

***Anser albifrons* (Greater White-fronted Goose)**

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.

Anser albifrons (Greater White-fronted Goose)

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 | |
| DK: Greenland | 9,000-10,000 | 3 | 2012 | good | - | 20-30 | 2000-2012 | good | + | 80-90 | 1980-2012 | good | A. a. flavirostris, Greenland/Ireland & UK |
| Russia | 250,000-300,000 | 97 | 2000-2012 | medium | 0 | 0 | 2000-2012 | poor | + | 5-30 | 1980-2012 | medium | A. a. albifrons |
| EU27 | 0 | <1 | | | n/a | | | | | | | | |
| Europe | 259,000-310,000 | 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.

Anser albifrons (Greater White-fronted Goose)

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 | 4-360 | <1 | 2002-2012 | good | - | 70-90 | 2002-2012 | good | - | 70-90 | 1980-2012 | medium | |
| Armenia | 2-9 | <1 | 2003-2013 | poor | ? | | | | ? | | | | |
| Austria | 16,000-26,000 | 1 | 2008-2010 | good | + | 40-60 | 2001-2012 | good | F | 0 | 1980-2012 | good | |
| Azerbaijan | 6,000-14,000 | 1 | 1996-2002 | medium | ? | | | | ? | | | | |
| Belarus | 0-10 | <1 | 2009-2013 | good | 0 | 0 | 2000-2012 | medium | ? | | | | |
| Belgium | 42,958-83,517 | 3 | 2008-2012 | good | + | 2-9 | 2001-2012 | good | + | 3-7 | 1992-2012 | good | |
| Bosnia & HG | 50-100 | <1 | 2008-2013 | medium | 0 | 0 | 2000-2013 | medium | ? | | | | |
| Bulgaria | 6,500-400,000 | 3 | 1997-2012 | good | F | 100-600 | 2000-2012 | good | F | 50-100 | 1980-2012 | good | |
| Croatia | 4,500-9,000 | <1 | 2011 | poor | ? | | | | ? | | | | |
| Cyprus | 25-50 | <1 | 2008-2012 | good | - | 65-85 | 2001-2012 | medium | - | 85-95 | 1980-2012 | poor | |
| Czech Rep. | 1,800-13,000 | <1 | 2004-2011 | poor | 0 | 0 | 2000-2012 | medium | 0 | 0 | 1980-2011 | medium | |
| Denmark | 6,300 | <1 | 2009 | good | 0 | 0 | 2000-2011 | good | + | 1000-10000 | 1980-2011 | medium | |
| France | 605 | <1 | 2000-2012 | good | + | 152-220 | 2000-2012 | good | + | 460-544 | 1980-2012 | good | |
| Georgia | Present | <1 | 2012 | | ? | | | | ? | | | | |
| Germany | 300,000 | 17 | 2000-2005 | medium | + | 41-144 | 1997-2009 | medium | + | 243-470 | 1984-2009 | medium | |
| Greece | 1,299-12,550 | <1 | 2007-2013 | good | F | 0 | 2004-2013 | medium | + | 420 | 1982-2013 | medium | |
| Hungary | 120,000-200,000 | 9 | 2011-2012 | good | + | 60-80 | 2000-2012 | good | + | 160-180 | 1985-2012 | good | |
| Rep. Ireland | 12,173 | 1 | 2012 | good | - | 10 | 1999-2012 | good | + | 34 | 1983-2012 | good | |
| Italy | 1,018-2,623 | <1 | 2007-2009 | good | + | 105-465 | 2000-2009 | good | + | 1715-4585 | 1991-2009 | good | |
| Latvia | 0-10 | <1 | 2012 | medium | F | 0-10 | 2001-2012 | medium | F | 0-10 | 1984-2012 | medium | |
| FYRO Macedonia | 0-300 | <1 | 2001-2012 | poor | 0 | 0 | 2002-2012 | poor | ? | | | | |
| Moldova | 0-750 | <1 | 2000-2010 | medium | F | 0 | 2000-2010 | medium | F | 0 | 1980-2010 | medium | |
| Montenegro | 10-230 | <1 | 2003-2012 | medium | F | 0 | 2003-2012 | medium | F | 0 | 1991-2012 | poor | |
| Netherlands | 740,286-882,551 | 46 | 2006-2010 | good | + | 12-54 | 2000-2011 | good | + | 216-327 | 1981-2011 | good | |
| Norway | 10-30 | <1 | 1990-2001 | good | F | 0 | 2001-2013 | good | F | 0 | 1980-2013 | good | |
| Norway | 500-1,000 | <1 | 1994-2013 | medium | F | 0 | 2001-2013 | good | F | 0 | 1980-2013 | good | |
| Poland | 18,000-24,000 | 1 | 2013 | medium | ? | | | | + | 60-15552 | 1992-2013 | medium | |
| Romania | 150,000-280,000 | 12 | 2007-2012 | medium | F | 10-40 | 2001-2012 | poor | F | 40-60 | 1980-2012 | poor | |
| Serbia | 40,000-80,000 | 3 | 2008-2012 | medium | + | 10-15 | 2000-2012 | medium | ? | | | | |
| Slovakia | 3,000-5,000 | <1 | 2011 | good | - | 30-60 | 2000-2012 | good | + | 75-100 | 1980-2012 | good | |
| Slovenia | 10-600 | <1 | 2008-2012 | medium | F | 0-1000 | 2001-2012 | medium | - | 60-80 | 1980-2012 | medium | |

