

Podiceps cristatus (Great Crested Grebe)

European Red List of Birds

Supplementary Material

The European Union (EU27) Red List assessments were based principally on the official data reported by EU Member States to the European Commission under Article 12 of the Birds Directive in 2013-14. For the European Red List assessments, similar data were sourced from BirdLife Partners and other collaborating experts in other European countries and territories. For more information, see BirdLife International (2015).

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Recommended citation

BirdLife International (2015) European Red List of Birds. Luxembourg: Office for Official Publications of the European Communities.

Further information

<http://www.birdlife.org/datazone/info/euroredlist>

<http://www.birdlife.org/europe-and-central-asia/european-red-list-birds-0>

<http://www.iucnredlist.org/initiatives/europe>

<http://ec.europa.eu/environment/nature/conservation/species/redlist/>

Data requests and feedback

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

Podiceps cristatus (Great Crested Grebe)

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

Country (or territory) ²	Population estimate				Short-term population trend ⁴				Long-term population trend ⁴				Subspecific population (where relevant)
	Size (pairs) ³	Europe (%)	Year(s)	Quality	Direction ⁵	Magnitude (%) ⁶	Year(s)	Quality	Direction ⁵	Magnitude (%) ⁶	Year(s)	Quality	
Albania	100-300	<1	2002-2012	medium	0	0	2002-2012	medium	0	0	1980-2012	poor	
Armenia	1,000-1,200	<1	2002-2012	medium	?				?				
Austria	700-900	<1	2001-2012	medium	-	20-50	2001-2012	medium	?				P. c. cristatus
Azerbaijan	2,500-5,000	1	1996-2002	medium	?				?				
Belarus	8,000-10,000	2	2001-2012	medium	0	0	2001-2012	medium	+	10-20	1980-2012	medium	
Belgium	910-1,410	<1	2008-2012	medium	-	8-40	2000-2012	poor	+	100-370	1973-2012	poor	P. c. cristatus
Bosnia & HG	800-1,200	<1	2010-2014	poor	0	0	2001-2012	poor	?				
Bulgaria	300-600	<1	2005-2012	medium	0	0	2000-2012	medium	0	0	1980-2012	medium	P. c. cristatus
Croatia	5,000-10,000	2	2014	poor	?				?				
Czech Rep.	5,875-11,750	2	2012	medium	+	77-284	2000-2012	good	+	8-159	1982-2012	good	P. c. cristatus
Denmark	3,500	1	2011	medium	0	0	1999-2011	good	-	33-50	1980-2011	good	P. c. cristatus
Estonia	2,000-3,000	1	2008-2012	poor	-	20-50	2001-2012	poor	-	20-50	1980-2012	poor	P. c. cristatus
Finland	28,000-47,000	9	2006-2012	good	-	15-32	2001-2012	good	-	19-34	1986-2012	good	P. c. cristatus
France	15,000-30,000	5	2008-2012	medium	0	0	2001-2012	poor	+	100-500	1980-2012	poor	P. c. cristatus
Georgia	Present	<1			?				?				
Germany	21,000-31,000	6	2005-2009	good	+	11-40	1998-2009	medium	0	0	1985-2009	medium	P. c. cristatus
Greece	1,100-1,500	<1	2008-2012	medium	0	0	2001-2012	poor	?				P. c. cristatus
Hungary	3,000-4,000	1	2000-2012	poor	?				?				P. c. cristatus
Rep. Ireland	1,000-2,499	<1	2008-2011	medium	0	0	2000-2011	medium	?				P. c. cristatus
Italy	2,315-3,045	1	2006	medium	-	10-25	2000-2006	medium	+	400-480	1980-2006	poor	P. c. cristatus
Kosovo	15-30	<1	2009-2014	good	?				?				
Latvia	4,019-6,266	1	2000-2004	poor	?				0	0	1994-2004	poor	P. c. cristatus
Lithuania	10,000-15,000	3	2008-2012	medium	0	0	2001-2012	medium	0	0	1980-2012	medium	P. c. cristatus
Luxembourg	18-20	<1	2008-2012	good	+	0-10	2000-2012	good	+	400-500	1980-2012	good	P. c. cristatus
FYRO Macedonia	200-800	<1	2001-2012	poor	0	0	2001-2012	poor	0	0	1980-2012	poor	
Moldova	200-250	<1	2000-2010	medium	-	20-30	2000-2010	medium	F	0	1980-2010	medium	
Montenegro	300-800	<1	2002-2012	good	-		2002-2012	good	?				
Netherlands	11,363-13,986	3	2008-2011	medium	-	9-24	2002-2011	good	0	0	1984-2011	good	P. c. cristatus
Norway	221-377	<1	2008-2013	medium	0	0	2008-2012	good	?				
Poland	15,000-25,000	5	1992-2004	medium	?				?				P. c. cristatus
Portugal	300-1,000	<1	2008-2012	poor	+	75-150	2001-2012	medium	+		1980-2012	medium	P. c. cristatus
Romania	15,000-30,000	5	2000-2013	medium	?				0	0	1980-2012	poor	P. c. cristatus

