

## ***Columba palumbus* (Common Woodpigeon)**

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

*Columba palumbus* (Common Woodpigeon)

**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	2,000-5,000	<1	2002-2012	poor	-	10-20	2002-2012	poor	-	10-25	1980-2012	poor	
Andorra	60-120	<1	1999-2001	poor	?				?				
Armenia	1,500-5,000	<1	2002-2012	medium	?				?				
Austria	55,000-90,000	<1	2001-2012	medium	0	0	2000-2011	medium	?				C. p. palumbus
Azerbaijan	2,000-10,000	<1	1996-2000	poor	?				?				
Belarus	140,000-160,000	1	2008-2012	medium	0	0	2001-2012	medium	0	0	1980-2012	medium	
Belgium	100,000-500,000	1	2008-2012	poor	+	0-17	2000-2012	medium	0	0	1973-2012	medium	C. p. palumbus
Bosnia & HG	20,000-30,000	<1	2010-2014	poor	+	10-20	2001-2012	poor	+	10-20	1980-2013	poor	
Bulgaria	15,000-25,000	<1	2005-2012	medium	0	0-10	2000-2012	medium	-	10-20	1980-2012	poor	C. p. palumbus
Croatia	30,000-50,000	<1	2014	poor	?				?				
Cyprus	30,000-70,000	<1	2006-2013	medium	0	0	2001-2012	medium	?				C. p. palumbus
Czech Rep.	196,500-393,000	1	2012	medium	+	28-55	2000-2012	good	+	77-114	1982-2012	good	C. p. palumbus
Denmark	290,000	1	2011	medium	0	0	1999-2011	good	+	50-100	1980-2011	good	C. p. palumbus
DK: Faroe Is	0-2	<1	1995	medium	?				?				
Estonia	50,000-80,000	<1	2008-2012	medium	+	20-50	2001-2012	medium	+	20-50	1980-2012	medium	C. p. palumbus
Finland	250,000-310,000	1	2006-2012	good	+	4-28	2001-2012	good	+	55-91	1983-2012	good	C. p. palumbus
France	2,500,000-3,500,000	12	2008-2012	poor	+	56-66	2001-2012	good	+	75-150	1989-2011	good	C. p. palumbus
Georgia	Present	<1			?				?				
Germany	2,600,000-3,350,000	12	2005-2009	medium	0	0	1998-2009	good	0	0	1990-2009	good	C. p. palumbus
Greece	5,000-8,000	<1	2008-2012	poor	?				?				C. p. palumbus
Hungary	49,000-116,000	<1	2000-2012	medium	+	107	1999-2012	medium	+	107	1990-2012	poor	C. p. palumbus
Rep. Ireland	928,565-1,872,980	5	2006-2011	good	+	33-51	1998-2011	good	?				C. p. palumbus
Italy	40,000-80,000	<1	2006	poor	+	355-365	2000-2012	medium	+	360-450	1990-2012	poor	C. p. palumbus
Kosovo	10,000-15,000	<1	2009-2014	medium	?				?				
Latvia	222,608-366,299	1	2010	good	0	0-30	2001-2012	good	+	5-110	1995-2012	medium	C. p. palumbus
Liechtenstein	150-200	<1	2009-2014	medium	0	0	2003-2014	medium	0	0	1980-2014	medium	
Lithuania	80,000-120,000	<1	2008-2012	medium	0	0	2001-2012	medium	+	25-50	1980-2012	medium	C. p. palumbus
Luxembourg	8,000-12,000	<1	2008-2012	medium	?				?				C. p. palumbus
FYRO Macedonia	30,000-60,000	<1	2001-2012	poor	?				?				
Moldova	2,500-3,500	<1	2000-2010	medium	F	0	2000-2010	medium	+	10-20	1980-2010	medium	
Montenegro	2,000-5,000	<1	2002-2012	poor	?				?				
Netherlands	438,462-548,077	2	2008-2011	medium	+	15-36	2002-2011	medium	0	0	1984-2011	medium	C. p. palumbus