Anser albifrons (Greater White-fronted Goose)

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 | |
| Spain | 42-54 | <1 | 2008-2010 | good | 0 | 0 | 1998-2012 | medium | + | | 1980-2012 | medium | |
| Sweden | 30-12,000 | <1 | 2008-2012 | good | + | 40-120 | 2001-2012 | good | + | 1100-1700 | 1980-2012 | good | |
| Switzerland | 0-117 | <1 | 2008-2012 | good | F | 0 | 2001-2012 | good | F | 0 | 1980-2012 | good | |
| Turkey | 53-19,747 | <1 | 2002-2012 | good | ? | | | | ? | | | | |
| Ukraine | 5,000-27,000 | 1 | 2000 | good | F | 20-40 | 1998-2009 | good | F | 25-40 | 1980-2009 | good | |
| United Kingdom | 13,000 | 1 | 2004-2008 | good | - | 30 | 1999-2010 | good | + | 82 | 1982-2010 | good | |
| United Kingdom | 2,400 | <1 | 2004-2008 | good | - | 41 | 1999-2010 | good | - | 62 | 1980-2010 | good | |
| EU27 | 1,440,000-2,280,000 | 95 | | | Increasing | | | | | | | | |
| Europe | 1,490,000-2,430,000 | 100 | | | Increasing | | | | | | | | |

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

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

⁴ The 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.

Trend maps

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

KEY

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

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

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

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

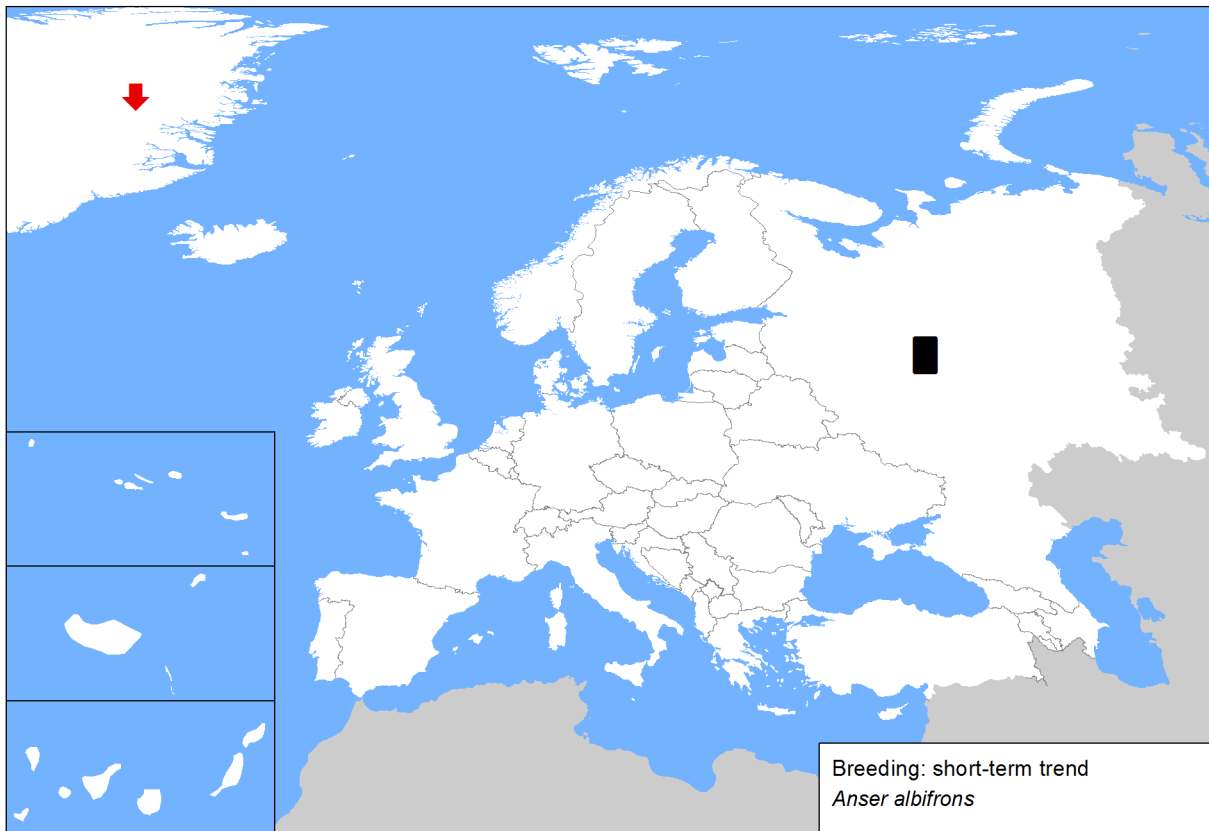


Figure 2. Breeding population sizes and long-term trends across Europe.

