

## ***Vanellus vanellus* (Northern Lapwing)**

### **European Red List of Birds**

### **Supplementary Material**

The European Union (EU28) Red List assessments were based principally on the official data reported by EU Member States to the European Commission under Article 12 of the Birds Directive in 2019-20. For the European Red List assessments, similar data were sourced from BirdLife Partners and other collaborating experts in other European countries and territories. For more information, see BirdLife International (2021).

#### **Contents**

Reported national population sizes and trends  
Trend maps of reported national population data  
Sources of reported national population data  
Species factsheet bibliography

#### **Recommended citation**

BirdLife International (2021) European Red List of Birds. Luxembourg: Publications Office of the European Union.

#### **Further information**

<http://datazone.birdlife.org/info/euroredlist>  
<http://www.birdlife.org/europe-and-central-asia/european-red-list-birds-0>  
<http://www.iucnredlist.org/regions/europe>  
<http://ec.europa.eu/environment/nature/conservation/species/redlist/>

#### **Data requests and feedback**

To request access to these data in electronic format, provide new information, correct any errors or provide feedback, please email [science@birdlife.org](mailto:science@birdlife.org).

*Vanellus vanellus* (Northern Lapwing)

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

Country (or territory) <sup>2</sup>	Population estimate				Short-term population trend <sup>5</sup>				Long-term population trend <sup>5</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	
Albania	0	<1	2007-2018	complete	-		2007-2018	complete	-	-100	1980-2018	expert	
Armenia	150–240	<1	2013-2018	complete	-	-15 to -10	2007-2018	complete	-	-30 to -10	2003-2018	partial	
Austria	3800–6900	<1	2013-2018	complete	0		2007-2018	partial	-	-60 to -30	1981-2018	expert	
Azerbaijan	500–5000	<1	1996-2019	expert	+		2013-2019	expert	?		1980-2019	expert	
Belarus	250000–320000	15	2010-2018	partial	0	-20 to 20	2012-2019	expert	0	-20 to 20	1980-2019	expert	
Belgium	10000–17000	<1	2013-2018	partial	-	-76 to -67	2008-2018	complete	?	-33 to 13	1973-2018	partial	
Bosnia & HG	500–800	<1	2015-2018	complete	?	-10 to 10	2007-2018	complete	?		1980-2018	expert	
Bulgaria	800–1500	<1	2005-2018	partial	?		2000-2018	partial	-	-20 to -10	1980-2018	partial	
Croatia	2000	<1	2013-2018	expert	?		2007-2018	deficient	?		1980-2018	deficient	
Czechia	7000–10000	<1	2014-2017	complete	?		2007-2018	complete	-		1982-2018	complete	
Denmark	17100–17200	<1	2017	partial	-	-48 to -29	2006-2017	complete	-	-66 to -56	1980-2017	complete	
DK: Faroe Is	2–5	<1	2014	expert	-		2001-2014		-		1980-2014		
Estonia	40000–50000	2	2013-2017	expert	+	64 to 88	2007-2018	expert	+	316 to 560	1983-2018	expert	
Finland	135000–191000	8	2013-2018	complete	+	45 to 95	2007-2018	complete	+	29 to 116	1980-2018	complete	
France	12000–18000	<1	2010-2011	partial	?		2007-2018	deficient	-	-20	1983-2011	partial	
Georgia	34–340	<1	2013-2017	partial	?			deficient	?				
Germany	42000–67000	3	2016-2016	complete	-	-50 to -31	2004-2016	complete	-		1980-2016	expert	
Greece	50–100	<1	2015	partial	0		2007-2018	partial	?		1980-2018	deficient	
Hungary	10000–15000	<1	2014-2018	expert	-	-76 to -54	2007-2018	expert	-	-85 to -80	1980-2018	expert	
Rep. Ireland	470–620	<1	2013-2018	complete	-	-76 to -69	2008-2018	partial	-	-95 to -94	1980-2018	partial	
Italy	5500–7000	<1	2013-2018	expert	+	10 to 35	2000-2014	partial	+	600 to 820	1993-2018	expert	
Kosovo	300–400	<1	2007-2019	partial	+		2007-2018	partial	+		1990-2018	partial	
Latvia	135000–188000	8	2016-2016	complete	0	-43 to 15	2005-2018	complete	0	-38 to 89	1995-2018	complete	
Lithuania	9600–12000	<1	2008-2012	partial	-		2013-2018	partial	-	-30 to -20	1980-2018	partial	
Luxembourg	5–10	<1	2013-2018	complete	-	-70 to -50	2007-2018	complete	-	-100 to -95	1980-2018	complete	
North Macedonia	50–150	<1	2014-2019	expert	0		2007-2018	expert	?		1980-2019		
Moldova	1000–1200	<1	2014-2017	partial	+		2007-2018	partial	0		1990-2018	expert	
Netherlands	110000–160000	7	2013-2015	complete	-	-35 to -29	2006-2017	complete	-	-59 to -52	1984-2017	complete	
Norway	7500–10000	<1	2013-2018	expert	?		2013-2018	partial	-	-95 to -75	1980-2018	complete	
Poland	64000–87000	4	2013-2018	complete	-	-73 to -58	2007-2018	complete	?		1980-2018	deficient	
Portugal	1–10	<1	2013-2018	partial	?		2007-2018	deficient	?		1980-2018	deficient	
Romania	75000–116000	5	2013-2015	complete	-	-30 to -8	2008-2018	complete	?		1980-2018	deficient	

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Country (or territory) <sup>2</sup>	Population estimate				Short-term population trend <sup>5</sup>				Long-term population trend <sup>5</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	
Russia	500000–800000	33	2008-2018	partial	-	-15 to -10	2008-2018	partial	-	-29 to -20	1980-2018	partial	
Serbia	2300–2500	<1	2013-2018	partial	0	0	2007-2018	complete	-	-29 to -10	1980-2018	complete	
Slovakia	2000–4000	<1	2013-2018	expert	-	-30 to -10	2007-2018	expert	-	-50 to -30	1980-2018	expert	
Slovenia	500–700	<1	2018-2018	complete	-		2008-2018	complete	-		1980-2018	expert	
Spain	1300–1500	<1	2013-2018	partial	0		2007-2018	complete	-		1980-2018	expert	
Sweden	34000–54000	2	2013-2018	partial	-	-46 to -30	2007-2018	partial	-	-48 to -24	1980-2018	partial	
Switzerland	140–180	<1	2013–2016	complete	+	33 to 200	2007-2018	complete	-	-65 to -29	1990-2018	complete	
Turkey	10000–20000	<1	2002-2012	partial	?		2008-2019	deficient	?		1980-2013	deficient	
Ukraine	5000–10000	<1	2015-2019	complete	-	-30 to -20	2009-2019	partial	-	-60 to -50	1980-2019	partial	
United Kingdom	97400–97500	5	2016	partial	-	-34	2004-2016	complete	-	-67	1980-2016	complete	
EU28	815000–1130000	50											
<b>Europe</b>	<b>1590000–2300000</b>	<b>100</b>											

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

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

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

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

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

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

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

*Vanellus vanellus* (Northern Lapwing)

