

## *Anas platyrhynchos* (Mallard)

### 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).

#### Contents

Reported national population sizes and trends	p. 2
Trend maps of reported national population data	p. 6
Sources of reported national population data	p. 9
Species factsheet bibliography	p. 18

#### 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](mailto:science@birdlife.org).

*Anas platyrhynchos* (Mallard)

**Table 1.** Reported national breeding population size and trends in Europe<sup>1</sup>.

Country (or territory) <sup>2</sup>	Population estimate				Short-term population trend <sup>4</sup>				Long-term population trend <sup>4</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	
Albania	50-200	<1	2002-2012	poor	-	10-20	2002-2012	poor	-	20-40	1980-2012	poor	
Armenia	1,000-1,200	<1	2002-2012	medium	?				?				
Austria	12,000-18,000	<1	2001-2012	poor	0	0	2001-2012	medium	?				A. p. platyrhynchos
Azerbaijan	1,000-5,000	<1	1996-2000	poor	?				?				
Belarus	35,000-50,000	1	2010	medium	-	42-50	2001-2012	medium	-	50-81	1980-2010	medium	
Belgium	10,000-50,000	1	2008-2012	poor	+	0-10	2000-2012	medium	0	0	1973-2012	medium	A. p. platyrhynchos
Bosnia & HG	7,000-12,000	<1	2010-2014	poor	+	10-25	2001-2012	poor	?				
Bulgaria	2,500-4,500	<1	2005-2012	medium	0	0	2001-2012	medium	0	0	1980-2012	medium	A. p. platyrhynchos
Croatia	30,000-50,000	1	2013	poor	?				?				
Cyprus	30-100	<1	2005-2012	good	+	100-200	2001-2012	medium	+	1000-10000	1980-2012	medium	A. p. platyrhynchos
Czech Rep.	25,000-50,000	1	2012	medium	+	44-85	2000-2012	good	+	119-173	1982-2012	good	A. p. platyrhynchos
Denmark	20,000	1	2011	medium	0	0	1999-2011	good	0	0	1980-2011	good	A. p. platyrhynchos
DK: Faroe Is	350	<1	2014	medium	?				?				
DK: Greenland	5,000-10,000	<1	2000-2012	poor	+	10-100	2000-2012	poor	+	10-100	1980-2012	poor	
Estonia	30,000-50,000	1	2008-2012	medium	0	0-10	2001-2012	medium	-	20-50	1980-2012	medium	A. p. platyrhynchos
Finland	200,000-220,000	6	2006-2012	good	+	1-16	2001-2012	good	+	10-28	1986-2012	good	A. p. platyrhynchos
France	100,000-250,000	4	2012	poor	+		2000-2012	poor	0	0	1985-2013	poor	A. p. platyrhynchos
Georgia	Present	<1			?				?				
Germany	205,000-380,000	8	2005-2009	medium	0	0	1998-2009	medium	F	0	1990-2009	good	A. p. platyrhynchos
Greece	300-1,000	<1	2008-2012	poor	0	0	2001-2012	poor	?				A. p. platyrhynchos
Hungary	50,000	1	2000-2012	poor	-	10-30	2000-2012	poor	?				A. p. platyrhynchos
Iceland	10,000-15,000	<1	1990	poor	?				?				
Rep. Ireland	15,400	<1	2008-2011	medium	0	0	2000-2011	poor	0	0	1980-2011	poor	A. p. platyrhynchos
Italy	10,000-20,000	<1	2003	poor	-	25-35	2000-2011	poor	?				A. p. platyrhynchos
Kosovo	700-1,800	<1	2009-2014	medium	?				?				
Latvia	103,110-209,725	4	2012	medium	0	0-120	2005-2012	medium	+	158-599	1994-2012	medium	A. p. platyrhynchos
Liechtenstein	10-20	<1	2009-2014	good	+	20-40	2003-2014	medium	+	50-100	1980-2014	medium	
Lithuania	50,000-70,000	2	2008-2012	medium	-	10-30	2001-2012	medium	-	10-30	1980-2012	medium	A. p. platyrhynchos
Luxembourg	1,000-1,500	<1	2008-2012	medium	0	0	2000-2012	poor	+	0-10	1980-2012	poor	A. p. platyrhynchos
FYRO Macedonia	200-600	<1	2001-2012	poor	?				?				
Moldova	1,200-2,000	<1	2000-2010	medium	F	0	2000-2010	medium	-	5-10	1980-2010	medium	
Montenegro	30-100	<1	2002-2012	good	-		2002-2012	good	?				

*Anas platyrhynchos* (Mallard)

**Table 1.** Reported national breeding population size and trends in Europe<sup>1</sup>.

Country (or territory) <sup>2</sup>	Population estimate				Short-term population trend <sup>4</sup>				Long-term population trend <sup>4</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	
Netherlands	302,040-431,485	10	2008-2011	medium	-	17-28	2002-2011	medium	-	22-46	1984-2011	medium	A. p. platyrhynchos
Norway	43,000-75,250	2	2010	good	+	7-8	1996-2010	medium	0	0	1990-2012	good	
Poland	180,000-320,000	7	2008-2012	good	+	50-80	2000-2012	good	0	0	1980-2012	medium	A. p. platyrhynchos
Portugal	Present	<1	2002		+		2001-2012	poor	?				A. p. platyrhynchos
PT: Azores	Present	<1			?				?				A. p. platyrhynchos
Romania	61,666-75,075	2	2008-2013	medium	F	0-20	2000-2012	poor	?				A. p. platyrhynchos
Russia	900,000-1,300,000	30	2000-2008	medium	?				?				
Serbia	30,000-37,000	1	2008-2012	medium	-	10-29	2000-2012	medium	-	10-29	1980-2012	medium	
Slovakia	13,000-20,000	<1	2002-2012	medium	0	0	2000-2012	medium	0	0	1980-2012	medium	A. p. platyrhynchos
Slovenia	3,000-9,000	<1	2008-2012	medium	0	0	2001-2012	medium	0	0	1980-2012	poor	A. p. platyrhynchos
Spain	85,000-262,000	4	2007	good	0	0	1998-2012	good	+		1980-2012	medium	A. p. platyrhynchos
Sweden	160,000-239,000	6	2008-2012	medium	0	0	2001-2012	good	+	10-30	1980-2012	good	A. p. platyrhynchos
Switzerland	10,000-20,000	<1	2008-2012	medium	+	16-50	2001-2012	good	+	61-179	1990-2012	medium	
Turkey	3,000-6,000	<1	2013	poor	-	0-9	2000-2012	poor	-	0-19	1990-2013	poor	
Ukraine	72,000-112,000	2	2008	medium	-	10-20	2001-2012	medium	-	15-30	1980-2012	medium	
United Kingdom	61,000-146,000	3	2009	medium	+	9	1998-2010	good	+	37	1980-2010	good	A. p. platyrhynchos
<b>EU27</b>	<b>1,700,000-2,910,000</b>	<b>61</b>			<b>Stable</b>								
<b>Europe</b>	<b>2,850,000-4,610,000</b>	<b>100</b>			<b>Stable</b>								

<sup>1</sup> 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>.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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.

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

<sup>6</sup> Trend magnitudes are rounded to the nearest integer.

*Anas platyrhynchos* (Mallard)

**Table 2.** Reported national wintering population sizes and trends in Europe<sup>1</sup>. 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) <sup>2</sup>	Population estimate				Short-term population trend <sup>4</sup>				Long-term population trend <sup>4</sup>				Subspecific population (where relevant)
	Size (individuals) <sup>3</sup>	Europe (%)	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	
Albania	1,500-6,200	<1	2002-2012	good	-	20-30	2002-2012	good	-	20-30	1980-2012	medium	
Armenia	225-4,832	<1	2003-2013	good	?				?				
Austria	38,000-46,000	1	2008-2010	good	0	0	2001-2012	good	0	0	1980-2012	medium	
Azerbaijan	25,000-70,000	1	1996-2002	medium	?				?				
Belarus	30,000-40,000	1	2009-2010	medium	-	33-35	2000-2010	medium	F	35-60	1980-2010	medium	
Belgium	109,311-143,281	2	2008-2012	good	-	0-4	2001-2012	good	+	0-2	1992-2012	good	
Bosnia & HG	10,000-30,000	<1	2008-2013	medium	+	50-60	2000-2013	medium	?				
Bulgaria	30,000-80,000	1	2008-2012	medium	-	38	2000-2012	medium	F	20-30	1980-2012	medium	
Croatia	40,000-60,000	1	2011	medium	?				?				
Cyprus	800-1,400	<1	2008-2012	good	0	0	2001-2012	medium	+	200-1000	1980-2012	medium	
Czech Rep.	134,335	3	2011	medium	0	0	2000-2011	medium	0	0	1980-2011	medium	
Denmark	135,000	3	2008	good	0	0	2000-2011	good	0	0	1980-2011	good	
DK: Faroe Is	300-600	<1	1992	medium	?				?				
DK: Greenland	10,000-50,000	<1	2000-2012	poor	+	10-100	2000-2012	poor	+	10-100	1980-2012	poor	
Estonia	10,000-20,000	<1	2008-2012	medium	+	20-50	2001-2012	medium	0	0-10	1980-2012	medium	
Finland	18,000-26,000	<1	2007-2012	medium	0	0	2001-2012	good	+	17-43	1983-2012	good	
France	300,156	6	2012	good	+	27-46	2000-2012	good	+	6-26	1980-2012	good	
Georgia	34,442	1	2002	good	?				?				
Germany	900,000	18	2000-2005	medium	-	6-35	1997-2009	good	-	18-40	1984-2009	good	
Greece	30,331-77,040	1	2007-2013	good	+	200	2004-2013	good	+	23	1982-2013	good	
Iceland	28,164-56,356	1	2006-2008	good	?				?				
Rep. Ireland	20,050	<1	2006-2011	medium	F	0	1999-2011	good	?				
Italy	235,953-245,026	5	2007-2009	good	+	5-95	2000-2009	good	+	215-230	1991-2009	good	
Kosovo	2,000-3,500	<1	2009-2014		?				?				
Latvia	10,000-30,000	<1	1999	medium	0	0	2001-2012	medium	0	0	1984-2012	medium	
Liechtenstein	350	<1	2009-2014	good	0	0	2003-2014	good	-	60-80	1980-2014	good	
Lithuania	15,500-39,400	<1	2010-2012	good	0	0	2001-2012	medium	?				
Luxembourg	2,500-4,000	<1	2008-2012	medium	0	0-10	2000-2012	medium	0	0-30	1980-2012	medium	
FYRO Macedonia	200-5,000	<1	2001-2012	medium	F	0	2000-2012	medium	F	0	1980-2012	medium	
Malta	1-50	<1	2012	poor	?				?				
Moldova	3,100-10,500	<1	2000-2010	medium	0	10-20	2000-2010	medium	F	30-50	1980-2010	medium	

