



THE IUCN RED LIST
OF THREATENED SPECIES™



Mergus merganser (Goosander)

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.

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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	2-5	<1	2002-2012	poor	0	0	2002-2012	poor	-	10-20	1980-2012	poor	
Austria	160-220	<1	2001-2012	medium	0	0	2001-2012	medium	+	50-100	1980-2012	poor	M. m. merganser, other populations
Belarus	60-70	<1	2008-2012	medium	+	29-33	2001-2012	medium	+	29-33	1980-2012	medium	
Bosnia & HG	5-10	<1	2010-2014	poor	+	5-10	2001-2012	poor	+	5-10	1980-2013	poor	
Croatia	4-10	<1	2010	good	+	100	2002-2012	good	?				
Czech Rep.	2-11	<1	2001-2003	good	?				+	200-1000	1985-2003	medium	M. m. merganser, other populations
Denmark	62-70	<1	2011	good	+	50-100	1999-2011	medium	+	100-1000	1980-2011	medium	M. m. merganser, other populations
Estonia	1,500-2,000	2	2008-2012	poor	0	0-10	2001-2012	poor	-	20-50	1980-2012	poor	M. m. merganser, other populations
Finland	20,000-30,000	30	2006-2010	medium	-	31-45	2001-2012	good	-	37-49	1980-2012	good	M. m. merganser, other populations
France	250-400	<1	2009	medium	+	30-90	2000-2010	good	+	90-170	1980-2010	good	M. m. merganser, other populations
Germany	950-1,100	1	2005-2009	good	+	11-40	1998-2009	medium	+	31-400	1985-2009	medium	M. m. merganser, other populations
Greece	11-23	<1	2011-2013	good	0	0	2001-2012	good	0	0	1980-2012	medium	M. m. merganser, other populations
Hungary	1	<1	2004-2012	good	0	0	2004-2012	good					M. m. merganser, other populations
Iceland	100-300	<1	1990	poor	?				?				
Rep. Ireland	0-5	<1	2008-2011	medium	0	0	2000-2011	medium	0	0	1980-2011	medium	M. m. merganser, other populations
Italy	22-29	<1	2008	good	+		2001-2012		+	2100-2800	1996-2008	good	M. m. merganser, other populations
Latvia	440-1,164	1	2000-2004	good	?				?				M. m. merganser, other populations
Lithuania	1,000-2,000	2	2008-2012	medium	+	5-20	2001-2012	medium	+	5-20	1980-2012	medium	M. m. merganser, other populations
FYRO Macedonia	30-50	<1	2001-2012	medium	0	0	2001-2012	medium	?				
Norway	1,000-5,000	3	2013	poor	?				?				
Poland	1,500-2,000	2	2008-2012	medium	+	70-100	1995-2012	medium	+	190-200	1980-2012	medium	M. m. merganser, other populations
Romania	20-50	<1	2008-2013	medium	+	5-10	2000-2012	poor	?				M. m. merganser, North-east Europe/Black Sea
Russia	9,000-12,000	13	2002-2010	poor	+	3-20	1996-2006	poor	+	5-20	1980-2010	poor	
Serbia	50-70	<1	2008-2012	medium	+	30	2000-2012	good	+		1980-2012	medium	
Slovakia	0-10	<1	2000-2012	medium	+	20-50	2000-2012	medium	+	50-100	1980-2012	medium	M. m. merganser, other populations
Slovenia	45-80	<1	2002-2012	medium	+	20-50	2001-2012	medium	+	200-400	1980-2012	medium	M. m. merganser, other populations
Sweden	27,000-42,000	41	2008-2012	medium	0	0	2001-2012	good	+	25-55	1980-2012	medium	M. m. merganser, other populations
Switzerland	500-700	1	2008-2012	medium	+	22-36	2001-2012	medium	+	66-105	1990-2012	medium	
Ukraine	10-25	<1	2000	medium	+	20-50	2001-2012	medium	+	25-60	1980-2012	medium	
United Kingdom	3,100-3,800	4	2009	medium	+	28	1990-2006	good	+	130	1970-2006	good	M. m. merganser, other populations
EU27	56,100-85,000	83			Decreasing								
Europe	66,800-103,000	100			Stable								

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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	

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.

