

Aythya nyroca (Ferruginous Duck)

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.

Aythya nyroca (Ferruginous Duck)

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	5-30	<1	2002-2012	good	0	0	2002-2012	good	?				
Armenia	50-100	<1	2002-2012	medium	?				?				
Austria	100-150	1	2008-2012	medium	F	0	2001-2012	medium	?				Eastern Europe/E Mediterranean & Sahelian Africa
Azerbaijan	1,000-3,000	8	2014	poor	0.0	0	2000-2014		0.0	0	1980-2014		
Belarus	50-120	<1	2009-2010	medium	-	0-67	2000-2010	medium	-	40-50	1980-2010	medium	
Bosnia & HG	150-300	1	2010-2014	medium	0	0	2001-2012	poor	+	1-10	1980-2013	medium	
Bulgaria	120-400	1	2000-2012	good	F	10-30	2000-2012	good	-	10-40	1980-2012	medium	Eastern Europe/E Mediterranean & Sahelian Africa
Croatia	1,000-2,000	6	2010	poor	-	30-50	2002-2010	medium	?				
Cyprus	1-6	<1	2005-2011	good	+	200-500	2001-2012	good	+	200-500	1980-2012	good	Eastern Europe/E Mediterranean & Sahelian Africa
Czech Rep.	0-3	<1	2001-2003	good	?				F	0	1985-2003	good	Eastern Europe/E Mediterranean & Sahelian Africa
Georgia	Present	<1			?				?				
Germany	2-9	<1	2005-2009	good	0	0	1998-2009	medium	0	0	1985-2009	medium	Eastern Europe/E Mediterranean & Sahelian Africa
Greece	130-250	1	2008-2012	medium	0	0	2001-2012	medium	-	40-70	1980-2012	medium	Eastern Europe/E Mediterranean & Sahelian Africa
Hungary	800-1,500	5	2000-2012	medium	+	45-50	2000-2012	medium	+	60-150	1990-2012	medium	Eastern Europe/E Mediterranean & Sahelian Africa
Italy	62-89	<1	2003	good	+	0-35	2000-2003	medium	+	80-150	1980-2003	medium	Eastern Europe/E Mediterranean & Sahelian Africa
Latvia	0	<1	2012	medium					-	100	1978-1995	medium	Eastern Europe/E Mediterranean & Sahelian Africa
Lithuania	5-10	<1	2008-2012	medium	-	30-50	2001-2012	medium	-	0-50	1980-2012	medium	Eastern Europe/E Mediterranean & Sahelian Africa
FYRO Macedonia	50-70	<1	2001-2012	good	0	0	2000-2012	medium	0	0	1980-2012	medium	
Moldova	30-50	<1	2001-2012	good	-	30-40	2001-2012	medium	-	20-40	1980-2012	medium	
Montenegro	8-20	<1	2002-2012	good	-		2002-2012	good	?				
Poland	100-130	1	2009-2013	good	+	220-230	2000-2013	medium	-	65-70	1980-2013	medium	Eastern Europe/E Mediterranean & Sahelian Africa
Portugal	0-2	<1	2008-2012	medium	?								West Mediterranean/North & West Africa
Romania	11,761-18,018	64	2008-2013	medium	?				?				Eastern Europe/E Mediterranean & Sahelian Africa
Russia	500-1,500	4	2004-2008	poor	F	0	2000-2012	poor	-	5-30	1980-2012	medium	
Serbia	680-990	4	2008-2012	medium	+	10-29	2000-2012	medium	+	1-9	1980-2012	medium	
Slovakia	5-10	<1	2012	good	0	0	2000-2012	good	-	50-80	1980-2012	good	Eastern Europe/E Mediterranean & Sahelian Africa
Slovenia	15-30	<1	2002-2012	medium	+	100-300	2001-2012	medium	+	50-100	1980-2012	medium	Eastern Europe/E Mediterranean & Sahelian Africa
Spain	2	<1	2007	good	0	0	1998-2009	good	0	0	1980-2009	medium	West Mediterranean/North & West Africa
Turkey	482-760	3	2013	medium	-	40-59	2000-2012	medium	-	0-19	1990-2013	medium	
Ukraine	300-600	2	2000	medium	F	25-30	2001-2012	medium	F	25-50	1980-2012	medium	
EU27	13,100-20,600	72			Unknown								
Europe	17,400-30,100	100			Unknown								

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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.

