

***Mareca penelope* (Eurasian Wigeon)**

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.

Mareca penelope (Eurasian Wigeon)

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	
Belgium	0-1	<1	2008-2012	medium	0	0	2000-2012	medium	?				
Czech Rep.	0	<1	2001-2003	good	?				?				
Denmark	0	<1	2011	poor	?				?				
Estonia	50-100	<1	2008-2012	poor	0	0-10	2001-2012	poor	+	20-50	1980-2012	poor	
Finland	50,000-83,000	12	2006-2012	good	-	26-40	2001-2012	good	-	30-44	1986-2012	good	
Germany	40-45	<1	2005-2009	good	0	0	1998-2009	medium	+	31-400	1985-2009	medium	
Iceland	4,000-6,000	1	1990	poor	?				?				
Latvia	100-200	<1	2010	good	?				+	347	1994-2010	medium	
Netherlands	12-18	<1	2008-2011	medium	F	0	2002-2011	medium	?				
Norway	5,000-15,000	2	2013	poor	?				?				
Poland	0-1	<1	2008-2012	medium	-	90-100	2000-2012	medium	-	100	1980-2010	medium	
Russia	380,000-500,000	79	2000-2012	poor	0	0	2000-2012	poor	+	5-30	1980-2008	medium	
Sweden	29,000-40,000	6	2008-2012	medium	0	0	2001-2012	medium	?				
United Kingdom	300-500	<1	1968-1972	medium	+	64	1996-2008	good	?				
EU27	79,500-124,000	18			Decreasing								
Europe	469,000-645,000	100			Stable								

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.

Mareca penelope (Eurasian Wigeon)

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	2,500-15,700	<1	2002-2012	good	F	20-40	2002-2012	good	-	20-50	1980-2012	medium	
Armenia	1-8	<1	2002-2013	good	?				?				
Austria	900-2,200	<1	2008-2010	good	+	20-40	2001-2012	good	+	300-3000	1980-2012	medium	
Azerbaijan	50,000-250,000	5	2014	medium	0.0	0	2000-2014	medium	0.0	0	1980-2014	medium	
Belarus	0-5	<1	2009-2013	good	0	0	2000-2012	medium	?				
Belgium	53,971-77,065	3	2008-2012	good	-	2-5	2001-2012	good	+	1-2	1992-2012	good	
Bosnia & HG	150-300	<1	2008-2013	medium	F	20-30	2000-2013	medium	?				
Bulgaria	660-2,900	<1	2008-2012	medium	0	0	2000-2012	medium	F	10-20	1980-2012	medium	
Croatia	1,500-2,500	<1	2011	medium	?				?				
Cyprus	150-900	<1	2008-2012	good	0	0	2001-2012	medium	+	200-400	1980-2012	medium	
Denmark	62,000	3	2008	good	+	100-1000	2000-2011	good	+	100-1000	1980-2011	good	
France	34,062-79,020	2	2000-2012	good	0	0	2000-2012	good	F	0	1987-2012	good	
Georgia	Present	<1	2012		?				?				
Germany	175,000	8	2000-2005	good	+	8-56	1997-2009	good	+	60-131	1984-2009	good	
Greece	40,691-87,637	3	2007-2013	good	0	0	2004-2013	good	-	4	1982-2013	good	
Iceland	Present	<1	2012		?				?				
Rep. Ireland	56,350	3	2006-2011	medium	-	12	1999-2011	good	-	37	1987-2011	medium	
Italy	106,885-127,726	5	2007-2009	good	0	0	2000-2009	good	+	55-85	1991-2009	good	
FYRO Macedonia	50-150	<1	2001-2012	medium	0	0	2000-2012	medium	-	50-97	1980-2012	medium	
Moldova	20-200	<1	2000-2010	medium	0	5-10	2000-2010	medium	F	10-20	1980-2010	medium	
Montenegro	1,500-4,000	<1	2003-2012	medium	-		2003-2012	medium	-		1991-2012	good	
Netherlands	884,363-1,086,651	44	2006-2010	good	F	0	2000-2011	good	+	7-108	1981-2011	good	
Norway	2,000-4,000	<1	1994-2003	medium	?				?				
Portugal	8,485	<1	2007-2011	medium	0	0	2001-2012	good	0	0	1987-2012	good	
Romania	1,000-6,000	<1	2008-2013	medium	?				?				
Serbia	1,000-2,500	<1	2008-2012	medium	+	5-10	2000-2012	medium	?				
Slovenia	200-500	<1	2008-2012	medium	-	40-60	2001-2012	good	-	40-50	1980-2012	medium	
Spain	31,089-41,573	2	2008-2010	good	0	0	2000-2010	good	-	3	1980-2009	good	
Switzerland	1,016-1,325	<1	2008-2012	good	-	10-21	2001-2012	good	+	186-197	1980-2012	good	
Turkey	10,714-32,132	1	2002-2012	good	F	0	2002-2012	poor	?				
Ukraine	2,000-30,000	<1	1998-2009	medium	F	10-50	1998-2009	medium	F	25-60	1980-2009	medium	

