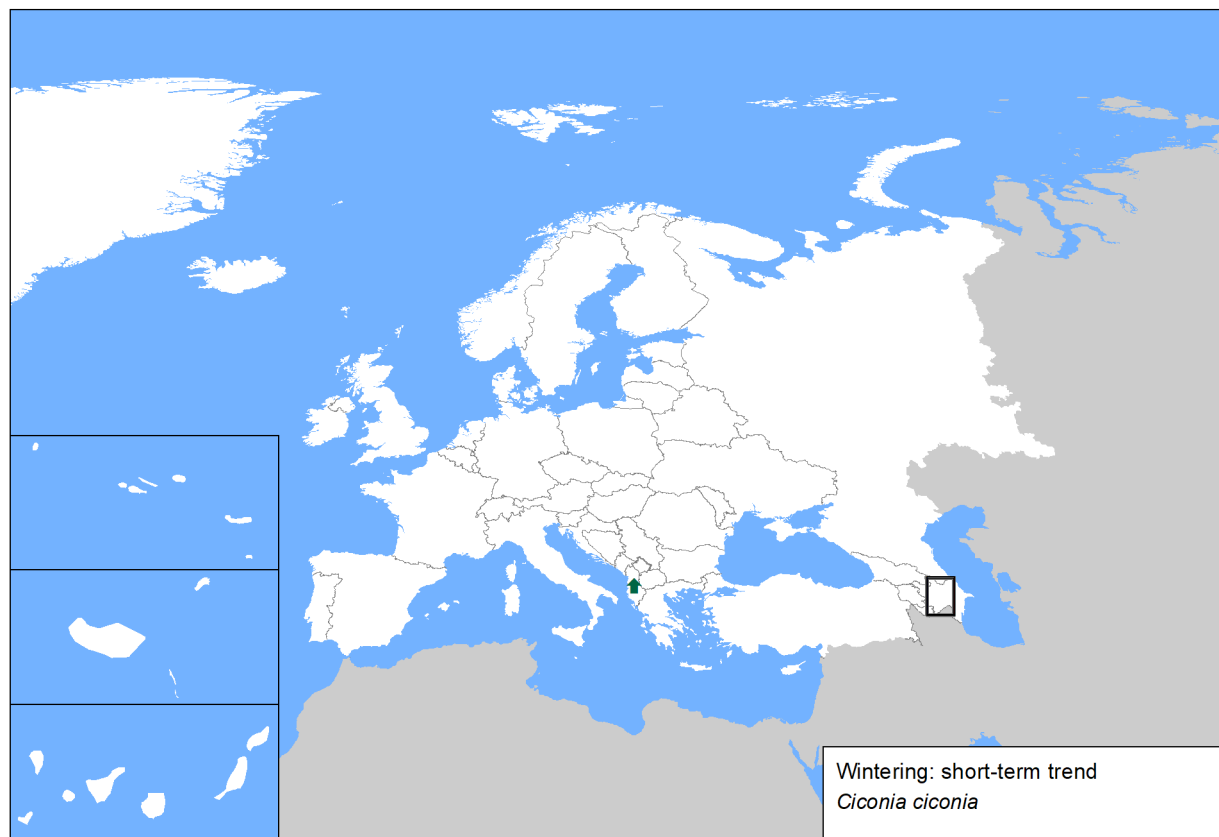


Figure 4. Reported wintering population sizes and long-term trends across Europe. Note that some countries within the species' wintering range did not report any data.



Sources

Albania

Breeding population size: Bino & Xeka pers. obs.
Breeding short-term trend: Bino & Xeka pers. obs.
Breeding long-term trend: Bino pers. obs.
Winter population size: Bino pers. obs.
Winter short-term trend: Bino et al. 2018
Winter long-term trend: Bino et al. 2018

Armenia

Breeding population size: TSE NGO
Breeding short-term trend: TSE (2020) The Atlas of the Breeding Birds in Armenia. In preparation.
Breeding long-term trend: TSE (2020) The Atlas of the Breeding Birds in Armenia. In preparation.

Austria: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: BirdLife Austria, data from the annual Austrian White Stork Survey
Breeding short-term trend: BirdLife Austria, data from the yearly Austrian White Stork Survey
Breeding long-term trend: BirdLife Austria, data from the yearly Austrian White Stork Survey

Azerbaijan

Breeding population size: AOS data base
Breeding short-term trend: AOS data base
Breeding long-term trend: AOS Data Base
Winter population size: AOS data base
Winter short-term trend: AOS Data Base
Winter 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: Samusenko I.E. Results of 20th years monitoring of White Stork <i>Ciconia ciconia</i> in Pripjat river floodplain // "Zoological chtenia": proceeding of Intern. scientific-practical conf. dedicated to the memory of prof. I.K. Lopatin, Grodno, 14-16 March 2013. Grodno, 2013: 265-268. (in Russian)

Belgium: W Europe & North-west Africa/Sub-Saharan Africa

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

Bosnia and Herzegovina

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)

Bulgaria: Central & Eastern Europe/Sub-Saharan Africa

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.; National Art. 12 reporting database 2013-2018; Petrov, Ts. (ed.) 2007. The White Stork (<i>Ciconia ciconia</i>) in Bulgaria, II. Bulgarian Society for the protection of Birds, Conservation Series, Book 12, BSPB, Plovdiv.; BSPB Bird Database; Cheshmedzhiev, S. et al. Белият щъркел в България през 2014 – 2015 г. / The White stork in Bulgaria in 2014 – 2015. (BSPB, 2016).;
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.; National Art. 12 reporting database 2013-2018; Petrov, Ts. (ed.) 2007. The White Stork (<i>Ciconia ciconia</i>) in Bulgaria, II. Bulgarian Society for the protection of Birds, Conservation Series, Book 12, BSPB, Plovdiv.; BSPB Bird Database; Population trend estimate is a comparison for the period 1994/95 - 2004/2005 coinciding with the two international white stork censuses.; Cheshmedzhiev, S. et al. Белият щъркел в България през 2014 – 2015 г. / The White stork in Bulgaria in 2014 – 2015. (BSPB, 2016).;