Aythya nyroca (Ferruginous Duck)

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	0-10	<1	2002-2012	good	F	1-100	2002-2012	good	?				
Armenia	1-69	<1	2003-2013	good	?				?				
Azerbaijan	1,000-5,000	61	2014	poor	0.0	0	2000-2014	medium	0.0	0	1980-2014	medium	
Belarus	0	<1	2009-2013	good	-	100	2001-2012	good	?				
Bosnia & HG	150-250	5	2008-2013	medium	F	20-30	2000-2013	medium	?				
Bulgaria	0-200	<1	1996-2012	good	F	0-100	2000-2012	good	+	0-100	1980-2012	good	
Croatia	50-200	3	2014	medium	0	0	2010-2012	good	?				
Cyprus	45-75	2	2008-2012	good	+	800-1000	2001-2012	good	+	200-500	1980-2012	medium	
Greece	86-665	7	2007-2013	good	0	0	2004-2013	medium	?			medium	
Italy	369-506	12	2007-2009	good	+	20-45	2000-2009	good	+	180-290	1991-2009	good	
FYRO Macedonia	0-100	<1	2001-2012	medium	0	0	2002-2012	medium	0	0	1980-2012	medium	
Moldova	Present	<1	2000-2010		?				?				
Montenegro	20-40	1	2003-2012	medium	-		2003-2012	medium	-		1991-2012	good	
Romania	50-250	3	2008-2013	medium	F	5-10	2000-2013	medium	?				
Serbia	5-50	<1	2008-2012	medium	+	5-10	2000-2012	medium	?				
Slovenia	1-6	<1	2008-2012	good	+	50-200	2001-2012	medium	+	50-200	1980-2012	medium	
Spain	24-30	1	2008-2010	good	0	0	1998-2011	good	0	1	1980-2011	good	
Switzerland	32-64	1	2008-2012	good	+	85-163	2001-2012	good	+	50-82	1980-2012	good	
Turkey	17-569	3	2002-2012	good	F	0	2002-2012	poor	?				
Ukraine	20-60	1	1998-2009	medium	F	15-30	1998-2009	medium	F	20-50	1980-2009	medium	
EU27	580-1,700	26			Increasing								
Europe	1,900-8,100	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>.

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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.

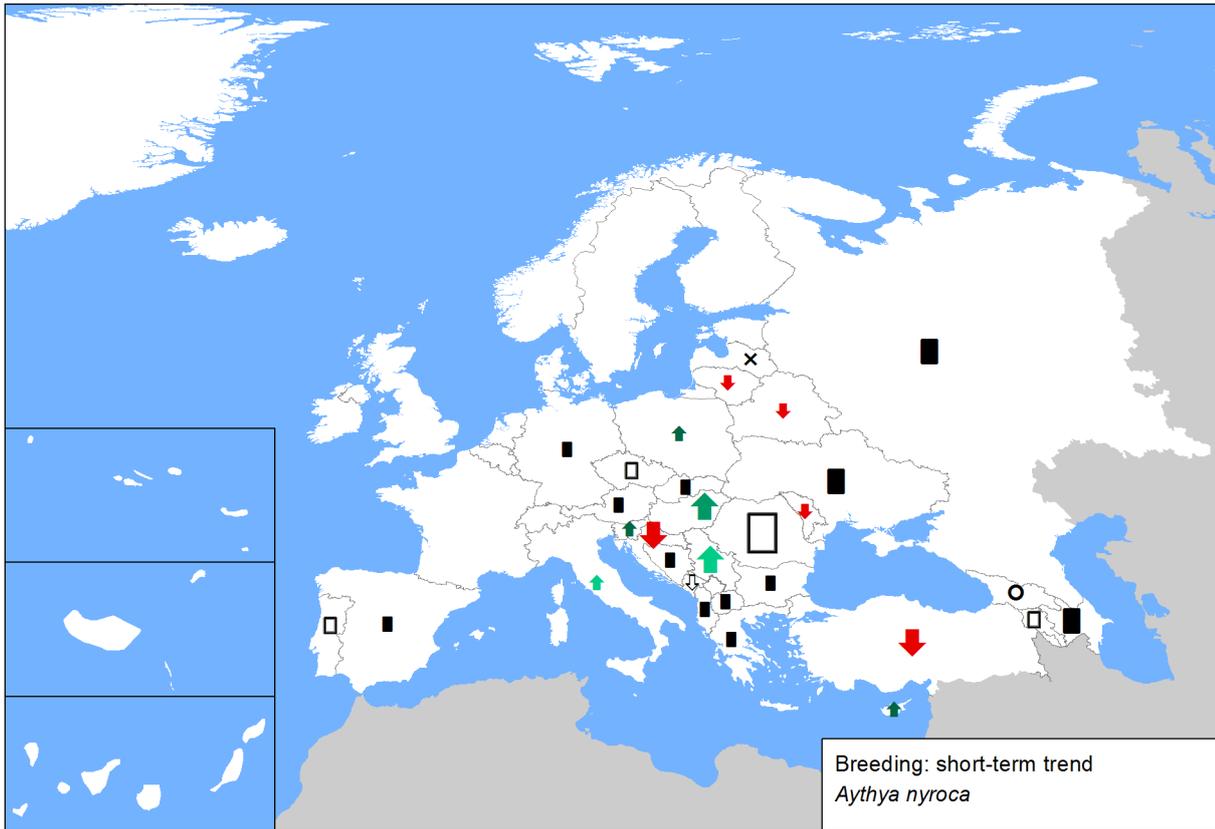


Figure 2. Breeding population sizes and long-term trends across Europe.