*Anas platyrhynchos* (Mallard)

**Table 2.** Reported national wintering population sizes and trends in Europe<sup>1</sup>. 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) <sup>2</sup>	Population estimate				Short-term population trend <sup>4</sup>				Long-term population trend <sup>4</sup>				Subspecific population (where relevant)
	Size (individuals) <sup>3</sup>	Europe (%)	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	
Montenegro	1,200-2,500	<1	2003-2012	good	-		2003-2012	good	-		1991-2012	good	
Netherlands	566,175-646,872	12	2006-2010	medium	-	16-42	2000-2011	good	-	21-46	1981-2011	good	
Norway	60,000-92,000	1	1994-2003	medium	?				?				
Poland	170,000-220,000	4	2011-2012	good	?				F	0	1985-2012	medium	
Portugal	16,847	<1	2007-2011	medium	+	8-16	2001-2012	good	0	0	1987-2012	good	
Romania	100,000-250,000	3	2008-2013	medium	+	1-5	2000-2013	medium	?				
Serbia	100,000-250,000	3	2008-2012	medium	F	0	2000-2012		?				
Slovakia	80,000-110,000	2	2011	good	0	0	2000-2012	good	-	10-40	1980-2012	good	
Slovenia	22,000-40,000	1	2008-2012	medium	0	0	2001-2012	good	-	10-20	1980-2012	medium	
Spain	225,046-274,046	5	2008-2010	good	0	0	1998-2012	good	+	3	1980-2009	good	
Sweden	110,000-170,000	3	2008-2012	good	0	0	2001-2012	good	+	110-150	1980-2012	good	
Switzerland	39,310-46,197	1	2008-2012	good	0	0	2001-2012	good	-	6-7	1980-2012	good	
Turkey	11,989-106,140	1	2002-2012	good	F	0	2002-2012	poor	?				
Ukraine	130,000-253,000	4	2008	medium	-	10-40	2001-2012	medium	-	10-25	1980-2012	medium	
United Kingdom	710,000	14	2004-2008	medium	-	16	1999-2010	good	-	32	1980-2010	good	
<b>EU27</b>	<b>3,990,000-4,640,000</b>	<b>84</b>			<b>Decreasing</b>								
<b>Europe</b>	<b>4,520,000-5,760,000</b>	<b>100</b>			<b>Decreasing</b>								

<sup>1</sup> 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>.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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.

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

<sup>6</sup> 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

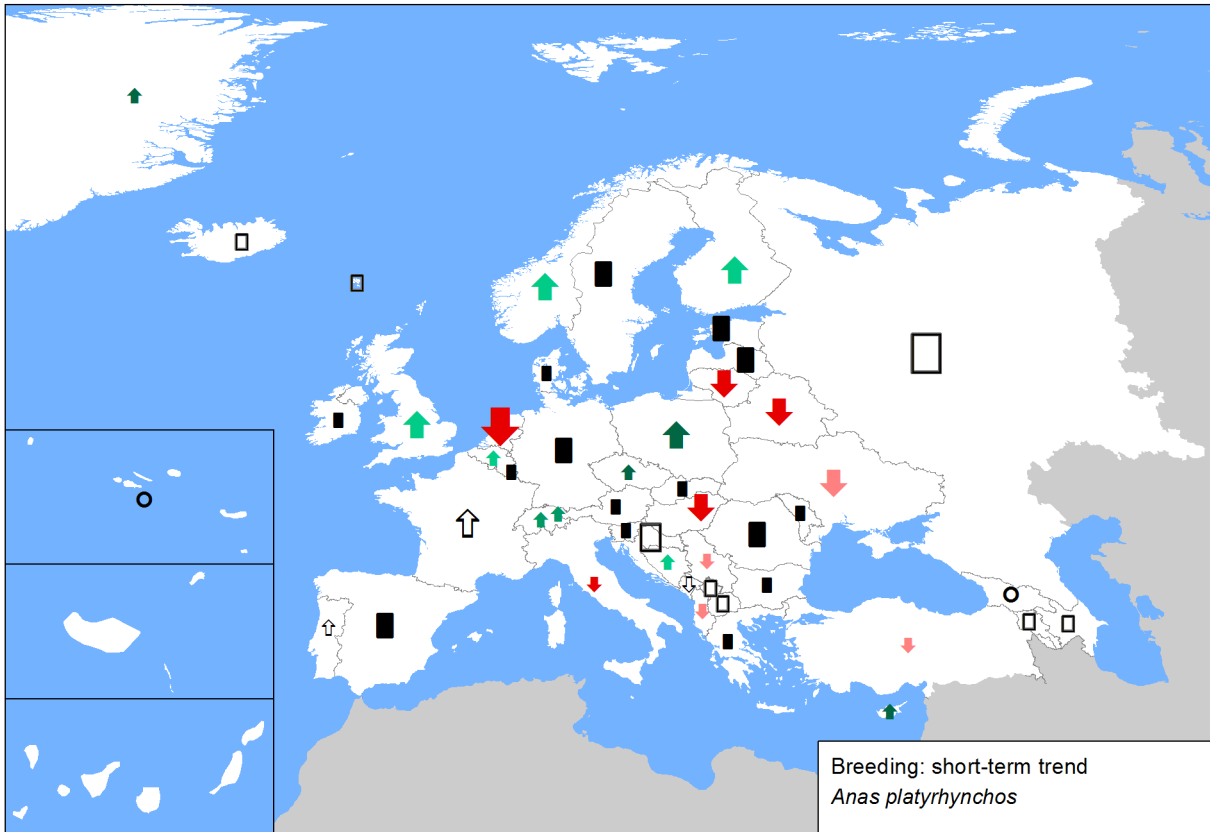
- |   |                                  |
|---|----------------------------------|
| ↑ Large increase ( $\geq 50\%$ )        | ↓ Large decrease ( $\geq 50\%$ ) |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)     |
| ↑ Small increase ( $< 20\%$ )           | ↓ Small decrease ( $< 20\%$ )    |
| ↑ 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.

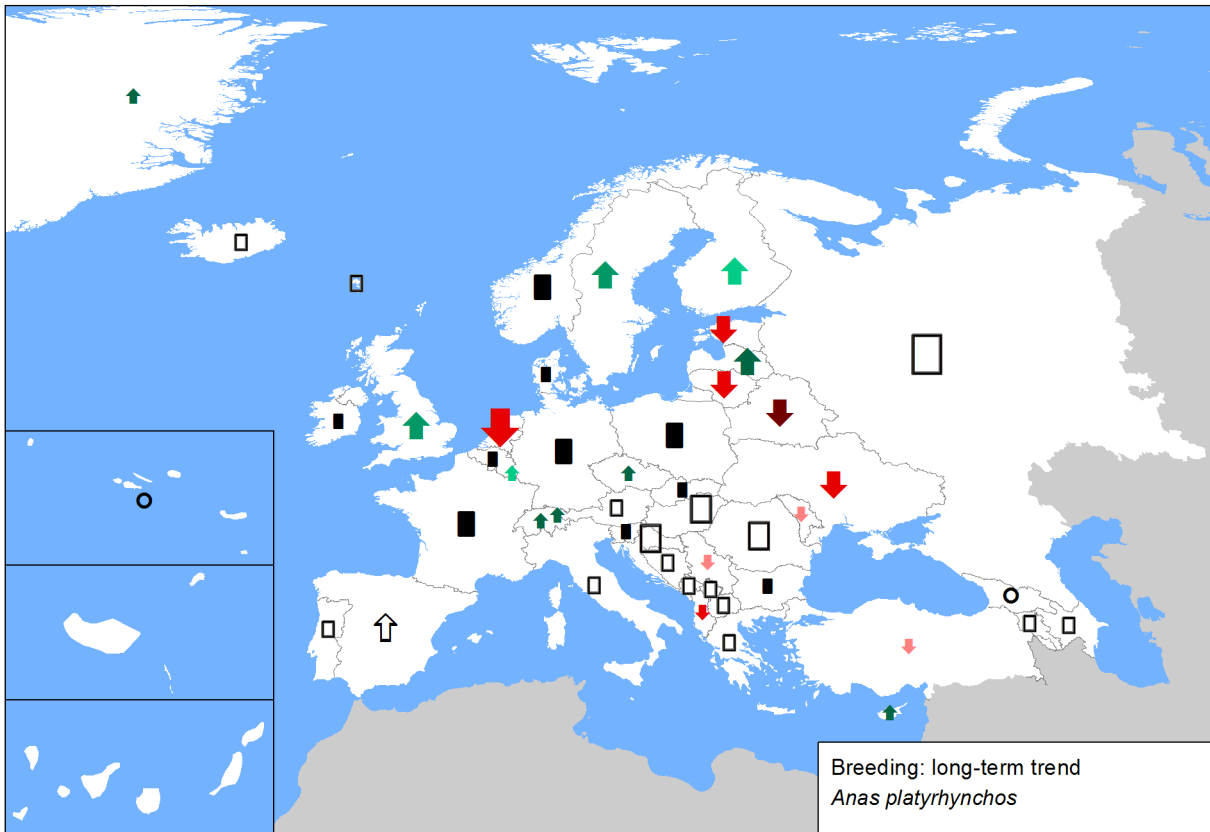
- ↑ Large:  $\geq 10\%$  of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small:  $< 1\%$  of the European population

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.