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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	
United Kingdom	450,000	20	2004-2008	good	0	0	1999-2010	good	+	79	1980-2010	good	
EU27	1,910,000-2,260,000	91			Fluctuating								
Europe	1,980,000-2,610,000	100			Fluctuating								

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

⁶ Trend magnitudes are rounded to the nearest integer.

Trend maps

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

KEY

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

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

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

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

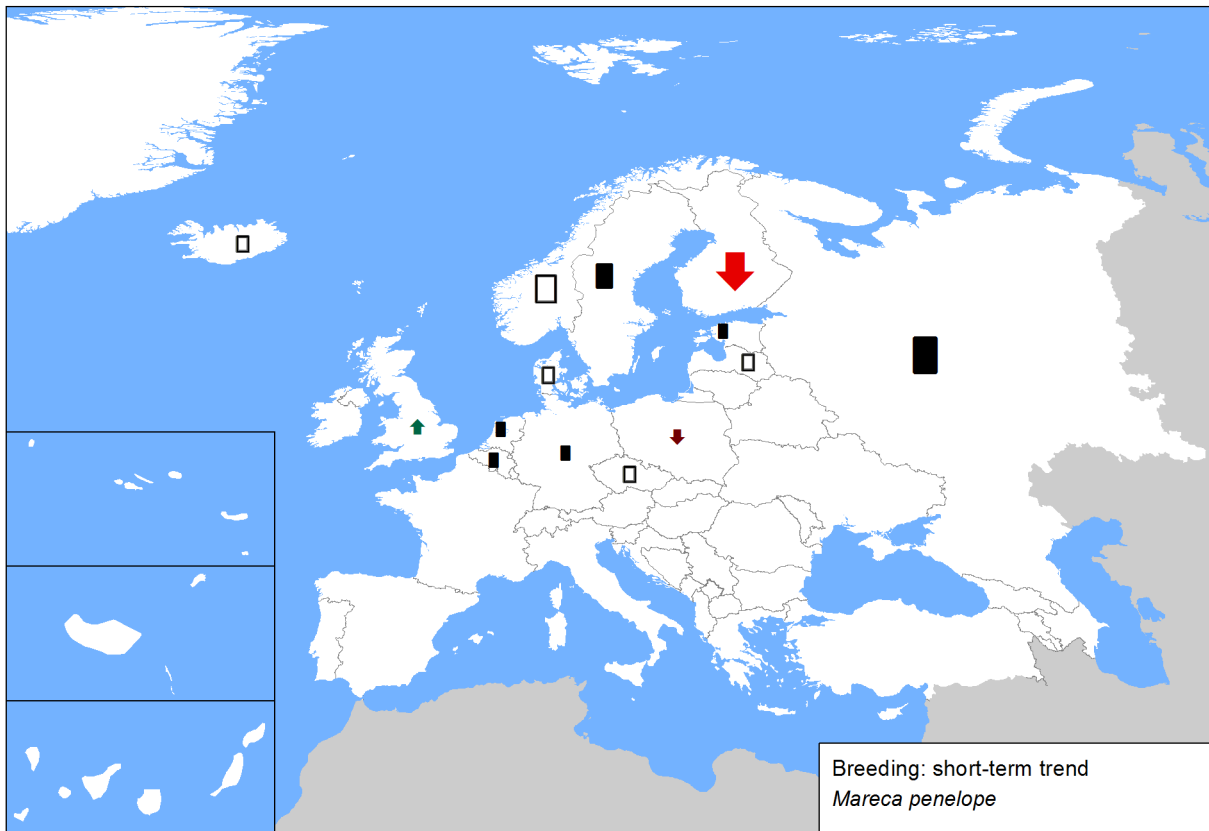
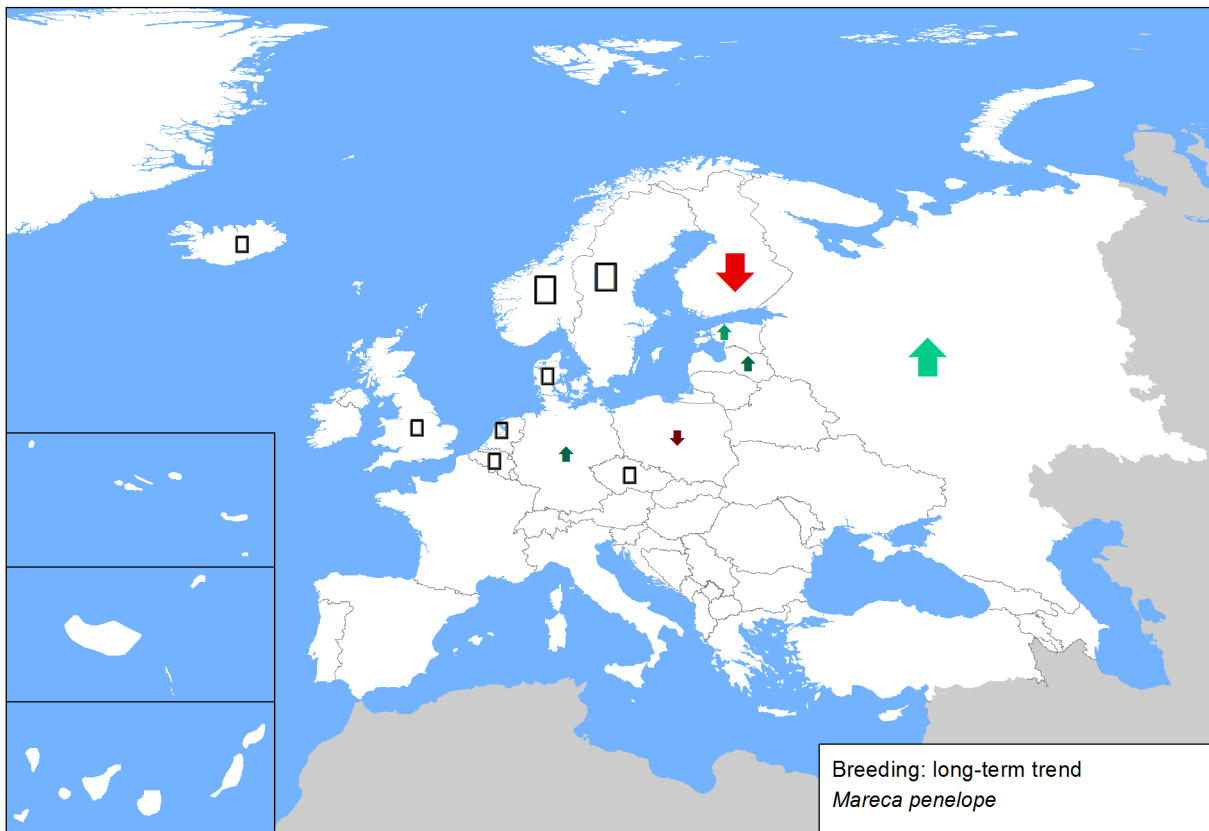


Figure 2. Breeding population sizes and long-term trends across Europe.