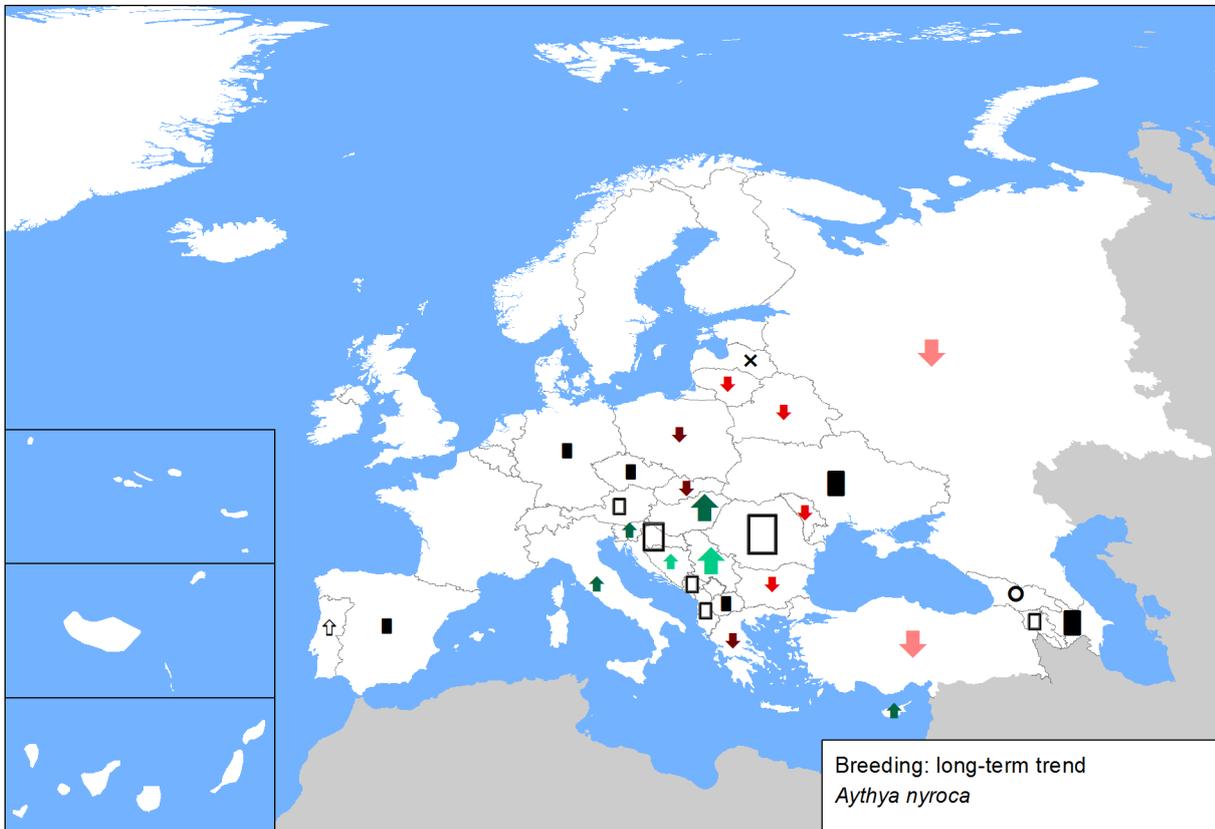


Figure 3. Reported wintering population sizes and short-term trends across Europe. Note that some countries within the species' wintering range did not report any data.