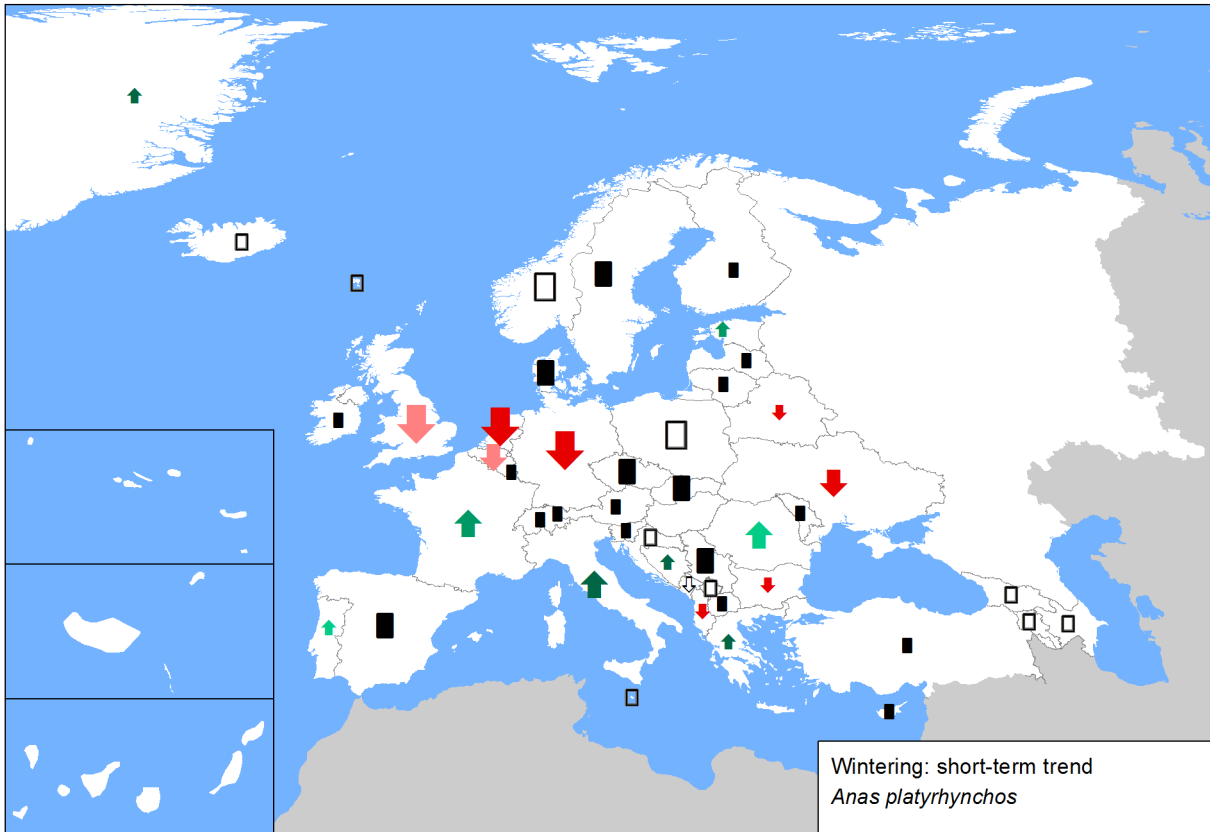
**Figure 1.** Breeding population sizes and short-term trends across Europe.



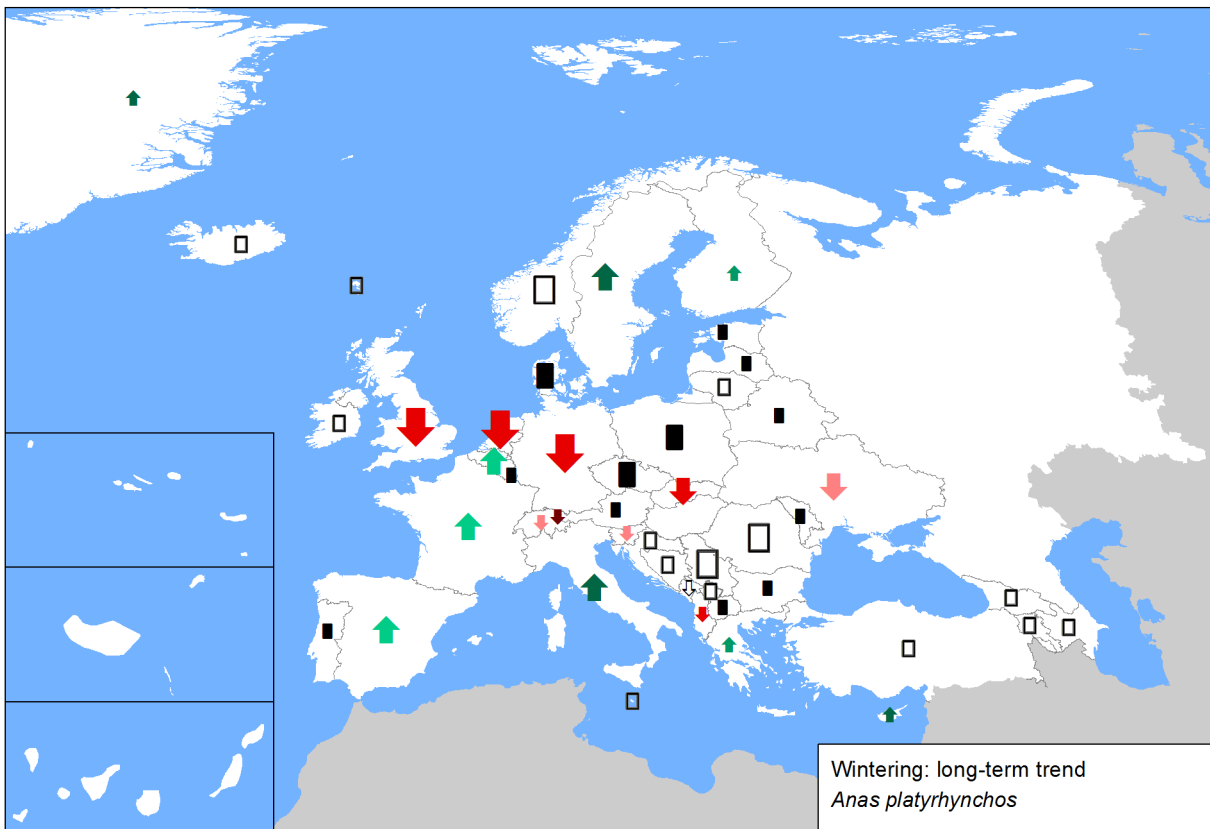
**Figure 2.** Breeding population sizes and long-term trends across Europe.



**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.





*Anas platyrhynchos* (Mallard)

## Sources

### Albania

<b>Breeding population size:</b> Bino pers. obs.
<b>Breeding short-term trend:</b> Bino pers. obs.
<b>Breeding long-term trend:</b> Bino pers. obs.
<b>Winter population size:</b> Bino pers. obs.
<b>Winter short-term trend:</b> Bino pers. obs.
<b>Winter long-term trend:</b> Bino pers. obs.

### Armenia

<b>Breeding population size:</b> ASPB data
<b>Winter population size:</b> ASPB IWC counts

### Austria: *A. p. platyrhynchos*

<b>Breeding population size:</b> BirdLife Austria, extrapolation on the basis of available unpublished and published population and density data
<b>Breeding short-term trend:</b> BirdLife Austria, estimate on the basis of available unpublished and published trend data
<b>Winter population size:</b> BirdLife Austria, unpublished IWC data
<b>Winter short-term trend:</b> BirdLife Austria, unpublished IWC data
<b>Winter long-term trend:</b> BirdLife Austria, unpublished IWC data

### Azerbaijan

<b>Breeding population size:</b> BirdLife International 2004
<b>Winter population size:</b> BirdLife International 2004

### Belarus

<b>Breeding population size:</b> 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.
<b>Breeding short-term trend:</b> Kozulin A., Yourko V., Pareiko O., Pavlushchick T., Tcherkas N. 1998. Waterfowl in Belarus - population estimates and habitat changes. Acta orn. 33:113-126. 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.
<b>Breeding long-term trend:</b> Kozulin A., Yourko V., Pareiko O., Pavlushchick T., Tcherkas N. 1998. Waterfowl in Belarus - population estimates and habitat changes. Acta orn. 33:113-126. 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. Nikiforov M.E., Kozulin A.V., eds. Belarussian birds at the beginning of XXI century: status, numbers, distribution. - 1997. - Minsk. - 187 p.
<b>Winter population size:</b> Natikanets V.V., Ostrovski O.A. Population dynamics of Mallard <i>Anas platyrhynchos</i> wintering in Belarus and hunting impact on numbers of local breeding population // Youth in Science – 2009: Application to Vesci Natsiyana'nay Akademii Navuk Belarusi. Part 4 - Ser.biyal.navuk. – 2010. – Minsk. – P.193-196
<b>Winter short-term trend:</b> Natikanets V.V., Ostrovski O.A. Population dynamics of Mallard <i>Anas platyrhynchos</i> wintering in Belarus and hunting impact on numbers of local breeding population // Youth in Science – 2009: Application to Vesci Natsiyana'nay Akademii Navuk Belarusi. Part 4 - Ser.biyal.navuk. – 2010. – Minsk. – P.193-196
<b>Winter long-term trend:</b> Natikanets V.V., Ostrovski O.A. Population dynamics of Mallard <i>Anas platyrhynchos</i> wintering in Belarus and hunting impact on numbers of local breeding population // Youth in Science – 2009: Application to Vesci Natsiyana'nay Akademii Navuk Belarusi. Part 4 - Ser.biyal.navuk. – 2010. – Minsk. – P.193-196

### Belgium: *A. p. platyrhynchos*

<b>Breeding population size:</b> Data Breeding Bird atlas Wallonia (Jacob et al 2010), Brussels (Weiserbs 2012) and Flanders (Vermeersch et al 2004) in combination with trend data.
<b>Breeding short-term trend:</b> Common bird monitoring schemes
<b>Breeding long-term trend:</b> Comparison between 2008-2012 estimate and Devillers, 1989 (Atlas of the Belgian Breeding Bird) population estimate
<b>Winter population size:</b> waterbird database INBO + Aves
<b>Winter short-term trend:</b> waterbird database INBO and Aves
<b>Winter long-term trend:</b> waterbird database INBO and Aves

### Bosnia and Herzegovina

<b>Breeding population size:</b> unpublsh data
<b>Breeding short-term trend:</b> Stumberger, B., Sackl, P., 2008/2009: Rezultati brojanja ptica močvarica i njihov gnjezdeći status u Livanjskom polju 2007.-2009. Bilten Mreže posmatrača ptica u Bosni i Hercegovini, 4-5(4-5): 38-55., Urošević M., Matarugić D., Drobnjak D., Ristić Z., Urošević B., 2012: Lovni fond i njegovo korišćenje u Republici Srpskoj. Zbornik sažetaka, I Međunarodni simpozijum XVII Naučno-stručno savjetovanje agronoma Republike Srpske, Trebinje, pp: 61-75.
<b>Winter population size:</b> 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.