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Country (or territory) ²	Population estimate				Short-term population trend ⁴				Long-term population trend ⁴				Subspecific population (where relevant)
	Size (pairs) ³	Europe (%)	Year(s)	Quality	Direction ⁵	Magnitude (%) ⁶	Year(s)	Quality	Direction ⁵	Magnitude (%) ⁶	Year(s)	Quality	
Russia	100,000-150,000	30	2000-2008	medium	0	0	2000-2012	medium	0	0	1980-2012	medium	
Serbia	1,530-2,090	<1	2008-2012	medium	0	0	2000-2012	medium	0	0	1980-2012	medium	
Slovakia	500-1,000	<1	2002	medium	0	0	2000-2012	medium	+	20-30	1980-2012	medium	P. c. cristatus
Slovenia	100-200	<1	2002-2012	medium	0	0-20	2001-2012	medium	0	0-20	1980-2012	medium	P. c. cristatus
Spain	22,050	5	2007	good	-	64	1998-2011	good	-		1980-2011	medium	P. c. cristatus
Sweden	18,000-26,000	5	2008-2012	medium	0	0	2001-2012	medium	-	15-45	1980-2012	medium	P. c. cristatus
Switzerland	4,500-5,500	1	2008-2012	medium	-	9-77	2001-2012	poor	F	0	1980-2012	medium	
Turkey	5,000-8,000	2	2013	poor	0	0	2000-2012	poor	-	0-19	1990-2013	good	
Ukraine	14,500-16,700	4	2000	medium	F	20-25	1998-2010	medium	F	20-30	1980-2010	medium	
United Kingdom	5,300	1	2009	medium	+	22	1998-2010	good	-	31	1975-2009	good	P. c. cristatus
EU27	186,000-286,000	57			Decreasing								
Europe	330,000-498,000	100			Decreasing								

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

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

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

⁴ The robustness of regional trends to the effects of any missing or incomplete data was tested using plausible scenarios, based on other sources of information, including any other reported information, recent national Red Lists, scientific literature, other publications and consultation with relevant experts.

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

⁶ Trend magnitudes are rounded to the nearest integer.

Podiceps cristatus (Great Crested Grebe)

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 ⁴				Long-term population trend ⁴				Subspecific population (where relevant)
	Size (individuals) ³	Europe (%)	Year(s)	Quality	Direction ⁵	Magnitude (%) ⁶	Year(s)	Quality	Direction ⁵	Magnitude (%) ⁶	Year(s)	Quality	
Albania	750-1,900	<1	2002-2012	medium	0	0	2002-2012	medium	0	0	1980-2012	poor	
Armenia	1-248	<1	2003-2013	good	?				?				
Azerbaijan	1,000-3,500	1	1996-2002	good	?				?				
Belarus	0-10	<1	2009-2013	good	0	0	2001-2012	medium	-	83	1980-2012	medium	
Belgium	4,273-4,436	1	2008-2012	medium	-	1-2	2001-2012	good	+	0-1	1992-2012	good	
Bosnia & HG	100-1,000	<1	2008-2013	medium	F	20-50	2000-2013	medium	?				
Bulgaria	1,400-3,000	1	2008-2011	medium	+	40-100	1999-2011	medium	0	0	1980-2012	medium	
Croatia	1,500-2,500	1	2011	medium	?				?				
France	38,317	11	2008-2012	medium	+	4-31	2000-2012	medium	+	50-60	1980-2012	poor	
Georgia	53,096	16	2002	good	?				?				
Germany	39,000	12	2000-2005	good	+	20-97	1997-2009	good	+	114-387	1984-2009	good	
Greece	14,687-29,300	6	2007-2013	good	+	113	2004-2013	good	?			good	
Rep. Ireland	1,560	<1	2006-2011	good	F	0	1999-2011	good	?				
Italy	23,546-27,863	8	2007-2009	good	+	15-25	2000-2009	good	+	55-85	1991-2009	good	
Kosovo	100-200	<1	2009-2014		?				?				
Latvia	50-1,600	<1	2001-2012	medium	0	0	2001-2012	medium	+	100-400	1991-2012	medium	
FYRO Macedonia	1,500-7,000	1	2001-2012	good	F	0	2001-2012	good	+	200	1980-2012	medium	
Moldova	6-20	<1	2000-2010	medium	F	0	2000-2010	medium	F	0	1980-2010	medium	
Montenegro	500-2,000	<1	2003-2012	good	-		2003-2012	good	-		1991-2012	good	
Netherlands	43,000-52,000	14	2006-2010	medium	-	16-58	2000-2011	good	0	0	1981-2011	good	
Norway	126	<1	1994-2003	medium	?				?				
Serbia	300-1,000	<1	2008-2012	medium	F	0	2000-2012		?				
Spain	6,634-7,596	2	2008-2010	good	+	21	2000-2010	good	+	5	1980-2009	good	
Switzerland	26,027-35,679	9	2008-2012	good	+	43-46	2001-2012	good	+	49-50	1980-2012	good	
Turkey	9,930-91,652	9	2002-2012	good	F	0	2002-2012	poor	?				
Ukraine	2,000-3,000	1	1998-2009	medium	F	10-25	1998-2009	medium	F	20-30	1980-2009	medium	
United Kingdom	23,000	7	2004-2008	good	-	18	1999-2010	good	+	81	1984-2010	good	
EU27	195,000-228,000	59			Fluctuating								
Europe	292,000-431,000	100			Fluctuating								