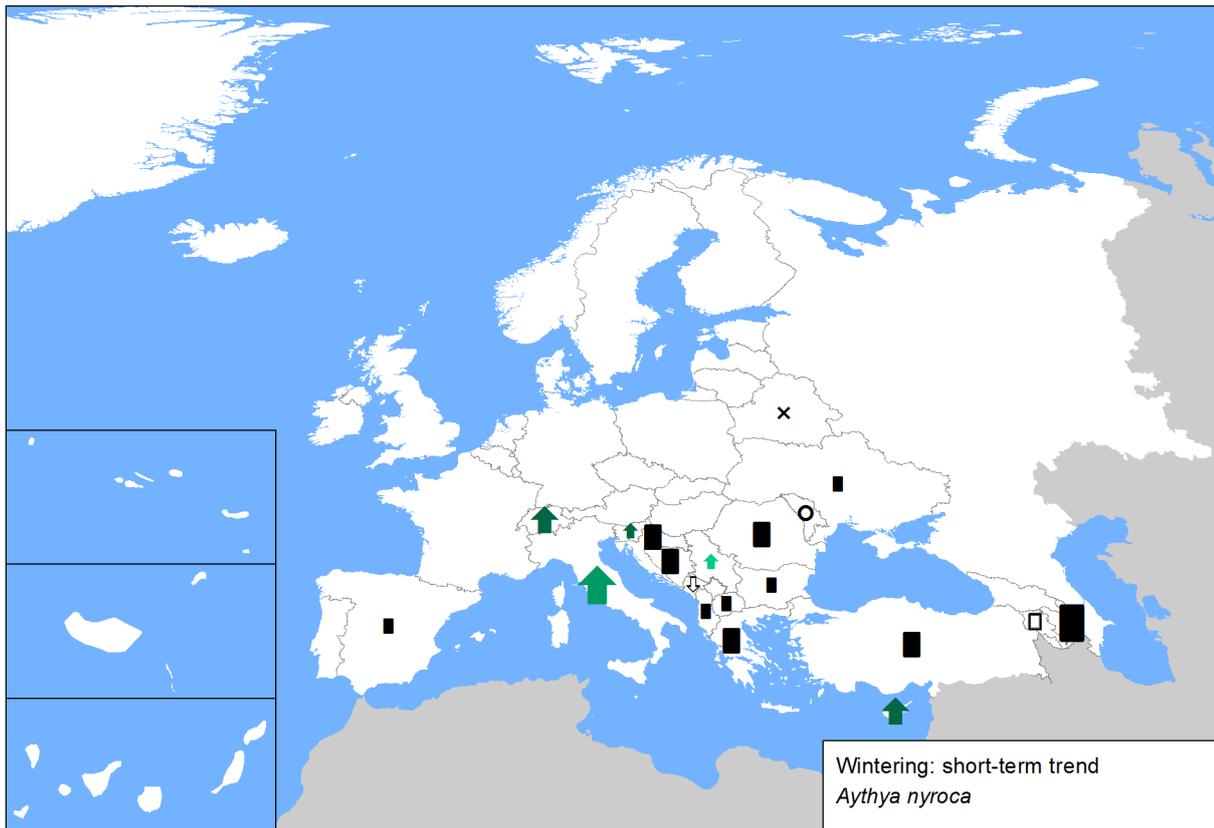
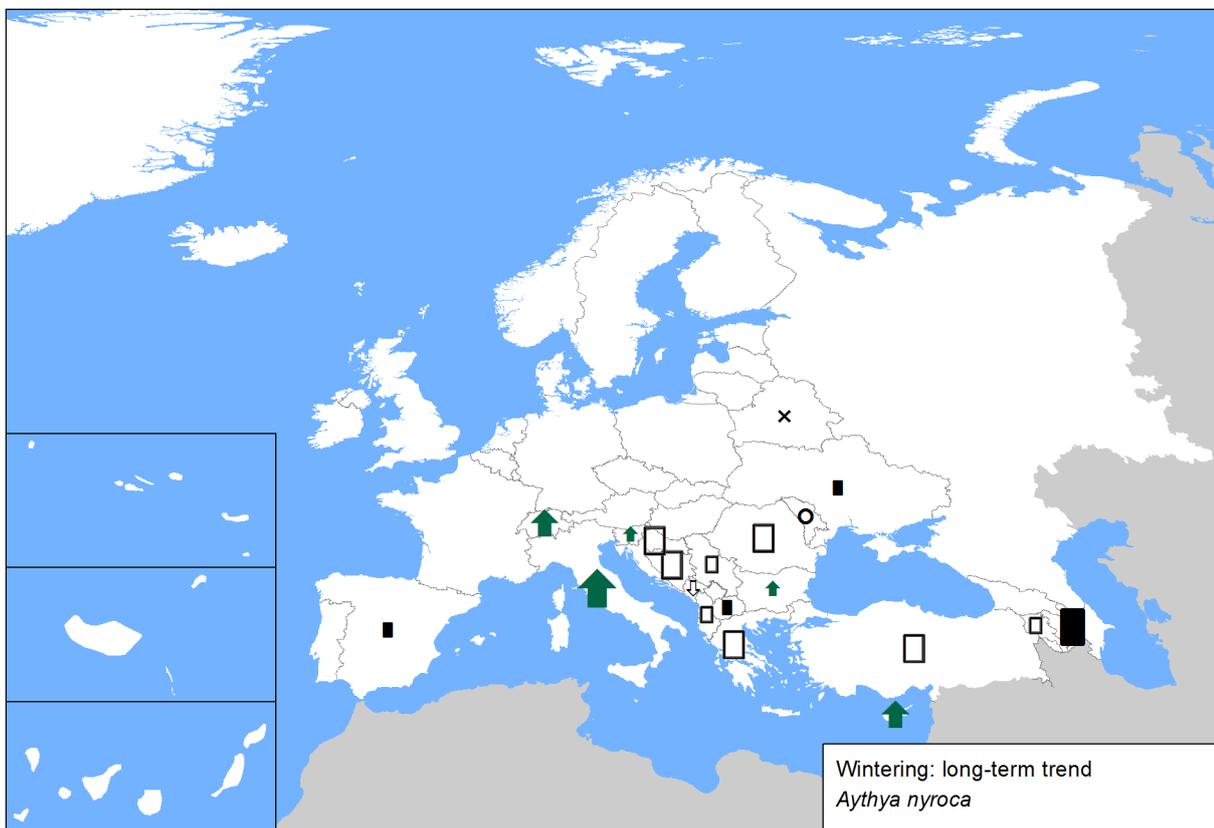