Sources

Albania

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

Armenia

Winter population size: ASPB IWC counts
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Austria

Winter population size: BirdLife Austria, unpublished IWC data
Winter short-term trend: BirdLife Austria, unpublished IWC data
Winter long-term trend: BirdLife Austria, unpublished IWC data

Azerbaijan

Winter population size: AOS data base
Winter short-term trend: AOS data base
Winter long-term trend: AOS data base

Belarus

Winter population size: Bogdanovich I.A. - personal communication
Winter short-term trend: Bogdanovich I.A. - personal communication

Belgium

Breeding population size: Data Breeding Bird atlas Wallonia (Jacob et al 2010), Brussels (Weiserbs 2012) and Flanders (Vermeersch et al 2004) in combination with trend data.
Breeding short-term trend: Rare bird panel
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
Winter short-term trend: waterbird database INBO and Aves
Winter long-term trend: waterbird database INBO and Aves

Bosnia and Herzegovina

Winter population size: Kotrošan, D., Dervović, I., 2010: Rezultati zimskog brojanja ptica močvarica u Bosni i Hercegovini za period od 2008. do 2010. godine. Bilten Mreže posmatrača ptica u Bosni i Hercegovini, 6(6): 23-45., Dervović, I. & Kotrošan, D., 2011/2012: Rezultati zimskog brojanja ptica močvarica u Bosni i Hercegovini u 2011. godini. Bilten Mreže posmatrača ptica u Bosni i Hercegovini, 7-8(7-8): 44-55., Topić, G. & Kotrošan, D., 2011/2012: Rezultati Međunarodnog cenzusa ptica vodenih staništa u Bosni i Hercegovini 2012. godine. Bilten Mreže posmatrača ptica u Bosni i Hercegovini, 7-8(7-8): 56-73., Topić, G., 2013: Rezultati Međunarodnog cenzusa ptica vodenih staništa u Bosni i Hercegovini 2013. godine. Bilten Mreže posmatrača ptica u Bosni i Hercegovini, 7-8(7-8): 14-40.
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Bulgaria

Winter population size: Mid-winter count of waterfowl
Winter short-term trend: Statistical analysis made by expert on base of Mid-winter count data
Winter long-term trend: 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.

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
Winter short-term trend: Report on the implementation of AEWA for the period 2009-2011 - Croatia. http://www.unep-aewa.org/en/document/national-report-croatia-2
Winter long-term trend: Report on the implementation of AEWA for the period 2009-2011 - Croatia. http://www.unep-aewa.org/en/document/national-report-croatia-2

Cyprus

Winter population size: Monthly waterbird counts (maxima from Dec, Jan and Feb counts) by BirdLife Cyprus and Game & Fauna Service, as published in BirdLife Cyprus monthly checklists and also by the Game & Fauna Service
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Mareca penelope (Eurasian Wigeon)

Cyprus

Winter short-term trend: For the period 2005-12, based on systematic monthly waterbird counts (maxima from Dec, Jan and Feb counts) by BirdLife Cyprus and Game & Fauna Service, as published in BirdLife Cyprus monthly checklists and also by the Game & Fauna Service. For the period 2001-2004, based on birdwatching records as reported in BirdLife Cyprus annual reports (which included annual January waterbirds counts records)

Winter long-term trend: For the period 2005-12, based on systematic monthly waterbird counts (maxima from Dec, Jan and Feb counts) by BirdLife Cyprus and Game & Fauna Service, as published in BirdLife Cyprus monthly checklists and also by the Game & Fauna Service. For the period 1980-2004, based on birdwatching records as reported in BirdLife Cyprus annual reports (which included annual January waterbirds counts records), also Flint & Stewart BOU Checklist no.6 (1992) The Birds of Cyprus

Czech Republic

Breeding population size: CEPAC et al. 2008: Czech and Slovak Bird Migration Atlas, Aventium, Praha.

Denmark

Breeding population size: Grell, M.B., Heldbjerg, H., Rasmussen, B., Stabell, M., Tofft, J. & T. Vikstrøm (2004): Truede og sjældne ynglefugle i Danmark 1998-2003. Midtvejsrapport fra Dansk Ornitologisk Forenings Arbejdsgruppe for Truede og Sjældne Ynglefugle (DATSY). DOFT 98: 45-100. Ekspertvurdering foretaget af Dansk Ornitologisk Forening på baggrund af tidligere publicerede oplysninger, modtagne oplysninger og data i www.dofbasen.dk (Knud N. Flensted).