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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	
Albania	1-3	<1	2002-2012	medium	0	0	2002-2012	medium	?				
Armenia	1-160	<1	2003-2013	good	?				?				
Austria	1,400-1,500	1	2008-2010	good	+	10-30	2001-2012	good	+	100-200	1980-2012	medium	
Azerbaijan	100-500	<1	1996-2002	medium	?				?				
Belarus	400-800	<1	2009-2013	good	0	0	2000-2012	medium	F	0-100	1980-2012	medium	
Belgium	459-753	<1	2008-2012	good	?				-	1-4	1992-2012	good	
Bosnia & HG	200-600	<1	2008-2013	medium	0	0	2000-2013	medium	?				
Bulgaria	1-85	<1	2000-2012	good	F	10-100	2000-2012	good	F	5-95	1980-2012	good	
Croatia	5-50	<1	2014	poor	F	0-900	2010-2013	poor	F	0-900	1988-2013	poor	
Czech Rep.	3,279	2	2011	medium	+	64	2000-2011	medium	+	119	1980-2011	medium	
Denmark	13,850	9	2008	good	0	0-25	2000-2011	good	-	33-50	1980-2011	good	
Estonia	4,000-9,000	4	2008-2012	medium	0	0-10	2001-2012	medium	+	50-70	1980-2012	medium	
Finland	8,200-22,000	8	2007-2012	medium	+	59-153	2001-2012	good	+	127-230	1983-2012	good	
France	1,841	1	2008-2012	good	+	58-127	2000-2012	good	+	141-220	1980-2012	good	
Georgia	Present	<1	2012		?				?				
Germany	37,000	23	2000-2005	good	-	2-42	1997-2009	good	F	0	1984-2009	good	
Greece	15-58	<1	2007-2013	good	?				?				
Iceland	Present	<1	2012		?				?				
Latvia	1,500-12,000	3	2001-2012	medium	F	0	2001-2012	medium	0	0	1984-2012	medium	
Lithuania	1,500-5,000	2	2010-2012	good	-	40-50	2001-2012	medium	-	60-80	1980-2012	medium	
Luxembourg	100-150	<1	2008-2012	medium	F	15-35	2000-2012	medium	+	200-400	1980-2012	poor	
FYRO Macedonia	20-150	<1	2001-2012	medium	0	0	2001-2012	medium	0	0	1980-2012	medium	
Moldova	20-180	<1	2000-2010	medium	+	5-10	2000-2010	medium	F	0	1980-2010	medium	
Montenegro	0-5	<1	2003-2012	medium	?				?				
Netherlands	5,368-23,224	7	2006-2010	good	F	0	2000-2011	good	-	17-80	1981-2011	good	
Norway	4,000	3	1994-2003	medium	?				?				
Poland	19,000-20,000	12	2011-2012	medium	?				F	0	1985-2012	medium	
Romania	150-500	<1	2008-2013	medium	F	0-20	2000-2013	medium	?				
Russia	4,700-8,700	4	2007-2010	medium	F	0	2002-2012	medium	?				
Serbia	350-700	<1	2008-2012	medium	+	5-10	2000-2012	medium	?				
Slovakia	500-1,300	1	2011	good	+	75-80	2000-2012	good	+	100-300	1980-2012	medium	

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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	
Slovenia	400-580	<1	2008-2012	medium	+	10-30	2001-2012	good	+	30-50	1980-2012	medium	
Sweden	9,000-17,000	8	2008-2012	good	-	10-50	2001-2012	good	-	20-60	1980-2012	good	
Switzerland	4,047-5,073	3	2008-2012	good	+	29-35	2001-2012	good	+	28-30	1980-2012	good	
Turkey	1-20	<1	2002-2012	good	?				?				
Ukraine	900-1,500	1	1998-2009	medium	F	10-20	1998-2009	medium	F	15-30	1980-2009	medium	
United Kingdom	12,000	8	2004-2008	medium	-	8	1999-2010	good	+	25	1980-2010	good	
EU27	120,000-181,000	89			Decreasing								
Europe	134,000-204,000	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>.

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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.

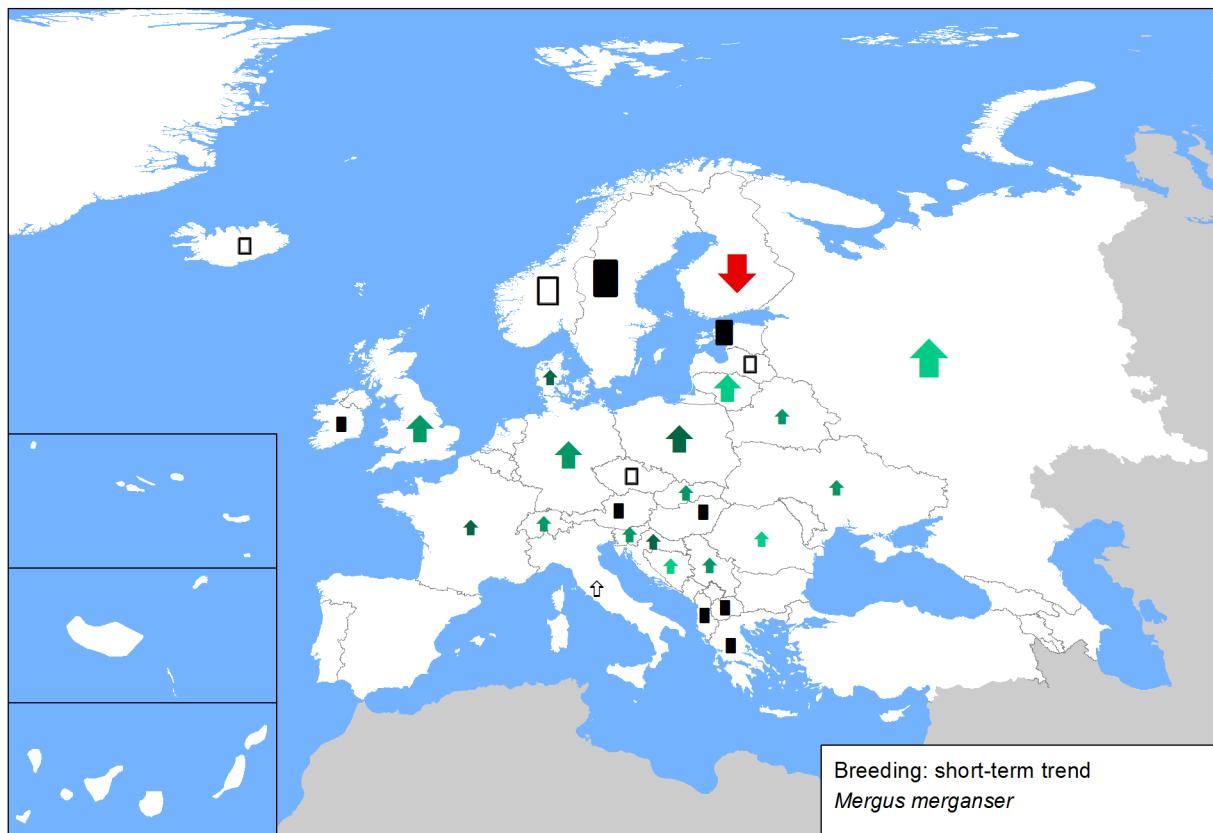


Figure 2. Breeding population sizes and long-term trends across Europe.