Figure 4. Reported wintering population sizes and long-term trends across Europe. Note that some countries within the species' wintering range did not report any data.



Aythya nyroca (Ferruginous Duck)

Sources

Albania

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

Armenia

Breeding population size: The Red Book of Animals of the Republic of Armenia, 2010. Second edition; ASPB data
Winter population size: ASPB IWC counts

Austria: Eastern Europe/E Mediterranean & Sahelian Africa

Breeding population size: M. Dvorak, unpublished data
Breeding short-term trend: M. Dvorak, unpublished data

Azerbaijan

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

Belarus

Breeding population size: Viksne J., Svazas S., Czajkovski A., Janaus M., Mischenko A., Kozulin A., Kuresoo A., Serebryakov V. Atlas of Duck populations in Eastern Europe. – 2010. – Vilnius, Akstis. – 199 p.
Breeding short-term trend: Viksne J., Svazas S., Czajkovski A., Janaus M., Mischenko A., Kozulin A., Kuresoo A., Serebryakov V. Atlas of Duck populations in Eastern Europe. – 2010. – Vilnius, Akstis. – 199 p. Kozulin A., Yourko V., Pareiko O., Pavlushchick T., Tcherkas N. 1998. Waterfowl in Belarus - population estimates and habitat changes. Acta orn. 33:113-126.
Breeding long-term trend: Viksne J., Svazas S., Czajkovski A., Janaus M., Mischenko A., Kozulin A., Kuresoo A., Serebryakov V. Atlas of Duck populations in Eastern Europe. – 2010. – Vilnius, Akstis. – 199 p. Kozulin A., Yourko V., Pareiko O., Pavlushchick T., Tcherkas N. 1998. Waterfowl in Belarus - population estimates and habitat changes. Acta orn. 33:113-126. 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 Data of midwinter counts of wintering waterbirds in Belarus (2009-2013). BirdLife International (2004) Birds in Europe: population estimates, trends and conservation status. Cambridge, UK: BirdLife International. (BirdLife Conservation Series, No 12).
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.

Bosnia and Herzegovina

Breeding population size: Kotrošan, D., Dročić, N., Trbojević, S., Šimić, E., Dervović, I., 2012: Program IBA, Međunarodno značajna područja za ptice, u Bosni i Hercegovini. Ornitološko društvo "Naše ptice", interno izdanje za projekat "Evaluacija IBA područja u FBiH", Sarajevo. Milanović, Đ., Kotrošan, D., 2012: Ptice i šaševi Livanjskog polja. priručnik za praćenje stanja šaševa (<i>Carex</i> sp.) i indikatorskih vrsta ptica u širem području Ždralovca. Centra mladih Livno i Ornitološko društvo „Naše ptice“, interna publikacija projekta "Monitoring populacije ptica i biljnih zajednica u Livanjskom polju". Schneider-Jacoby, M., 2010: Svitavsko jezero (Park prirode Hutovo blato) – područje gniježdenja od globalnog značaja za patku njorku (<i>Aythya nyroca</i>). Bilten Mreže posmatrača ptica u Bosni i Hercegovini, 6(6): 63.
Breeding short-term trend: Obratil S., 2000: Istraživanja faune ptica na Hutovu blatu u period siječanj – prosinac 2000 god. Nepublikovan izvještaj za projekat "Nova politika gospodarenja močvarom Hutovo blato". Stumberger, B., Sackl, P., 2008/2009: Rezultati brojanja ptica močvarica i njihov gnježdeći status u Livanjskom polju 2007.-2009. Bilten Mreže posmatrača ptica u Bosni i Hercegovini, 4-5(4-5): 38-55.
Breeding long-term trend: Obratil S., 2000: Istraživanja faune ptica na Hutovu blatu u period siječanj – prosinac 2000 god. Nepublikovan izvještaj za projekat "Nova politika gospodarenja močvarom Hutovo blato"
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.