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Estonia

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Finland

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France

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

Winter short-term trend: Deceuninck, B., Maillé, N., Ward, A., Dronneau, Ch & Mahéo, R. 2013 Synthèse des dénombrements d'anatidés et de foulques hivernant en France à la mi-janvier 2012, Rochefort, LPO, 43 p.

Winter long-term trend: Deceuninck, B., Maillé, N., Ward, A., Dronneau, Ch & Mahéo, R. 2013 Synthèse des dénombrements d'anatidés et de foulques hivernant en France à la mi-janvier 2012, Rochefort, LPO, 43 p.

Georgia

Winter population size: BirdLife International 2004

Mareca penelope (Eurasian Wigeon)

Germany

Breeding population size: Gedeon, K., C. Grüneberg, A. Mitschke & C. Sudfeldt (in Vorb.): Atlas Deutscher Brutvogelarten. SVD & DDA, Münster.
Breeding short-term trend: Dachverband Deutscher Avifaunisten e.V.
Breeding long-term trend: 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.
Winter short-term trend: Monitoring rastender Wasservögel
Winter long-term trend: Monitoring rastender Wasservögel

Greece

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

Iceland

Breeding population size: Umhverfisráðuneytið 1992

Republic of Ireland

Winter population size: Crowe, O. & Holt, C. (2013) Estimates of waterbird numbers wintering in Ireland, 2006/07 – 2010/11. Irish Birds 9:4.
Winter short-term trend: Crowe, O. (2013) Calculations of short- and long-term trends of wintering waterbirds for Article 12 reporting. Unpublished note. Crowe, O. & Holt, C. (2013) Estimates of waterbird numbers wintering in Ireland, 2006/07 – 2010/11. Irish Birds 9:4.
Winter long-term trend: Crowe, O. (2013) Calculations of short- and long-term trends of wintering waterbirds for Article 12 reporting. Unpublished note. Crowe, O. & Holt, C. (2013) Estimates of waterbird numbers wintering in Ireland, 2006/07 – 2010/11. Irish Birds 9:4. Sheppard, R. (1993) Ireland's Wetland Wealth. Irish Wildbird Conservancy.

Italy

Winter population size: IWC ISPRA
Winter short-term trend: IWC ISPRA
Winter long-term trend: IWC ISPRA 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: 1-240

Latvia

Breeding population size: Viksne J., Svazas S., Czajkowski A., Janaus M., Mischenko A., Kozulin A., Kuresoo A., Serebryakov V. 2010. Atlas of Duck Populations in Eastern Europe. Vilnius: Akstis, 199 pp.
Breeding long-term trend: Strazds M., Priednieks J., Vaverins G. 1994. Latvijas putnu skaits. – Putni daba, 4: 3–18. Viksne J., Svazas S., Czajkowski A., Janaus M., Mischenko A., Kozulin A., Kuresoo A., Serebryakov V. 2010. Atlas of Duck Populations in Eastern Europe. Vilnius: Akstis, 199 pp.

The Former Yugoslav Republic of Macedonia

Winter population size: Wetlands International database, Macedonian Ecological Society unpublished data
Winter short-term trend: Wetlands International database, Macedonian Ecological Society unpublished data
Winter long-term trend: Wetlands International database, Macedonian Ecological Society unpublished data

Moldova

Winter population size: 1.Burfield I., Bommel van F., Birds in Europe. Population estimates, trends and conservation status. BirdLife International. Oxford, 2004. 374p. 3 Postalache Gh., Munteanu A., Potolache D., Cojan C. Rezervația "Prutul de jos". 2012
Winter short-term trend: 1.Burfield I., Bommel van F., Birds in Europe. Population estimates, trends and conservation status. BirdLife International. Oxford, 2004. 374p. 3 Postalache Gh., Munteanu A., Potolache D., Cojan C. Rezervația "Prutul de jos". 2012
Winter long-term trend: 1.Аверин Ю. В., Ганя И.М., Успенский Г. Птицы Молдавии, том 2, Кишинев,1971, 2.Burfield I., Bommel van F., Birds in Europe. Population estimates, trends and conservation status. BirdLife International. Oxford, 2004. 374p. 3 Postalache Gh., Munteanu A., Potolache D., Cojan C. Rezervația "Prutul de jos". 2012