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Country (or territory) ²	Population estimate				Short-term population trend ⁴				Long-term population trend ⁴				Subspecific population (where relevant)
	Size (individuals) ³	Europe (%)	Year(s)	Quality	Direction ⁵	Magnitude (%) ⁶	Year(s)	Quality	Direction ⁵	Magnitude (%) ⁶	Year(s)	Quality	

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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⁶ Trend magnitudes are rounded to the nearest integer.

Trend maps

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

KEY

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

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

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

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

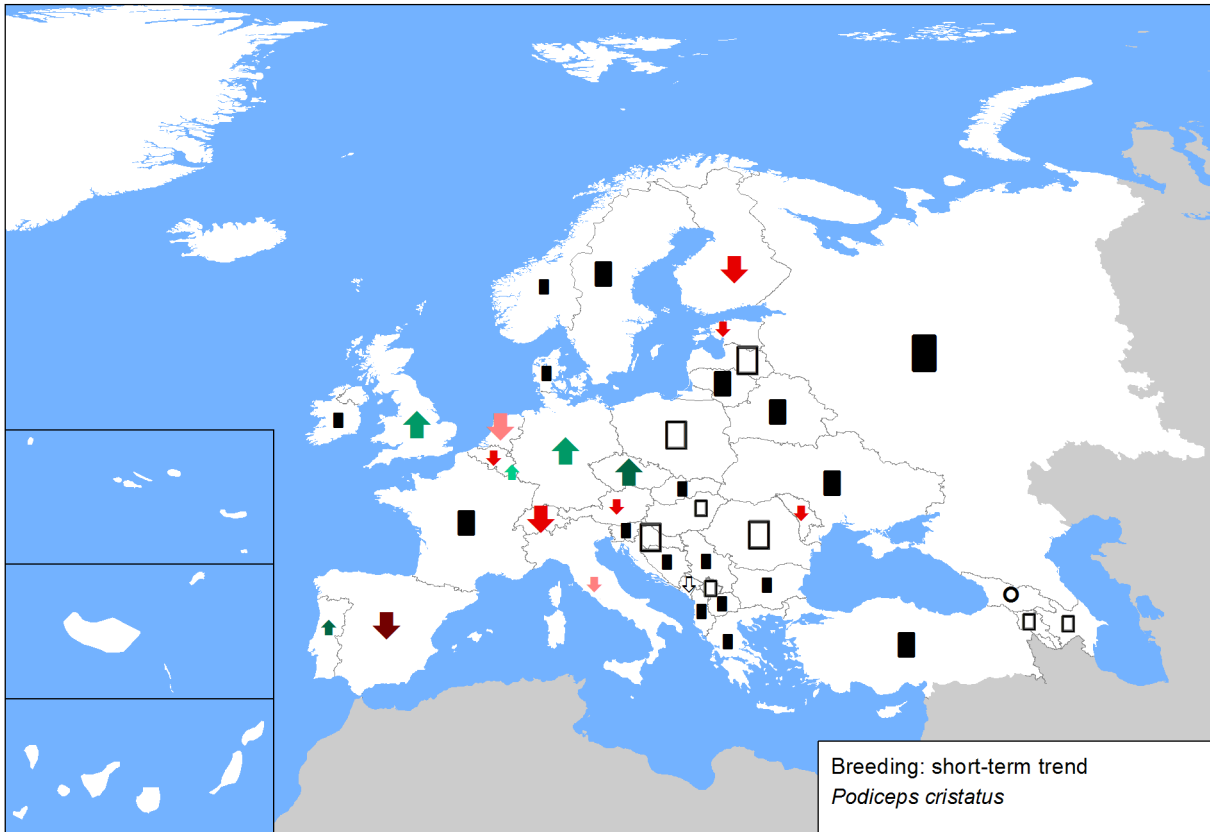


Figure 2. Breeding population sizes and long-term trends across Europe.