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Bulgaria: Eastern Europe/E Mediterranean & Sahelian Africa

Breeding population size: Petkov, N. 2004. Comparative Ecological Studies on the Ferruginous Duck and Common Pochard during breeding season in Bulgaria. PhD thesis. Bulgarian Academy of Sciences Iankov, P. (ed) 2007. Breeding Bird Atlas of Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10. Sofia, BSPB
Breeding short-term trend: Iankov, P. (ed) 2007. Breeding Bird Atlas of Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10. Sofia, BSPB
Breeding long-term trend: Petkov, N. 2004. Comparative Ecological Studies on the Ferruginous Duck and Common Pochard during breeding season in Bulgaria. PhD thesis. Bulgarian Academy of Sciences Iankov, P. (ed) 2007. Breeding Bird Atlas of Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10. Sofia, BSPB
Winter population size: BSPB/BirdLife Bulgaria National Ornithological Database Petkov, N. 1996. Current Status and Distribution of Ferruginous Duck in Bulgaria. MSc Thesis, Sofia University, Faculty of Biology, Sofia. Kostadinova, I. and S. Dereliev. 2001. Results from the mid-winter counts of waterbirds in Bulgaria for the period 1997-2001. BSPB Conservation Series, Book 3, Sofia.
Winter short-term trend: Petkov, N. 1996. Current Status and Distribution of Ferruginous Duck in Bulgaria. MSc Thesis, Sofia University, Faculty of Biology, Sofia. Kostadinova, I. and S. Dereliev. 2001. Results from the mid-winter counts of waterbirds in Bulgaria for the period 1997-2001. BSPB Conservation Series, Book 3, Sofia.
Winter long-term trend: Petkov, N. 1996. Current Status and Distribution of Ferruginous Duck in Bulgaria. MSc Thesis, Sofia University, Faculty of Biology, Sofia. Kostadinova, I. and S. Dereliev. 2001. Results from the mid-winter counts of waterbirds in Bulgaria for the period 1997-2001. BSPB Conservation Series, Book 3, Sofia.

Croatia

Breeding population size: Zavod za ornitologiju (Sanja Barišić, Davor Ćiković, Jelena Kralj, Goran Sušić, Vesna Tutiš), Dragan Radović, Ivan Budinski, Robert Crnković, Antun Delić, Dubravko Dender, Vlatka Dumbović, Ivan Darko Grlica, Bariša Ilić, Luka Jurinović, Davor Krnjeta, Krešimir Leskovar, Duje Lisičić, Ivica Lolić, Gordan Lukač. Kristijan Mandić, Krešimir Mikulić, Tibor Mikuska, Gvido Piasevoli, Andrej Radalj, Zlatko Ružanović, Vlatka Ščetarić, Mirko Šetina, Adrian Tomik (2013): Procjene brojnosti za SPA područja. Državni zavod za zaštitu prirode, Zagreb
Breeding 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
Breeding 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
Winter population size: BiE III Work group, Croatia; 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: BiE III Work group, Croatia
Winter long-term trend: BiE III Work group, Croatia

Cyprus: Eastern Europe/E Mediterranean & Sahelian Africa

Breeding population size: Monthly waterbird counts by BirdLife Cyprus and Game & Fauna Service, as published in BirdLife Cyprus monthly checklists and also by the Game & Fauna Service; Analysis of recent BirdLife Cyprus bird sightings records reported in the society's annual reports.
Breeding short-term trend: Monthly waterbird counts by BirdLife Cyprus and Game & Fauna Service, as published in BirdLife Cyprus monthly checklists and also by the Game & Fauna Service; Analysis of recent BirdLife Cyprus bird sightings records reported in the society's annual reports;
Breeding long-term trend: First confirmed breeding was in 2005.
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 from 1990s onwards)

Czech Republic: Eastern Europe/E Mediterranean & Sahelian Africa

Breeding population size: STASTNY K., BEJCEK V. & HUDEC K. 2006: Atlas hnízdního rozsireni ptaku v Ceske republice. Aventinum Praha.
Breeding long-term trend: STASTNY K., BEJCEK V. & HUDEC K. 2006: Atlas hnízdního rozsireni ptaku v Ceske republice. Aventinum Praha.

Georgia

Breeding population size: BirdLife International 2004
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Germany: Eastern Europe/E Mediterranean & Sahelian Africa

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.