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Bulgaria: Central & Eastern Europe/Sub-Saharan Africa

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.; Petrov, Ts. (ed.) 2007. The White Stork (<i>Ciconia ciconia</i>) in Bulgaria, II. Bulgarian Society for the protection of Birds, Conservation Series, Book 12, BSPB, Plovdiv.; Petrov, Ts. (ed.) 1997. The White Stork (<i>Ciconia ciconia</i>) in Bulgaria, I. Bulgarian Society for the protection of Birds, Conservation Series, Book 2, BSPB, Plovdiv.; Michev, T., L. Stoyanova. 1986. Breeding Distribution and Numbers of the White Stork (<i>Ciconia ciconia</i> (L., 1758) in Bulgaria. – Ecology (BAS), 18: 17-26.; BSPB Bird Database; Population trend estimate is a comparison between the periods of the national white stork census, the first being in 1961, second in 1979, third in 1984, fourth in 1994/95, fifth in 2004/2005 (the last census). http://bspb.org/monitoring/bg/product-view/2/13.html; Cheshmedzhiev, S. et al. Белият щъркел в България през 2014 – 2015 г. / The White stork in Bulgaria in 2014 – 2015. (BSPB, 2016).;

Croatia: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: Baza podataka MZOE - rezultati monitoringa bijelih roda JU Baza podataka BIOM/fauna.hr Baza podataka Hrvatskog društva za zaštitu ptica i prirode BIOM(2015):White Stork Census in Croatia, 2014-2015. Izvještaj o nacionalnom cenzusu bijelih roda.3 str. Mikuška (2015): Distribution and population status of White Stork in Croatia.(prezentacija - PPTX).
Breeding short-term trend: Mikuška (2015): Distribution and population status of White Stork in Croatia.(prezentacija - PPTX).
Breeding long-term trend: Mikuška (2015): Distribution and population status of White Stork in Croatia.(prezentacija - PPTX).

Czechia: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: Complete white stork count 2014 (ČSO)
Breeding short-term trend: expert opinion (before 2014), data from the yearly white stork counts (ČSO)
Breeding long-term trend: Nyklová-Ondrová et al. 2016: Výsledky 7. mezinárodního sčítání čápa bílého (<i>Ciconia ciconia</i>) v České republice v roce 2014 – dlouhodobý vývoj početnosti, umístění hnízd a reprodukční úspěšnosti. Sylvia 52: 17-33.

Denmark: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: Lange, P., Christophersen, H & Christensen, J.S. 2018. Fugle i Danmark 2017. Årsrapport fra Rapportgruppen. Fugleåret 2017 s. 33-128. Dansk Ornitologisk Forening.
Breeding short-term trend: Nielsen, R.D., Holm, T.E., Clausen, P., Bregnballe, T., Clausen, K.K., Petersen, I.K., Sterup, J., Balsby, T.J.S., Pedersen, C.L., Mikkelsen, P. & Bladt, J. (2019). Fugle 2012-2017. NOVANA. Aarhus Universitet, DCE – Nationalt Center for Miljø og Energi. - Videnskabelig rapport nr. 314. http://dce2.au.dk/pub/SR314.pdf and http://novana.au.dk/fugle/
Breeding long-term trend: Nielsen, R.D., Holm, T.E., Clausen, P., Bregnballe, T., Clausen, K.K., Petersen, I.K., Sterup, J., Balsby, T.J.S., Pedersen, C.L., Mikkelsen, P. & Bladt, J. (2019). Fugle 2012-2017. NOVANA. Aarhus Universitet, DCE – Nationalt Center for Miljø og Energi. - Videnskabelig rapport nr. 314. http://dce2.au.dk/pub/SR314.pdf and http://novana.au.dk/fugle/

Estonia: Central & Eastern Europe/Sub-Saharan Africa

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

France: W Europe & North-west Africa/Sub-Saharan Africa

Breeding population size: Roi T. 2019. Bilan de la nidification de la Cigogne blanche en Aquitaine au printemps 2018 . , réf. n°0057FA 2019 faune-aquitaine.org6 pp. <a cdnfiles1.biolovision.net="" gduc="" grandduc862018complet.pdf"="" href="http://files.biolovision.net/www.faune-aquitaine.org/userfiles/FAPublications/0057-; Cohendoz S. 2019. Bilan de la nidification de la Cigogne blanche en Charente-Maritime 2018. , LPO Charente-Maritime2 pp. ; Dulphy J.-P., Brugerolle T., Guélin F., Merle S., Trompat A. & LPO Auvergne 2018. Annales ornithologiques pour 2016-2017 : suivi des espèces nicheuses rares ou menacées en Auvergne. Le Grand-Duc 86, p. 49-59 https://cdnfiles1.biolovision.net/www.faune-auvergne.org/userfiles/GDUC/GrandDuc862018complet.pdf; Boussiquat E. 2016. Nidification de la Cigogne blanche en Deux-Sèvres. Lirou n°35, Revue du Groupe Ornithologique des Deux-Sèvres. 74-75 https://fr.calameo.com/read/00570244625e8b9840a70; Nature en Occitanie 2019. Suivi de reproduction des Cigognes blanches en Comminges – convention avec RTE. in Rapport d'activité 2018, p. 40 http://naturemp.org/IMG/pdf/-222.pdf; Debout G. 2018. Observatoires GONm de l'Avifaune Normande : bilan synthétique 2018. 8pp. , 8 pp. http://www.gonm.org/public/Telechargements/Etudes/2018_Observatoires-Bilan_GONm.pdf; CLAC du Marais Breton 2018. La Cigogne Blanche en Marais Breton - Bilan et suivi des nids 2018. , Collectif des Amis des Cigognes du Marais Breton, Châteauneuf10 p. ; Les Amis des Marais du Vigueirat 2018. Marais du Vigueirat - Rapport d'activité 2017. , 73 p. http://www.marais-vigueirat.reserves-naturelles.org/medias/RA-Amis-des-Marais-du-Vigueirat-2017.pdf; COGard 2015. Les Obs' Cigogne blanche (<i>Ciconia ciconia</i>). les Echos du COGard N°116, p. 24 http://cogard.org/wp-content/uploads/2015/05/FL_116.pdf; Rousseau E., Clément D., Gilot F., Guilloison T., Oliosio G. & Riols C. 2015. Liste commentée des oiseaux de l'Aude. , LPO Aude128 p. https://cdnfiles1.biolovision.net/www.faune-lr.org/userfiles/Publications/ListecommenteeOiseauxAude2015.pdf; LPO Loire 2018. Rapport d'activité 2017. , 32 p. https://loire.lpo.fr/wp-content/uploads/2018/06/rapport-activite-2017-web.pdf; Colliat-Dangus E. & Abel J. 2015. État des lieux et synthèse des suivis ornithologiques menés en Bourgogne. Première ébauche pour un observatoire régional de l'avifaune. , LPO Côte-d'Or73 p. https://cote-dor.lpo.fr/IMG/pdf/2015_LPO_Rapport%20observatoire.pdf; ACROLA 2019. Bilan du suivi de la Cigogne blanche (<i>Ciconia ciconia</i>) en Loire-Atlantique en 2018. , ACROLA http://www.acrola.fr/cigognes.html
Breeding short-term trend: Groupe Cigognes France 2008. Cigogne blanche - <i>Ciconia ciconia</i>. in Riegel & les coordinateurs-espèce (2008) Les oiseaux nicheurs rares et menacés en France en 2007. Ornithos 15-3., 153-180
Breeding long-term trend: Schierer A. 1991. Aperçu général de la population française et évolution pendant ces 50 dernières années. Actes du colloque International « Les cigognes d'Europe », Metz, 48 p.