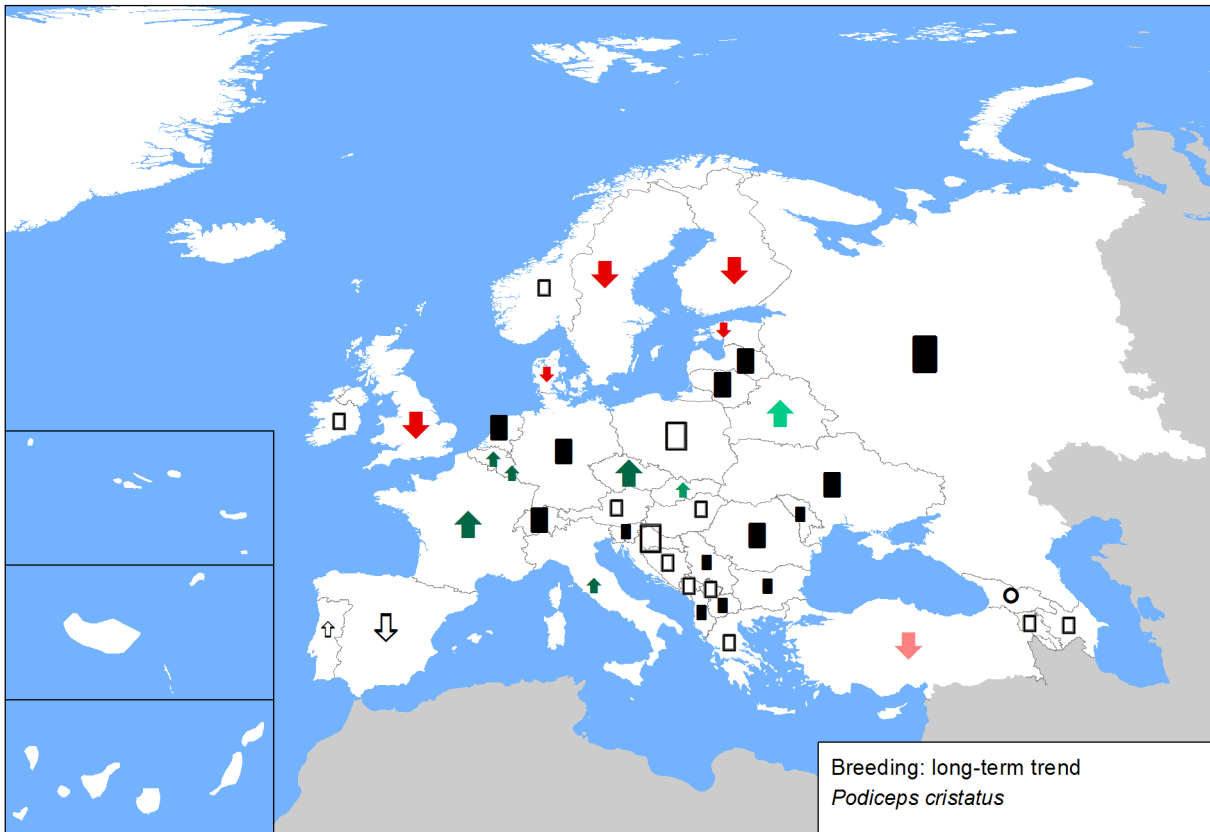


Figure 3. Reported wintering population sizes and short-term trends across Europe. Note that some countries within the species' wintering range did not report any data.