## *Anas platyrhynchos* (Mallard)

### Bosnia and Herzegovina

**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: Izveštaj 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. p. platyrhynchos*

**Breeding population size:** Iankov, P. (ed.) 2007 Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 679 p. Green Balkans. 2009. Integrated management plan for Special Protection Area "Pomorie Lake" (BG0000152) under the Bird Directive, Site of Community Interest "Pomorie" (BG0000620) under the Habitat Directive, "Pomorie Lake" Protected Area and "Pomorie Lake" Ramsar site, 212 c. BSPB Bird Database Po sledite na pticite (<http://www.worldbirds.org>) Shurulinkov, P. G. Daskalova, R. Tzonev, 2013. Breeding Waterbirds in Temporally Flooded Wetlands in Northern Bulgaria. Acta zool. bulg., 65 (2), 2013: 207-215

**Breeding short-term trend:** Iankov, P. (ed.) 2007 Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 679 p. Green Balkans. 2009. Integrated management plan for Special Protection Area "Pomorie Lake" (BG0000152) under the Bird Directive, Site of Community Interest "Pomorie" (BG0000620) under the Habitat Directive, "Pomorie Lake" Protected Area and "Pomorie Lake" Ramsar site, 212 c. BSPB Bird Database Po sledite na pticite (<http://www.worldbirds.org>) Shurulinkov, P. G. Daskalova, R. Tzonev, 2013. Breeding Waterbirds in Temporally Flooded Wetlands in Northern Bulgaria. Acta zool. bulg., 65 (2), 2013: 207-215

**Breeding long-term trend:** expert opinion

**Winter population size:** Mid-winter count of waterfowl

**Winter short-term trend:** Statistical analysis made by expert on base of Mid-winter count data

**Winter long-term trend:** expert opinion

### Croatia

**Breeding population size:** BiE III Work group, Croatia

**Breeding short-term trend:** BiE III Work group, Croatia

**Breeding long-term trend:** BiE III Work group, Croatia

**Winter population size:** Report on the implementation of AEWA for the period 2009-2011 - Croatia. <http://www.unep-aewa.org/en/document/national-report-croatia-2>

**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. p. platyrhynchos*

**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; Whaley DJ & Dawes JC, 2003 Cyprus breeding Birds' Atlas.

**Breeding long-term trend:** For the period 2005-12, based on systematic monthly waterbird 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; Whaley DJ & Dawes JC, 2003 Cyprus breeding Birds' Atlas.

**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 the 1990s onwards)

### Czech Republic: *A. p. platyrhynchos*

**Breeding population size:** STASTNY K., BEJCEK V. & HUDEC K. 2006: Atlas hnízdního rozšíření ptaku v České republice. Aventinum Praha JPSP: <http://jpsp.birds.cz/vysledky.php?taxon=348>

**Breeding short-term trend:** JPSP: <http://jpsp.birds.cz/vysledky.php?taxon=348>

**Breeding long-term trend:** JPSP: <http://jpsp.birds.cz/vysledky.php?taxon=348>

**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: *A. p. platyrhynchos*

**Breeding population size:** BIRDLIFE INTERNATIONAL (2004) Birds in Europe: population estimates, trends and conservation status. Wageningen, The Netherlands: BirdLife International. (BirdLife Conservation Series No. 12) Heldbjerg, H. & Lerche-Jørgensen, M. (2012): Overvågning af de danske almindelige fuglearter i Danmark 1975-2011. Årsrapport for Punkttællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1999-2011)

**Breeding short-term trend:** Heldbjerg, H. & Lerche-Jørgensen, M. (2012): Overvågning af de danske almindelige fuglearter i Danmark 1975-2011. Årsrapport for Punkttællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1999-2011)

## *Anas platyrhynchos* (Mallard)

### Denmark: *A. p. platyrhynchos*

<b>Breeding long-term trend:</b> Heldbjerg, H. & Lerche-Jørgensen, M. (2012): Overvågning af de danske almindlige fuglearter i Danmark 1975-2011. Årsrapport for Punkttællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1980-2011)
<b>Winter population size:</b> 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.
<b>Winter short-term trend:</b> 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.
<b>Winter long-term trend:</b> 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. Laursen, K., Pihl, S., Durinck, J., Hansen, M., Skov, H., Frikke, J. & Danielsen, F. (1997): Numbers and distribution of Waterbirds in Denmark 1987-1989. – Danish Review of Game Biology vol. 15 no. 1. 181 s.

### DK: Faroe Is

<b>Breeding population size:</b> Hammer et al. (2014) Færøsk trækfugleatlas [Faroese bird migration atlas]. Fróðskapur / Faroese University Press, Tórshavn.
<b>Winter population size:</b> BirdLife International 2004

### DK: Greenland

<b>Breeding population size:</b> Boertmann, D. unpublished
<b>Breeding short-term trend:</b> Boertmann, D. unpublished
<b>Breeding long-term trend:</b> Boertmann, D. unpublished
<b>Winter population size:</b> Boertmann, D. unpublished
<b>Winter short-term trend:</b> Boertmann, D. unpublished
<b>Winter long-term trend:</b> Boertmann, D. unpublished

### Estonia: *A. p. platyrhynchos*

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

### Finland: *A. p. platyrhynchos*

<b>Breeding population size:</b> Pöysä, H., Rintala, J., Lehikoinen, A., & Väisänen, R. A. (2013). The importance of hunting pressure, habitat preference and life history for population trends of breeding waterbirds in Finland. <i>Eur J Wild Res</i> 59:245-256. Doi:10.1007/s10344-012-0673-8
<b>Breeding short-term trend:</b> Pöysä, H., Rintala, J., Lehikoinen, A., & Väisänen, R. A. (2013). The importance of hunting pressure, habitat preference and life history for population trends of breeding waterbirds in Finland. <i>Eur J Wild Res</i> 59:245-256. Doi:10.1007/s10344-012-0673-8 <a href="http://www.rktl.fi/riista/riistavarat/vesilinnut_vuonna.html">http://www.rktl.fi/riista/riistavarat/vesilinnut_vuonna.html</a>
<b>Breeding long-term trend:</b> Pöysä, H., Rintala, J., Lehikoinen, A., & Väisänen, R. A. (2013). The importance of hunting pressure, habitat preference and life history for population trends of breeding waterbirds in Finland. <i>Eur J Wild Res</i> 59:245-256. Doi:10.1007/s10344-012-0673-8 Lehikoinen, A., Pöysä, H., Rintala, J. & Väisänen, R.A. 2013: Population changes of 20 waterbird species in Finnish lakes in 1986–2012. – <i>Linnut-vuosikirja</i> 2012: 95–101. (in Finnish with English summary)
<b>Winter population size:</b> BirdLife Finland 2013: Regional observation summary database of Finnish Birdwatching societies on wintering bird species.
<b>Winter short-term trend:</b> Winter bird censuses of the Finnish Museum of Natural History, University of Helsinki.
<b>Winter long-term trend:</b> Winter bird censuses of the Finnish Museum of Natural History, University of Helsinki.

### France: *A. p. platyrhynchos*

<b>Breeding population size:</b> <a href="http://www.atlas-ornitho.fr/index.php?m_id=505">http://www.atlas-ornitho.fr/index.php?m_id=505</a>
<b>Breeding short-term trend:</b> Yeatman-Berthelot, D. & Jarry, G. 1994 <i>Nouvel Atlas des Oiseaux Nicheurs de France</i> , SEOF, Paris, 775 p. <a href="http://www.atlas-ornitho.fr/index.php?m_id=505">http://www.atlas-ornitho.fr/index.php?m_id=505</a>
<b>Breeding long-term trend:</b> Yeatman-Berthelot, D. & Jarry, G. 1994 <i>Nouvel Atlas des Oiseaux Nicheurs de France</i> , SEOF, Paris, 775 p. <a href="http://www.atlas-ornitho.fr/index.php?m_id=505">http://www.atlas-ornitho.fr/index.php?m_id=505</a>
<b>Winter population size:</b> 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
<b>Winter short-term trend:</b> 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
<b>Winter long-term trend:</b> 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

<b>Breeding population size:</b> BirdLife International 2004
--

## *Anas platyrhynchos* (Mallard)

### Georgia

**Winter population size:** BirdLife International 2004

### Germany: *A. p. platyrhynchos*

**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:** Monitoring häufiger Brutvögel

**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: *A. p. platyrhynchos*

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

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

**Winter population size:** Midwinter Counts Database, Hellenic Ornithological Society

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

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

### Hungary: *A. p. platyrhynchos*

**Breeding population size:** Barabás, L. (2013): Breeding distribution of Hungarian Duck species. Hungarian Waterfowl Publications 23: 79-120. 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.