Montenegro

Winter population size: IWC reports (2003-2012): Dubak, Vešović, N., Jovičević, M., Vizi O., Vizi,A.
Winter short-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,
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

Breeding population size: NEM, Sovon en CBS (Boele et al. 2011-2013, van Dijk et al 2010)
Breeding short-term trend: NEM, Sovon en CBS, Boele et al. (2013)
Winter population size: Hornman et al 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

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Norway

Breeding population size: County bird recording committees (LRSK)

Winter population size: Svorkmo-Lundberg, T., Bakken, V., Helberg, M., Mørk, K., Røer, J.E. & Sæbø, S. 2006. Norsk VinterfuglAtlas. Fuglenes utbredelse, bestandsstørrelse og økologi vinterstid. Norsk Ornitologisk Forening, Trondheim. 496 pp.

Poland

Breeding population size: Komisja Faunistyczna 2009. Rzadkie ptaki obserwowane w Polsce w roku 2008. Raport nr 25. Not. Orn. 50: 111–142; Komisja Faunistyczna 2010. Rzadkie ptaki obserwowane w Polsce w roku 2009. Raport nr 26. Ornis Polonica 52: 117–148; Komisja Faunistyczna 2011. Rzadkie ptaki obserwowane w Polsce w roku 2010. Raport nr 27. Ornis Polonica 52: 117–149; Komisja Faunistyczna 2012. Rzadkie ptaki obserwowane w Polsce w roku 2011. Raport nr 28. Ornis Polonica 53: 105–140; Komisja Faunistyczna 2012. Rzadkie ptaki obserwowane w Polsce w roku 2012. Raport nr 29. Ornis Polonica 54: 109–150; http://www.komisjafaunistyczna.pl/kf-en/index_en.html (access date: 09.10.2013)

Breeding short-term trend: Tomiałojć L. & Stawarczyk T. 2003. Awifauna Polski: rozmieszczenie, liczebność i zmiany. PTPP "pro Natura", Wrocław; Komisja Faunistyczna 2009. Rzadkie ptaki obserwowane w Polsce w roku 2008. Raport nr 25. Not. Orn. 50: 111–142; Komisja Faunistyczna 2010. Rzadkie ptaki obserwowane w Polsce w roku 2009. Raport nr 26. Ornis Polonica 52: 117–148; Komisja Faunistyczna 2011. Rzadkie ptaki obserwowane w Polsce w roku 2010. Raport nr 27. Ornis Polonica 52: 117–149; Komisja Faunistyczna 2012. Rzadkie ptaki obserwowane w Polsce w roku 2011. Raport nr 28. Ornis Polonica 53: 105–140; Komisja Faunistyczna 2012. Rzadkie ptaki obserwowane w Polsce w roku 2012. Raport nr 29. Ornis Polonica 54: 109–150; http://www.komisjafaunistyczna.pl/kf-en/index_en.html (access date: 09.10.2013)

Breeding long-term trend: Tomiałojć L. & Stawarczyk T. 2003. Awifauna Polski: rozmieszczenie, liczebność i zmiany. PTPP "pro Natura", Wrocław; Komisja Faunistyczna 2009. Rzadkie ptaki obserwowane w Polsce w roku 2008. Raport nr 25. Not. Orn. 50: 111–142; Komisja Faunistyczna 2010. Rzadkie ptaki obserwowane w Polsce w roku 2009. Raport nr 26. Ornis Polonica 52: 117–148; Komisja Faunistyczna 2011. Rzadkie ptaki obserwowane w Polsce w roku 2010. Raport nr 27. Ornis Polonica 52: 117–149; Komisja Faunistyczna 2012. Rzadkie ptaki obserwowane w Polsce w roku 2011. Raport nr 28. Ornis Polonica 53: 105–140; Komisja Faunistyczna 2012. Rzadkie ptaki obserwowane w Polsce w roku 2012. Raport nr 29. Ornis Polonica 54: 109–150; http://www.komisjafaunistyczna.pl/kf-en/index_en.html (access date: 09.10.2013)