Georgia

Breeding population size: EBBA Georgia, prepared by Sabuko-Society for nature conservation, Ilia state university, NGO "psovi".
Breeding long-term trend: Gavashelishvili, A. 1998. The 1996 Census of White Storks in Georgia. BWP Update/Sympos. Proc. Hamburg. (in English); EBBA Georgia.

Germany: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: Monitoring seltener Brutvögel (http://www.dda-web.de/index.php?cat=monitoring&subcat=ga&subsubcat=kontakt)
Breeding short-term trend: Monitoring seltener Brutvögel (http://www.dda-web.de/index.php?cat=monitoring&subcat=ga&subsubcat=kontakt)
Breeding long-term trend: Monitoring seltener Brutvögel (http://www.dda-web.de/index.php?cat=monitoring&subcat=ga&subsubcat=kontakt)

Ciconia ciconia (White Stork)

Germany: W Europe & North-west Africa/Sub-Saharan Africa

Breeding population size: Monitoring seltener Brutvögel (http://www.dda-web.de/index.php?cat=monitoring&subcat=ga&subsubcat=kontakt)
Breeding short-term trend: Monitoring seltener Brutvögel (http://www.dda-web.de/index.php?cat=monitoring&subcat=ga&subsubcat=kontakt)
Breeding long-term trend: Monitoring seltener Brutvögel (http://www.dda-web.de/index.php?cat=monitoring&subcat=ga&subsubcat=kontakt)

Greece: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: 1) BirdLife International (2017). European birds of conservation concern: populations, trends and national responsibilities. Cambridge. UK: BirdLife International. ISBN 978-1-912086-00-9 2) Λεγάκης, Α. & Μαραγκού, Π. (επιμ.). 2009. Το Κόκκινο Βιβλίο των Απειλούμενων Ζώων της Ελλάδας. Ελληνική Ζωολογική Εταιρεία, Αθήνα, 528 σελ. 3) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παρζοζογλου, C. & Barov, B. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού. 4) Πορτόλου, Δ., Μπουρδάκης, Σ., Βλάχος, Χ., Καστρίτης, Θ. & Δημαλέξης, Τ. (επιμ.). 2009. Οι Σημαντικές Περιοχές για τα Πουλιά της Ελλάδας: Περιοχές Προτεραιότητας για τη Διατήρηση της Βιοποικιλότητας. Ελληνική Ορνιθολογική Εταιρεία, Αθήνα. 5) Βλάχος Χ., Μπίρτσας Π., Θωμάϊδης Χ., Χατζηνίκος Ε., Μποντζώρος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπας Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ» Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη.
Breeding short-term trend: 1) BirdLife International (2017). European birds of conservation concern: populations, trends and national responsibilities. Cambridge. UK: BirdLife International. ISBN 978-1-912086-00-9 2) Λεγάκης, Α. & Μαραγκού, Π. (επιμ.). 2009. Το Κόκκινο Βιβλίο των Απειλούμενων Ζώων της Ελλάδας. Ελληνική Ζωολογική Εταιρεία, Αθήνα, 528 σελ. 3) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παρζοζογλου, C. & Barov, B. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού. 4) Πορτόλου, Δ., Μπουρδάκης, Σ., Βλάχος, Χ., Καστρίτης, Θ. & Δημαλέξης, Τ. (επιμ.). 2009. Οι Σημαντικές Περιοχές για τα Πουλιά της Ελλάδας: Περιοχές Προτεραιότητας για τη Διατήρηση της Βιοποικιλότητας. Ελληνική Ορνιθολογική Εταιρεία, Αθήνα. 5) Βλάχος Χ., Μπίρτσας Π., Θωμάϊδης Χ., Χατζηνίκος Ε., Μποντζώρος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπας Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ» Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη. 6) Natura Viewer (http://natura2000.eea.europa.eu/#).
Breeding long-term trend: 1) BirdLife International (2004) Birds in Europe: Population estimates, trends and conservation status. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 12). 2) Λεγάκης, Α. & Μαραγκού, Π. (επιμ.). 2009. Το Κόκκινο Βιβλίο των Απειλούμενων Ζώων της Ελλάδας. Ελληνική Ζωολογική Εταιρεία, Αθήνα, 528 σελ. 3) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παρζοζογλου, C. & Barov, B. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού. 4) Πορτόλου, Δ., Μπουρδάκης, Σ., Βλάχος, Χ., Καστρίτης, Θ. & Δημαλέξης, Τ. (επιμ.). 2009. Οι Σημαντικές Περιοχές για τα Πουλιά της Ελλάδας: Περιοχές Προτεραιότητας για τη Διατήρηση της Βιοποικιλότητας. Ελληνική Ορνιθολογική Εταιρεία, Αθήνα. 5) Βλάχος Χ., Μπίρτσας Π., Θωμάϊδης Χ., Χατζηνίκος Ε., Μποντζώρος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπας Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ» Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη. 6) Natura Viewer (http://natura2000.eea.europa.eu/#).