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

Greece: Eastern Europe/E Mediterranean & Sahelian Africa

Breeding population size: Portolou, D., Bourdakis, S., Vlachos, C., Kastiris, T., and Dimalexis, T. (eds.) 2009. Important Bird Areas of Greece: Priority sites for conservation. Hellenic Ornithological Society. Athens. Dimalexis, T., Bousbouras, D., Kastiris, T., Manolopoulos, A. & Saravia, V. (eds.) 2009. Evaluation of 69 Important Bird Areas as Special Protection Areas. Hellenic Ministry for the Environment, Physical Planning and Public Works, Athens. Hellenic Ornithological Society database. Handrinos, G., 2009. Ferruginous Duck. In: Legakis, A. & P. Maragou (eds.). The Greek Red Data Book. Hellenic Zoological Society.
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Greece: Eastern Europe/E Mediterranean & Sahelian Africa

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Hungary: Eastern Europe/E Mediterranean & Sahelian Africa

Breeding population size: Barabás, L. (2013): Breeding distribution of Hungarian Duck species. Hungarian Waterfowl Publications 23: 79-120. MME Nomenclator Bizottság (2008): Magyarország madarainak névjegyzéke. Nomenclator avium Hungariae. Magyar Madártani és Természetvédelmi Egyesület, Budapest. p. 278. Breeding bird (MME RTM) database. National Park Directorates& databases.

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Italy: Eastern Europe/E Mediterranean & Sahelian Africa

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Breeding short-term trend: Gustin M., Brambilla M. & Celada C. 2009. Valutazione dello stato di conservazione dell'avifauna italiana. Specie in Allegato I della Direttiva Uccelli. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Lega Italiana Protezione Uccelli (LIPU) Brichetti P & Fracasso G. 2013. Ornitologia italiana.Vol.1/2: Anatidae. Oasi Alberto Perdisa, Bologna

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Winter short-term trend: IWC ISPRA

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Latvia: Eastern Europe/E Mediterranean & Sahelian Africa

Breeding population size: www.putni.lv

Breeding short-term trend: There have been five cases of confirmed breeding, last of them in 1994.

Breeding long-term trend: www.putni.lv

Lithuania: Eastern Europe/E Mediterranean & Sahelian Africa

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The Former Yugoslav Republic of Macedonia

Breeding population size: Velevski, M., K. Putilin, D. Uzunova, B. Stumberger, E. Lisičanec, B. Grubač, and V. Škorpiková. 2013. State of the birds of Macedonia 2012. Macedonian Ecological Society, Skopje

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

Winter short-term trend: Wetlands International database and unpublished data of the Macedonian Ecological Society

Winter long-term trend: Wetlands International database and unpublished data of the Macedonian Ecological Society

Moldova

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Montenegro

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Montenegro

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Poland: Eastern Europe/E Mediterranean & Sahelian Africa

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Portugal: West Mediterranean/North & West Africa

Breeding population size: Informação ICNF
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Romania: Eastern Europe/E Mediterranean & Sahelian Africa

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Winter population size: International Waterbird Census, Romania SOR Database Milvus Database
Winter short-term trend: International Waterbird Census, Romania SOR Database Milvus Database
Winter long-term trend: International Waterbird Census, Romania SOR Database Milvus Database

Russia

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Serbia

Breeding population size: BPSSS (2014) Unpublished data
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Breeding long-term trend: BPSSS (2014) Unpublished data
Winter population size: Šciban 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: Šciban 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
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Slovakia: Eastern Europe/E Mediterranean & Sahelian Africa

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Slovenia: Eastern Europe/E Mediterranean & Sahelian Africa

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Slovenia: Eastern Europe/E Mediterranean & Sahelian Africa

Breeding short-term trend: Bordjan, D. (2013): Kostanjevka <i>Aythya nyroca</i> . Str. 30-38. V: Denac, K., L. Božič, T. Mihelič, D. Denac, P. Kmecl, J. Figelj & D. Bordjan: Monitoring populacij izbranih vrst ptic - popisi gnezdičk 2012 in 2013. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS-BirdLife Slovenia, Ljubljana.
Breeding long-term trend: Bordjan, D. (2013): Kostanjevka <i>Aythya nyroca</i> . Str. 30-38. V: Denac, K., L. Božič, T. Mihelič, D. Denac, P. Kmecl, J. Figelj & D. Bordjan: Monitoring populacij izbranih vrst ptic - popisi gnezdičk 2012 in 2013. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS-BirdLife Slovenia, Ljubljana.
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. – <i>Acrocephalus</i> 29 (136): 39–49. BOŽIČ, L. (2008B): Rezultati januarskega štetja vodnih ptic leta 2009 v Sloveniji. – <i>Acrocephalus</i> 29 (138/139): 169–179. BOŽIČ, L. (2010): Rezultati januarskega štetja vodnih ptic leta 2010 v Sloveniji. – <i>Acrocephalus</i> 31 (145/146): 131–141. BOŽIČ, L. (2011): Rezultati januarskega štetja vodnih ptic leta 2011 v Sloveniji. – <i>Acrocephalus</i> 32 (148/149): 67–77. BOŽIČ, L. (2012): Rezultati januarskega štetja vodnih ptic leta 2012 v Sloveniji. – <i>Acrocephalus</i> 33 (152/153): 109–119.
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Spain: West Mediterranean/North & West Africa