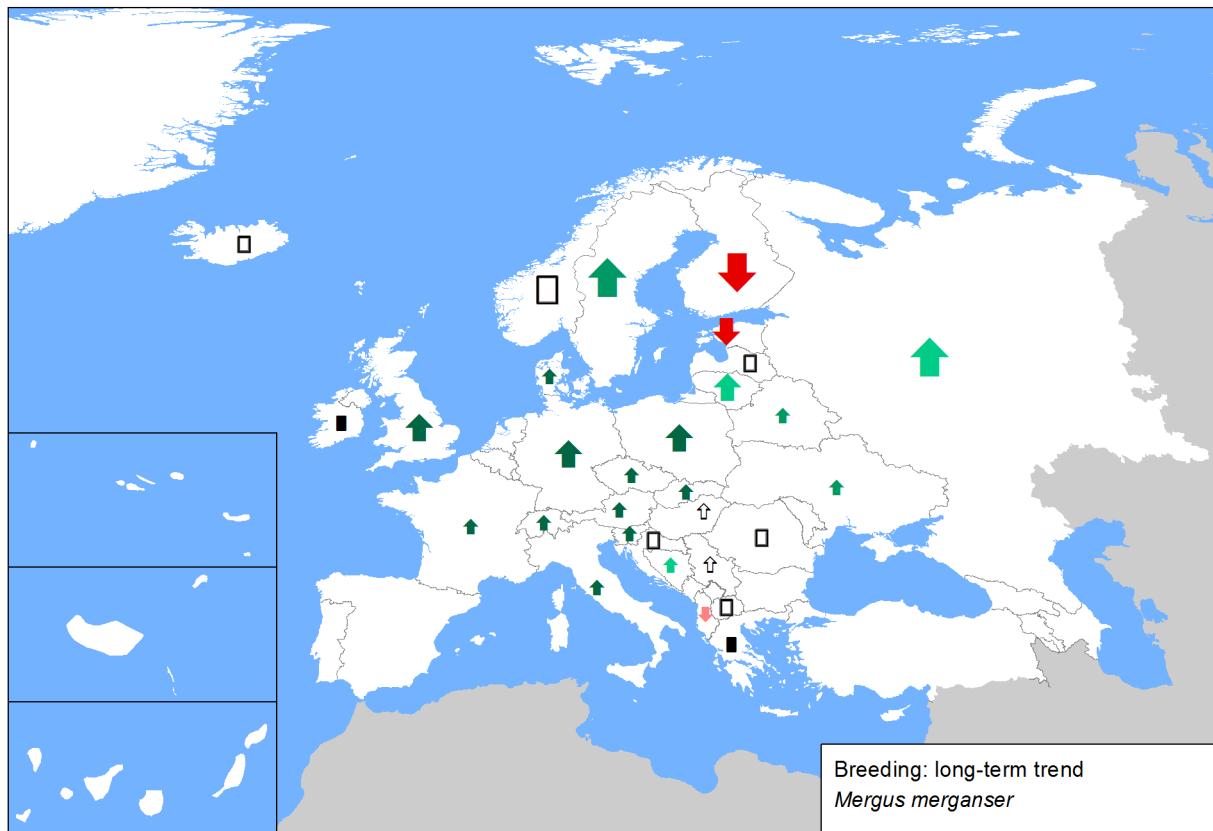


Figure 3. Reported wintering population sizes and short-term trends across Europe. Note that some countries within the species' wintering range did not report any data.