Hungary: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: Lovász, Péter, Lendvai, Csaba, Nagy, Károly (2016): Results of the 2014 national White Stork (<i>Ciconia ciconia</i>) census in Hungary. Aquila 122-123, p. 47-55. Haraszthy L. (szerk.) (2014): Natura 2000 fajok és élőhelyek Magyarországon. Pro Vértés Közalapítvány, Csákvár. p. 530. VM Környezetügyért Felelős Államtitkárság (2013): Fajmegőrzési tervek – Fehér gólya (<i>Ciconia ciconia</i>), p. 12-13. Consultation with national experts. National park directorates' databases http://map.mme.hu/maps/map2 http://golya.mme.hu/index.php?p=db
Breeding short-term trend: Lovász, Péter, Lendvai, Csaba, Nagy, Károly (2016): Results of the 2014 national White Stork (<i>Ciconia ciconia</i>) census in Hungary. Aquila 122-123, p. 47-55. Haraszthy L. (szerk.) (2014): Natura 2000 fajok és élőhelyek Magyarországon. Pro Vértés Közalapítvány, Csákvár. p. 530. VM Környezetügyért Felelős Államtitkárság (2013): Fajmegőrzési tervek – Fehér gólya (<i>Ciconia ciconia</i>), p. 12-13. Consultation with national experts. National park directorates' databases http://map.mme.hu/maps/map2 http://golya.mme.hu/index.php?p=db
Breeding long-term trend: Lovász, Péter, Lendvai, Csaba, Nagy, Károly (2016): Results of the 2014 national White Stork (<i>Ciconia ciconia</i>) census in Hungary. Aquila 122-123, p. 47-55. Haraszthy L. (szerk.) (2014): Natura 2000 fajok és élőhelyek Magyarországon. Pro Vértés Közalapítvány, Csákvár. p. 530. Haraszthy, L. (szerk.) (1998): Magyarország madarai. Mezőgazda Kiadó, Budapest. 441 p. VM Környezetügyért Felelős Államtitkárság (2013): Fajmegőrzési tervek – Fehér gólya (<i>Ciconia ciconia</i>), p. 12-13. Consultation with national experts. National park directorates' databases http://map.mme.hu/maps/map2 http://golya.mme.hu/index.php?p=db

Italy: W Europe & North-west Africa/Sub-Saharan Africa

Breeding population size: Brichetti P., Fracasso G., 2018. The Birds of Italy. Vol. I. Anatidae-Alcidae. Ed. Belvedere, Latina (Italy), "historia naturae" (6), pp. 512.
Breeding short-term trend: Brichetti P., Fracasso G., 2018. The Birds of Italy. Vol. I. Anatidae-Alcidae. Ed. Belvedere, Latina (Italy), "historia naturae" (6), pp. 512.
Breeding long-term trend: Brichetti P., Meschini E., 1993. Stima delle popolazioni di uccelli nidificanti. In Meschini E., Frugis S., 1993. Atlante degli uccelli nidificanti in Italia. Suppl. Ric. Biol. Selvaggina, 20, 1-345.

Kosovo

Breeding population size: Qenan Maxhuni
Breeding short-term trend: Qenan Maxhuni
Breeding long-term trend: Puzovic, S. et al. (2004): Birds of Serbia and Montenegro – Size of nesting populations. I trends: 1990-2002. <i>Ciconia</i> 12

Latvia: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: Expert: Mara Janaus, ornlab@latnet.lv
Breeding short-term trend: Expert: Mara Janaus, ornlab@latnet.lv
Breeding long-term trend: Priednieks J., Strazds M., Strazds A., Petrins A. 1989. Latvian Breeding Bird Atlas 1980-1984. Riga: Zinatne Unpublished data for European Breeding Bird Atlas (2013-2017); Expert: Andris Dekants, andris.dekants@lob.lv

Ciconia ciconia (White Stork)

Lithuania: Central & Eastern Europe/Sub-Saharan Africa

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) Ministry of Environment of the Republic of Lithuania. 2017-2018. Lietuvos saugomų gyvūnų, augalų ir grybų vertinimo pagal IUCN kategorijas ir rūšių aprašymų parengimo paslaugos (Protected species of animals, plants and mushrooms IUCN status estimation and descriptions in Lithuania (Agreement No VPS-2017-16-AARP))
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) Ministry of Environment of the Republic of Lithuania. 2017-2018. Lietuvos saugomų gyvūnų, augalų ir grybų vertinimo pagal IUCN kategorijas ir rūšių aprašymų parengimo paslaugos (Protected species of animals, plants and mushrooms IUCN status estimation and descriptions in Lithuania (Agreement No VPS-2017-16-AARP))
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) Ministry of Environment of the Republic of Lithuania. 2017-2018. Lietuvos saugomų gyvūnų, augalų ir grybų vertinimo pagal IUCN kategorijas ir rūšių aprašymų parengimo paslaugos (Protected species of animals, plants and mushrooms IUCN status estimation and descriptions in Lithuania (Agreement No VPS-2017-16-AARP))

Luxembourg: W Europe & North-west Africa/Sub-Saharan Africa

Breeding population size: Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. Natur&mwelt Luxembourg. ISBN: 978-2-919920-01-3; Ornitho.lu (2018): online database natur&mwelt asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg
Breeding short-term trend: Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. Natur&mwelt Luxembourg. ISBN: 978-2-919920-01-3; Ornitho.lu (2018): online database natur&mwelt asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg
Breeding long-term trend: Heidt C., A. Konter, P. Lorgé & J. Weiss (2002): Ornithological observations in Luxembourg 1985-1997. Regulus Wissenschaftliche Berichte Nr.19; Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. Natur&mwelt Luxembourg. ISBN: 978-2-919920-01-3; Ornitho.lu (2018): online database natur&mwelt asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg