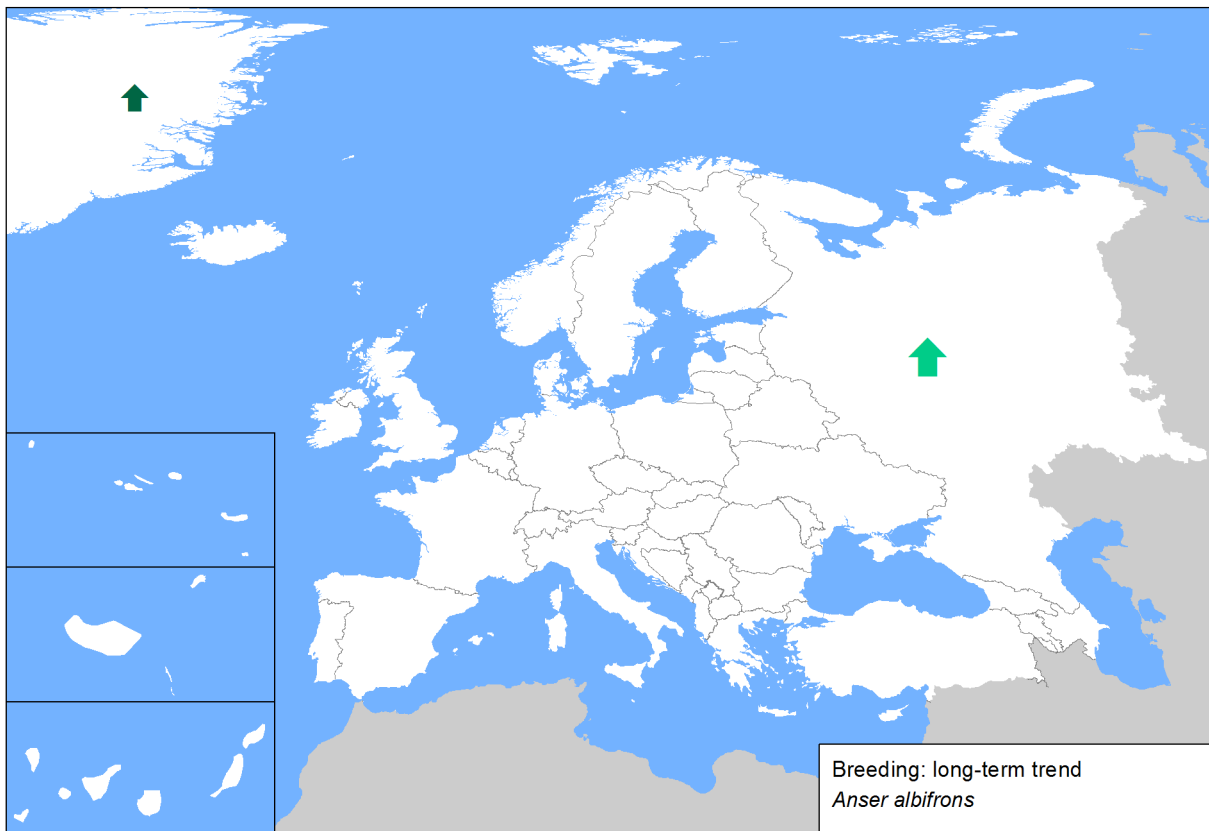


Figure 3. Reported wintering population sizes and short-term trends across Europe. Note that some countries within the species' wintering range did not report any data.