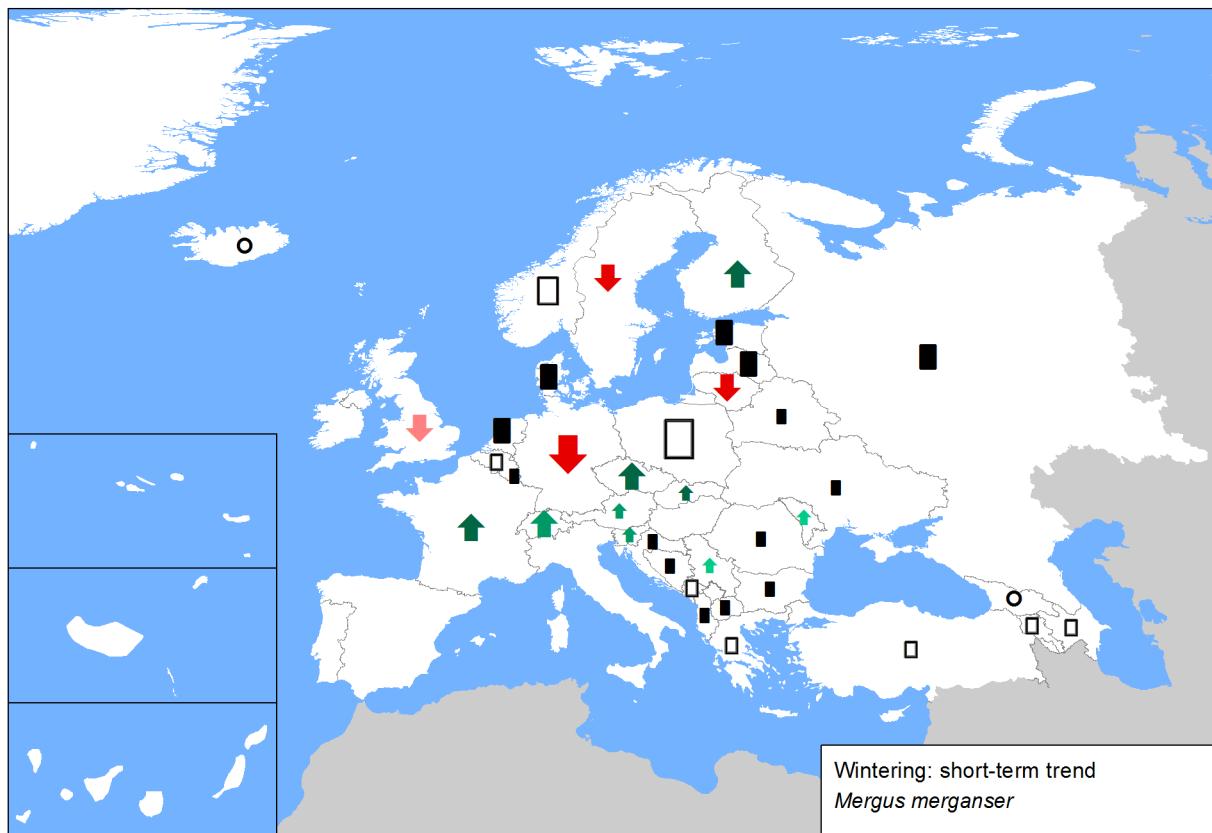
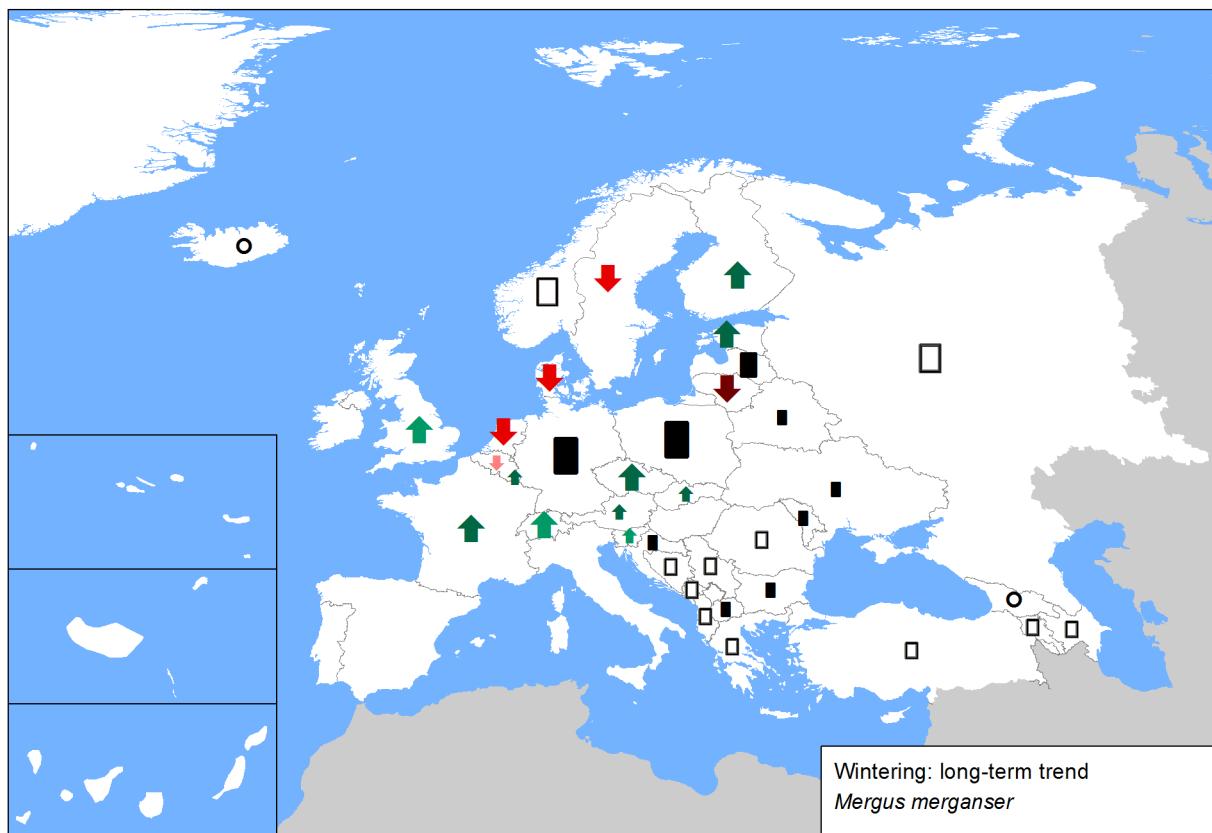


Figure 4. Reported wintering population sizes and long-term trends across Europe. Note that some countries within the species' wintering range did not report any data.



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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.

Armenia

Winter population size: ASPB IWC counts

Austria: M. m. merganser, other populations

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

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

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: BirdLife International 2004

Belarus

Breeding population size: Kozulin A.V. - personal communication

Breeding short-term trend: Kozulin A.V. - personal communication

Breeding long-term trend: Nikiforov M.E., Kozulin A.V., eds. Belarussian birds at the beginning of XXI century: status, numbers, distribution. - 1997. - Minsk. - 187 p.

Winter population size: Bogdanovich I.A. - personal communication

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: M. m. merganser, other populations

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

Breeding population size: Marinković, S., Skorić, S., Popović, Z. & Nikčević, M., 2008: Research on long-term colonization of Goosander (*Mergus merganser* Linneaus, 1758) with reference to habitat availability. Archives of Biological Science, 60 (3): 501-506.

Breeding short-term trend: unpublisht data

Breeding long-term trend: unpublisht data

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 brojana 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.

Winter short-term trend: Dervović, I. 2005: Rezultati januarskog brojanja vodenih ptica 1998-2005. Bilten Mreže posmatrača ptica u Bosni i Hercegovini, 1(1): 43-45.

Dervović, I. 2006: Rezultati zimskog prebrojavanja ptica močvarica u Bosni i Hercegovini u 2006. godini. Bilten Mreže posmatrača ptica u Bosni i Hercegovini, 2(2): 20-22.