Portugal

Winter population size: Programa Nacional de Monitorização de Aves Aquáticas Invernantes

Winter short-term trend: Programa Nacional de Monitorização de Aves Aquáticas Invernantes

Winter long-term trend: Programa Nacional de Monitorização de Aves Aquáticas Invernantes

Romania

Winter population size: SOR database, International Waterbird Census

Winter short-term trend: SOR database, International Waterbird Census

Winter long-term trend: SOR database, International Waterbird Census

Russia

Breeding population size: Krivenko V.G., Vinogradov V.G. 2008. Birds of the Water Environment and Rhythms of Climate of the Northern Eurasia. Moscow: 588 pp. (in Russian). Viksne J., Svazas S., Czajkowski A., Janaus M., Mischenko A., Kozulin A., Kuresoo A., Serebryakov V. 2010. Atlas of Breeding Duck Populations in Eastern Europe. Vilnius, Akstis: 199 pp. Mineev O.Yu. 2005. Waterfowl of Malozemelskaya Tundra and Pechora River Delta. Ekaterinburg: 161 pp. (in Russian). Mineev Yu.N. 2003. Anseriformes of East-European Tundra. Ekaterinburg: 225 pp. (in Russian).

Breeding short-term trend: Viksne J., Svazas S., Czajkowski A., Janaus M., Mischenko A., Kozulin A., Kuresoo A., Serebryakov V. 2010. Atlas of Breeding Duck Populations in Eastern Europe. Vilnius, Akstis: 199 pp. Mineev Yu.N. Anseriformes of East-European Tundra. Ekaterinburg: 225 pp. (in Russian). Kharitonova I.A., unpublished. ir.kharitonova@gmail.com

Breeding long-term trend: Mineev Yu.N. 2003. Anseriformes of East-European Tundra. Ekaterinburg: 225 pp. (in Russian). Kharitonova I.A., unpublished. ir.kharitonova@gmail.com

Serbia

Winter population size: Šćiban M, Đapčić D, Sekereš O, Đorđević I, Ružić M, Stanković D, Radišić D, Gergelj J, Janković M, Radaković M, Rudić B, Agošton A, Dajović M. & Simić D. (2011): Rezultati Međunarodnog cenzusa ptica vodenih staništa u Srbiji 2012. godine. Ciconia 20: 120–1

Winter short-term trend: Šćiban M, Đapčić D, Sekereš O, Đorđević I, Ružić M, Stanković D, Radišić D, Gergelj J, Janković M, Radaković M, Rudić B, Agošton A, Dajović M. & Simić D. (2011): Rezultati Međunarodnog cenzusa ptica vodenih staništa u Srbiji 2012. godine. Ciconia 20: 120–1

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

Slovenia

Winter population size: <http://www.natura2000.gov.si/index.php?id=211> Božič, L. (2008): Monitoring populacij izbranih vrst ptic – zimsko štetje vodnih ptic 2002-2008. Končno poročilo. Društvo za opazovanje in preučevanje ptic Slovenije, Ljubljana. 167 str. 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. Društvo za opazovanje in preučevanje ptic Slovenije, Ljubljana. 35 str. Božič, L. (2010): Monitoring populacij izbranih ciljnih vrst ptic – zimsko štetje vodnih ptic 2010. Končno poročilo. Društvo za opazovanje in preučevanje ptic Slovenije, Ljubljana. 28 str. Božič, L. (2011): Monitoring populacij izbranih ciljnih vrst ptic – zimsko štetje vodnih ptic 2011. Končno poročilo. Društvo za opazovanje in preučevanje ptic Slovenije, Ljubljana. 28 str. BOŽIČ, L. (2008A): Rezultati januarskega štetja vodnih ptic leta 2008 v Sloveniji. – Acrocephalus 29 (136): 39–49. BOŽIČ, L. (2008B): Rezultati januarskega štetja vodnih ptic leta 2009 v Sloveniji. – Acrocephalus 29 (138/139): 169–179. BOŽIČ, L. (2010): Rezultati januarskega štetja vodnih ptic leta 2010 v Sloveniji. – Acrocephalus 31 (145/146): 131–141. BOŽIČ, L. (2011): Rezultati januarskega štetja vodnih ptic leta 2011 v Sloveniji. – Acrocephalus 32 (148/149): 67–77. BOŽIČ, L. (2012): Rezultati januarskega štetja vodnih ptic leta 2012 v Sloveniji. – Acrocephalus 33 (152/153): 109–119.