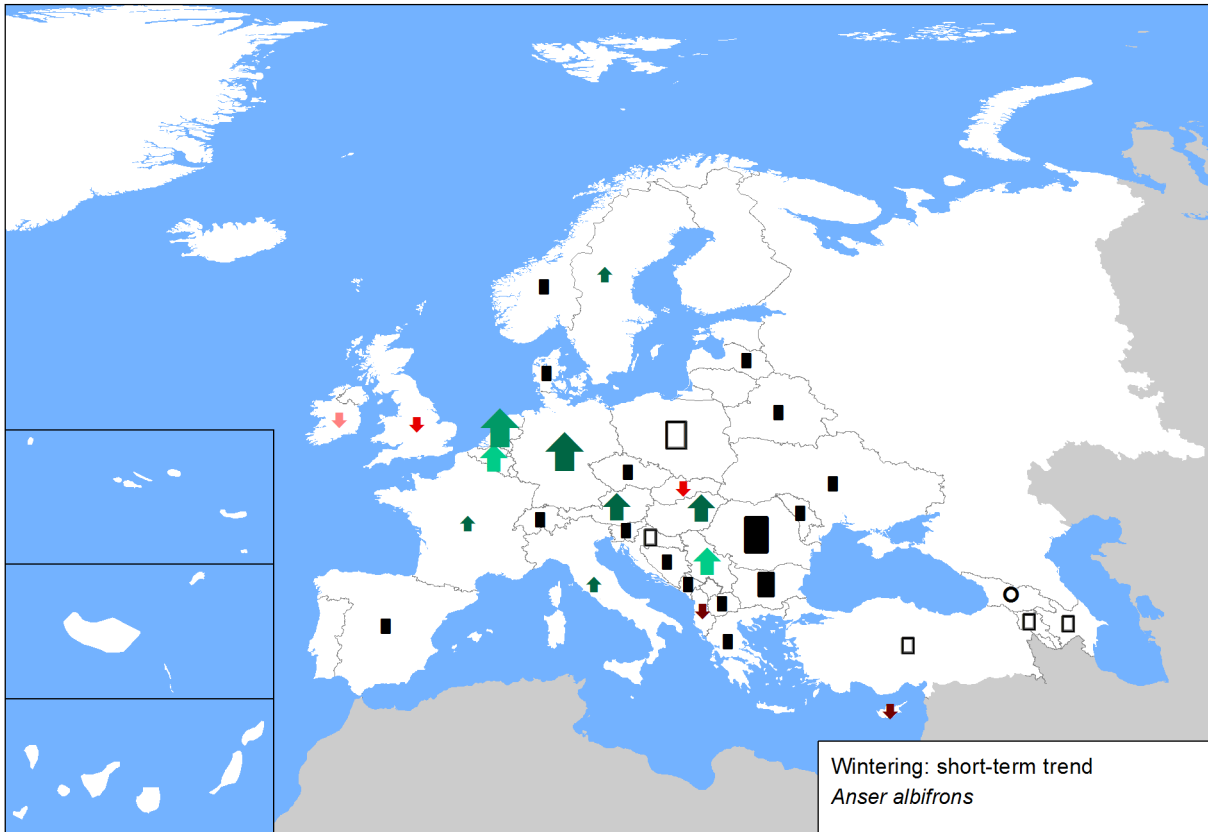
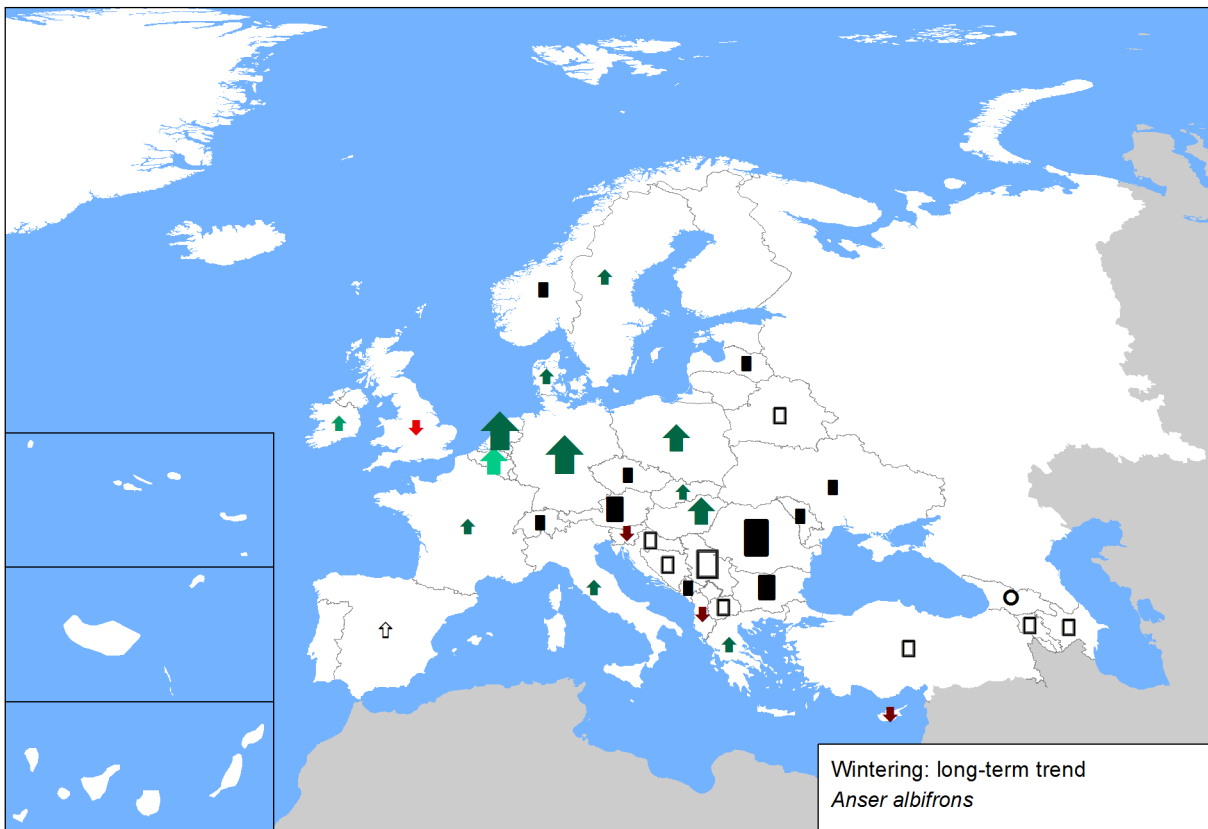


Figure 4. Reported wintering population sizes and long-term trends across Europe. Note that some countries within the species' wintering range did not report any data.