**Table 2.** Reported national wintering population sizes and trends in Europe<sup>1</sup>. 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) <sup>2</sup>	Population estimate				Short-term population trend <sup>5</sup>				Long-term population trend <sup>5</sup>				Subspecific population (where relevant)
	Size (individuals) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	
Albania	760–18000	<1	2007-2018	complete	-	-85 to 0	2007-2018	complete	0	-4 to 0	1980-2018	complete	
Armenia	100–1000	<1	2013-2018	partial	F		2007-2018		?		2003-2018	deficient	
Azerbaijan	1000–10000	<1	1996-2019	partial	+		2010-2019	partial	?		1980-2019	expert	
Belgium	34000–58000	2	2013-2018	complete	?	-53 to 62	2007-2018	complete	-	-65 to -5	2000-2018	complete	
Bosnia & HG	300–500	<1	2015-2018	complete	?		2007-2018	deficient	?		1980-2018	deficient	
Bulgaria	5–320	<1	2013-2018	partial	F		1999-2018	partial	F		1980-2018	partial	
Croatia	800–1500	<1	2013-2018	expert	?		2007-2018	deficient	?		1980-2018	deficient	
Cyprus	140–800	<1	2013-2018	partial	-	-43 to -13	2007-2018	partial	-	-40 to -10	1980-2018	expert	
Czechia	0–4	<1	2015-2019	complete	?		2008-2019	complete	?		1980-2019	complete	
Denmark	390–400	<1	2016-2016	complete	F		2006-2016	complete	F		1980-2016	complete	
DK: Faroe Is	0–20	<1	1992		?				?				
France	1060000–2050000	54	2009-2013	partial	-	-40 to -20	2006-2013	deficient	-	-55 to -40	2000-2017	partial	
Germany	40000–60000	2	2011-2016	partial	F		2003-2016	expert	F		1980-2016	expert	
Greece	2700–12600	<1	2013-2018	complete	-		2007-2018	partial	?		1980-2018	deficient	
Rep. Ireland	69800–69900	2	2011-2016	partial	-		2004-2016	partial	-		1987-2016	partial	
Italy	27400–48000	1	2013-2015	partial	-	-50 to -25	2009-2015	partial	+	60 to 190	1991-2015	partial	
Kosovo		<1	2019		?				?				
North Macedonia	1500–3000	<1	2013-2018	expert	0		2010-2019	expert	0		1988-2018	expert	
Malta	30–50	<1	2017-2018	expert	-		2008-2018	expert	-		1980-2018	expert	
Moldova	10–50	<1	2018-2019	partial	F		2007-2018	partial	0		1990-2018	expert	
Montenegro	500–900	<1	2013-2018	expert	0		2007-2018	expert	?				
Netherlands	198000–394000	10	2013-2017	complete	0	-25 to 67	2006-2017	complete	+	4 to 210	1981-2017	complete	
Portugal	0	<1	2013-2018	deficient	+		2007-2018	partial	?		1980-2018	deficient	
Serbia	10–2000	<1	2013-2018	complete	F		2013-2018	complete	+	80 to 100	1980-2018	partial	
Slovenia	0–5	<1	2013-2018	complete	-		2007-2018	complete	-	-100 to -98	1980-2018	expert	
Spain	132000–166000	5	2007-2018	partial	-	-72 to 0	2007-2018	complete	-		1980-2018	partial	
Turkey	4300–7700	<1	2013-2019	complete	?		2008-2019	deficient	?		1980-2019	deficient	
Ukraine	20–120	<1	2014-2017	partial	?		2007-2018	partial	F		1980-2018	partial	
United Kingdom	634000–635000	23	2006	complete	-	-22	2005-2016	complete	+	223	1980-2016	complete	
EU28	2210000–3500000	99											
<b>Europe</b>	<b>2210000–3540000</b>	<b>100</b>											

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

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

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

## Trend maps

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

### KEY

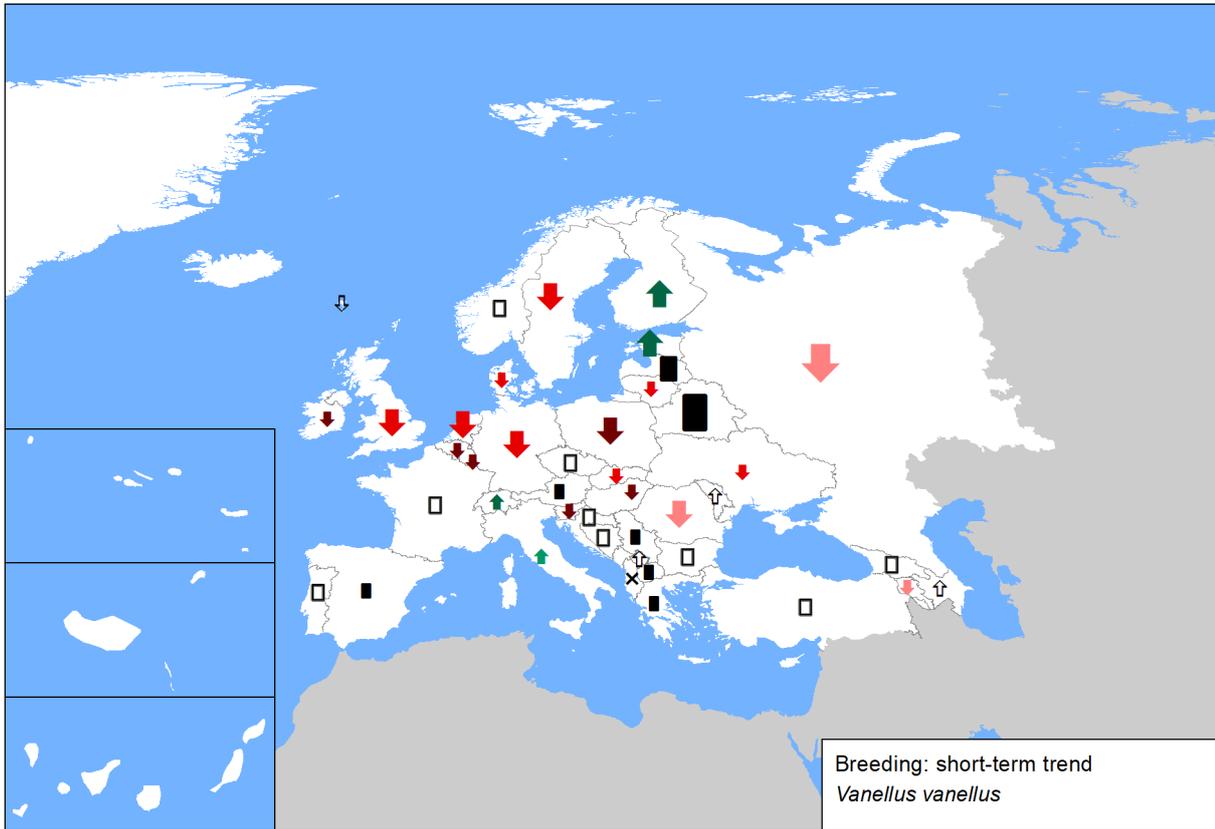
- |   |                                 |
|---|---------------------------------|
| ↑ Large increase (≥50%)                 | ↓ Large decrease (≥50%)         |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)    |
| ↑ Small increase (<20%)                 | ↓ Small decrease (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