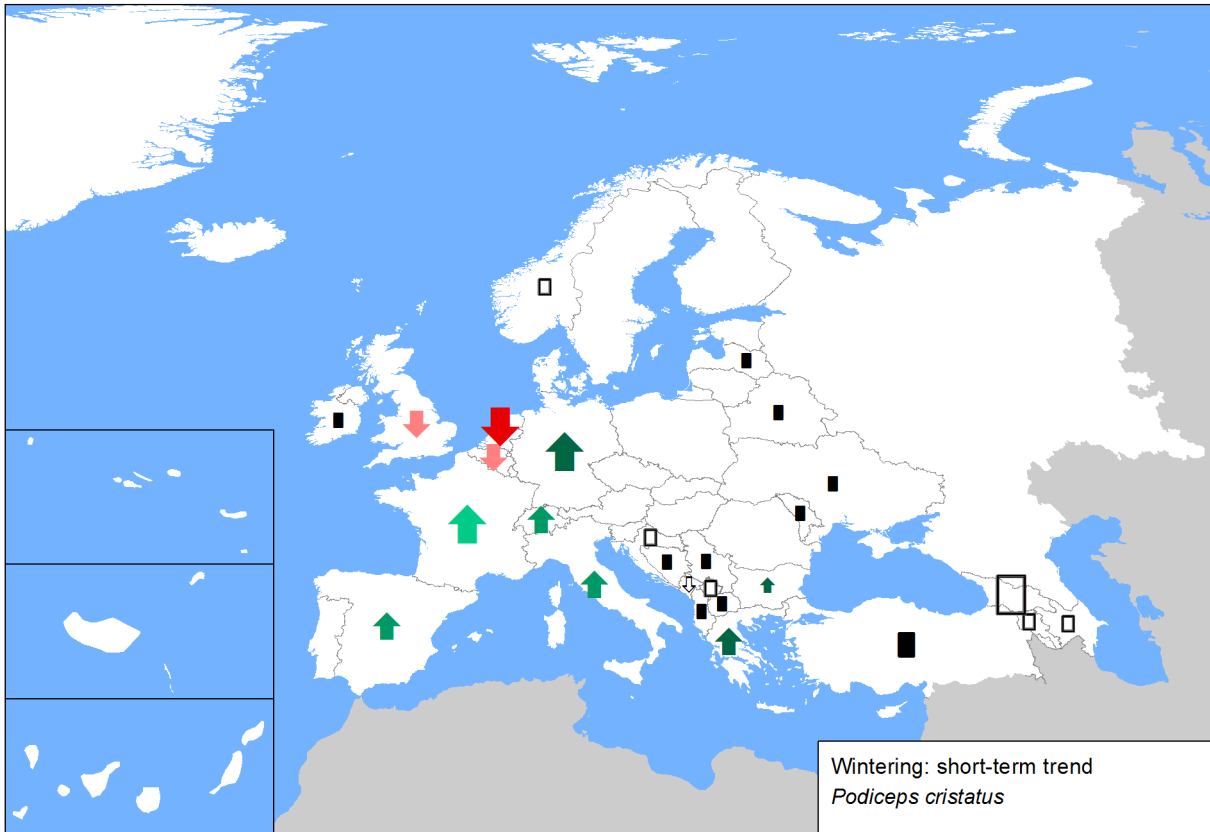
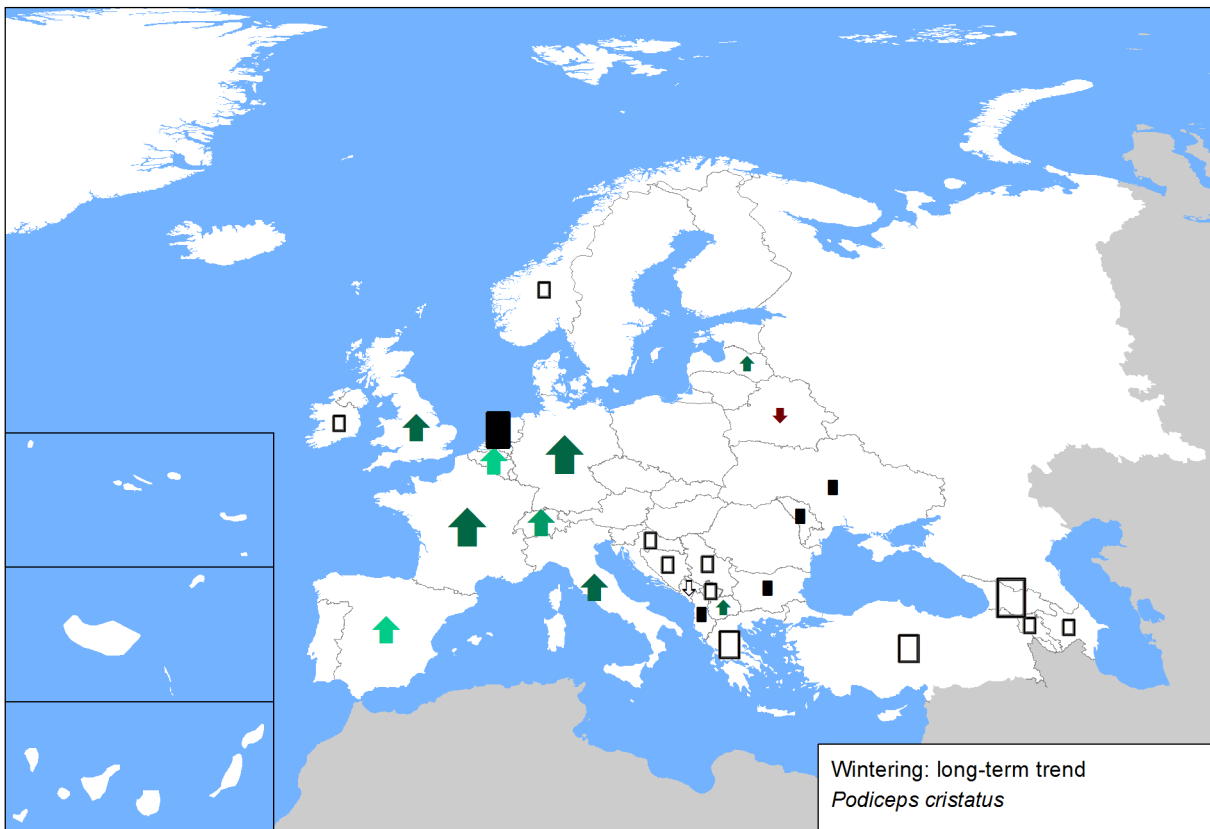


Figure 4. Reported wintering population sizes and long-term trends across Europe. Note that some countries within the species' wintering range did not report any data.