Sources

Albania: *A. a. albifrons*

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

Armenia: *A. a. albifrons*

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| Winter population size: ASPB IWC counts |
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Austria: *A. a. albifrons*

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| Winter population size: Laber & Pellinger 2008, Laber & Pellinger 2011 |
| Winter short-term trend: Laber & Pellinger 2008, Laber & Pellinger 2011 |
| Winter long-term trend: Laber & Pellinger 2008 |

Azerbaijan: *A. a. albifrons*

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| Winter population size: BirdLife International 2004 |
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Belarus: *A. a. albifrons*

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

Belgium: *A. a. albifrons*

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| 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: *A. a. albifrons*

| |
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| 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. |
| 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. Dervović, I. 2007: Izvještaj o januarskom prebrojavanju vodenih ptica u 2007. godini. Bilten Mreže posmatrača ptica u Bosni i Hercegovini, 3(3): 47. 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. |

Bulgaria: *A. a. albifrons*

| |
|---|
| Winter population size: - Kostadinova, I & S. Dereleiv. 2001. Results from the Mid-winter Counts in Bulgaria. BSPB Conservation Series Book 3. - Kostadinova, I. & M. Gramatikov. 2007. Important Bird Areas in Bulgaria and Natura 2000. BSPB Conservation Series Book 11. - BSPB GIS related ornithological database |
| Winter short-term trend: BSPB GIS-related ornithological database |
| Winter long-term trend: BSPB GIS-related ornithological database |

Croatia: *A. a. albifrons*

| |
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| 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: *A. a. albifrons*

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| 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 |
| 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), but detailed counts lacking for parts of this period and the species may have been overlooked in past due to poor site coverage (notably the 1980s) |

Anser albifrons (Greater White-fronted Goose)

Czech Republic: *A. a. albifrons*

Winter population size: MUSIL P. & MUSILOVA Z. 2011: Aythya 4. Charles University Prague

Winter short-term trend: MUSIL P. & MUSILOVA Z. 2011: Aythya 4. Charles University Prague

Winter long-term trend: MUSIL P. & MUSILOVA Z. 2011: Aythya 4. Charles University Prague

Denmark: *A. a. albifrons*

Winter population size: Søgaard, B., Pihl, S., Wind, P., Clausen, P., Andersen, P.N., Bregnballe, T. & Wiberg-Larsen, P. 2010: Arter 2009. NOVANA. Danmarks Miljøundersøgelser, Aarhus Universitet. 114 s. – Faglig rapport fra DMU nr. 805.

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Winter long-term trend: Søgaard, B., Pihl, S., Wind, P., Clausen, P., Andersen, P.N., Bregnballe, T. & Wiberg-Larsen, P. 2010: Arter 2009. NOVANA. Danmarks Miljøundersøgelser, Aarhus Universitet. 114 s. – Faglig rapport fra DMU nr. 805. Petersen, I.K., Nielsen, R.D., Pihl, S., Clausen, P., Therkildsen, O., Christensen, T.K., Kahlert, J. & Hounisen, J.P. 2010. Landsdækkende optælling af vandfugle i Danmark, vinteren 2007/2008. Danmarks Miljøundersøgelser, Aarhus Universitet. 78 s. – Arbejdsrapport fra DMU nr. 261. Jørgensen, H.E., Madsen, J. & Clausen, P. (1994): Rastende bestande af gæs i Danmark 1984-1992. Danmarks Miljøundersøgelser. – Faglig rapport fra DMU, nr. 97. 112 s.

DK: Greenland: *A. a. flavirostris*, Greenland/Ireland & UK

Breeding population size: Fox, T., Francis, I. & Walsh, A. 2012 Report of the 2011/2012 international census of Greenland White-fronted Goose. Greenland White-fronted Goose Study report and National Parks and Wildlife Service. Fox, T.D., Stroud, D., Walsh, A., Wilson, J., Norriss, D., Francis, I. 2006. The rise and fall of the Greenland White-fronted Goose: a case study in international conservation. British Birds 99: 242-261. Fox, A.D. (2003) The Greenland White-fronted Goose *Anser albifrons flavirostris*. The annual cycle of a migratory herbivore on the European continental fringe. Doctor's dissertation (DSc). National Environmental Research Institute, Denmark.

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Breeding long-term trend: Fox, T., Francis, I. & Walsh, A. 2012 Report of the 2011/2012 international census of Greenland White-fronted Goose. - Greenland White-fronted Goose Study report and National Park and Wildlife Service,

France: *A. a. albifrons*

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: 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 long-term trend: 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: *A. a. albifrons*

Winter population size: BirdLife International 2004

Germany: *A. a. albifrons*

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

Winter short-term trend: Monitoring rastender Wasservogel

Winter long-term trend: Monitoring rastender Wasservogel

Greece: *A. a. albifrons*

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: *A. a. albifrons*

Winter population size: Faragó, S. (2012): Results of Geese Monitoring in Hungary in the season 2011/2012. Hungarian Waterfowl Publications 22: 11-50. National Park Directorates & databases.