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Bulgaria: M. m. merganser, North-east Europe/Black Sea

Winter population size: BSPB GIS related ornithological database IWC counts in Bulgaria

Winter short-term trend: BSPB GIS related ornithologiacal database

Winter long-term trend: BSPB GIS related ornithological database

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Croatia

Breeding population size: Tutiš, V., Kralj, J., Radović, D., Ćiković, D. i Barišić, S. (2013): Crvena knjiga ptica Republike Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode
Breeding short-term trend: Tutiš, V., Kralj, J., Radović, D., Ćiković, D. i Barišić, S. (2013): Crvena knjiga ptica Republike Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode
Breeding long-term trend: Tutiš, V., Kralj, J., Radović, D., Ćiković, D. i Barišić, S. (2013): Crvena knjiga ptica Republike Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode
Winter population size: International Waterbird Census Count Totals 2010 - 2013: African-Eurasian region (http://www.wetlands.org/LinkClick.aspx?fileticket=0YKYRi11%2f0k%3d&tabid=3044)
Winter short-term trend: International Waterbird Census Count Totals 2010 - 2013: African-Eurasian region (http://www.wetlands.org/LinkClick.aspx?fileticket=0YKYRi11%2f0k%3d&tabid=3044)
Winter long-term trend: International Waterbird Census Count Totals 2010 - 2013: African-Eurasian region (http://www.wetlands.org/LinkClick.aspx?fileticket=0YKYRi11%2f0k%3d&tabid=3044)

Czech Republic: M. m. merganser, other populations

Breeding population size: STASTNY K., BEJCEK V. & HUDEC K. 2006: Atlas hnízdního rozšírení ptáků v České republice. Aventinum Praha.
Breeding long-term trend: STASTNY K., BEJCEK V. & HUDEC K. 2006: Atlas hnízdního rozšírení ptáků v České republice. Aventinum Praha.
Winter population size: MUSIL P. & MUSILOVA Z. 2011: Aythya 4, Univerzita Karlova v Praze, Praha.
Winter short-term trend: MUSIL P. & MUSILOVA Z. 2011: Aythya 4, Univerzita Karlova v Praze, Praha.
Winter long-term trend: MUSIL P. & MUSILOVA Z. 2011: Aythya 4, Univerzita Karlova v Praze, Praha.

Denmark: M. m. merganser, other populations

Breeding population size: Nyegaard et al. (2014): Truede og sjældne ynglefugle i Danmark 1998-2012 - With a summary in English: Rare and threatened breeding birds in Denmark 1998-2012. DOFT 108(1). In prep.
Breeding short-term trend: Nyegaard et al. (2014): Truede og sjældne ynglefugle i Danmark 1998-2012 - With a summary in English: Rare and threatened breeding birds in Denmark 1998-2012. DOFT 108(1). In prep. Nyegaard, T. (2012): Truede og sjældne ynglefugle i Danmark 2011. Trykt hos Svendborg Tryk Eskildsen, A. & T. Vikstrøm. (2010): Truede og sjældne ynglefugle i Danmark 2010. Dansk Ornitoligisk Forening. Nyegaard, T. & M.B. Grell (2009): Truede og sjældne ynglefugle i Danmark 2008. Dansk Ornitoligisk Forening. Nyegaard, T. & M.B. Grell (2008): Truede og sjældne ynglefugle i Danmark 2007. Dansk Ornitoligisk Forening. Nyegaard, T. & M.B. Grell (2007): Truede og sjældne ynglefugle i Danmark 2006. Dansk Ornitoligisk Forening. Nyegaard, T. & M.B. Grell (2006): Truede og sjældne ynglefugle i Danmark 2005. DOFT 100: 11-28. Nyegaard, T. & M.B. Grell (2005): Truede og sjældne ynglefugle i Danmark 2004. DOFT 99: 88-106. Grell, M.B., Heldbjerg, H., Rasmussen, B., Stabell, M., Toft, J. & T. Vikstrøm (2004): Truede og sjældne ynglefugle i Danmark 1998-2003. Midtvejsrapport fra Dansk Ornitoligisk Forenings Arbejdsguppe for Truede og Sjældne Ynglefugle (DATSY). DOFT 98: 45-100.
Breeding long-term trend: Nyegaard et al. (2014): Truede og sjældne ynglefugle i Danmark 1998-2012 - With a summary in English: Rare and threatened breeding birds in Denmark 1998-2012. DOFT 108(1). In prep. Nyegaard, T. (2012): Truede og sjældne ynglefugle i Danmark 2011. Trykt hos Svendborg Tryk Eskildsen, A. & T. Vikstrøm. (2010): Truede og sjældne ynglefugle i Danmark 2010. Dansk Ornitoligisk Forening. Nyegaard, T. & M.B. Grell (2009): Truede og sjældne ynglefugle i Danmark 2008. Dansk Ornitoligisk Forening. Nyegaard, T. & M.B. Grell (2008): Truede og sjældne ynglefugle i Danmark 2007. Dansk Ornitoligisk Forening. Nyegaard, T. & M.B. Grell (2007): Truede og sjældne ynglefugle i Danmark 2006. Dansk Ornitoligisk Forening. Nyegaard, T. & M.B. Grell (2006): Truede og sjældne ynglefugle i Danmark 2005. DOFT 100: 11-28. Nyegaard, T. & M.B. Grell (2005): Truede og sjældne ynglefugle i Danmark 2004. DOFT 99: 88-106. Grell, M.B., Heldbjerg, H., Rasmussen, B., Stabell, M., Toft, J. & T. Vikstrøm (2004): Truede og sjældne ynglefugle i Danmark 1998-2003. Midtvejsrapport fra Dansk Ornitoligisk Forenings Arbejdsguppe for Truede og Sjældne Ynglefugle (DATSY). DOFT 98: 45-100. Grell, Michael Borch (1998): Fuglenes Danmark. Gads forlag i samarbejde med Dansk Ornitoligisk Forening. Dybbro, Tommy (1976): De danske ynglefugles udbredelse. Dansk Ornitoligisk Forening.
Winter population size: Pihl, S., Clausen, P., Petersen, I.K., Nielsen, R.D., Laursen, K., Bregnalle, T., Holm, T.E. & Søgaard, B. (2013): Fugle 2004-2011. NOVANA. Aarhus Universitet, DCE - Nationalt Center for Miljø og Energi. - Videnskabelig rapport fra DCE nr. 49. 188 s.
Winter short-term trend: Pihl, S., Clausen, P., Petersen, I.K., Nielsen, R.D., Laursen, K., Bregnalle, T., Holm, T.E. & Søgaard, B. (2013): Fugle 2004-2011. NOVANA. Aarhus Universitet, DCE - Nationalt Center for Miljø og Energi. - Videnskabelig rapport fra DCE nr. 49. 188 s.
Winter long-term trend: Pihl, S., Clausen, P., Petersen, I.K., Nielsen, R.D., Laursen, K., Bregnalle, T., Holm, T.E. & Søgaard, B. (2013): Fugle 2004-2011. NOVANA. Aarhus Universitet, DCE - Nationalt Center for Miljø og Energi. - Videnskabelig rapport fra DCE nr. 49. 188 s.