North Macedonia

Breeding population size: unpublished data from the European Breeding Bird Atlas 2
Breeding short-term trend: unpublished data from the European Breeding Bird Atlas 2
Breeding long-term trend: unpublished data of the Macedonian Ecological Society

Moldova

Breeding population size: Moldova's contribution for the second European Breeding Bird Atlas (EBBA2)
Breeding short-term trend: SPPN expert opinion (sppn.moldova@gmail.com)
Breeding long-term trend: SPPN expert opinion (sppn.moldova@gmail.com)

Montenegro

Breeding population size: CZIP (2018): Unpub.data
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Netherlands: W Europe & North-west Africa/Sub-Saharan Africa

Breeding population size: Sovon NEM (Sovon, CBS and provinces) and Bird atlas (Sovon 2018)
Breeding short-term trend: NEM (Sovon, RWS, CBS, provinces)
Breeding long-term trend: Sovon

Poland: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: State Environmental Monitoring / Chief Inspectorate of Environmental Protection (survey: MFGP – Flagship Species Survey)
Breeding short-term trend: State Environmental Monitoring / Chief Inspectorate of Environmental Protection (survey: MFGP)
Breeding long-term trend: Jakubiec Z. 1985. Populacja bociąka białego <i>Ciconia ciconia</i> L. w Polsce. Studia Naturae A 28: 1-262; Tomiałojć L., Stawarczyk T. 2003. Awifauna Polski: rozmieszczenie, liczebność i zmiany. PTPP "pro Natura"; Tucker G.M., Heath M.F. 1994. Birds in Europe:

Portugal: W Europe & North-west Africa/Sub-Saharan Africa

Breeding population size: CEMPA (2014). VI Censo Nacional de cegonha-branca (<i>Ciconia ciconia</i>) - 2014.
Breeding short-term trend: Alonso, H., Coelho, R., Costa, J., Gouveia, C., Leitão, D., Machado, R., & Teodósio, J. 2019. Relatório do Censo de Aves Comuns 2004-2018. Sociedade Portuguesa para o Estudo das Aves, Lisboa (relatório não publicado).
Breeding long-term trend: Alonso, H., Coelho, R., Costa, J., Gouveia, C., Leitão, D., Machado, R., & Teodósio, J. 2019. Relatório do Censo de Aves Comuns 2004-2018. Sociedade Portuguesa para o Estudo das Aves, Lisboa (relatório não publicado); Relatório Nacional Directiva Aves (2008-2012).

Romania: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: BerzeleRomaniei (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database
Breeding short-term trend: Romanian Common Bird Monitoring Programme, Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database

Ciconia ciconia (White Stork)

Romania: Central & Eastern Europe/Sub-Saharan Africa

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: Shamina 2019; Melnikov 2017; Gozhko & Lokhman 2017
Breeding long-term trend: Cherevichko et al. 1999; Grishchenko & Galchenkov 2011

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: 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: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: Coordinatory group for reporting 2019. Fulín M.: Informačný spravodaj Bocian 1/2018, ZO SZOPK Bocian, Moldava n/B, 2018. www.bocian.sk Karaska D., Trnka A., Krištín A., Ridzoň J.: Chránené vtáacie územia Slovenska. ŠOP SR Banská Bystrica, 2015.
Breeding short-term trend: Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018. Fulín M.: Informačný spravodaj Bocian biely 1/2018, ZO SZOPK Bocian, Moldava n/B, 2018. www.bociany.sk
Breeding long-term trend: Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018. Fulín M.: Informačný spravodaj Bocian biely 1/2018, ZO SZOPK Bocian, Moldava n/B, 2018. www.bociany.sk