Winter short-term trend: Faragó, S. (2012): Results of Geese Monitoring in Hungary in the season 2011/2012. Hungarian Waterfowl Publications 22: 11-50. Faragó, S. & Gosztonyi, L. (2009): Population Trend, Phenology and Dispersion of Common Waterfowl Species in Hungary Based on a Ten Year Long Time Series of the Hungarian Waterfowl Monitoring. Acta Silv. Lign. Hung., Vol. 5: 83-107.

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Republic of Ireland: *A. a. flavirostris*, Greenland/Ireland & UK

Winter population size: Burke, B., Egan, F., Wilson, H.J., Norriss, D. and Walsh, A. (in prep) A review of the Greenland White-fronted Geese in Ireland 1982/83 – 2011/12. Unpublished Report. Fox, T., Francis, I. and Walsh, A. (2012) Report of the 2011/2012 International Census of Greenland White-fronted Geese. Greenland White-fronted Goose Study. 28 p.; <http://gwfg-conservation.wikispaces.com/file/view/Greenland%20White-fronted%20Geese%20in%20Britain%20%26%20Ireland%202011-12.pdf/367349050/Greenland%20White-fronted%20Geese%20in%20Britain%20%26%20Ireland%202011-12.pdf>.

Anser albifrons (Greater White-fronted Goose)

Republic of Ireland: *A. a. flavirostris*, Greenland/Ireland & UK

Winter short-term trend: Burke, B., Egan, F., Wilson, H.J., Norriss, D. and Walsh, A. (in prep) A review of the Greenland White-fronted Geese in Ireland 1982/83 – 2011/12. Unpublished Report. Fox, T. and Francis, I. (1999) Report of the 1998/999 National Census of Greenland White-fronted Geese in Britain. Department of Wildlife Ecology National Environmental Research Institute, Denmark. 8 p.; <http://gwfg-conservation.wikispaces.com/file/view/Greenland%20White-fronted%20Geese%20in%20Britain%201998-99.doc/166656431/Greenland%20White-fronted%20Geese%20in%20Britain%201998-99.doc>. Fox, T., Francis, I. and Walsh, A. (2012) Report of the 2011/2012 International Census of Greenland White-fronted Geese. Greenland White-fronted Goose Study. 28 p.; <http://gwfg-conservation.wikispaces.com/file/view/Greenland%20White-fronted%20Geese%20in%20Britain%20%26%20Ireland%202011-12.pdf/367349050/Greenland%20White-fronted%20Geese%20in%20Britain%20%26%20Ireland%202011-12.pdf>.

Winter long-term trend: Burke, B., Egan, F., Wilson, H.J., Norriss, D. and Walsh, A. (in prep) A review of the Greenland White-fronted Geese in Ireland 1982/83 – 2011/12. Unpublished Report. Fox, T., Francis, I. and Walsh, A. (2012) Report of the 2011/2012 International Census of Greenland White-fronted Geese. Greenland White-fronted Goose Study. 28 p.; <http://gwfg-conservation.wikispaces.com/file/view/Greenland%20White-fronted%20Geese%20in%20Britain%20%26%20Ireland%202011-12.pdf/367349050/Greenland%20White-fronted%20Geese%20in%20Britain%20%26%20Ireland%202011-12.pdf>. Fox, T., Norriss, D.W., Stroud, D.A., Wilson, H.J. (1994) Greenland White-fronted geese in Ireland and Britain 1982/83-1993/94. Greenland White-fronted Goose Study/National Parks and Wildlife Service, Aberystwyth and Dublin, 54 pp.

Italy: *A. a. albifrons*

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: *A. a. albifrons*

Winter population size: www.putni.lv, WI IWC

Winter short-term trend: WI IWC

Winter long-term trend: WI IWC

The Former Yugoslav Republic of Macedonia: *A. a. albifrons*

Winter population size: M. Veleviski unpublished data

Winter short-term trend: M. Veleviski, unpublished data

Moldova: *A. a. albifrons*

Winter population size: Assesment of experts

Winter short-term trend: Assesment of experts

Winter long-term trend: Burfield I., Bommel van F., Birds in Europe. Population estimates, trends and conservation status. BirdLife International. Oxford, 2004. 374p.

Montenegro: *A. a. albifrons*

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: *A. a. albifrons*

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: *A. a. albifrons*

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

Winter short-term trend: Artsobservasjoner.no

Winter long-term trend: 1). Artsobservasjoner.no 2). County bird recorders 3). Paul Shimmings (both published counts and unpublished).

Norway: *A. a. flavirostris*, Greenland/Ireland & UK

Winter population size: 1) Shimmings, P. 2003. Forekomst av vestlig tundra gås *Anser albifrons flavirostris* i Norge. Vår Fuglefauna 26: 130-135. 2) Artsobservasjoner.no

Winter short-term trend: same as 2.6 (population sources)

Winter long-term trend: 1). Paul Shimmings 2). Artsobservasjoner.no 3) County bird recorders

Poland: *A. a. albifrons*

Winter population size: MNG: Wylegała P., Ławicki Ł., Smyk B. 2013. Monitoring noclegowisk gęsi. Sprawozdanie dla Głównego Inspektoratu Ochrony Środowiska. OTOP, Miłż, KOO, SOS, Salamandra, Marki

Winter long-term trend: Staszewski A., Czeraszewicz R. 2001. Rozmieszczenie i liczebność gęsi w Polsce podczas jesiennej migracji i zimowania w latach 1991-1997. Not. Orn. 42: 15-36.