Podiceps cristatus (Great Crested Grebe)

Sources

Albania

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

Armenia

Breeding population size: ASPB data
Winter population size: ASPB IWC counts

Austria: *P. c. cristatus*

Breeding population size: BirdLife Austria, estimate on the basis of available unpublished and published population data
Breeding short-term trend: BirdLife Austria, estimate on the basis of available unpublished and published trend data

Azerbaijan

Breeding population size: BirdLife International 2004
Winter population size: BirdLife International 2004

Belarus

Breeding population size: Kozulin A.V. - personal communication
Breeding short-term trend: Kozulin A.V. - personal communication
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Winter short-term trend: Bogdanovich I.A. - personal communication
Winter long-term trend: Nikiforov M.E., Kozulin A.V., eds. Belarussian birds at the beginning of XXI century: status, numbers, distribution. - 1997. - Minsk. - 187 p.

Belgium: *P. c. cristatus*

Breeding population size: Compilation of data and enquiries in ornithological community, Vermeersch et al, 2004
Breeding short-term trend: Common bird monitoring schemes
Breeding long-term trend: Comparison between 2008-2012 estimate and Devillers, 1989 (Atlas of the Belgian Breeding Bird) population estimate
Winter population size: waterbird database INBO + Aves, seabird database INBO
Winter short-term trend: waterbird database INBO and Aves
Winter long-term trend: waterbird database INBO and Aves

Bosnia and Herzegovina

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

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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, 46-47; Nikolov H. (2011). <i>Podiceps cristatus</i> . In: Red Data Book of Bulgaria, Golemanski G. (ed.), (web edition, http://e-ecodb.bas.bg/rdb/bg/).
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Winter short-term trend: 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. Michev T., Profirov L. 2003. Mid-Winter Numbers of Waterbirds in Bulgaria (1977-2001). Pensoft, Sofia, 160 pp.
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Croatia

Breeding population size: BiE III Work group, Croatia
Breeding short-term trend: BiE III Work group, Croatia
Breeding long-term trend: BiE III Work group, Croatia
Winter population size: Report on the implementation of AEWA for the period 2009-2011 - Croatia. http://www.unep-aewa.org/en/document/national-report-croatia-2
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Breeding long-term trend: JPSP: http://jpsp.birds.cz/vysledky.php?taxon=267

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Estonia: *P. c. cristatus*

Breeding population size: Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008–2012. <i>Hirundo</i> 26(2): 80-112. URL: http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf
Breeding short-term trend: Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008–2012. <i>Hirundo</i> 26(2): 80-112. URL: http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf
Breeding long-term trend: Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008–2012. <i>Hirundo</i> 26(2): 80-112. URL: http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf

Finland: *P. c. cristatus*

Breeding population size: Pöysä, H., Rintala, J., Lehikoinen, A., & Väisänen, R. A. (2013). The importance of hunting pressure, habitat preference and life history for population trends of breeding waterbirds in Finland. <i>Eur J Wild Res</i> , 59(2), 245–256. doi:10.1007/s10344-012-0673-8.
Breeding short-term trend: Pöysä, H., Rintala, J., Lehikoinen, A., & Väisänen, R. A. (2013). The importance of hunting pressure, habitat preference and life history for population trends of breeding waterbirds in Finland. <i>Eur J Wild Res</i> , 59(2), 245–256. doi:10.1007/s10344-012-0673-8
Breeding long-term trend: Pöysä, H., Rintala, J., Lehikoinen, A., & Väisänen, R. A. (2013). The importance of hunting pressure, habitat preference and life history for population trends of breeding waterbirds in Finland. <i>Eur J Wild Res</i> , 59(2), 245–256. doi:10.1007/s10344-012-0673-8 Lehikoinen, A., Pöysä, H., Rintala, J. & Väisänen, R.A. 2013: Population changes of 20 waterbird species in Finnish lakes in 1986–2012. – <i>Linnut-vuosikirja</i> 2012: 95–101. (in Finnish with English summary)

France: *P. c. cristatus*

Breeding population size: http://www.atlas-ornitho.fr/
Breeding short-term trend: http://vigienature.mnhn.fr/page/grebe-huppe
Breeding long-term trend: http://vigienature.mnhn.fr/page/grebe-huppe
Winter population size: LPO - Wetlands International 2012 Base de données des dénombrements d'oiseaux d'eau « Wetlands International » 1980-2012 réalisés à la mi-janvier, LPO - BirdLife France, Rochefort
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Winter long-term trend: YEATMAN-BERTHELOT D. assistée de JARRY G. 1991 Atlas des oiseaux de France en hiver, Société Ornithologique de France, 575 p. LPO - Wetlands International 2012 Base de données des dénombrements d'oiseaux d'eau « Wetlands International » 1980-2012 réalisés à la mi-janvier, LPO - BirdLife France, Rochefort

Georgia

Breeding population size: BirdLife International 2004
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Podiceps cristatus (Great Crested Grebe)

Georgia

Winter population size: BirdLife International 2004

Germany: *P. c. cristatus*

Breeding population size: Gedeon, K., C. Grüneberg, A. Mitschke & C. Sudfeldt (in Vorb.): Atlas Deutscher Brutvogelarten. SVD & DDA, Münster.