Slovenia: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: Denac, D. (2013): Bela štoklja <i>Ciconia ciconia</i> . Str. 56-66. V: Denac, K., L. Božič, T. Mihelič, D. Denac, P. Kmecl, J. Figelj & D. Bordjan: Monitoring populacij izbranih vrst ptic - popisi gnezdk 2012 in 2013. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS-BirdLife Slovenia, Ljubljana. http://ptice.si/2014/wp-content/uploads/2014/03/201311_denac_monitoring_iba_2012_2013.pdf Denac, D. (2014): Bela štoklja <i>Ciconia ciconia</i> . Str. 54-60. V: Denac, K., L. Božič, T. Mihelič, P. Kmecl, D. Denac, D. Bordjan, T. Jančar & J. Figelj: Monitoring populacij izbranih vrst ptic - popisi gnezdk 2014. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2014/09/20141110_denac_porocilo_monitoring_iba_2014.pdf Denac, D. (2015): Bela štoklja <i>Ciconia ciconia</i> . Str. 40-44. V: Denac, K., T. Mihelič, P. Kmecl, D. Denac, D. Bordjan, J. Figelj, L. Božič & T. Jančar: Monitoring populacij izbranih vrst ptic - popisi gnezdk 2015. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2015/11/20151125_porocilo_monitoring_2015_final.pdf Denac, D. (2016): Bela štoklja <i>Ciconia ciconia</i> . Str. 52-56. V: Denac, K., P. Kmecl, T. Mihelič, L. Božič, T. Jančar, D. Denac, D. Bordjan & J. Figelj: Monitoring populacij izbranih ciljnih vrst ptic na območjih Natura 2000 v letu 2016. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2016/12/2016_27_12_porocilo_monitoring_2016_splet.pdf Denac D. (2017): Bela štoklja <i>Ciconia ciconia</i> . Str. 34-39. V: Denac K., Kmecl P., Mihelič T., Jančar T., Denac D., Bordjan D.: Monitoring populacij izbranih ciljnih vrst ptic na območjih Natura 2000 v letu 2017. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2017/01/2017_3_1_Porocilo_monitoring_2017_corr.pdf Denac D. (2018): Bela štoklja <i>Ciconia ciconia</i> . Str. 53-58. Denac K., Jančar T., Božič L., Mihelič T., Koce U., Kmecl P., Kljun I., Denac D., Bordjan D. (2018): Monitoring populacij izbranih ciljnih vrst ptic na območjih Natura 2000 v letu 2018 in sinteza monitoringa 2016-2018. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2018/08/2018512_Porocilo_monitoring_ptice_2018.pdf Expert contact detail: damijan.denac@dopps.si
Breeding short-term trend: Denac, D. (2013): Bela štoklja <i>Ciconia ciconia</i> . Str. 56-66. V: Denac, K., L. Božič, T. Mihelič, D. Denac, P. Kmecl, J. Figelj & D. Bordjan: Monitoring populacij izbranih vrst ptic - popisi gnezdk 2012 in 2013. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS-BirdLife Slovenia, Ljubljana. http://ptice.si/2014/wp-content/uploads/2014/03/201311_denac_monitoring_iba_2012_2013.pdf Denac, D. (2014): Bela štoklja <i>Ciconia ciconia</i> . Str. 54-60. V: Denac, K., L. Božič, T. Mihelič, P. Kmecl, D. Denac, D. Bordjan, T. Jančar & J. Figelj: Monitoring populacij izbranih vrst ptic - popisi gnezdk 2014. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2014/09/20141110_denac_porocilo_monitoring_iba_2014.pdf Denac, D. (2015): Bela štoklja <i>Ciconia ciconia</i> . Str. 40-44. V: Denac, K., T. Mihelič, P. Kmecl, D. Denac, D. Bordjan, J. Figelj, L. Božič & T. Jančar: Monitoring populacij izbranih vrst ptic - popisi gnezdk 2015. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2015/11/20151125_porocilo_monitoring_2015_final.pdf Denac, D. (2016): Bela štoklja <i>Ciconia ciconia</i> . Str. 52-56. V: Denac, K., P. Kmecl, T. Mihelič, L. Božič, T. Jančar, D. Denac, D. Bordjan & J. Figelj: Monitoring populacij izbranih ciljnih vrst ptic na območjih Natura 2000 v letu 2016. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2016/12/2016_27_12_porocilo_monitoring_2016_splet.pdf Denac D. (2017): Bela štoklja <i>Ciconia ciconia</i> . Str. 34-39. V: Denac K., Kmecl P., Mihelič T., Jančar T., Denac D., Bordjan D.: Monitoring populacij izbranih ciljnih vrst ptic na območjih Natura 2000 v letu 2017. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2017/01/2017_3_1_Porocilo_monitoring_2017_corr.pdf Denac D. (2018): Bela štoklja <i>Ciconia ciconia</i> . Str. 53-58. Denac K., Jančar T., Božič L., Mihelič T., Koce U., Kmecl P., Kljun I., Denac D., Bordjan D. (2018): Monitoring populacij izbranih ciljnih vrst ptic na območjih Natura 2000 v letu 2018 in sinteza monitoringa 2016-2018. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2018/08/2018512_Porocilo_monitoring_ptice_2018.pdf Expert contact detail: damijan.denac@dopps.si

Ciconia ciconia (White Stork)

Slovenia: Central & Eastern Europe/Sub-Saharan Africa

Breeding long-term trend: Jež, M. (1987): Bela štoklja (*Ciconia ciconia* L.) v Sloveniji v letu 1979. *Varstvo narave* 13: 79-91. Denac, D. (2001): Gnezditvena biologija, fenologija in razširjenost bele štoklje *Ciconia ciconia* v Sloveniji. *Acrocephalus* 22: 89-103. <https://www.dlib.si/stream/URN:NBN:SI:DOC-C4NLUQKB/745bb3dc-a96a-47f4-9977-61b868322488/PDF> Denac, D. (2010): Population dynamics of the White stork *Ciconia ciconia* in Slovenia between 1999 and 2010. *Acrocephalus* 31: 145/146 (101-114). <http://www.dlib.si/stream/URN:NBN:SI:DOC-O9TMTJE7/5591f580-f75a-4823-bc44-8d85ac408dd5/PDF> Denac, D. (2013): Slovenia. Str. 29-30. V: Kai-Michael, T., L. Lachmann: Results of the 6th International White Stork Census 2004/2005. NABU, Berlin. https://bergenhusen.nabu.de/imperia/md/nabu/images/nabu/einrichtungen/bergenhusen/slovenia_zensus_2004.pdf Denac, D. (2013): Bela štoklja *Ciconia ciconia*. Str. 56-66. V: Denac, K., L. Božič, T. Mihelič, D. Denac, P. Kmecl, J. Figelj & D. Bordjan: Monitoring populacij izbranih vrst ptic - popisi gnezdičk 2012 in 2013. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS-BirdLife Slovenia, Ljubljana. http://ptice.si/2014/wp-content/uploads/2014/03/201311_denac_monitoring_iba_2012_2013.pdf Denac, D. (2014): Bela štoklja *Ciconia ciconia*. Str. 54-60. V: Denac, K., L. Božič, T. Mihelič, P. Kmecl, D. Denac, D. Bordjan, T. Jančar & J. Figelj: Monitoring populacij izbranih vrst ptic - popisi gnezdičk 2014. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2014/09/20141110_denac_porocilo_monitoring_iba_2014.pdf Denac, D. (2015): Bela štoklja *Ciconia ciconia*. Str. 40-44. V: Denac, K., T. Mihelič, P. Kmecl, D. Denac, D. Bordjan, J. Figelj, L. Božič & T. Jančar: Monitoring populacij izbranih vrst ptic - popisi gnezdičk 2015. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2015/11/20151125_porocilo_monitoring_2015_final.pdf Denac, D. (2016): Bela štoklja *Ciconia ciconia*. Str. 52-56. V: Denac, K., P. Kmecl, T. Mihelič, L. Božič, T. Jančar, D. Denac, D. Bordjan & J. Figelj: Monitoring populacij izbranih ciljnih vrst ptic na območjih Natura 2000 v letu 2016. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2016/12/2016_27_12_porocilo_monitoring_2016_splet.pdf Denac, D. (2017): Bela štoklja *Ciconia ciconia*. Str. 34-39. V: Denac, K., Kmecl, P., Mihelič, T., Jančar, T., Denac, D., Bordjan, D.: Monitoring populacij izbranih ciljnih vrst ptic na območjih Natura 2000 v letu 2017. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2017/01/2017_3_1_Porocilo_monitoring_2017_corr.pdf Denac, D. (2018): Bela štoklja *Ciconia ciconia*. Str. 53-58. Denac, K., Jančar, T., Božič, L., Mihelič, T., Koce, U., Kmecl, P., Kljun, I., Denac, D., Bordjan, D. (2018): Monitoring populacij izbranih ciljnih vrst ptic na območjih Natura 2000 v letu 2018 in sinteza monitoringa 2016-2018. Poročilo. Naročnik: Ministrstvo za kmetijstvo, gozdarstvo in prehrano. DOPPS, Ljubljana. http://ptice.si/2014/wp-content/uploads/2018/08/2018512_Porocilo_monitoring_ptice_2018.pdf