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

### Iceland

**Breeding population size:** Umhverfissráðuneytið 1992

**Winter population size:** Arnþór Garðarsson 2009

### Republic of Ireland: *A. p. platyrhynchos*

**Breeding population size:** Balmer, D., Gillings, S., Caffrey, B., Swan, B., Downie, I. & Fuller, R. (2013) Bird Atlas 2007-11 The breeding and wintering birds of Britain and Ireland. British Trust for Ornithology. Sharrock, J.T.R. (1976) The Atlas of Breeding Birds in Britain and Ireland. T. & AD Poyser.

**Breeding short-term trend:** Balmer, D., Gillings, S., Caffrey, B., Swan, B., Downie, I. & Fuller, R. (2013) Bird Atlas 2007-11 The breeding and wintering birds of Britain and Ireland. British Trust for Ornithology. Gibbons D.W., Reid J.B. & Chapman R.A. (1993) The New Atlas of Breeding Birds in Britain and Ireland 1988-1991. Poyser, London.

**Breeding long-term trend:** Balmer, D., Gillings, S., Caffrey, B., Swan, B., Downie, I. & Fuller, R. (2013) Bird Atlas 2007-11 The breeding and wintering birds of Britain and Ireland. British Trust for Ornithology. Sharrock, J.T.R. (1976) The Atlas of Breeding Birds in Britain and Ireland. T. & AD Poyser.

**Winter population size:** Crowe, O. & Holt, C. (2013) Estimates of waterbird numbers wintering in Ireland, 2006/07 – 2010/11. Irish Birds 9:4.

**Winter short-term trend:** Crowe, O. (2013) Calculations of short- and long-term trends of wintering waterbirds for Article 12 reporting. Unpublished note. Crowe, O. & Holt, C. (2013) Estimates of waterbird numbers wintering in Ireland, 2006/07 – 2010/11. Irish Birds 9:4.

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

### Italy: *A. p. platyrhynchos*

**Breeding population size:** BirdLife International 2004. Birds in Europe: population estimates, trends and conservation status. Cambridge, UK: BirdLife International. BirdLife Conservation Series No. 12 Brichetti P & Fracasso G. 2013. Ornitologia italiana. Vol. 1/2: Anatidae. Oasi Alberto Perdisa, Bologna

**Breeding short-term trend:** Campedelli T, Buvoli L, Bonazzi P, Calabrese L, Calvi G, Celada C, Cutini S, De Carli E, Fornasari L, Fulco E, La Gioia G, Londi G, Rossi P, Silva L & Tellini Florenzano G. 2011. Andamenti di popolazione delle specie comuni in Italia: 2000-2011. Avocetta 36: 121-143

**Breeding long-term trend:** Brichetti P & Fracasso G. 2013. Ornitologia italiana. Vol. 1/2: Anatidae. Oasi Alberto Perdisa, Bologna Campedelli T, Buvoli L, Bonazzi P, Calabrese L, Calvi G, Celada C, Cutini S, De Carli E, Fornasari L, Fulco E, La Gioia G, Londi G, Rossi P, Silva L & Tellini Florenzano G. 2011. Andamenti di popolazione delle specie comuni in Italia: 2000-2011. Avocetta 36: 121-143

**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

### Kosovo

**Breeding population size:** NGO "Finch" (2014)

**Winter population size:** NGO "Finch" (2014)



## *Anas platyrhynchos* (Mallard)

### Latvia: *A. p. platyrhynchos*

<b>Breeding population size:</b> Calculation based on data collected in Latvian Breeding bird monitoring scheme: Aunins A., Keišs O. 2012. [Monitoring for the Farmland Bird Population Index. Final report for the year 2012.]. Latvian Ornithological society, 47 pp
<b>Breeding short-term trend:</b> Aunins A. 2012. [Changes in the Abundance of Common Birds in Latvia during the Previous Seven Years]. Putni Dabā 2013/1, 10 - 13. Aunins A., Keišs O. 2012. [Monitoring for the Farmland Bird Population Index. Final report for the year 2012.]. Latvian Ornithological society, 47 pp
<b>Breeding long-term trend:</b> Aunins A., Keišs O. 2012. [Monitoring for the Farmland Bird Population Index. Final report for the year 2012.]. Latvian Ornithological society, 47 pp Strazds M., Priednieks J., Vaverins G. 1994. Latvijas putnu skaits. – Putni daba, 4: 3–18.
<b>Winter population size:</b> LOB, 1999. Latvijas ūdeņu putni
<b>Winter short-term trend:</b> WI IWC
<b>Winter long-term trend:</b> WI IWC

### Liechtenstein

<b>Breeding population size:</b> Willi, G. (2014) Unpublished collection data
<b>Breeding short-term trend:</b> Willi, G. (2006) Die Vögel des Fürstentums Liechtenstein. Amtlicher Lehrmittelverlag, Vaduz (Naturkundliche Forschung im Fürstentum Liechtenstein, Bd. 22.
<b>Breeding long-term trend:</b> Willi, G. & M.F. Broggi (1983) Die Vogelwelt des Fürstentums Liechtenstein unter Berücksichtigung der benachbarten Gebiete; Teil I: Gaviiformes (Seetaucher) – Falconiformes (Greifvögel). Ber. Bot.-Zool. Ges. Liechtenstein-Sargans-Werdenberg, Band 12, S. 61-117.; Willi, G. (2006) Die Vögel des Fürstentums Liechtenstein. Amtlicher Lehrmittelverlag, Vaduz (Naturkundliche Forschung im Fürstentum Liechtenstein, Bd. 22.
<b>Winter population size:</b> Willi, G. (2013) Winterliche Wasservogelzählungen in Liechtenstein. Ber. Bot.-Zool. Ges. Liechtenstein-Sarganserland-Werdenberg, 37, S. 125-135, Schaan.; Willi, G. (2014) Unpublished water bird count data
<b>Winter short-term trend:</b> Willi, G. (2013) Winterliche Wasservogelzählungen in Liechtenstein. Ber. Bot.-Zool. Ges. Liechtenstein-Sarganserland-Werdenberg, 37, S. 125-135, Schaan.; Willi, G. (2014) Unpublished water bird count data
<b>Winter long-term trend:</b> Willi, G. (2013) Winterliche Wasservogelzählungen in Liechtenstein. Ber. Bot.-Zool. Ges. Liechtenstein-Sarganserland-Werdenberg, 37, S. 125-135, Schaan.

### Lithuania: *A. p. platyrhynchos*

<b>Breeding population size:</b> Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“, 288 p. Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt)
<b>Breeding short-term trend:</b> BirdLife International/European Bird Census Council 2004. Birds in Europe: population estimates, trends and conservation status. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 12). Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“, 288 p. Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt)
<b>Breeding long-term trend:</b> BirdLife International/European Bird Census Council. 2000. European bird populations: estimates and trends. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 10). Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“, 288 p. Kurlavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“, 256 p. Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt)
<b>Winter population size:</b> L. Šniaukšta & E. Pakštytė. 2013. Results of the midwinter waterfowl counts in Lithuania, 2013. Paukščiai 1(17). Pages 23-29 (In Lithuanian with english summary. Direct link: <a href="http://www.birdlife.lt/c/document_library/get_file?uuid=ebaafc06-5983-4331-a691-77b0c1e72553&amp;groupId=10136">http://www.birdlife.lt/c/document_library/get_file?uuid=ebaafc06-5983-4331-a691-77b0c1e72553&amp;groupId=10136</a> ) Laimonas Šniaukšta (lsniauksta@gmail.com)
<b>Winter short-term trend:</b> Laimonas Šniaukšta (lsniauksta@gmail.com) Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt)

### Luxembourg: *A. p. platyrhynchos*

<b>Breeding population size:</b> 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): Wasservogel an der Sauer im Raum Echternach: Bestand und Ausblick. Wissenschaftliche Berichte, 25: 41-55 ( <a href="http://www.luxnatur.lu/publi/wb25001144.pdf">http://www.luxnatur.lu/publi/wb25001144.pdf</a> )
<b>Breeding short-term trend:</b> 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): Wasservogel an der Sauer im Raum Echternach: Bestand und Ausblick. Wissenschaftliche Berichte, 25: 41-55 ( <a href="http://www.luxnatur.lu/publi/wb25001144.pdf">http://www.luxnatur.lu/publi/wb25001144.pdf</a> )
<b>Breeding long-term trend:</b> 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): Wasservogel an der Sauer im Raum Echternach: Bestand und Ausblick. Wissenschaftliche Berichte, 25: 41-55 ( <a href="http://www.luxnatur.lu/publi/wb25001144.pdf">http://www.luxnatur.lu/publi/wb25001144.pdf</a> ) Melchior E., E. Mentgen, R. Peltzer, R. Schmitt, J. Weiss (1987): Atlas der Brutvögel Luxemburgs. Lëtzebuurger Natur- a Vulleschutzliga. Kremer-Muller & Cie, Foetz, Luxembourg
<b>Winter population size:</b> 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): Wasservogel an der Sauer im Raum Echternach: Bestand und Ausblick. Wissenschaftliche Berichte, 25: 41-55 ( <a href="http://www.luxnatur.lu/publi/wb25001144.pdf">http://www.luxnatur.lu/publi/wb25001144.pdf</a> )
<b>Winter short-term trend:</b> 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.
<b>Winter long-term trend:</b> LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Erasmy, J.-J. & L. Schley (2010): Bulletin technique de l'Aministration de la Nature et des Forêts en matière de gestion de la faune sauvage et de chasse, Numéro 1. Imprimerie centrale.

### The Former Yugoslav Republic of Macedonia

<b>Breeding population size:</b> M. Veleviski, unedited data
<b>Winter population size:</b> Wetlands International database, Macedonian Ecological Society unpublished data
<b>Winter short-term trend:</b> Wetlands International database, Macedonian Ecological Society unpublished data
<b>Winter long-term trend:</b> Wetlands International database, Macedonian Ecological Society unpublished data

## *Anas platyrhynchos* (Mallard)

### Malta: *A. p. platyrhynchos*

**Winter population size:** Fenech, N. (2010) : A Complete Guide to the Birds of Malta. Malta: Midsea Books Ltd. Sultana, J.; Borg, J.J.; Gauci, C. & Falzon, V. (2011): The Breeding Birds of Malta. Malta: BirdLife Malta & BDL Publishing.