Breeding short-term trend: Dachverband Deutscher Avifaunisten e.V.

Breeding long-term trend: Dachverband Deutscher Avifaunisten e.V.

Winter population size: Wahl, J., J. Bellebaum, J. Blew, S. Garthe, K. Günther & T. Heinicke (in Vorb.): Rastende Wasservögel in Deutschland 2000-2005: Bestandsschätzungen und Schwellenwerte für Rastgebiete nationaler Bedeutung. Vogelwelt.

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Winter long-term trend: Monitoring rastender Wasservögel

Greece: *P. c. cristatus*

Breeding population size: 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. Dimalexis, T., Bousbouras, D., Kastritis, T., Manolopoulos, A. & Saravia, V. (eds.) 2009. Evaluation of 69 Important Bird Areas as Special Protection Areas. Hellenic Ministry for the Environment, Physical Planning and Public Works, Athens. Hellenic Ornithological Society database

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

Winter population size: Midwinter Counts Database, Hellenic Ornithological Society

Winter short-term trend: Midwinter Counts Database, Hellenic Ornithological Society

Winter long-term trend: Midwinter Counts Database, Hellenic Ornithological Society

Hungary: *P. c. cristatus*

Breeding population size: Consultation with national experts.

Republic of Ireland: *P. c. cristatus*

Breeding population size: Balmer, D., Gillings, S., Caffrey, B., Swan, B., Downie, I. & Fuller, R. (2013) Bird Atlas 2007-11 The breeding and wintering birds of Britain and Ireland. British Trust for Ornithology. BirdLife International (2004) Birds in Europe: population estimates, trends and conservation status. Cambridge, UK: BirdLife International. (BirdLife Conservation Series No. 12). Gibbons D.W., Reid J.B. & Chapman R.A. (1993) The New Atlas of Breeding Birds in Britain and Ireland 1988-1991. Poyser, London. Preston, K. (1976). Census of Great Crested Grebes, summer 1975. Irish Bird Rep. 1975:38-43. Perry, K. (2000) The Ecology and Conservation of Great Crested Grebes *Podiceps cristatus* at Lough Neagh, Northern Ireland. PhD Thesis, University of Ulster

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Winter short-term trend: IWC ISPRA

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Kosovo

Breeding population size: NGO "Finch" (2014)

Winter population size: NGO "Finch" (2014)

Latvia: *P. c. cristatus*

Breeding population size: Kerus V. 2011. Latvijas ligzdojoso putnu stavokla parmainas laika no 1980. līdz 2010. gadam. Promocijas darbs. Rīga: Latvijas Universitāte

Breeding long-term trend: Kerus V. 2011. Latvijas ligzdojoso putnu stavokla parmainas laika no 1980. līdz 2010. gadam. Promocijas darbs. Rīga: Latvijas Universitāte

Podiceps cristatus (Great Crested Grebe)

Latvia: P. c. cristatus

Winter population size: WI IWC
Winter short-term trend: WI IWC
Winter long-term trend: WI IWC

Lithuania: P. c. cristatus

Breeding population size: Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“, 288 p.
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Luxembourg: P. c. cristatus