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

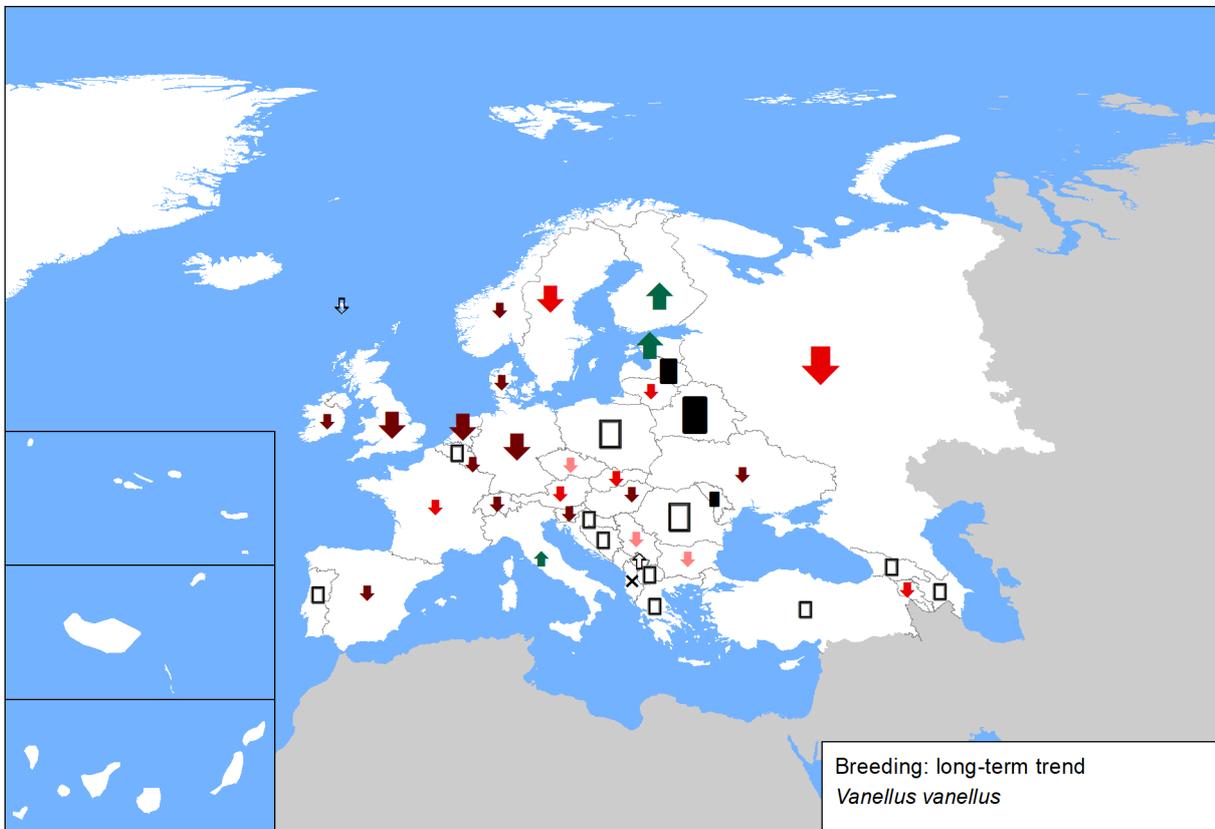
- ↑ Large: ≥10% of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small: <1% of the European population

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

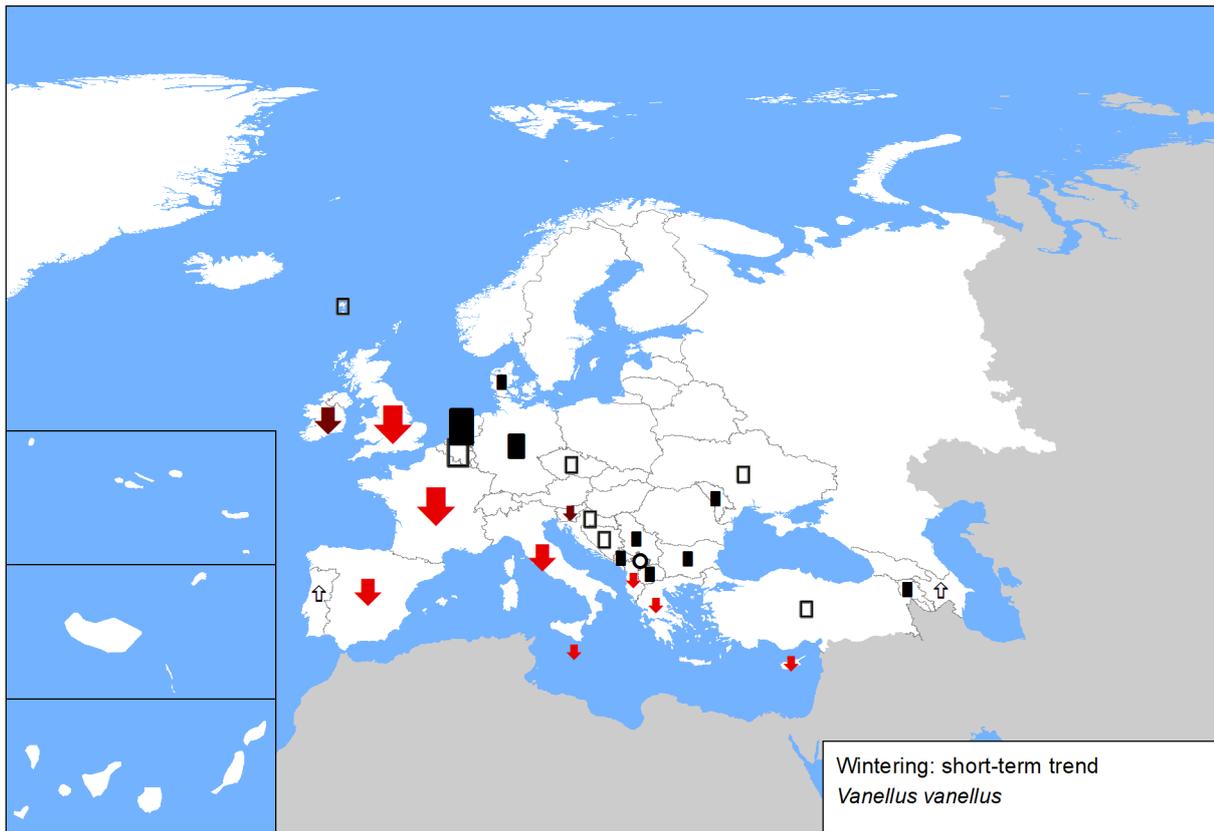
**Figure 1.** Breeding population sizes and short-term trends across Europe.