Breeding population size: Ballesteros, G., Cabrera, M., Echevarrias, J.L., Lorenzo, C.J., Raya, C., Torres-Esquivas, J.A. & C. Viedma (2008). Tarro canelo, cerceta pardilla, porrón pardo, malvasia cabeciblanca y focha moruna en España. Población en 2007 y método de censo. SEO/BirdLife. Madrid. 118 pp. http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/23_tarro_blanco_cerceta_pardilla_porrón_monudo_malvasia_y_focha_moruna_tcm7-218235.pdf
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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.
Winter short-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.
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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

Breeding population size: Eken G., Bozdoğan M., İsfendiyaroğlu S., Kılıç D.T., Lise Y. (2006) Türkiye'nin Önemli Doğa Alanları. Doğa Derneği, Ankara. www.kusbank.org Kirwan G.M., Boyla K.A., Castell P., Demirci B., Özen M., Welch H., Marlow T., 2008, Birds of Turkey. Londra, Christopher Helm, 978-1-4081-0475-
Breeding short-term trend: Doğa Derneği, Eken G., Bozdoğan M., İsfendiyaroğlu S., Kılıç D.T., Lise Y. (2006) Key Biodiversity Areas of Turkey (Türkiye'nin Önemli Doğa Alanları) Doğa Derneği, Ankara, KILIÇ, T., EKEN, G. 2004, Türkiye'nin Önemli Kuş Alanları Güncellemesi, Doğa Derneği. Ankara.
Breeding long-term trend: Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no: 12)
Winter population size: Kurt, B., Ozbağdatlı, N., Bozkurt, A.K., Arslangundoğdu, Z. ve Gursoy, A. 2002. Türkiye Sulakalanları Kış Ortası Sucusu Sayımı, Doğal Hayatı Koruma Derneği, İstanbul, Türkiye. Çağlayan, E., Kılıç, D.T., Per, E. ve Gem, E. 2005. Türkiye Kış Ortası Sucusu Sayımları 2005. Doğa Derneği, Ankara, Turkey Suseven, B., Onmus, O. ve İsfendiyaroğlu, S. 2006. Kış Ortası Sucusu Sayımı (KOSK) Raporu, Doğa Derneği, Ankara Onmus, O. 2007. Türkiye Kış Ortası Sucusu Sayımları 2007, Doğa Derneği, Ankara Akarsu, F. ve Balkız, Ö. 2010. Türkiye Kış Ortası Sucusu Sayımları 2008-2009-2010, Doğa Derneği, Ankara Erciyas Yavuz, K., Kartal E. 2011. Türkiye Kış Ortası Sucusu Sayımları, 2011, Ornitoloji Araştırma Merkezi, Samsun Erciyas Yavuz, K., İsfendiyaroğlu S. 2013. 2012 Türkiye Kış Ortası Sucusu 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
Winter short-term trend: Doğa Derneği

Ukraine

Breeding population size: 1. Tucker G.M., Heath M.F. Birds in Europe: their conservation status. - Cambridge. U.K. Bird Life Conservation Series №. 3. 1994. 600 p. 2. Hagemajier W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poyser. - London. 1997. 903 p. 3. Heath M.F., Evans M.I. Important birds areas in Europe. Priority sites for conservation. // Southern Europe. BirdLife International. - Cambridge. Vol.2., 2000. P. 691-724. 4. European birds populations; Estimates and trends Compiled by M. Heath, C. Borggreve, N. Peet, W. Hagemajier/ BirdLife International/EBCC. 2000. Cambridge, UK: BirdLife Conservation Series N10, 160 p. 5. Численность и размещение гнездящихся околоводных птиц в водно-болотных угодьях Азово-Черноморского побережья Украины. Под ред. В.Д. Сиохин / Wetland International Киев. 2000. 476 с. 6. Горбань І. Оцінка чисельності гніздових птахів України. Вісник Львівського університету. Серія біологічна. Випуск 34. 2003. с. 147 – 158.

Aythya nyroca (Ferruginous Duck)

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