Estonia: M. m. merganser, other populations

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. Hirundo 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. Hirundo 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. Hirundo 26(2): 80-112. URL: http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf
Winter 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. Hirundo 26(2): 80-112. URL: http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf
Winter 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. Hirundo 26(2): 80-112. URL: http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf
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Finland: M. m. merganser, other populations

Breeding population size: Väistönen, Risto A., Harjo, Martti & Saurola, Pertti 2011: Population estimates of Finnish birds. In: Valkama, Jari, Vepsäläinen, Ville & Lehikoinen, Aleksi 2011: The Third Finnish Breeding Bird Atlas. – Finnish Museum of Natural History and Ministry of Environment. (cited [15.11.2013]) ISBN 978-952-10-7145-4.
Breeding short-term trend: Archipelago Bird Census data and Monitoring of Breeding Waterfowl data combined.

Mergus merganser (Goosander)

Finland: M. m. merganser, other populations

Breeding long-term trend: Archipelago Bird Census data and Monitoring of Breeding Waterfowl data combined. Pöysä, H., Rintala, J., Lehtinen, A., & Väistönen, R. A. 2013: The importance of hunting pressure, habitat preference and life history for population trends of breeding waterbirds in Finland. European Journal of Wildlife Research 59:245-256. doi:10.1007/s10344-012-0673-8 Hario, M. & Rintala, J. 2011: Population trends of the archipelago birds along Finnish coasts during 1986–2010. – Linnut-vuosikirja 2010: 40–51. (in Finnish with English summary)

Winter population size: BirdLife Finland 2013: Regional observation summary database of Finnish Birdwatching societies on wintering bird species.

Winter short-term trend: Winter bird censuses of the Finnish Museum of Natural History, University of Helsinki.

Winter long-term trend: Winter bird censuses of the Finnish Museum of Natural History, University of Helsinki.

France: M. m. merganser, other populations

Breeding population size: 2013 Avis d'expert sur les effectifs et tendances du Harle bièvre (nidification)

Breeding short-term trend: 2013 Avis d'expert sur les effectifs et tendances du Harle bièvre (nidification)

Breeding long-term trend: 2013 Avis d'expert sur les effectifs et tendances du Harle bièvre (nidification)

Winter population size: LPO - Wetlands International 2012 Base de données des dénominations d'oiseaux d'eau « Wetlands International » 1980-2012 réalisées à la mi-janvier, LPO - BirdLife France, Rochefort

Winter short-term trend: LPO - Wetlands International 2012 Base de données des dénominations d'oiseaux d'eau « Wetlands International » 1980-2012 réalisées à la mi-janvier, LPO - BirdLife France, Rochefort

Winter long-term trend: LPO - Wetlands International 2012 Base de données des dénominations d'oiseaux d'eau « Wetlands International » 1980-2012 réalisées à la mi-janvier, LPO - BirdLife France, Rochefort

Georgia

Winter population size: BirdLife International 2004

Germany: M. m. merganser, other populations

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: M. m. merganser, other populations

Breeding population size: Catsadorakis, Nikolaou, Avramoski, Bojadzii (in prep.) Status of the isolated Goosander *Mergus merganser* Balkan population at lakes Prespa.

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).

Breeding long-term trend: Handrinos, G. & Akriotis, T. 1997. The Birds of Greece. Helm.

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: M. m. merganser, other populations

Breeding population size: MME Nomenclator Bizottság (2008): Magyarország madarainak névjegyzéke. Nomenclator avium Hungariae. Magyar Madártani és Természetvédelmi Egyesület, Budapest. p. 278. Annual reports of the Hungarian Checklist and Rarities Committee. Barabás, L. (2013): Breeding distribution of Hungarian Duck species. Hungarian Waterfowl Publications 23: 79-120.

Breeding short-term trend: MME Nomenclator Bizottság (2008): Magyarország madarainak névjegyzéke. Nomenclator avium Hungariae. Magyar Madártani és Természetvédelmi Egyesület, Budapest. p. 278. Annual reports of the Hungarian Checklist and Rarities Committee. Barabás, L. (2013): Breeding distribution of Hungarian Duck species. Hungarian Waterfowl Publications 23: 79-120.

Breeding long-term trend: First breeding in 2004: MME Nomenclator Bizottság (2008): Magyarország madarainak névjegyzéke. Nomenclator avium Hungariae. Magyar Madártani és Természetvédelmi Egyesület, Budapest. p. 278. Annual reports of the Hungarian Checklist and Rarities Committee. Barabás, L. (2013): Breeding distribution of Hungarian Duck species. Hungarian Waterfowl Publications 23: 79-120.