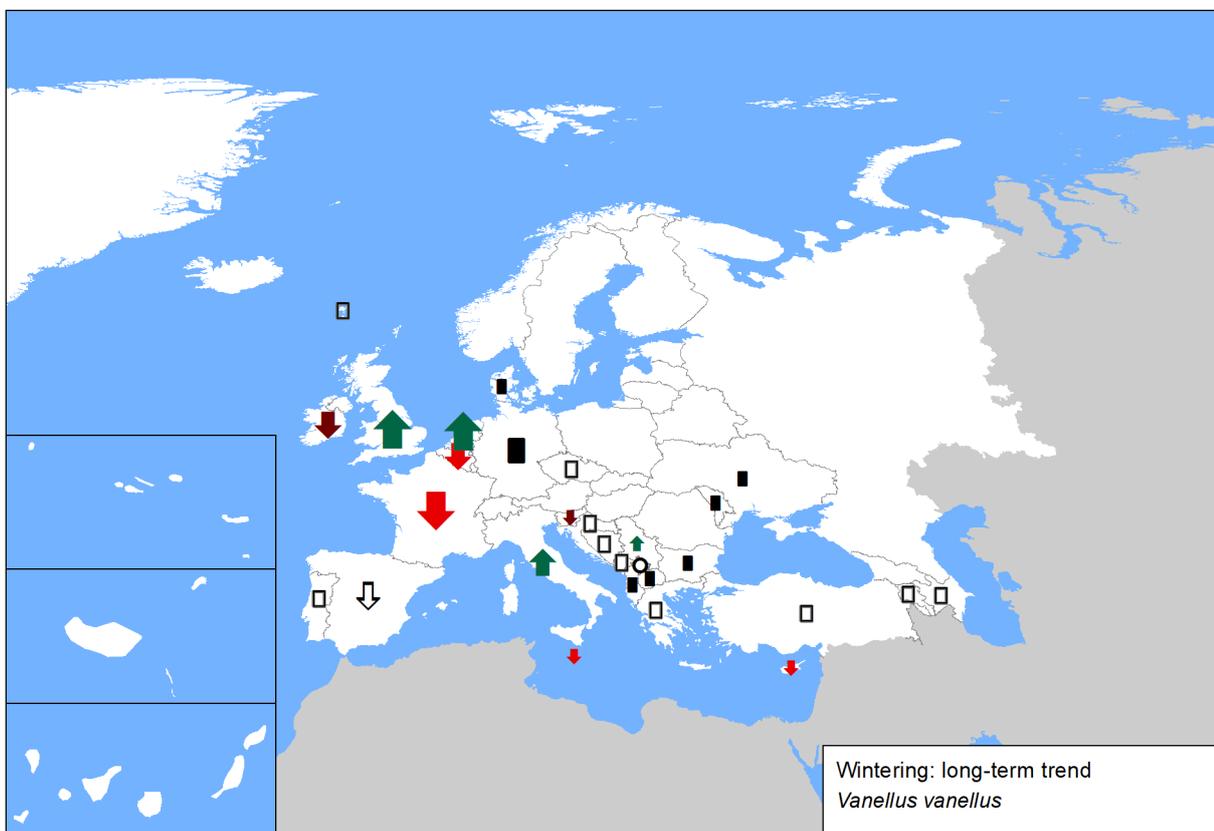
**Figure 2.** Breeding population sizes and long-term trends across Europe.



**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.



*Vanellus vanellus* (Northern Lapwing)

## Sources

### Albania

<b>Breeding population size:</b> Bino & Xeka 2020 in EBBA 2
<b>Breeding short-term trend:</b> Bino & Xeka pers. obs.
<b>Breeding long-term trend:</b> Bino pers. obs.
<b>Winter population size:</b> Bino pers. obs.
<b>Winter short-term trend:</b> Bino et al. 2018
<b>Winter long-term trend:</b> Bino et al. 2018

### Armenia

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

### Austria

<b>Breeding population size:</b> BirdLife Austria, unpublished data from <a href="http://www.ornitho.at">www.ornitho.at</a>
<b>Breeding short-term trend:</b> BirdLife Austria, unpublished data from <a href="http://www.ornitho.at">www.ornitho.at</a> ; BirdLife Austria, unpublished archive data
<b>Breeding long-term trend:</b> BirdLife Austria, unpublished archive data; Dvorak, Ranner & Berg 1993 (Atlas of Austrian Breeding Birds)

### Azerbaijan

<b>Breeding population size:</b> BirdLife International 2004
<b>Breeding short-term trend:</b> AOS data base
<b>Breeding long-term trend:</b> AOS Data Base
<b>Winter population size:</b> AOS data base
<b>Winter short-term trend:</b> AOS Data Base
<b>Winter long-term trend:</b> AOS Data Base

### Belarus

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

### Belgium

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

### Bosnia and Herzegovina

<b>Breeding population size:</b> Based on data for EBBA2
<b>Breeding short-term trend:</b> more individual articles e.g published in magazine Bilten mreže posmatrača ptica u Bosni i Hercegovini-see <a href="https://ptice.ba/bs/category/bilteni_/">https://ptice.ba/bs/category/bilteni_/</a> , individual reports (e.g. for EBBA2, projects etc)
<b>Breeding long-term trend:</b> individual reports, reports for EBBA2
<b>Winter population size:</b> based on IWC reports-all reports published in magazine Bilten mreže posmatrača ptica ( <a href="http://www.ptice.ba">www.ptice.ba</a> )
<b>Winter short-term trend:</b> based on IWC reports-all reports published in magazine Bilten mreže posmatrača ptica ( <a href="http://www.ptice.ba">www.ptice.ba</a> )
<b>Winter long-term trend:</b> There are no qualitative data before 2005 to make estimates

## *Vanellus vanellus* (Northern Lapwing)

### Bulgaria

<b>Breeding population size:</b> expert opinion; National Art. 12 reporting database 2013-2018;
<b>Breeding short-term trend:</b> Iankov P. (ed.) 2007. Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 250-251; National Art. 12 reporting database 2013-2018;
<b>Breeding long-term trend:</b> Iankov P. (ed.) 2007. Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 250-251;
<b>Winter population size:</b> Wetlands International (2019): Submitted IWC data for Bulgaria for period 2013-2018.; National Art. 12 reporting database 2013-2018; National workshop of experts, Sofia 27-29.8.2019
<b>Winter short-term trend:</b> Kostadinova I., S. Dereliev. 2001. Results from the Mid-Winter Counts of Waterbirds in Bulgaria for the period 1997-2001. BSPB Conservation Series. Book 3, BSPB, Sofia, BG, 96 pp.; National Art. 12 reporting database 2013-2018; Michev T., Profirov L. 2003. Mid-Winter Numbers of Waterbirds in Bulgaria (1977-2001). Pensoft, Sofia, 160 pp.; Dimitrov, M., T. Michev, L. Profirov, K. Nyagolov. 2005. Waterbirds of Bourgas Wetlands: Results and Evaluation of the Monthly Waterbirds Monitoring 1996-2002. Bulgarian Biodiversity Foundation and Publ. House Pensoft, Sofia, 160 pp.;
<b>Winter long-term trend:</b> Michev T., Profirov L. 2003. Mid-Winter Numbers of Waterbirds in Bulgaria (1977-2001). Pensoft, Sofia, 160 pp.

### Croatia

<b>Breeding population size:</b> Dumbović Mazal V., Pintar V., Zadravec M. (2019): Prvo izvješće o brojnosti i rasprostranjenosti ptica u Hrvatskoj sukladno odredbama Direktive o pticama.
<b>Breeding short-term trend:</b> no data available
<b>Breeding long-term trend:</b> no data available
<b>Winter population size:</b> Dumbović Mazal V., Pintar V., Zadravec M. (2019): Prvo izvješće o brojnosti i rasprostranjenosti ptica u Hrvatskoj sukladno odredbama Direktive o pticama.
<b>Winter short-term trend:</b> no data available
<b>Winter long-term trend:</b> no data available

### Cyprus

<b>Winter population size:</b> Monthly waterbird counts by BirdLife Cyprus and Game & Fauna Service, as published in BirdLife Cyprus monthly checklists and also by the Game & Fauna Service; Analysis of recent BirdLife Cyprus bird sightings records reported in the society's annual reports. Game & Fauna Service, SPAs Management Plans, 2016 (Ministry of the Interior)
<b>Winter short-term trend:</b> Monthly waterbird counts by BirdLife Cyprus and Game & Fauna Service, as published in BirdLife Cyprus monthly checklists and also by the Game & Fauna Service; Analysis of recent BirdLife Cyprus bird sightings records reported in the society's annual reports
<b>Winter long-term trend:</b> More recent records (2000 onwards) as above, pre-2000 records based on birdwatching records as reported in BirdLife Cyprus annual reports

### Czechia

<b>Breeding population size:</b> Šťastný et Bejček in prep. - Atlas hnízdního rozšíření ptáků ČR 2014-2017
<b>Breeding short-term trend:</b> ČSO (unpubl.): Common Bird Monitoring Programme
<b>Breeding long-term trend:</b> ČSO (unpubl.): Common Bird Monitoring Programme
<b>Winter population size:</b> Musil P. et Musilová Z.
<b>Winter short-term trend:</b> Musil P. et Musilová Z.
<b>Winter long-term trend:</b> Musil P. et Musilová Z.