Spain: W Europe & North-west Africa/Sub-Saharan Africa

Breeding population size: Información proporcionada por las Comunidades Autónomas. 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/ieet_aves_atlas.aspx) Molina, B. & Del Moral, J.C. (2005). La Cigüeña Blanca en España. VI Censo Internacional (2004). SEO/BirdLife. Madrid. 235pp. (https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx)

Breeding short-term trend: Database of the 'Atlas de las aves reproductoras de España'. Updated version 2011 with data from SEO/BirdLife's monitoring programmes. In: Inventario Español de Especies Terrestres, Inventario Español del Patrimonio Natural y de la Biodiversidad. Ministerio de Agricultura, Alimentación y Medio Ambiente (2013). (https://www.miteco.gob.es/fr/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet_aves_sist_seg_tendencia_comunes_esp.aspx) Información proporcionada por las Comunidades Autónomas. 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/ieet_aves_atlas.aspx) Molina, B. & Del Moral, J.C. (2005). La Cigüeña Blanca en España. VI Censo Internacional (2004). SEO/BirdLife. Madrid. 235pp. SEO/BirdLife (2013). Programas de seguimiento de SEO/BirdLife en 2012. SEO/BirdLife. Madrid. 35 pp. SEO/BirdLife (2018). Censos de aves acuáticas. (<http://www.acuaticas.org/WebForms/ConsultaContenidos/Paginas/RealMapasDistAbunEspecie.aspx>) SEO/BirdLife (2019). Programas de seguimiento y grupos de trabajo de SEO/BirdLife 2018. SEO/BirdLife. Madrid. (<https://doi.org/10.31170/0073>)

Breeding long-term trend: Database of the 'Atlas de las aves reproductoras de España'. Updated version 2011 with data from SEO/BirdLife's monitoring programmes. In: Inventario Español de Especies Terrestres, Inventario Español del Patrimonio Natural y de la Biodiversidad. Ministerio de Agricultura, Alimentación y Medio Ambiente (2013). (https://www.miteco.gob.es/fr/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet_aves_sist_seg_tendencia_comunes_esp.aspx) Información proporcionada por las Comunidades Autónomas. Molina, B. & Del Moral, J.C. (2005). La Cigüeña Blanca en España. VI Censo Internacional (2004). SEO/BirdLife. Madrid. 235pp. SEO/BirdLife (2018). Censos de aves acuáticas. (<http://www.acuaticas.org/WebForms/ConsultaContenidos/Paginas/RealMapasDistAbunEspecie.aspx>) SEO/BirdLife (2019). Programas de seguimiento y grupos de trabajo de SEO/BirdLife 2018. SEO/BirdLife. Madrid. (<https://doi.org/10.31170/0073>)

Sweden: Central & Eastern Europe/Sub-Saharan Africa

Breeding population size: Ottosson, U., Ottvall, R., Elmqvist, 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 stork, Project White stork

Breeding long-term trend: Projekt stork, Project White stork

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: <https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/>

Breeding long-term trend: <https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/>

Turkey

Breeding population size: Ömer Döndüren Pers. Comm. (2019). Naturschutzbund.2013. White Stork populations across the World, Results of the 6th International White Stork Census 2004-2005, Nabu, Germany

Ukraine

Breeding population size: 1. Грищенко В.Н., Яблоновская-Грищенко Е.Д. (2016): Успешность размножения и динамика численности белого аиста (*Ciconia ciconia*) в Украине в 2014–2016 гг. - Беркут. 25 (2): 109-129. 2. Грищенко В.М., Яблоновська-Грищенко Є.Д. (2017): Чисельність і розподіл гнізд білого лелеки (*Ciconia ciconia*) в центральній частині Лісостепу України у 2014–2017 рр. - Беркут. 26 (1): 11-42. 3. Грищенко В.Н., Яблоновская-Грищенко Е.Д. (2017): Популяція білого аиста (*Ciconia ciconia*) в Україні в 2017 г.: продовження кризи. - Беркут. 26 (2): 112-124. 4. Vitaly Grishchenko, unpublished data.

Ciconia ciconia (White Stork)