Iceland

Breeding population size: Umhverfisráðuneytið 1992

Republic of Ireland: M. m. merganser, other populations

Breeding population size: Hillis, J.P. (2003) Rare Irish Breeding Birds, 1992-2001. Irish Birds, Vol 7, No.2: 157-172. Hillis, J. P. (2004) First Annual Report of the Irish Rare Breeding Birds Panel, 2002. Irish Birds 7: 375-384 Hillis, J. P (2005) Rare breeding birds in Ireland, 2003 The Second Annual Report of the Irish Rare Breeding Birds Panel (IRBBP). Irish Birds 7: 539-548 Hillis, J.P. (2006) Rare Irish Breeding Birds, 2004 The Third Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 8: 97-106 Hillis, J.P. (2007) Rare Breeding Birds in Ireland 2005 and 2006. Irish Birds 8: 249-262 Hillis, J.P. (2008) Rare Irish Breeding Birds, 2007 The Seventh Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 8: 365-372 Hillis, J.P. (2009) Rare Irish Breeding Birds, 2008 The Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 8: 571-582. Hillis, J.P. (2010) Rare Irish Breeding Birds, 2009 The Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 9: 67-76 Hillis, J.P. (2011) Rare Irish Breeding Birds, 2010 The Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 9: 241-250 Hillis, J.P. (2012) Rare Irish Breeding Birds, 2011 The Annual Report of the Irish Rare Birds Panel (IRBBP) Irish Birds 9: 411-420

Mergus merganser (Goosander)

Republic of Ireland: M. m. merganser, other populations

Breeding short-term trend: Hillis, J.P. (2003) Rare Irish Breeding Birds, 1992-2001. Irish Birds, Vol 7, No.2: 157-172. Hillis, J. P. (2004) First Annual Report of the Irish Rare Breeding Birds Panel, 2002. Irish Birds 7: 375-384 Hillis, J. P (2005) Rare breeding birds in Ireland, 2003 The Second Annual Report of the Irish Rare Breeding Birds Panel (IRBBP). Irish Birds 7: 539-548 Hillis, J.P. (2006) Rare Irish Breeding Birds, 2004 The Third Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 8: 97-106 Hillis, J.P. (2007) Rare Breeding Birds in Ireland 2005 and 2006. Irish Birds 8: 249-262 Hillis, J.P. (2008) Rare Irish Breeding Birds, 2007 The Seventh Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 8: 365-372 Hillis, J.P. (2009) Rare Irish Breeding Birds, 2008 The Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 8: 571-582. Hillis, J.P. (2010) Rare Irish Breeding Birds, 2009 The Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 9: 67-76 Hillis, J.P. (2011) Rare Irish Breeding Birds, 2010 The Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 9: 241-250 Hillis, J.P. (2012) Rare Irish Breeding Birds, 2011 The Annual Report of the Irish Rare Birds Panel (IRBBP) Irish Birds 9: 411-420

Breeding long-term trend: Hutchinson, C.D. (1989) Birds in Ireland. Irish Wildbird Conservancy. T & A D Poyser. Hillis, J.P. (2003) Rare Irish Breeding Birds, 1992-2001. Irish Birds, Vol 7, No.2: 157-172. Hillis, J. P. (2004) First Annual Report of the Irish Rare Breeding Birds Panel, 2002. Irish Birds 7: 375-384 Hillis, J. P (2005) Rare breeding birds in Ireland, 2003 The Second Annual Report of the Irish Rare Breeding Birds Panel (IRBBP). Irish Birds 7: 539-548 Hillis, J.P. (2006) Rare Irish Breeding Birds, 2004 The Third Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 8: 97-106 Hillis, J.P. (2007) Rare Breeding Birds in Ireland 2005 and 2006. Irish Birds 8: 249-262 Hillis, J.P. (2008) Rare Irish Breeding Birds, 2007 The Seventh Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 8: 365-372 Hillis, J.P. (2009) Rare Irish Breeding Birds, 2008 The Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 8: 571-582. Hillis, J.P. (2010) Rare Irish Breeding Birds, 2009 The Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 9: 67-76 Hillis, J.P. (2011) Rare Irish Breeding Birds, 2010 The Annual Report of the Irish Rare Breeding Birds Panel (IRBBP) Irish Birds 9: 241-250 Hillis, J.P. (2012) Rare Irish Breeding Birds, 2011 The Annual Report of the Irish Rare Birds Panel (IRBBP) Irish Birds 9: 411-420

Italy: M. m. merganser, other populations

Breeding population size: Zenatello M, Bordignon L, Ventolini N, Utmar P & Viganò E. 2009. Lo smergo maggiore *Mergus merganser* nidificante in Italia: 1996-2008. Alula XVI (1-2): 491-496.

Breeding short-term trend: Started to breed in Italy in 1996 (one pair); in 2008, 22 breeding pairs and 7 territorial pairs (probably unsuccesful breeding pairs) (Zenatello et al. 2009).

Breeding long-term trend: Zenatello M, Bordignon L, Ventolini N, Utmar P & Viganò E. 2009. Lo smergo maggiore *Mergus merganser* nidificante in Italia: 1996-2008. Alula XVI (1-2): 491-496

Latvia: M. m. merganser, other populations

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

Winter population size: WI IWC

Winter short-term trend: WI IWC

Winter long-term trend: WI IWC

Lithuania: M. m. merganser, other populations

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.