### Moldova

**Breeding population size:** The Atlas of the Breeding Birds of Republic of Moldova. 2010. 100p.

**Breeding short-term trend:** The Atlas of the Breeding Birds of Republic of Moldova. 2010. 100p.

**Breeding long-term trend:** 1.Аверин Ю. В., Ганя И.М., Успенский Г. Птицы Молдавии, том 2, Кишинев,1971, 2р 2.Burfield I., Bommel van F., Birds in Europe. Population estimates, trends and conservation status. BirdLife International. Oxford, 2004. 374p. 3. The Atlas of the Breeding Birds of Republic of Moldova. 2010. 100p.

**Winter population size:** 2.Burfield I., Bommel van F., Birds in Europe. Population estimates, trends and conservation status. BirdLife International. Oxford, 2004. 374p.

**Winter short-term trend:** 1. Cojan C.,

### Montenegro

**Breeding population size:** Saveljić, D (2014):Unpub.data

**Breeding 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 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. p. platyrhynchos*

**Breeding population size:** NEM, Sovon en CBS, SOVON (2002)

**Breeding short-term trend:** NEM, Sovon en CBS, Boele et al. (2013)

**Breeding long-term trend:** NEM, Sovon en CBS

**Winter population size:** Hornman et al 2012

**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:** Dalby, L., Söderquist, P., Christensen, T.K., Clausen, P., Einarsson, A., Elmberg, J., Fox, A.D., Holmqvist, N., Langedoen, T., Lehtikoinen, A., Lindström, Å., Lorentsen, S.-H., Nilsson, L., Pöysä, H., Rintala, J., Sigfússon, A., & Svenning, J.C. 2013. The status of the northern populations of the mallard (*Anas platyrhynchos*) in a changing world. *Ornis Fennica* 90: 2-15.

**Breeding short-term trend:** Dalby, L., Söderquist, P., Christensen, T.K., Clausen, P., Einarsson, A., Elmberg, J., Fox, A.D., Holmqvist, N., Langedoen, T., Lehtikoinen, A., Lindström, Å., Lorentsen, S.-H., Nilsson, L., Pöysä, H., Rintala, J., Sigfússon, A., & Svenning, J.C. 2013. The status of the northern populations of the mallard (*Anas platyrhynchos*) in a changing world. *Ornis Fennica* 90: 2-15.

**Breeding long-term trend:** 1). Dalby et al. 2013. 2). Gjershaug et al. 1993.

**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: *A. p. platyrhynchos*

**Breeding population size:** Chodkiewicz T., Kuczyński L., Sikora A., Ławicki Ł., Chylarecki P., Neubauer G., Meissner W., Rohde Z. 2013. Opracowanie raportu dla Komisji Europejskiej z wdrażania Dyrektywy Ptasięj w Polsce w zakresie Monitoringu Ptaków Polski w Państwowym Monitoringu Środowiska. Sprawozdanie dla Głównego Inspektoratu Ochrony Środowiska. OTOP, Marki.

**Breeding short-term trend:** MPPL: Chylarecki P. 2013. Czynniki kształtujące zmiany liczebności pospolitych ptaków Polski w latach 2000-2012. MiIZ PAN Warszawa. Bogucki. Wyd. Nauk. 1-126; Chodkiewicz T., Woźniak B., Chylarecki P. 2012. Monitoring Pospolitych Gatunków Ptaków. In: Podsumowanie sezonu lęgowego Monitoringu Ptaków Polski w 2012 r. OTOP, MiIZ, KOO, SOS: 29-45 (source: [http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty\\_faza4/RaportMPP4\\_etap1\\_zad2%264\\_wiosna2012.pdf](http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty_faza4/RaportMPP4_etap1_zad2%264_wiosna2012.pdf))

**Breeding long-term trend:** Tucker G.M., Heath M.F. 1994. Birds in Europe: their conservation status. Cambridge, UK: BirdLife International

**Winter population size:** MZPW: Meissner W., Chodkiewicz T., Bzoma Sz., Brewka B., Woźniak B. 2012. Monitoring ptaków zimujących. Sprawozdanie dla GIOŚ. OTOP (source: [http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty\\_faza3/RaportMPP3\\_etap8\\_zad2%264\\_zima2012.pdf](http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty_faza3/RaportMPP3_etap8_zad2%264_zima2012.pdf)); Chodkiewicz T., Neubauer G., Meissner W., Sikora A., Chylarecki P., Woźniak B., Bzoma S., Brewka B., Rubacha S., Kus K., Rohde Z., Cenian Z., Wieloch M., Zielińska M., Zieliński P., Kajtoch Ł., Szalański P., Beteja J. 2012. Monitoring populacji ptaków Polski w latach 2010–2012. Biuletyn Monitoringu Przyrody 9: 1–44 (source: [http://monitoringptakow.gios.gov.pl/publikacje?file=files/pliki/publikacje/Biuletyn9\\_2012.pdf](http://monitoringptakow.gios.gov.pl/publikacje?file=files/pliki/publikacje/Biuletyn9_2012.pdf))

**Winter long-term trend:** Zyska P., Dombrowski A., Kot H., Rzępała M. 1990. Akcja zimowego liczenia ptaków wodnych 1985-1987. *Not. Orn.* 31: 113-131; Dombrowski A., Kot H., Zyska P. 1993. Liczebność ptaków wodnych zimujących w Polsce w latach 1988-1990. *Not. Orn.* 34: 5-21.

### Portugal: *A. p. platyrhynchos*

**Breeding short-term trend:** Informação ICNF

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

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

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

### PT: Azores: *A. p. platyrhynchos*

## *Anas platyrhynchos* (Mallard)

### Romania: *A. p. platyrhynchos*

<b>Breeding population size:</b> SOR database
<b>Breeding short-term trend:</b> BirLife International (2004) Birds in Europe: population estimates, trends and conservation status. Cambridge, UK Papp T., Fântână C. – editori 2008, Ariele de Importanță Avifaunistică din România, Publicație Comună a Societății Ornitologice Române și a Asociației „Grupul Milvus”
<b>Breeding long-term trend:</b> Munteanu D. (ed) 2002: Atlasul păsărilor clocitoare din România, ediția a II-a, Publicațiile Societății Ornitologice Române, nr. 16, Cluj-Napoca. Weber P. et al. 1994: Atlasul provizoriu al păsărilor clocitoare din România, Publicațiile Societății Ornitologice Române, nr.2, Mediaș Papp T., Fântână C. – editori 2008, Ariele de Importanță Avifaunistică din România, Publicație Comună a Societății Ornitologice Române și a Asociației „Grupul Milvus” Victor Ciochia. Dinamica și migrația păsărilor. Ed. Științifică și Enciclopedică, București, 1985
<b>Winter population size:</b> International Waterbird Census, Romania SOR Database Milvus Database
<b>Winter short-term trend:</b> International Waterbird Census, Romania SOR Database Milvus Database
<b>Winter long-term trend:</b> International Waterbird Census, Romania SOR Database Milvus Database

### Russia

<b>Breeding population size:</b> Krivenko V.G., Vinogradov V.G. 2008. Birds of the Water Environment and Rhythms of Climate of the Northern Eurasia. Moscow: 588 p. (in Russian). Belik V.P. 2005. Cadastre of breeding avifauna of South Russia. - Strepet 3, no. 1-2: 5-37 (in Russian). Numerov A.D. 1996. Class Birds Aves. – Natural resources of Voronezh Region. Vertebrate Animals. Cadaster. Voronezh, Biomik: 48-159 (in Russian). Sarychev V.S. (ed.) 2009. Vertebrates of Lipetsk Region. Voronezh: 494 p. (in Russian). Klimov S.M., Sarychev V.S., Melnikov M.V., Zemlyanukhin A.I. 2004. Fauna of the Upper Don Basin. Nonpasserines. Lipetsk, LGPU: 224 p. (in Russian). Borodin O.V., Smirnova S.L., unpublished. spinus73@mail.ru
<b>Breeding short-term trend:</b> Shepel A.I., unpublished. shai53@mail.ru Yakovleva M.V., unpublished. kivach-bird@rambler.ru Sarychev V.S. (ed.) 2009. Vertebrates of Lipetsk Region. Voronezh: 494 p. Klimov S.M., Sarychev V.S., Melnikov M.V., Zemlyanukhin A.I. 2004. Fauna of the Upper Don Basin. Nonpasserines. Lipetsk, LGPU: 224 p. (in Russian). Borodin O.V., Smirnova S.L., unpublished. spinus73@mail.ru
<b>Breeding long-term trend:</b> Shepel A.I., unpublished. shai53@mail.ru Belik V.P. et al. 2003. Recent population trends of breeding birds in the Southern Russia. - Strepet 1: 10-30 (in Russian). Yakovleva M.V., unpublished. kivach-bird@rambler.ru Sarychev V.S. (ed.) 2009. Vertebrates of Lipetsk Region. Voronezh: 494 p. Klimov S.M., Sarychev V.S., Melnikov M.V., Zemlyanukhin A.I. 2004. Fauna of the Upper Don Basin. Nonpasserines. Lipetsk, LGPU: 224 p. (in Russian). Borodin O.V., Smirnova S.L., unpublished. spinus73@mail.ru

### Serbia

<b>Breeding population size:</b> BPSSS (2014) Unpublished data
<b>Breeding short-term trend:</b> BPSSS (2014) Unpublished data
<b>Breeding long-term trend:</b> BPSSS (2014) Unpublished data
<b>Winter population size:</b> Šćiban M, Đapčić D, Sekereš O, Đorđević I, Ružič 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
<b>Winter short-term trend:</b> Šćiban M, Đapčić D, Sekereš O, Đorđević I, Ružič 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
<b>Winter long-term trend:</b> BPSSS (2014) Unpublished data