Anser albifrons (Greater White-fronted Goose)

Romania: *A. a. albifrons*

Winter population size: International Waterbird Census-SOR/BirdLife Romania Database. Expert contact: Emil Todorov, emil.todorov@sor.ro Papp, T and Fântână, C. (eds) (2008) Ariele de Importanță Avifaunistică din România [Important Bird Areas in Romania]. Tirgu-Mures: Societatea Ornitologică Română, București & Asociația pentru Protecția Păsărilor și a Naturii 'Grupul Milvus'. [In Romanian with English summary] BirdLife International (2013) Species factsheet: *Anser albifrons*. Downloaded from <http://www.birdlife.org> on 13/12/2013. Recommended citation for factsheets for more than one species: BirdLife International (2013) IUCN Red List for birds. Downloaded from <http://www.birdlife.org> on 13/12/2013.

Winter short-term trend: International Waterbird Census-SOR/BirdLife Romania Database. Expert contact: Emil Todorov, emil.todorov@sor.ro

Winter long-term trend: International Waterbird Census-SOR/BirdLife Romania Database. Expert contact: Emil Todorov, emil.todorov@sor.ro

Russia: *A. a. albifrons*

Breeding population size: Mineev O.Yu. 2005. Waterfowl of Malozemelskaya Tundra and Pechora River Delta. Ekaterinburg: 161 pp. (in Russian). Morozov V.V., Syroechkovskiy E.E. 2004. Materials to knowledge of avifauna of Kolguev Island. - Ornitologia 31: 9-50 (in Russian). Kondratiev A.V., Zajnagutdinova E.M., Krukenberg H. 2012. Recent status and biology of geese in the Kolguev Island. - Casarka. Bulletin of the Goose, Swan and Duck Study Group of North Eurasia, 15 (2): 31-70 (in Russian). Wetlands International. 2006. Waterbird Population Estimates. – Fourth Edition. Wetlands International, Wageningen, The Netherlands: 1-233.

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Serbia: *A. a. albifrons*

Winter population size: Šćiban M, Đapic 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

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

Slovakia: *A. a. albifrons*

Winter population size: Slabeyová K., Ridzoň J., Karaska D., Topercer J. & Darolová A. 2011: Správa zo zimného sčítania vodného vtáctva na Slovensku 2009/10, SOS/BirdLife Slovensko, Bratislava, 160 s.

Winter short-term trend: Slabeyová K., Ridzoň J., Karaska D., Topercer J. & Darolová A. 2011: Správa zo zimného sčítania vodného vtáctva na Slovensku 2009/10, SOS/BirdLife Slovensko, Bratislava, 160 s.

Winter long-term trend: Slabeyová K., Ridzoň J., Karaska D., Topercer J. & Darolová A. 2011: Správa zo zimného sčítania vodného vtáctva na Slovensku 2009/10, SOS/BirdLife Slovensko, Bratislava, 160 s.

Slovenia: *A. a. albifrons*

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: BIBIČ, A. (1998): Ptice vodnih zbiralnikov severovzhodne Slovenije. – *Acrocephalus* 9 (35/36): 25–48. SOVINČ, A. (1994): Zimski ornitološki atlas Slovenije. – Tehniška založba Slovenije, Ljubljana. ŠTUMBERGER, B. (2000): Reka Drava. pp. 149–159. V: Polak, S. (ur.): Mednarodno pomembna območja za ptice v Sloveniji. Monografija DOPPS št. 1. – DOPPS, Ljubljana.

Spain: *A. a. albifrons*

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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Winter long-term trend: 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

Sweden: *A. a. albifrons*

Winter population size: Swedish Bird Survey (Svensk Fågeltaxering), Lund University.

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

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

Switzerland: *A. a. albifrons*

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>

Anser albifrons (Greater White-fronted Goose)

Switzerland: *A. a. albifrons*

Winter long-term trend: Swiss Ornithological Institute. Winter waterbird census (January). <http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html>

Turkey: *A. a. albifrons*

Winter population size: Kurt, B., Ozbağdatlı, N., Bozkurt, A.K., Arslangundoğdu, Z. ve Gursoy, A. 2002. Türkiye Sulakalanları Kış Ortası Sukuşu Sayımı, Doğal Hayatı Koruma Derneği, İstanbul, Türkiye. Çağlayan, E., Kılıç, D.T., Per, E. ve Gem, E. 2005. Türkiye Kış Ortası Sukuşu Sayımları 2005. Doğa Derneği, Ankara, Turkey Suseven, B., Onmus, O. ve İsfendiyaroğlu, S. 2006. Kış Ortası Sukuşu Sayımı (KOSK) Raporu, Doğa Derneği, Ankara Onmus, O. 2007. Türkiye Kış Ortası Sukuşu Sayımları 2007, Doğa Derneği, Ankara Akarsu, F. ve Balkız, Ö. 2010. Türkiye Kış Ortası Sukuşu Sayımları 2008-2009-2010, Doğa Derneği, Ankara Erciyas Yavuz, K., Kartal E. 2011. Türkiye Kış Ortası Sukuşu Sayımları, 2011, Ornitoloji Araştırma Merkezi, Samsun Erciyas Yavuz, K., İsfendiyaroglu S. 2013. 2012 Türkiye Kış Ortası Sukuşu Sayımları, Doğa Derneği, 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