Ukraine

Breeding short-term trend: 1. Грищенко В.Н., Яблоновская-Грищенко Е.Д. (2013): Состояние популяции белого аиста (*Ciconia ciconia*) в Украине в 2013 г. - Беркут. 22 (2): 90-103. 2. Grishchenko V. (2010): Monitoring of the White Stork (*Ciconia ciconia*) number dynamics in Ukraine in 1994-2009. - Bird Numbers 2010. "Monitoring, indicators and targets". 18th Conference of the European Bird Census Council. Book of abstracts. 22-26 March 2010, Cáceres, Extremadura, Spain. 110-111. 3. Грищенко В.Н., Яблоновская-Грищенко Е.Д. (2010): Состояние популяции белого аиста в Украине в 2010 г. - Беркут. 19 (1-2): 81-92. 4. Грищенко В.Н., Яблоновская-Грищенко Е.Д. (2011): Состояние популяции белого аиста в Украине в 2011 г. - Беркут. 20 (1-2): 37-51. 5. Грищенко В.Н., Яблоновская-Грищенко Е.Д. (2011): Распространение белого аиста в Крыму и некоторые аспекты расселения вида. - Беркут. 20 (1-2): 52-64. 6. Грищенко В.Н., Яблоновская-Грищенко Е.Д. (2012): Состояние популяции белого аиста (*Ciconia ciconia*) в Украине в 2012 г. - Беркут. 21 (1-2): 50-63. 7. Грищенко В.Н., Яблоновская-Грищенко Е.Д. (2013): О границе ареала белого аиста (*Ciconia ciconia*) в Херсонской и Запорожской областях. - Беркут. 22 (1): 29-43. 8. Грищенко В.Н., Яблоновская-Грищенко Е.Д. (2013): Состояние популяции белого аиста (*Ciconia ciconia*) в Украине в 2013 г. - Беркут. 22 (2): 90-103. 9. Грищенко В.М., Яблоновська-Грищенко Є.Д. (2017): Чисельність і розподіл гнізд білого лелеки (*Ciconia ciconia*) в центральній частині Лісостепу України у 2014–2017 рр. - Беркут. 26 (1): 11-42.

Breeding long-term trend: 1. Серебряков В.В., Грищенко В.Н., Грищенко И.А. (1990): Динамика численности белого аиста на Украине с 1931 по 1987 год. - Аисты: распротр., экология, охрана. Минск: Навука і тэхніка. 147-151. 2. Грищенко В.Н., Серебряков В.В., Борейко В.Е., Грищенко И.А. (1992): Современное состояние популяции белого аиста (*Ciconia ciconia*) на Украине. - Рус. орн. журн. 1 (2): 147-156. 3. Grischtschenko V. (1996): Bestandsentwicklung des Weißstorchs in der Ukraine. - Jubiläumsband Weißstorchs - Jubilee Edition White Stork. 43-46. 4. Grishchenko V. (1999): Die Situation des Weißstorchs *Ciconia ciconia* in der Ukraine. - Weißstorch im Aufwind? - White Storks on the up? - Proc. Intern. Symp. on the White Stork, Hamburg 1996. Bonn: NABU. 289-303. 5. Grishchenko V.N. (1999): Monitoring of the White Stork *Ciconia ciconia* population in Ukraine: results of first six years. - Bird Numbers 1998. Vogelwelt. 120 (Suppl.): 317-322. 6. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 7. Грищенко В.Н. (2004): Динамика численности белого аиста в Украине в 1994–2003 гг. - Беркут. 13 (1): 38-61. 8. Grishchenko V. (2010): Monitoring of the White Stork (*Ciconia ciconia*) number dynamics in Ukraine in 1994-2009. - Bird Numbers 2010. "Monitoring, indicators and targets". 18th Conference of the European Bird Census Council. Book of abstracts. 22-26 March 2010, Cáceres, Extremadura, Spain. 110-111. 9. Grishchenko V. (2013): Numbers of the White Stork *Ciconia ciconia* in Ukraine in 2004-2005. - White Stork populations across the world. Results of the 6th International White Stork Census 2004/2005. Supplement on CD: Ukraine.pdf. NABU. 1-5. 10. Грищенко В.М., Яблоновська-Грищенко Є.Д. (2017): Чисельність і розподіл гнізд білого лелеки (*Ciconia ciconia*) в центральній частині Лісостепу України у 2014–2017 рр. - Беркут. 26 (1): 11-42.

Bibliography

Baldi, A., Batary, B. and Erdos, S. 2005. Effects of grazing intensity on bird assemblages and populations of Hungarian grasslands. *Agriculture Ecosystems & Environment* 108: 251-263.

Bird, J. P., Martin, R., Akçakaya, H. R., Gilroy, J., Burfield, I. J., Garnett, S. G., Symes, A., Taylor, J., Sekercioglu, Ç. H. and Butchart, S. H. M. 2020. Generation lengths of the world's birds and their implications for extinction risk. *Conservation Biology* 34(5): 1252-1261. DOI: 10.1111/cobi.13486.

Brown, L.H., Urban, E.K. and Newman, K. 1982. *The Birds of Africa, Volume I*. Academic Press, London.

Delany, S. and Scott, D. 2006. Waterbird population estimates. Wetlands International, Wageningen, The Netherlands.

Elliott, A., E. F. J. Garcia, and P. F. D. Boesman. 2020. White Stork (*Ciconia ciconia*), version 1.0. In: (J. del Hoyo, A. Elliott, J. Sargatal, D. A. Christie, and E. de Juana) (eds), *Birds of the World*, Cornell Lab of Ornithology, Ithaca, NY, USA.

Gordo, O. and Sanz, J.J. 2006. Climate change and bird phenology: a long-term study in the Iberian Peninsula. *Global Change Biology* 12: 1993-2004.

Goriup, P.; Schulz, H. 1990. Conservation management of the White Stork: an international opportunity. International Council for Bird Preservation, Cambridge, U.K.

Hancock, J.A., Kushlan, J.A. and Kahl, M.P. 1992. *Storks, ibises and spoonbills of the world*. Academic Press, London.

Hockey, P. A. R., Dean, W. R. J. & Ryan, P. G. 2005. *Roberts Birds of Southern Africa*. Trustees of the John Voelcker Bird Book Fund, Cape Town, South Africa.

Johst, K.; Brandl, R.; Pfeifer, R. 2001. Foraging in a patchy and dynamic landscape: human land use and the White Stork. *Ecological Applications* 11(1): 60-69.

Snow, D.W. and Perrins, C.M. 1998. *The Birds of the Western Palearctic, Volume 1: Non-Passerines*. Oxford University Press, Oxford.

del Hoyo, J., Elliot, A. & Sargatal, J. (ed.). 1992. *Handbook of the Birds of the World, Vol. 1: Ostrich to Ducks*. Lynx Edicions, Barcelona, Spain.

van den Bossche, W. 2002. Eastern European white stork populations: migration studies and elaboration of conservation measures. *BfN - Skripten (Bundesamt für Naturschutz)* 66: Unpaginated.