### Slovakia: *A. p. platyrhynchos*

<b>Breeding population size:</b> Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.
<b>Breeding short-term trend:</b> Ridzoň, J., Karaska, D., Darolová, A.
<b>Breeding long-term trend:</b> Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.
<b>Winter population size:</b> 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.
<b>Winter short-term trend:</b> 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.
<b>Winter long-term trend:</b> 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. p. platyrhynchos*

<b>Breeding population size:</b> Mihelič, T. (2013): Novi ornitološki atlas gnezdilk Slovenije 2002-2010. Internetna baza podatkov. Spletna stran: <a href="http://www.ptice.si/atlas">http://www.ptice.si/atlas</a> . Društvo za opazovanje in proučevanje ptic Slovenije, DOPPS - BirdLife Slovenija. Ljubljana.
<b>Breeding short-term trend:</b> Mihelič, T. (2013): Novi ornitološki atlas gnezdilk Slovenije 2002-2010. Internetna baza podatkov. Spletna stran: <a href="http://www.ptice.si/atlas">http://www.ptice.si/atlas</a> . Društvo za opazovanje in proučevanje ptic Slovenije, DOPPS - BirdLife Slovenija. Ljubljana.
<b>Breeding long-term trend:</b> Mihelič, T. (2013): Novi ornitološki atlas gnezdilk Slovenije 2002-2010. Internetna baza podatkov. Spletna stran: <a href="http://www.ptice.si/atlas">http://www.ptice.si/atlas</a> . Društvo za opazovanje in proučevanje ptic Slovenije, DOPPS - BirdLife Slovenija. Ljubljana.
<b>Winter population size:</b> <a href="http://www.natura2000.gov.si/index.php?id=211">http://www.natura2000.gov.si/index.php?id=211</a> Božič, L. (2008): Monitoring populacij izbranih vrst ptic – zimsko štetje vodnih ptic 2002-2008. Končno poročilo. Društvo za opazovanje in proučevanje 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 proučevanje 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 proučevanje 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 proučevanje 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.
<b>Winter short-term trend:</b> DOPPS
<b>Winter long-term trend:</b> 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.

## *Anas platyrhynchos* (Mallard)

### Spain: *A. p. platyrhynchos*

<b>Breeding population size:</b> Palomino, D. y B. Molina (Eds) (2009). Aves acuáticas reproductoras en España, Población en 2007 y método de censo. Seguimiento de Aves 26. SEO/BirdLife. Madrid. 210 pp. ( <a href="http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/26_aves_acuaticas_reproductoras_tcm7-218238.pdf">http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/26_aves_acuaticas_reproductoras_tcm7-218238.pdf</a> )
<b>Breeding short-term trend:</b> SEO/BirdLife (2013). Resultados del programa Sacre de SEO/BirdLife en 2012. SEO/BirdLife. Madrid. Información obtenida a partir de la Base de Datos del Inventario de especies terrestres. Seguimiento de Aves SACRE. (Ministerio de Agricultura, Alimentación y Medio Ambiente). <a href="http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/tendencia_aves_comunes_espania.aspx">http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/tendencia_aves_comunes_espania.aspx</a> Gráfica de la tendencia poblacional: <a href="http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet_aves_sist_seg_tendencia_comunes_esp.aspx">http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet_aves_sist_seg_tendencia_comunes_esp.aspx</a> <a href="http://www.seo.org/RESULTADOS-SEGUIMIENTO-DE-AVES/">http://www.seo.org/RESULTADOS-SEGUIMIENTO-DE-AVES/</a>
<b>Breeding long-term trend:</b> Martí, R. & del Moral, J.C. (Eds.) (2003). Atlas de las Aves Reproductoras de España. Dirección General de Conservación de la Naturaleza-Sociedad Española de Ornitología. Madrid, 733 pp. <a href="http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx">http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx</a> Palomino, D. y B. Molina (Eds) (2009). Aves acuáticas reproductoras en España, Población en 2007 y método de censo. Seguimiento de Aves 26. SEO/BirdLife. Madrid. 210 pp. ( <a href="http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/26_aves_acuaticas_reproductoras_tcm7-218238.pdf">http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/26_aves_acuaticas_reproductoras_tcm7-218238.pdf</a> ) Purroy, F.J. (Coord.) (1997). Atlas de las aves de España (1975-1995). SEO/BidLife. Lynx Edicions. Barcelona. 583 pp.
<b>Winter population size:</b> SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/BirLife. Madrid. 816 pp. <a href="http://www.magrama.gob.es/es/biodiversidad/publicaciones/atlas_aves_invierno_tcm7-291664.pdf">http://www.magrama.gob.es/es/biodiversidad/publicaciones/atlas_aves_invierno_tcm7-291664.pdf</a>
<b>Winter short-term trend:</b> SEO/BirdLife (2013). Resultados del programa Sacre de SEO/BirdLife en 2012. SEO/BirdLife. Madrid. Información obtenida a partir de la Base de Datos del Inventario de especies terrestres. Seguimiento de Aves SACRE. (Ministerio de Agricultura, Alimentación y Medio Ambiente). <a href="http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/tendencia_aves_comunes_espania.aspx">http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/tendencia_aves_comunes_espania.aspx</a> Gráfica de la tendencia poblacional: <a href="http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet_aves_sist_seg_tendencia_comunes_esp.aspx">http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet_aves_sist_seg_tendencia_comunes_esp.aspx</a> <a href="http://www.seo.org/RESULTADOS-SEGUIMIENTO-DE-AVES/">http://www.seo.org/RESULTADOS-SEGUIMIENTO-DE-AVES/</a>
<b>Winter long-term trend:</b> González, R. & Pérez-Aranda, D. (2011). Las aves acuáticas en España, 1980-2009. SEO/BirdLife, Madrid, 338 pp.

### Sweden: *A. p. platyrhynchos*

<b>Breeding population size:</b> Ottosson, U., Ottvall, R., Elmberg, J., Green, M., Gustafsson, R., Haas, F., Holmqvist, N., Lindström, Å., Nilsson, L., Svensson, M., Svensson, S. & Tjernberg, M. 2012. Fåglarna i Sverige - antal och förekomst. Sveriges Ornitologiska Förening, Halmstad.
<b>Breeding short-term trend:</b> Swedish Bird Survey (Svensk Fågeltaxering), Lund University.
<b>Breeding long-term trend:</b> Swedish Bird Survey (Svensk Fågeltaxering), Lund University.
<b>Winter population size:</b> Swedish Bird Survey (Svensk Fågeltaxering), Lund University.
<b>Winter short-term trend:</b> Swedish Bird Survey (Svensk Fågeltaxering), Lund University.
<b>Winter long-term trend:</b> Swedish Bird Survey (Svensk Fågeltaxering), Lund University.

### Switzerland

<b>Breeding population size:</b> Original estimate: Schmid, H., R. Luder, B. Naef-Daenzer, R. Graf & N. Zbinden (1998): Schweizer Brutvogelatlas. Verbreitung der Brutvögel in der Schweiz und im Fürstentum Liechtenstein 1993-1996/Atlas des oiseaux nicheurs de Suisse. Distribution des oiseaux nicheurs en Suisse et au Liechtenstein en 1993-1996. Schweizerische Vogelwarte/Station ornithologique suisse, Sempach.
<b>Breeding short-term trend:</b> Swiss Ornithological Institute. <a href="http://www.vogelwarte.ch/monitoring-common-breeding-birds.html">http://www.vogelwarte.ch/monitoring-common-breeding-birds.html</a> . Min Max refer to 95% Confidence interval.
<b>Breeding long-term trend:</b> Swiss Ornithological Institute. <a href="http://www.vogelwarte.ch/monitoring-common-breeding-birds.html">http://www.vogelwarte.ch/monitoring-common-breeding-birds.html</a> . Data before 1999 from less standardised survey. Min Max refer to 95% Confidence interval.
<b>Winter population size:</b> Swiss Ornithological Institute. Winter waterbird census (January). <a href="http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html">http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html</a> Min Max of total count
<b>Winter short-term trend:</b> Swiss Ornithological Institute. Winter waterbird census (January). <a href="http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html">http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html</a> Min Max refer to 95% Confidence interval. LCL -1.5, UCL +0.3 -1.5 0.3
<b>Winter long-term trend:</b> Swiss Ornithological Institute. Winter waterbird census (January). <a href="http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html">http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html</a> Min Max refer to 95% Confidence interval.

### Turkey

<b>Breeding population size:</b> Vedat Beşkardeş personal communication, Eken G., Bozdoğan M., İsfendiyaroğlu S., Kılıç D.T., Lise Y. (2006) Türkiye'nin Önemli Doğa Alanları. Doğa Derneği, Ankara. Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no: 12) <a href="http://www.kusbank.org">www.kusbank.org</a> 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-
<b>Breeding short-term trend:</b> 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.
<b>Breeding long-term trend:</b> Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no: 12)
<b>Winter population size:</b> 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., İsfendiyaroğlu 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) <a href="http://www.kusbank.org">www.kusbank.org</a>
<b>Winter short-term trend:</b> Doğa Derneği



## *Anas platyrhynchos* (Mallard)

### 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. Hagemajjer W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poysen. - 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. Hagemajjer/ 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.

**Breeding short-term trend:** 1. Dombrowski A., Piotrowska M., Gorban I., Nikiforov M. Status and threats to avifauna. (Eds. Dombrowski A., & Z. Glowacki, та інші). Bug river valleys as the ecological corridor: state-threats-protection. IUCN European Programme. Warsaw. 2002. S. 87-102. 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. Zaruk. – Kyiv, 2006, Wetland International Black Sea Programme. - 312 p.

**Breeding long-term trend:** 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. Hagemajjer W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poysen. - 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. Hagemajjer/ 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. 7. Directory of Azov – Black Sea Coastal Wetlands / Ed. By G. Marushevsky – Kyiv, 2003, Wetland International, 235 p. 8. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 9. Directory of Ukraine's Wetlands / Ed. By G. Marushevsky & I. Zaruk. – Kyiv, 2006, Wetland International Black Sea Programme. - 312 p.