Ukraine: *A. a. albifrons*

Winter population size: 1. Русев И.Т., Гержик И.П., Васильков И.А., Павлов А.В., Потапов О.В., Корзюков А.И. Результаты учетов зимующих птиц в Северо-Западном Причерноморье (11-26 января 1995 года) // Казарка. – Бюллетень рабочей группы по гусям Восточной Европы и Северной Азии. – Москва. – 1996. - С. 285 - 291 2. Андриященко Ю.А., Горлов П.И., Кинда В.В., Касьянов В.И. Результаты учетов зимующих птиц Северо-Западного Приазовья в январе 1997 года // Экосистемы дикой природы: охрана, природопользование, мониторинг.- Фонд "Природное наследие": Одесса, 1997.- С.1-3. 3. Русев И.Т. Пространственное распределение и численность белолобого гуся и краснозобой казарки в Северо-Западном Причерноморье в период осеннего пролета 1996 г. // Сб. "Экосистемы дикой природы", 1997, - вып.6. - С.14-19. 4. Русев И.Т., Жмуд М.Е., Корзюков А.И., Гержик И.П., Сацык С.Ф., Потапов О.В. Результаты рождественского учета зимующих птиц в Северо-Западном Причерноморье в 1997 г. // Сб. "Экосистемы дикой природы", 1997, - вып.6, - С.19-50. 5. Русев И.Т., Корзюков А.И., Сацык С.Ф. Мониторинг зимующих птиц в Северо-Западном Причерноморье в 1999 г. Сб. Зимние учеты птиц на Азово-Черноморском побережье Украины, Алушта-Киев, 1999, выпуск 2, С.46-60. 6. Madsen, J., Cracknell, G. & Fox A.D. (eds). 1999. Goose populations of the Western Palearctic. A review of status and distribution/ Wetland International. Publ. No48., Wetland International, Wageningen, The Netherlands, National Environmental Research Institute, Ronde, Denmark. 344 p. 7. Directory of Azov – Black Sea Coastal Wetlands / Ed. By G. Marushevsky – Kyiv, 2003, Wetland International, 235 p. 8. Горбань І. Розміри популяції зимуючих птахів України. Вісник Львівського університету. Серія біологічна. Вип. 35. 2004. С.23-39. 9. Kostiyshyn V., Andryuschenko Yu., Goradze I., Abuladze A., Mamuchadze J., Erciyas K. Wintering Waterbird Census in the Azov – Black Sea Coastal Wetlands of Ukraine, Georgia, and Turkey. – Wetlands International Black Sea Program. – 2011. – 130 pp.

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Winter long-term trend: 1. Scott, D. A. & Rose, P.M. (1996). Atlas of Anatidae Populations in Africa and Western Eurasia / Wetland International Publ. No41, Wetland International, Wageningen, The Netherlands, 336 p. 2. Directory of Azov – Black Sea Coastal Wetlands / Ed. By G. Marushevsky – Kyiv, 2003, Wetland International, 235 p. 3. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 4. Directory of Ukraine's Wetlands / Ed. By G. Marushevsky & I. Zarusk. – Kyiv, 2006, Wetland International Black Sea Programme. - 312 с. 5. Русев И.Т., Корзюков А.И. Тузовские лиманы в 2005г. //Бюллетень ПОМ: Итоги среднезимних учетов водно-болотных птиц 2005, 2007-2010 годов в Азово-Черноморском регионе Украины/Под ред. Ю.А.Андриященко.-2011.- Вып.7.- С. 9,19-21, 63-64. 6. Русев И.Т., Корзюков А.И. Днестровские ВБУ в 2007г. //Бюллетень ПОМ: Итоги среднезимних учетов водно-болотных птиц 2005, 2007-2010 годов в Азово-Черноморском регионе Украины/Под ред. Ю.А.Андриященко.-2011.- Вып.7.- С.22,31-33, 63-64. 7. Русев И.Т., Корзюков А.И., Радьков Д.С. Тузовские лиманы в 2010г. //Бюллетень ПОМ:Итоги среднезимних учетов водно-болотных птиц 2005, 2007-2010 годов в Азово-Черноморском регионе Украины/Под ред. Ю.А.Андриященко.-2011.- Вып.7.- С.56, 61-64. 8. Kostiyshyn V., Andryuschenko Yu., Goradze I., Abuladze A., Mamuchadze J., Erciyas K. Wintering Waterbird Census in the Azov – Black Sea Coastal Wetlands of Ukraine, Georgia, and Turkey. – Wetlands International Black Sea Program. – 2011. – 130 pp.

United Kingdom: *A. a. albifrons*

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