### Denmark

<b>Breeding population size:</b> Charlotte M. Moshøj, Daniel Palm Eskildsen, Michael Fink Jørgensen & Thomas Vikstrøm, (2018): Overvågning af de almindelige fuglearter i Danmark 1975-2017 & Mandrup, E. 1997, Hvor mange fugle yngler i Danmark, Dansk Ornitologisk Tidsskrift, nr 3, 1997
<b>Breeding short-term trend:</b> Charlotte M. Moshøj, Daniel Palm Eskildsen, Michael Fink Jørgensen & Thomas Vikstrøm, (2018): Overvågning af de almindelige fuglearter i Danmark 1975-2017
<b>Breeding long-term trend:</b> Charlotte M. Moshøj, Daniel Palm Eskildsen, Michael Fink Jørgensen & Thomas Vikstrøm, (2018): Overvågning af de almindelige fuglearter i Danmark 1975-2017
<b>Winter population size:</b> Meltofte, H. (1993). Vadefugletrækket gennem Danmark. Dansk Orn. Foren. Tidsskr. 87: 1-180. 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. <a href="http://dce2.au.dk/pub/SR314.pdf">http://dce2.au.dk/pub/SR314.pdf</a> and <a href="http://novana.au.dk/fugle/">http://novana.au.dk/fugle/</a>
<b>Winter short-term trend:</b> Kleefstra R., Hornman M., Bregnballe T., Frikke J., Günther K., Hälterlein B., Körber P., Ludwig J., Scheiffarth G. (2019). Trends of Migratory and Wintering Waterbirds in the Wadden Sea 1987/1988 - 2016/2017. Wadden Sea Ecosystem No. 39. Common Wadden Sea Secretariat, Joint Monitoring Group of Migratory Birds in the Wadden Sea, Wilhelmshaven, Germany. 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. <a href="http://dce2.au.dk/pub/SR314.pdf">http://dce2.au.dk/pub/SR314.pdf</a> and <a href="http://novana.au.dk/fugle/">http://novana.au.dk/fugle/</a>
<b>Winter long-term trend:</b> Kleefstra R., Hornman M., Bregnballe T., Frikke J., Günther K., Hälterlein B., Körber P., Ludwig J., Scheiffarth G. (2019). Trends of Migratory and Wintering Waterbirds in the Wadden Sea 1987/1988 - 2016/2017. Wadden Sea Ecosystem No. 39. Common Wadden Sea Secretariat, Joint Monitoring Group of Migratory Birds in the Wadden Sea, Wilhelmshaven, Germany. 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. <a href="http://dce2.au.dk/pub/SR314.pdf">http://dce2.au.dk/pub/SR314.pdf</a> and <a href="http://novana.au.dk/fugle/">http://novana.au.dk/fugle/</a>

### DK: Faroe Is

<b>Breeding population size:</b> Hammer et al. (2014) Færøsk trækfugleatlas [Faroe bird migration atlas]. Fróðskapur / Faroe University Press, Tórshavn.
<b>Breeding short-term trend:</b> Hammer et al. (2014)
<b>Breeding long-term trend:</b> BirdLife International (2004); Hammer et al. (2014).

## *Vanellus vanellus* (Northern Lapwing)

### DK: Faroe Is

**Winter population size:** BirdLife International 2004

### Estonia

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

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

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

### Finland

**Breeding population size:** Lehtikoinen, A., Below, A., Jukarainen, A., Laaksonen, T., Lehtiniemi, T., Mikkola-Roos, M., Pessa, J., Rajasärkkä, A., Rusanen, P., Sirkkiä, P., Tiainen, J. & Valkama, J. 2019: Suomen lintujen pesimäkantojen koot. – Linnut-vuosikirja 2018: 38-45.

**Breeding short-term trend:** Bird monitoring schemes of the Finnish Museum of Natural History, University of Helsinki.

**Breeding long-term trend:** Bird monitoring schemes of the Finnish Museum of Natural History, University of Helsinki.

### France

**Breeding population size:** Caupenne M 2015. Le vanneau huppé. In Issa N & Muller Y Atlas des oiseaux de France métropolitaine: Nidification et hivernage. Volume 1: Des anatidés aux alcidés, Delachaux et Niestlé 526-528

**Breeding short-term trend:** Onkelinx, T., Devos, K., & Quataert, P. 2017. Working with population totals in the presence of missing data comparing imputation methods in terms of bias and precision. *Journal of Ornithology*, 158(2), 603-615 ; Onkelinx, T., Devos, K., Jansen, I., Van Calster, H., & Quataert, P. 2017. Reply to the comment on 'Working with population totals in the presence of missing data comparing imputation methods in terms of bias and precision' by Bogaart et al. *Journal of Ornithology*, 158(3), 891-893

### Georgia

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

### Germany

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

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

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

**Winter population size:** Dachverband Deutscher Avifaunisten e.V. (<http://www.dda-web.de>)

**Winter short-term trend:** Dachverband Deutscher Avifaunisten e.V. (<http://www.dda-web.de>)

**Winter long-term trend:** Dachverband Deutscher Avifaunisten e.V. (<http://www.dda-web.de>)

### Greece

**Breeding population size:** 1) BirdLife International (2004) *Birds in Europe: Population estimates, trends and conservation status*. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 12). 2) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παραιοζογλου, C. & Baron, 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. 3) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μπονιζώρλος Β., Μπραζιιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπαλης 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 (2004) *Birds in Europe: Population estimates, trends and conservation status*. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 12). 2) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παραιοζογλου, C. & Baron, 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. 3) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μπονιζώρλος Β., Μπραζιιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπαλης 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 long-term trend:** no data available

**Winter population size:** 1) Midwinter Counts Database (1967 - 2019), Hellenic Ornithological Society 2) BirdLife International (2017). *European birds of conservation concern: populations, trends and national responsibilities*. Cambridge, UK: BirdLife International. ISBN 978-1-912086-00-9, 3) Portolou, D., Bourdakis, S., Vlachos, C., Kastritis, T., and Dimalexis, T. (eds.) 2009. *Important Bird Areas of Greece: Priority sites for conservation*. Hellenic Ornithological Society. Athens.

**Winter short-term trend:** Chandrinou et al (2015) 1) Midwinter Counts Database (1967 - 2019), Hellenic Ornithological Society 2) BirdLife International (2017). *European birds of conservation concern: populations, trends and national responsibilities*. Cambridge, UK: BirdLife International. ISBN 978-1-912086-00-9, 3) Portolou, D., Bourdakis, S., Vlachos, C., Kastritis, T., and Dimalexis, T. (eds.) 2009. *Important Bird Areas of Greece: Priority sites for conservation*. Hellenic Ornithological Society. Athens.