**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. 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. 3. Андрющенко 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. 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. Directory of Azov – Black Sea Coastal Wetlands / Ed. By G. Marushevsky – Kyiv, 2003, Wetland International, 235 p. 7. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 8. Горбань І. Розміри популяцій зимуючих птахів України. Вісник Львівського університету. Серія біологічна. Вип. 35. 2004. С. 23-39. 9. Бескаравайный М.М. Птицы морских берегов Южного Крыма. Симферополь. «Н.Орианда», 2008. 160 с. 10. Experts: Gorban I., Rusev I., Petrovych

**Winter short-term trend:** 1. Dombrowski A., Piotrowska M., Gorban I., Nikiforov M. Status and threats to avifauna. (Eds. Dombrowski A., & Z. Glowacki, та інші). Bug river valleys as the ecological corridor: state-threats-protection. IUCN European Programme. Warsaw. 2002. S. 87-102. 2. Русев И.Т., Корзюков А.И., Форманюк О.А., Панченко П.С. Зимовки водоплавающих и водно-болотных птиц в Северо-Западном Причерноморье в 2000-2001 гг. // Мониторинг зимующих птиц в Азово-Черноморском регионе Украины. – Одесса-Киев. – 2002. – С.54-74 3. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 4. Горбань І. Розміри популяцій зимуючих птахів України. Вісник Львівського університету. Серія біологічна. Вип. 35. 2004. С.23-39.

**Winter long-term trend:** 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. 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 3. ІВА території України: території, важливі для збереження видового різноманіття та кількісного багатства птахів. /Редактор О. Микитюк/Київ. СофтАРТ., 1999. 324 с. 4. 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. 5. Dombrowski A., Piotrowska M., Gorban I., Nikiforov M. Status and threats to avifauna. (Eds. Dombrowski A., & Z. Glowacki, та інші). Bug river valleys as the ecological corridor: state-threats-protection. IUCN European Programme. Warsaw. 2002. S. 87-102. 6. Русев И.Т., Корзюков А.И., Форманюк О.А., Панченко П.С. Зимовки водоплавающих и водно-болотных птиц в Северо-Западном Причерноморье в 2000-2001 гг. // Мониторинг зимующих птиц в Азово-Черноморском регионе Украины. – Одесса-Киев. – 2002. – С.54-74 7. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 8. Горбань І. Розміри популяцій зимуючих птахів України. Вісник Львівського університету. Серія біологічна. Вип. 35. 2004. С.23-39.

### United Kingdom: *A. p. platyrhynchos*

**Breeding population size:** Baker, H., Stroud, D.A., Aebischer, N.J., Cranswick, P.A., Gregory, R.D., McSorley, C.A., Noble, D.G. & Rehfisch, M.M. 2006. Population estimates of birds in Great Britain and the United Kingdom. British Birds 99: 25–44. Musgrove, A.J., Aebischer, N.J., Eaton, M.A., Hearn, R.D., Newson, S.E., Noble, D.G., Parsons, M., Risely, K. & Stroud, D.A. 2013. Population estimates of birds in Great Britain and the United Kingdom. British Birds 106: 64-100.

**Breeding short-term trend:** BTO/JNCC/RSPB Breeding Bird Survey data: Risely, K., Massimino, D., Johnston, A., Newson, S.E., Eaton, M.A., Musgrove, A.J., Noble, D.G., Procter, D. & Baillie, S.R. 2012. The Breeding Bird Survey 2011. BTO Research Report 624. British Trust for Ornithology, Thetford. <http://www.bto.org/sites/default/files/u16/downloads/reports/bbsreport11.pdf>

**Breeding long-term trend:** Baillie, S.R., Marchant, J.H., Leech, D.I., Massimino, D., Eglington, S.M., Johnston, A., Noble, D.G., Barimore, C., Kew, A.J., Downie, I.S., Risely, K. & Robinson, R.A. (2013). BirdTrends 2012: trends in numbers, breeding success and survival for UK breeding birds. Research Report 644. BTO, Thetford. <http://www.bto.org/birdtrends>

**Winter population size:** Musgrove, A.J., Austin, G.E., Hearn, R.D., Holt, C.A., Stroud, D.A. & Wotton, S.R. 2011. Overwinter population estimates of British waterbirds. British Birds 104: 364–397.

**Winter short-term trend:** Holt, C.A., Austin, G.E., Calbrade, N.A., Mellan, H.J., Hearn, R.D., Stroud, D.A., Wotton, S.R. & Musgrove, A.J. (2012). Waterbirds in the UK 2010/11: The Wetland Bird Survey. BTO/RSPB/JNCC, Thetford. 183 pp.

**Winter long-term trend:** Holt, C.A., Austin, G.E., Calbrade, N.A., Mellan, H.J., Hearn, R.D., Stroud, D.A., Wotton, S.R. & Musgrove, A.J. (2012). Waterbirds in the UK 2010/11: The Wetland Bird Survey. BTO/RSPB/JNCC, Thetford. 183 pp.

## Bibliography

- Baldi, A., Batary, B. and Erdos, S. 2005. Effects of grazing intensity on bird assemblages and populations of Hungarian grasslands. *Agriculture Ecosystems and Environment* 108: 251-263.
- Bregnballe, T., Madsen, J. and Rasmussen, P.A.F. 2004. Effects of temporal and spatial hunting control in waterbird reserves. *Biological Conservation* 119: 93-104.
- Bregnballe, T., Noer, H., Christensen, T.K., Clausen, P., Asferg, T., Fox, A.D. and Delany, S. 2006. Sustainable hunting of migratory waterbirds: the Danish approach. In: Boere, G., Galbraith, C., Stroud, D. (ed.), *Waterbirds around the world*, pp. 854-860. The Stationary Office, Edinburgh, U.K.
- Carboneras, C. and Kirwan, G.M. 2014. Mallard (*Anas platyrhynchos*). In: del Hoyo, J., Elliott, A., Sargatal, J., Christie, D.A. and de Juana, E. (eds.) 2014. *Handbook of the Birds of the World Alive*. Lynx Edicions, Barcelona. (retrieved from <http://www.hbw.com/node/52875> on 3 March 2015).
- Evans, D.M. and Day, K.R. 2002. Hunting disturbance on a large shallow lake: the effectiveness of waterfowl refuges. *Ibis* 144(1): 2-8.
- Flint, V.E., Boehme, R.L., Kostin, Y.V. and Kuznetsov, A.A. 1984. *A field guide to birds of the USSR*. Princeton University Press, Princeton, New Jersey.
- Friend, M. 2006. Evolving changes in diseases of waterbirds. In: Boere, G., Galbraith, C. and Stroud, D. (ed.), *Waterbirds around the world*, pp. 412-417. The Stationary Office, Edinburgh, U.K.
- Giles, N. 1994. Tufted Duck (*Aythya fuligula*) habitat use and brood survival increases after fish removal from gravel pit lakes. *Hydrobiologia* 279/280: 387-392.
- Grishanov, D. 2006. Conservation problems of migratory waterfowl and shorebirds and their habitats in the Kaliningrad region of Russia. In: Boere, G., Galbraith, C. and Stroud, D. (ed.), *Waterbirds around the world*, pp. 356. The Stationary Office, Edinburgh, U.K.
- Gudmundsson, F. 1979. The past status and exploitation of the Myvatn waterfowl populations. *Oikos* 32: 232-249.
- Johnsgard, P.A. 1978. *Ducks, geese and swans of the World*. University of Nebraska Press, Lincoln and London.
- Kear, J. 2005. *Ducks, geese and swans volume 2: species accounts (Cairina to Mergus)*. Oxford University Press, Oxford, U.K.
- Kwon, Y.K., Wee, S.H. and Kim, J.H. 2004. Pesticide Poisoning Events in Wild Birds in Korea from 1998 to 2002. *Journal of Wildlife Diseases* 40(4): 737-740.
- Madge, S. and Burn, H. 1988. *Wildfowl*. Christopher Helm, London.
- Mateo, R., Belliure, J., Dolz, J.C., Aguilar-Serrano, J.M. and Guitart, R. 1998. High prevalences of lead poisoning in wintering waterfowl in Spain. *Archives of Environmental Contamination and Toxicology* 35: 342-347.
- Melville, D.S. and Shortridge, K.F. 2006. Migratory waterbirds and avian influenza in the East Asian-Australasian Flyway with particular reference to the 2003-2004 H5N1 outbreak. In: Boere, G., Galbraith, C. and Stroud, D. (ed.), *Waterbirds around the world*, pp. 432-438. The Stationary Office, Edinburgh, U.K.
- Mondain-Monval, J.Y., Defos du Rau, P., Mathon, N., Olivier, A. and Desnouhes, L. 2006. The monitoring of hunting bags and hunting effort in the Camargue, France. In: Boere, G., Galbraith, C. and Stroud, D. (ed.), *Waterbirds around the world*, pp. 862-863. The Stationary Office, Edinburgh, U.K.

Mondain-Monval, J.Y., Desnouhes, L. and Taxis, J.P. 2002. Lead shot ingestion in waterbirds in the Camargue, (France). *Game and Wildlife Science* 19(3): 237-246.

Opermanis, O., Mednis, A. and Bauga, I. 2001. Duck nests and predators: interaction, specialisation and possible management. *Wildlife Biology* 7(2): 87-96.

Rocke, T.E. 2006. The global importance of avian botulism. In: Boere, G., Galbraith, C. and Stroud, D. (ed.), *Waterbirds around the world*, pp. 422-426. The Stationary Office, Edinburgh, U.K.

Scott, D.A. and Rose, P.M. 1996. *Atlas of Anatidae populations in Africa and western Eurasia*. Wetlands International, Wageningen, Netherlands.

Snow, D.W. and Perrins, C.M. 1998. *The Birds of the Western Palearctic vol. 1: Non-Passerines*. Oxford University Press, Oxford.

Sorrenti, M., Carnacina, L., Radice, D. and Costato, A. 2006. Duck harvest in the Po delta, Italy. In: Boere, G., Galbraith, C. and Stroud, D. (ed.), *Waterbirds around the world*, pp. 864-865. The Stationary Office, Edinburgh, U.K.