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Breeding short-term trend: LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Konter A. (2012): Hoher Bruterfolg des Haubentauchers Podiceps cristatus in Steinheim – Zweitbrut mit Schwierigkeiten. Regulus Wissenschaftliche Berichte, 27: 73-81 (http://www.luxnatur.lu/publi/wb27001112.pdf) Konter A. (2010): Wasservogel an der Sauer im Raum Echternach: Bestand und Ausblick. Wissenschaftliche Berichte, 25: 41-55 (http://www.luxnatur.lu/publi/wb25001144.pdf) Konter A. (2009): Erster Brutnachweis des Haubentauchers Podiceps cristatus an der Sauer. Regulus Wissenschaftliche Berichte, 24: 61-62 (http://www.luxnatur.lu/publi/wb24001021.pdf) Konter A. (2004): The Great Crested Grebe in Luxembourg. Regulus Wissenschaftliche Berichte, 20: 8-18 Melchior E., E. Mentgen, R. Peltzer, R. Schmitt, J. Weiss (1987): Atlas der Brutvögel Luxemburgs. Lëtzebuurger Natur- a Vulleschutzliga. Kremer-Muller & Cie, Foetz, Luxembourg (http://www.luxnatur.lu/publi/wb20001072.pdf) Lorgé P., E. Melchior (2010): Die Vögel Luxemburgs. LNVL, Luxembourg. ISBN: 978-2-919920-01-3 Melchior E., E. Mentgen, R. Peltzer, R. Schmitt, J. Weiss (1987): Atlas der Brutvögel Luxemburgs. Lëtzebuurger Natur- a Vulleschutzliga. Kremer-Muller & Cie, Foetz, Luxembourg
Breeding long-term trend: LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Konter A. (2012): Hoher Bruterfolg des Haubentauchers Podiceps cristatus in Steinheim – Zweitbrut mit Schwierigkeiten. Regulus Wissenschaftliche Berichte, 27: 73-81 (http://www.luxnatur.lu/publi/wb27001112.pdf) Konter A. (2010): Wasservogel an der Sauer im Raum Echternach: Bestand und Ausblick. Wissenschaftliche Berichte, 25: 41-55 (http://www.luxnatur.lu/publi/wb25001144.pdf) Konter A. (2009): Erster Brutnachweis des Haubentauchers Podiceps cristatus an der Sauer. Regulus Wissenschaftliche Berichte, 24: 61-62 (http://www.luxnatur.lu/publi/wb24001021.pdf) Konter A. (2004): The Great Crested Grebe in Luxembourg. Regulus Wissenschaftliche Berichte, 20: 8-18 Melchior E., E. Mentgen, R. Peltzer, R. Schmitt, J. Weiss (1987): Atlas der Brutvögel Luxemburgs. Lëtzebuurger Natur- a Vulleschutzliga. Kremer-Muller & Cie, Foetz, Luxembourg (http://www.luxnatur.lu/publi/wb20001072.pdf) Lorgé P., E. Melchior (2010): Die Vögel Luxemburgs. LNVL, Luxembourg. ISBN: 978-2-919920-01-3 Melchior E., E. Mentgen, R. Peltzer, R. Schmitt, J. Weiss (1987): Atlas der Brutvögel Luxemburgs. Lëtzebuurger Natur- a Vulleschutzliga. Kremer-Muller & Cie, Foetz, Luxembourg

The Former Yugoslav Republic of Macedonia

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Breeding short-term trend: Vasić, V. 2010. Lists of birds of the National park Galičica. Page 245. Public enterprise National park “Galičica,” Ohrid. Unpublished data Metodija Velevski
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Winter population size: Wetlands International database and unpublished data of the Macedonian Ecological Society
Winter short-term trend: Wetlands International database and unpublished data of the Macedonian Ecological Society
Winter long-term trend: Wetlands International database and unpublished data of the Macedonian Ecological Society

Moldova

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Breeding short-term trend: The Atlas of the Breeding Birds of Republic of Moldova. 2010. 100p.
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Winter short-term trend: Cojan C. Particularitățile biologice și etologice ale avifaunei acvatice și semiacvatice din bazinul Prutului Inferior. Teza de doctorat. Chișinău. 2010. 172p. Winter assessment of water birds in Moldova
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Montenegro

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Winter long-term trend: Puzovic, S., Simic, D., Saveljić, D., Gergelj, J., Tucakov, M., Stojnic, N., Hulo, I., Ham, I., Vizi, O., Sciban, M., Ruzic, M., Vucanovic, M., Jovanovic, T. (2004): Birds of Serbia and Montenegro – Size of nesting populations. I trends: 1990-2002. Ciconia 12,

Netherlands: *P. c. cristatus*

Breeding population size: NEM, Sovon en CBS, SOVON (2002)
Breeding short-term trend: NEM, Sovon en CBS, Boele et al. (2013)
Breeding long-term trend: NEM, Sovon en CBS
Winter population size: Hornman et al 2012, Bemmelen & Geelhoed 2012
Winter short-term trend: NEM (Sovon, RWS, CBS), Hornman et al 2013
Winter long-term trend: NEM (Sovon, RWS, CBS), Hornman et al 2013

Norway

Breeding population size: Artsobservasjoner.no
Breeding short-term trend: Shimmings P. & Øien, I.J. 2015. Bestandsestimater og trender for norske hekkefugler. NOF-rapport 2015-2.
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Poland: *P. c. cristatus*

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Portugal: *P. c. cristatus*

Breeding population size: informação do ICNF
Breeding short-term trend: informação do ICNF
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Romania: *P. c. cristatus*

Breeding population size: SOR database
Breeding short-term trend: Papp T., Fântână C. – editori 2008, Ariele de Importanță Avifaunistică din România, Publicație Comună a Societății Ornitologice Române și a Asociației „Grupul Milvus”
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Russia

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Serbia

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

Podiceps cristatus (Great Crested Grebe)

Serbia

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

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Breeding population size: Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.
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Breeding short-term trend: Swiss Ornithological Institute: http://www.vogelwarte.ch/monitoring-ausgewaehlte-arten.html Min Max refer to 95% Confidence interval.
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