**Winter long-term trend:** No data available

### Hungary

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

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

## *Vanellus vanellus* (Northern Lapwing)

### Hungary

**Breeding long-term trend:** Magyar G., Hadarics T., Waliczky Z., Schmidt A., Nagy T. & Bankovics A. (1998): Magyarország madarainak névjegyzéke. Madártani Intézet, Budapest, 64 p. BirdLife International (2004) Birds in Europe: population estimates, trends and conservation status. Cambridge, UK: BirdLife International. (BirdLife Conservation Series No.12.), 116 p. Ecsedi Z. (szerk.) (2004): A Hortobágy madárvilága. Hortobágy Természetvédelmi Egyesület, Winter Fair, Balmazújváros - Szeged. 2004. 288-289 p. MME Nomenclator Bizottság (2008): Magyarország madarainak névjegyzéke. Nomenclator avium Hungariae. Magyar Madártani és Természetvédelmi Egyesület, Budapest. 111-112 p. KEHOP-4.3.0-15-2016-00001 project results, unpublished. National park directorates' databases <http://map.mme.hu/maps/map2>

### Republic of Ireland

**Breeding population size:** A combination of unpublished data/reports from the National Parks and Wildlife Service (NPWS) and BirdWatch Ireland, plus expert opinion for a minority of sites. Full details with NPWS.

**Breeding short-term trend:** Lauder and Donagh (2008) estimated 2,000 pairs on expert opinion and available data from a selection of key sites. Compared this to latest population as per Section 2. Lauder, C. & A. Donagh 2008. Breeding Waders in Ireland 2008: A Review and Recommendations for Future Action. Unpublished report to the National Parks and Wildlife Service, Ireland.

**Breeding long-term trend:** Partridge, J.K. & K.W. Smith. (1992). Breeding wader populations in Northern Ireland, 1985-87. Irish Birds 4: 497-518. Gibbons, D.W., J.B. Reid & R.A. Chapman. (1993). The New Atlas of Breeding Birds in Britain and Ireland: 1988-1991. T & A.D. Poyser, London, UK.

**Winter population size:** Burke, B., Lewis, L. J., Fitzgerald, N., Frost, T., Austin, G. & Tierney, T. D. (2018) Estimates of waterbird numbers wintering in Ireland, 2011/12 – 2015/16. Irish Birds 11, 1-12.

**Winter short-term trend:** Lewis, L. J., Burke, B., Fitzgerald, N., Tierney, T. D. & Kelly, S. (2019) Irish Wetland Bird Survey: Waterbird Status and Distribution 2009/10-2015/16. Irish Wildlife Manuals, No. 106. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland. Population estimates on which these trends are based, though consistent in terms of data collection and statistical analysis, are likely to be underestimates of the true population numbers due to the relatively poor I-WeBS coverage of some of the areas that this species is distributed over.

**Winter long-term trend:** Lewis, L. J., Burke, B., Fitzgerald, N., Tierney, T. D. & Kelly, S. (2019) Irish Wetland Bird Survey: Waterbird Status and Distribution 2009/10-2015/16. Irish Wildlife Manuals, No. 106. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland.

### Italy

**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:** Extrapolated data by the average annual trend, from: Rete Rurale Nazionale & LIPU (2015). Uccelli comuni in Italia. Aggiornamento degli andamenti di popolazione e del FBI per la Rete Rurale Nazionale dal 2000 al 2014. LIPU, 16 pp.

**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.

**Winter population size:** ISPRA-IWC Database

**Winter short-term trend:** ISPRA-IWC Database - Zenatello M., Baccetti N., Borghesi F., 2014. Risultati dei censimenti degli uccelli acquatici svernanti in Italia. Distribuzione, stima e trend delle popolazioni nel 2001-2010. ISPRA, Serie Rapporti, 206/2014, pp: 24-28.

**Winter long-term trend:** ISPRA-IWC Database; Baccetti N, Dall'Antonia P, Magagnoli P, Melega L, Serra L, Soldatini C, Zenatello M 2002. Risultati dei censimenti degli uccelli acquatici svernanti in Italia: distribuzione, stima e trend delle popolazioni nel 1991-2000. Biol. Cons. Fauna 111: 19-20.

### Kosovo

**Breeding population size:** Qenan Maxhuni

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

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

### Latvia

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

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

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

### Lithuania

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

## *Vanellus vanellus* (Northern Lapwing)

### Lithuania

**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. Lutute, 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

**Breeding population size:** Biver G. (2009): Der Kiebitz *Vanellus vanellus* in Luxemburg 2008. *Regulus Wissenschaftliche Berichte*, 24: 22-32; Biver G. (2009): Bestände der Vögel des Offenlandes europaweit rückgängig... und in Luxemburg? *Regulus* 4/2009: 14-16.; Biver, G. (2013): Plan d'action Vanneau huppé - Kiebitz *Vanellus vanellus*. Centrale ornithologique & Ministère du Développement durable et des Infrastructures.; Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. *Natur&ëmwelt Luxembourg*. ISBN: 978-2-919920-01-3 ; Ornitho.lu (2018): online database natur&ëmwelt asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg

**Breeding short-term trend:** Biver G. (2009): Der Kiebitz *Vanellus vanellus* in Luxemburg 2008. *Regulus Wissenschaftliche Berichte*, 24: 22-32; Biver G. (2009): Bestände der Vögel des Offenlandes europaweit rückgängig... und in Luxemburg? *Regulus* 4/2009: 14-16.; Biver, G. (2013): Plan d'action Vanneau huppé - Kiebitz *Vanellus vanellus*. Centrale ornithologique & Ministère du Développement durable et des Infrastructures.; Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. *Natur&ëmwelt Luxembourg*. ISBN: 978-2-919920-01-3 ; Ornitho.lu (2018): online database natur&ëmwelt asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg LUXOR (2018): natur&ëmwelt – Bird-database, Luxembourg

**Breeding long-term trend:** Melchior E., E. Mentgen, R. Peltzer, R. Schmitt, J. Weiss (1987): Atlas der Brutvögel Luxemburgs. Lëtzebuurger Natur- a Vulleschutzliga. Kremer-Müller & Cie, Foetz, Luxembourg Streicher, R. (2000): Der Kiebitz *Vanellus vanellus* in Luxemburg. *RWB* 18: 1-13.; LUXOR (2018): natur&ëmwelt – Bird-database, Luxembourg Biver G. (2009): Der Kiebitz *Vanellus vanellus* in Luxemburg 2008. *Regulus Wissenschaftliche Berichte*, 24: 22-32; Biver G. (2009): Bestände der Vögel des Offenlandes europaweit rückgängig... und in Luxemburg? *Regulus* 4/2009: 14-16.; Biver, G. (2013): Plan d'action Vanneau huppé - Kiebitz *Vanellus vanellus*. Centrale ornithologique & Ministère du Développement durable et des Infrastructures.; Lorgé P., E. Melchior (2016): Die Vögel Luxemburgs. *Natur&ëmwelt Luxembourg*. ISBN: 978-2-919920-01-3 ; Ornitho.lu (2018): online database natur&ëmwelt asbl & Dachverband Deutscher Avifaunisten (DDA) e.V.; Luxembourg Recorder (2018): database Musée national d'histoire naturelle; Luxembourg LUXOR (2018): natur&ëmwelt – Bird-database, Luxembourg