Winter short-term trend: DOPPS

Winter long-term trend: SOVINC, A. (1994): Zimski ornitološki atlas Slovenije. – Tehniška založba Slovenije, Ljubljana. ŠKORNIK I. (2012): Favnišični in ekološki pregled ptic Sečoveljskih solin. – Soline predelava soli, Seča.

Spain

Winter population size: SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/BirdLife. Madrid. 816 pp. http://www.magrama.gob.es/es/biodiversidad/publicaciones/atlas_aves_invierno_tcm7-291664.pdf

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Spain

Winter short-term trend: SEO/BirdLife (2012). Programa de seguimiento de Avifauna de SEO/BirdLife 2011. SEO/BirdLife. Madrid. 35 pp. Información obtenida a partir de la Base de Datos del Inventario de especies terrestres. Censo de Aves Acuáticas Invernantes (Ministerio de Agricultura, Alimentación y Medio Ambiente). http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/censos_aves_acuaticas_invernantes.aspx

Winter long-term trend: González, R. & Pérez-Aranda, D. (2011). Las aves acuáticas en España, 1980-2009. SEO/BirdLife, Madrid, 338 pp.

Sweden

Breeding population size: Ottosson, U., Ottvall, R., Elmberg, J., Green, M., Gustafsson, R., Haas, F., Holmqvist, N., Lindström, Å., Nilsson, L., Svensson, M., Svensson, S. & Tjernberg, M. 2012. Fåglarna i Sverige - antal och förekomst. Sveriges Ornitologiska Förening, Halmstad.

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

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

Switzerland

Winter population size: Swiss Ornithological Institute. Winter waterbird census (January). <http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html> Min Max of total count

Winter short-term trend: Swiss Ornithological Institute. Winter waterbird census (January). <http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html> Min Max refer to 95% Confidence interval.

Winter long-term trend: Swiss Ornithological Institute. Winter waterbird census (January). <http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html> Min Max refer to 95% Confidence interval.

Turkey

Winter population size: Kurt, B., Ozbagdatli, N., Bozkurt, A.K., Arslangundođdu, Z. ve Gursoy, A. 2002. Türkiye Sulakalanları Kıs Ortası Sucusu Sayımı, Doğal Hayatı Koruma Derneđi, İstanbul, Türkiye. Çağlayan, E., Kılıç, D.T., Per, E. ve Gem, E. 2005. Türkiye Kıs Ortası Sucusu Sayımları 2005. Dođa Derneđi, Ankara, Turkey Suseven, B., Onmus, O. ve İsfendiyarođlu, S. 2006. Kıs Ortası Sucusu Sayımı (KOSK) Raporu, Dođa Derneđi, Ankara Onmus, O. 2007. Türkiye Kıs Ortası Sucusu Sayımları 2007, Dođa Derneđi, Ankara Akarsu, F. ve Balkız, Ö. 2010. Türkiye Kıs Ortası Sucusu Sayımları 2008-2009-2010, Dođa Derneđi, Ankara Erciyas Yavuz, K., Kartal E. 2011. Türkiye Kıs Ortası Sucusu Sayımları, 2011, Ornitoloji Arařtırma Merkezi, Samsun Erciyas Yavuz, K., İsfendiyaroglu S. 2013. 2012 Türkiye Kıs Ortası Sucusu Sayımları, Dođa Derneđi, Ankara Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no: 12) www.kusbank.org

Winter short-term trend: Dođa Derneđi

Ukraine

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