Breeding short-term trend: 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. Raudonikis L. 2004. Lithuania. In: Birds in Europe: population estimates, trends, and conservation status. BirdLife International, BirdLife Conservation Series No12, Cambridge, UK. Rašomavicius, V. (red.) 2007. Lietuvos raudonoji knyga. Kaunas: „Lututė“, 800 p. (Red Data Book of Lithuania, 2007)

Breeding long-term trend: 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). Kurlaavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“, 256 p. Rašomavicius, V. (red.) 2007. Lietuvos raudonoji knyga. Kaunas: „Lututė“, 800 p. (Red Data Book of Lithuania, 2007)

Winter population size: Šniaukštė, L. 2012. Results of the midwinter waterfowl counts in Lithuania. Paukščiai 14 (2): 6-14. Midwinter count data 2012 State monitoring scheme data (2010-2012) Mindaugas Dagys (dagys@ekoi.lt)

Winter short-term trend: Šniaukštė, L. 2012. Results of the midwinter waterfowl counts in Lithuania. Paukščiai 14 (2): 6-14. Midwinter count data 2010-2012 State monitoring scheme data (2001-2012) LIFE05 NAT/LV/000100 project data LIFE05 NAT/LT/000095 project data Mindaugas Dagys (dagys@ekoi.lt)

Winter long-term trend: Šniaukštė, L. 2012. Results of the midwinter waterfowl counts in Lithuania. Paukščiai 14 (2): 6-14. Midwinter count data 2010-2012 State monitoring scheme data (2001-2012) LIFE05 NAT/LV/000100 project data LIFE05 NAT/LT/000095 project data Mindaugas Dagys (dagys@ekoi.lt)

Luxembourg: M. m. merganser, other populations

Winter population size: LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Biver, G. (2013): Waterbird count - recensement hivernal des oiseaux d'eau 2009-2012. Regulus Wissenschaftliche Berichte, 28: 43-58. Konter A. (2010): Wasservögel an der Sauer im Raum Echternach: Bestand und Ausblick. Wissenschaftliche Berichte, 25: 41-55 (<http://www.luxnatur.lu/publi/wb25001144.pdf>) Lorgé P., E. Melchior (2010): Die Vögel Luxemburgs. LNVL, Luxembourg. ISBN: 978-2-919920-01-3

Winter short-term trend: LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Biver, G. (2013): Waterbird count - recensement hivernal des oiseaux d'eau 2009-2012. Regulus Wissenschaftliche Berichte, 28: 43-58. Konter A. (2010): Wasservögel an der Sauer im Raum Echternach: Bestand und Ausblick. Wissenschaftliche Berichte, 25: 41-55 (<http://www.luxnatur.lu/publi/wb25001144.pdf>) Lorgé P., E. Melchior (2010): Die Vögel Luxemburgs. LNVL, Luxembourg. ISBN: 978-2-919920-01-3

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The Former Yugoslav Republic of Macedonia

Breeding population size: Vasić, V. 2010. Lists of birds of the National park Galicica. Page 245. Public enterprise National park "Galicica," Ohrid

Breeding short-term trend: Vasić, V. 2010. Lists of birds of the National park Galicica. Page 245. Public enterprise National park "Galicica," Ohrid

Breeding long-term trend: Probably stable; although recent records on Lake Ohrid (Škopíková, V., V. Prášek, and M. Valášek. 2006. Ornithological notes from Macedonia in 2006. Ciconia 15:30-45) are indicative for an increase, it has actually been breeding on the Lake at least since 1980ies (S. Hristovski, pers. comm)

Winter population size: Wetlands International database and unpublished data of the Macedonian Ecological Society

Mergus merganser (Goosander)

The Former Yugoslav Republic of Macedonia

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

Winter population size: Winter assessment of water birds in Moldova

Winter short-term trend: Winter assessment of water birds in Moldova

Winter long-term trend: Аверин Ю. В., Ганя И.М., Успенский Г. Птицы Молдавии, Кишинев, 1981, 240p

Montenegro

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

Netherlands: *M. m. merganser*, other populations

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

Norway

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

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: *M. m. merganser*, other populations

Breeding population size: Compilation of regional figures: KRAINIA ŚWIĘTOKRZYSKA (Towarzystwo Badań i Ochrony Przyrody, R. Maniarski, M. Jantarski i inni), KUJAWY (P. Zieliński i inni), LUBELSKO-ZŁODZIĘSKA (Lubelskie Towarzystwo Ornithologiczne, M. Urban, P. Szewczyk, P. Stachyra), MAŁOPOLSKA (M. Ciach, R. Bobrek, T. Wilk), MAZOWSZE (Mazowiecko-Świetokrzyskie Towarzystwo Ornithologiczne: S. Chmielewski, A. Dombrowski, A. Golawski, H. Kot), PODLASIE (T. Tumiela, G. Grygoruk), POMORZE (Ł. Ławicki, A. Sikora), ŚLĄSK (P. Kołodziejczyk i inni), ŚLĄSKA GÓRNY (J. Bettleja), WARMIA I MAZURY (D. Czaśkiewicz, K. Jankowski, M. Szymkiewicz, A. Sikora), WIELKOPOLSKA (P. Wylegała, L. Kuczyński), ZIEMIA LUBUSKA (P. Czechowski, S. Rubacha, P. Baranowski, M. Jankowski, R. Kruszyk, M. Leszczyński, M. Prange, J. Udołf), ZIEMIA ŁÓDZKA (T. Janiszewski, Z. Wojciechowski, P. Minias, R. Włodarczyk, B. Lesner, M. Wężyk).

Breeding short-term trend: Chylarecki P., Sikora A. 2007. Ocena liczebności gatunków lęgowych w Polsce. W: Sikora A., Rohde Z., Gromadzki M., Neubauer G., Chylarecki P. (red.). Atlas rozmieszczenia ptaków lęgowych Polski 1985–2004. Bogucki Wyd. Nauk., Poznań, s. 34–41; BirdLife International 2004. Birds in Europe: population estimates, trends and conservation status. Cambridge, UK: BirdLife International. BirdLife International Series No. 12.

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