### North Macedonia

**Breeding population size:** unpublished data from the European Breeding Bird Atlas 2

**Breeding short-term trend:** unpublished data from the European Breeding Bird Atlas 2

**Winter population size:** unpublished IWC data of the Macedonian Ecological Society

**Winter short-term trend:** unpublished IWC data of the Macedonian Ecological Society

**Winter long-term trend:** Micevski, B. (1991). Faunistical analysis and structure of Dojran Lake winter ornithofauna. *God. zb., Biol.* 43–44: 65–73; Micevski, B. (1999). Winter census of the waterfowl on the Macedonian part of Ohrid Lake in January 1998 (with structural, dietary and evaluation analyses. In: Special issues of Macedonian Ecological Society. pp. 313–323. MES.; Micevski, B. (1992). Structural and faunistical characteristics of the Prespa Lake winter ornithofauna. *God. zb., Biol.* 45: 51–55; Micevski, B., Schneider, M. (1997). Winter census of waterfowl in Macedonian part of Prespa Lake in January 1997 (with structural, dietary and evaluation analyses). In: Towards Integrated Conservation and Sustainable Development of Transboundary Macro and Micro Prespa Lakes pp. 160–164. Towards Integrated Conservation and Sustainable Development of Transboundary Macro and Micro Prespa Lakes. Preservation and Protection of Natural Environment in Albania, Korcha, Albania.; Micevski, B. (1996). Ohrid Lake winter ornithofauna (Faunistical and Structural Characteristics). *God. Zb., Biol.* 49: 85–93; Fremuth, W., Bino, T., Bego, F., Jorgo, G., Micevski, B., Anastasovski, V., Tzvetkov, T., Hristov, I., Schneider-Jacoby, M., Shumka, S. (2000). Four years of simultaneous wintering waterbird census at the Ohrid and Prespa Lakes 1997-2000. In: Grupche, Lj. & Kungulovski, Gj. (eds.). Proceedings of the International Symposium 'Sustainable development of Prespa Region' pp. 28–38. Macedonian Ecological Society; Catsadorakis, G., Aleks, P., Avramoski, O., Bino, T., Bojadzi, A., Brajanoski, Z., Fremuth, W., Kazoglou, Y., Koutseri, I., Logotheti, A., Malakou, M., Nikolaou, H., Nikolaou, L., Putilin, K., Shumka, S., Uzunova, D., Velevski, M. (2013). Waterbirds wintering at the Prespa lakes as revealed by simultaneous counts in the three adjoining littoral states. *Macedonian Journal of Ecology and Environment* 15(1): 23–31; unpublished IWC data of the Macedonian Ecological Society

### Malta

**Winter population size:** BirdLife Malta (Unpublished data)

**Winter short-term trend:** BirdLife International (2017) European birds of conservation concern: populations, trends and national responsibilities Cambridge, UK: BirdLife International Pan-European Common Bird Monitoring Scheme (PECBMS) (2018) Trends of common birds in Europe, [https://pecbms.info/trends\\_2018/](https://pecbms.info/trends_2018/)

**Winter long-term trend:** BirdLife International (2017) European birds of conservation concern: populations, trends and national responsibilities Cambridge, UK: BirdLife International Pan-European Common Bird Monitoring Scheme (PECBMS) (2018) Trends of common birds in Europe, [https://pecbms.info/trends\\_2018/](https://pecbms.info/trends_2018/)

### 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)

**Winter population size:** International Waterbird Census

**Winter short-term trend:** SPPN expert opinion (sppn.moldova@gmail.com)

**Winter long-term trend:** SPPN expert opinion (sppn.moldova@gmail.com)

### Montenegro

**Winter population size:** IWC reports (2013-2018): Dubak, Vešović, N., Jovičević, M., Vizi O., Vizi, A.

### Netherlands

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

## *Vanellus vanellus* (Northern Lapwing)

### Netherlands

<b>Breeding short-term trend:</b> NEM (Sovon, RWS, CBS, provinces)
<b>Breeding long-term trend:</b> NEM (Sovon, RWS, CBS, provinces)
<b>Winter population size:</b> NEM waterbird monitoring scheme (Sovon, RWS, CBS, provinces)
<b>Winter short-term trend:</b> NEM waterbird monitoring scheme (Sovon, RWS, CBS, provinces)
<b>Winter long-term trend:</b> NEM waterbird monitoring scheme (Sovon, RWS, CBS, provinces)

### Norway

<b>Breeding population size:</b> Shimmings P. & Øien, I.J. 2015. Bestandsestimer og trender for norske hekkefugler. NOF-rapport 2015-2.
<b>Breeding short-term trend:</b> Terrestrial monitoring programme - extensive (TOV-e)
<b>Breeding long-term trend:</b> (a) Heggøy, O. & Øien, I.J. 2014. Vipa går en usikker framtid i møte. Vår Fuglefauna 37: 114-127. (b) BirdLife Norway - various regional monitoring projects.

### Poland

<b>Breeding population size:</b> State Environmental Monitoring / Chief Inspectorate of Environmental Protection (survey: MPPL – Common Bird Survey)
<b>Breeding short-term trend:</b> State Environmental Monitoring / Chief Inspectorate of Environmental Protection (survey: MPPL)
<b>Breeding long-term trend:</b> Chief Inspectorate of Environmental Protection & Polish Society for the Protection of Birds (OTOP) / BirdLife Poland

### Portugal

<b>Breeding population size:</b> eBird (2019). eBird: An online database of bird distribution and abundance [web application]. eBird, Ithaca, New York. Available: <a href="http://www.ebird.org/portugal/home">http://www.ebird.org/portugal/home</a> . (Accessed: October 22, 2018).
<b>Winter short-term trend:</b> Leitão, D. (coord.) 2019. CANAN – Contagens de Aves no Natal e no Ano Novo - 2018/2019. Relatório não publicado. Sociedade Portuguesa para o Estudo das Aves. Lisboa.

### Romania

<b>Breeding population size:</b> Romanian Common Bird Monitoring Programme, Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database
<b>Breeding short-term trend:</b> Romanian Common Bird Monitoring Programme, Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database
<b>Breeding long-term trend:</b> Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database

### Russia

<b>Breeding population size:</b> Voltzit & Kalyakin 2013-2019; Database of the project on Atlas of breeding birds of European Russia
<b>Breeding short-term trend:</b> Mischenko et al. 2019; Sarychev unpublished. vssar@yandex.ru; Belik unpublished. vpbelik@mail.ru
<b>Breeding long-term trend:</b> Khohlova & Artemiev 2017; Kumanin 2017; Mischenko & Sukhanova 2016; Sarychev unpublished. vssar@yandex.ru; Belik et al. 2003; Grishanov 2019

### Serbia

<b>Breeding population size:</b> 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.
<b>Breeding short-term trend:</b> 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.
<b>Breeding long-term trend:</b> 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.
<b>Winter population size:</b> IWC database
<b>Winter short-term trend:</b> IWC database
<b>Winter long-term trend:</b> IWC database; Bioras database <a href="http://www.bioras.petnica.rs/home.php">http://www.bioras.petnica.rs/home.php</a>

### Slovakia

<b>Breeding population size:</b> Coordinatory group for reporting 2019. Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.
<b>Breeding short-term trend:</b> Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018.
<b>Breeding long-term trend:</b> Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018.

### Slovenia

<b>Breeding population size:</b> Mihelič T., Kmecl P., Denac K., Koce U., Vrezec A., Denac D. (eds.) (2019): Atlas ptic Slovenije. Popis gnezdičk 2002–2017. (The atlas of birds of Slovenia. The census of breeding birds 2002-2017.) – DOPPS, Ljubljana. Kmecl P. & Šumrada T. (2018): Monitoring splošno razširjenih vrst ptic za določitev slovenskega indeksa ptic kmetijske krajine - končno poročilo za leto 2018. (Monitoring of common bird species for the determination of Slovenian farmland bird index - final report for the year 2018.) – DOPPS, Ljubljana.
<b>Breeding short-term trend:</b> Kmecl P. & Šumrada T. (2018): Monitoring splošno razširjenih vrst ptic za določitev slovenskega indeksa ptic kmetijske krajine - končno poročilo za leto 2018 (Monitoring of common bird species for the determination of Slovenian farmland bird index - final report for the year 2018). – DOPPS, Ljubljana.

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### Slovenia

<b>Breeding long-term trend:</b> Mihelič T., Krmeč P., Denac K., Koče U., Vrezec A., Denac D. (eds.) (2019): Atlas ptic Slovenije. Popis gnezdičk 2002–2017. (The atlas of birds of Slovenia. The census of breeding birds 2002-2017.) – DOPPS, Ljubljana.
<b>Winter population size:</b> Božič L. (2013): Rezultati januarskega štetja vodnih ptic leta 2013 v Sloveniji. – <i>Acrocephalus</i> 34 (156/157): 93–103. Božič L. (2014): Rezultati januarskega štetja vodnih ptic leta 2014 v Sloveniji. – <i>Acrocephalus</i> 35 (160/161): 73–83. Božič L. (2015): Rezultati januarskega štetja vodnih ptic leta 2015 v Sloveniji. – <i>Acrocephalus</i> 36 (164/165): 57–67. Božič L. (2016): Rezultati januarskega štetja vodnih ptic leta 2016 v Sloveniji. – <i>Acrocephalus</i> 37 (170/171): 209–219. Božič L. (2017): Rezultati januarskega štetja vodnih ptic leta 2017 v Sloveniji. – <i>Acrocephalus</i> 38 (174/175): 203–215. Božič L. (2018): Rezultati januarskega štetja vodnih ptic leta 2018 v Sloveniji. – <i>Acrocephalus</i> 39 (178/179): xx–xx.
<b>Winter short-term trend:</b> Božič L. (2007): Rezultati januarskega štetja vodnih ptic leta 2007 v Sloveniji. – <i>Acrocephalus</i> 28 (132): 23–31. Božič L. (2008a): Rezultati januarskega štetja vodnih ptic leta 2008 v Sloveniji. – <i>Acrocephalus</i> 29 (136): 39–49. Božič L. (2008b): Rezultati januarskega štetja vodnih ptic leta 2009 v Sloveniji. – <i>Acrocephalus</i> 29 (138/139): 169–179. Božič L. (2010): Rezultati januarskega štetja vodnih ptic leta 2010 v Sloveniji. – <i>Acrocephalus</i> 31 (145/146): 131–141. Božič L. (2011): Rezultati januarskega štetja vodnih ptic leta 2011 v Sloveniji. – <i>Acrocephalus</i> 32 (148/149): 67–77. Božič L. (2012): Rezultati januarskega štetja vodnih ptic leta 2012 v Sloveniji. – <i>Acrocephalus</i> 33 (152/153): 109–119. Božič, L. (2008): Monitoring populacij izbranih vrst ptic – Zimsko štetje vodnih ptic 2002–2008. Končno poročilo. – DOPPS, Maribor. Rubinič, B. & Božič, L. (2009): Monitoring populacij izbranih vrst ptic. Rezultati zimskega štetja vodnih ptic 2009, rezultati popisov preleta ujed v jesenski sezoni 2008. 2. vmesno poročilo. – DOPPS, Ljubljana. Božič, L. (2010): Monitoring populacij izbranih ciljnih vrst ptic – Zimsko štetje vodnih ptic. Poročilo. – DOPPS, Ljubljana. Božič, L. (2011): Monitoring populacij izbranih ciljnih vrst ptic – Zimsko štetje vodnih ptic. Poročilo. – DOPPS, Ljubljana.
<b>Winter long-term trend:</b> BirdLife International (2004): Birds in Europe: population estimates, trends and conservation status. BirdLife Conservation Series No. 12. – BirdLife International, Cambridge. Sovinc, A. (1994): Zimski ornitološki atlas Slovenije. – Tehniška založba Slovenije, Ljubljana.

### Spain

<b>Breeding population size:</b> 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. ( <a href="https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx">https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx</a> )
<b>Breeding short-term trend:</b> 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. ( <a href="https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx">https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx</a> ) SEO/BirdLife (2018). Censos de aves acuáticas. ( <a href="http://www.acuaticas.org/WebForms/ConsultaContenidos/Paginas/RealMapasDistAbunEspecie.aspx">http://www.acuaticas.org/WebForms/ConsultaContenidos/Paginas/RealMapasDistAbunEspecie.aspx</a> )
<b>Breeding long-term trend:</b> 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. ( <a href="https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx">https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx</a> ) SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/ BirdLife. Madrid. 817 pp. ( <a href="https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas_aves_invierno_tcm30-198034.pdf">https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas_aves_invierno_tcm30-198034.pdf</a> )
<b>Winter population size:</b> Información proporcionada por las Comunidades Autónomas. SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/ BirdLife. Madrid. 817 pp. ( <a href="https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas_aves_invierno_tcm30-198034.pdf">https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas_aves_invierno_tcm30-198034.pdf</a> )
<b>Winter short-term trend:</b> BirdLife International (2015). <i>Vanellus vanellus</i> . The IUCN Red List of Threatened Species 2015: e.T22693949A60072158. ( <a href="https://www.iucnredlist.org/species/22693949/60072158">https://www.iucnredlist.org/species/22693949/60072158</a> ). Información proporcionada por las Comunidades Autónomas. SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/ BirdLife. Madrid. 817 pp. ( <a href="https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas_aves_invierno_tcm30-198034.pdf">https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas_aves_invierno_tcm30-198034.pdf</a> ) SEO/BirdLife (2019). Programas de seguimiento y grupos de trabajo de SEO/BirdLife 2018. SEO/BirdLife. Madrid. ( <a href="https://doi.org/10.31170/0073">https://doi.org/10.31170/0073</a> )
<b>Winter long-term trend:</b> BirdLife International (2015). <i>Vanellus vanellus</i> . The IUCN Red List of Threatened Species 2015: e.T22693949A60072158. ( <a href="https://www.iucnredlist.org/species/22693949/60072158">https://www.iucnredlist.org/species/22693949/60072158</a> ). Información proporcionada por las Comunidades Autónomas. SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/ BirdLife. Madrid. 817 pp. ( <a href="https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas_aves_invierno_tcm30-198034.pdf">https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas_aves_invierno_tcm30-198034.pdf</a> ) SEO/BirdLife (2019). Programas de seguimiento y grupos de trabajo de SEO/BirdLife 2018. SEO/BirdLife. Madrid. ( <a href="https://doi.org/10.31170/0073">https://doi.org/10.31170/0073</a> )

### Sweden

<b>Breeding population size:</b> 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.
<b>Breeding short-term trend:</b> Svensk fågeltaxering - Swedish Bird Survey
<b>Breeding long-term trend:</b> Svensk fågeltaxering - Swedish Bird Survey

### Switzerland

<b>Breeding population size:</b> 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.
<b>Breeding short-term trend:</b> <a href="https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/">https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/</a>
<b>Breeding long-term trend:</b> <a href="https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/">https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/</a>

### Turkey

<b>Breeding population size:</b> Güven Eken personal communication (2019), BirdLife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no: 12) 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-
<b>Winter population size:</b> Ebird Database and Midwinter Fowl Counts (2013-2018), Birdlife Estimate
<b>Winter short-term trend:</b> Midwinter bird counts 2012-2019
<b>Winter long-term trend:</b> Midwinter bird counts 1980-2019 and Historical Records come from OSME and other midwinter counts

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