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**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	
Norway	480,000-1,150,000	3	2013	poor	0	0	2007-2013	good	0	0	1980-2013	good	
Poland	820,000-970,000	4	2008-2012	good	+	60-80	2000-2012	good	?				C. p. palumbus
Portugal	100,000-500,000	1	2008-2012	medium	?				?				C. p. palumbus
PT: Azores	2-5	<1	2003	good	?				?				C. p. azorica
Romania	360,000-720,000	2	2010-2013	medium	F	0-20	2001-2013	medium	?				C. p. palumbus
Russia	500,000-800,000	3	2000-2008	medium	?				-	5-30	1980-2012	medium	
Serbia	67,000-94,000	<1	2008-2012	medium	+	1-9	2000-2012	medium	+	10-29	1980-2012	medium	
Slovakia	60,000-120,000	<1	2002	medium	+	10-20	2000-2012	medium	+	30-60	1980-2012	medium	C. p. palumbus
Slovenia	25,000-30,000	<1	2002-2012	good	?				?				C. p. palumbus
Spain	4,005,000-5,340,000	19	2004-2006	good	+	102	1998-2011	good	+		1980-2011	medium	C. p. palumbus
Sweden	705,000-1,254,000	4	2008-2012	medium	+	9-23	2001-2012	good	+	10-40	1980-2012	good	C. p. palumbus
Switzerland	60,000-90,000	<1	2008-2012	medium	+	23-43	2001-2012	good	+	145-246	1990-2012	medium	
Turkey	10,000-20,000	<1	2013	poor	+	10-19	2000-2012	medium	-	20-29	1990-2013	poor	
Ukraine	77,000-122,000	<1	2000	medium	+	20-30	2001-2012	medium	+	20-50	1980-2012	medium	
United Kingdom	5,100,000-5,700,000	22	2009	medium	+	29	1998-2010	good	+	103	1980-2010	good	C. p. palumbus
<b>EU27</b>	<b>19,000,000-26,400,000</b>	<b>92</b>			<b>Increasing</b>								
<b>Europe</b>	<b>20,500,000-29,000,000</b>	<b>100</b>			<b>Increasing</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

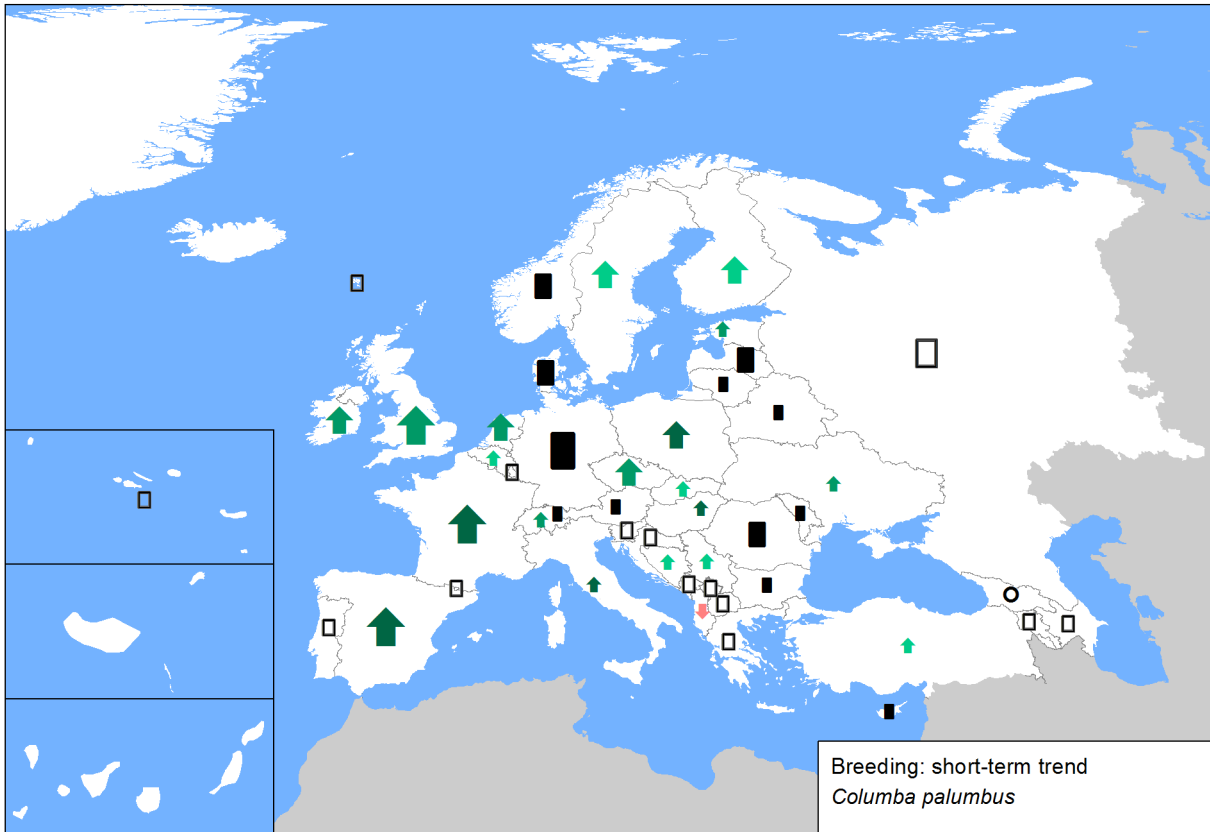
- |   |                                  |
|---|----------------------------------|
| ↑ Large increase ( $\geq 50\%$ )        | ↓ Large decrease ( $\geq 50\%$ ) |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)     |
| ↑ Small increase ( $< 20\%$ )           | ↓ Small decrease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

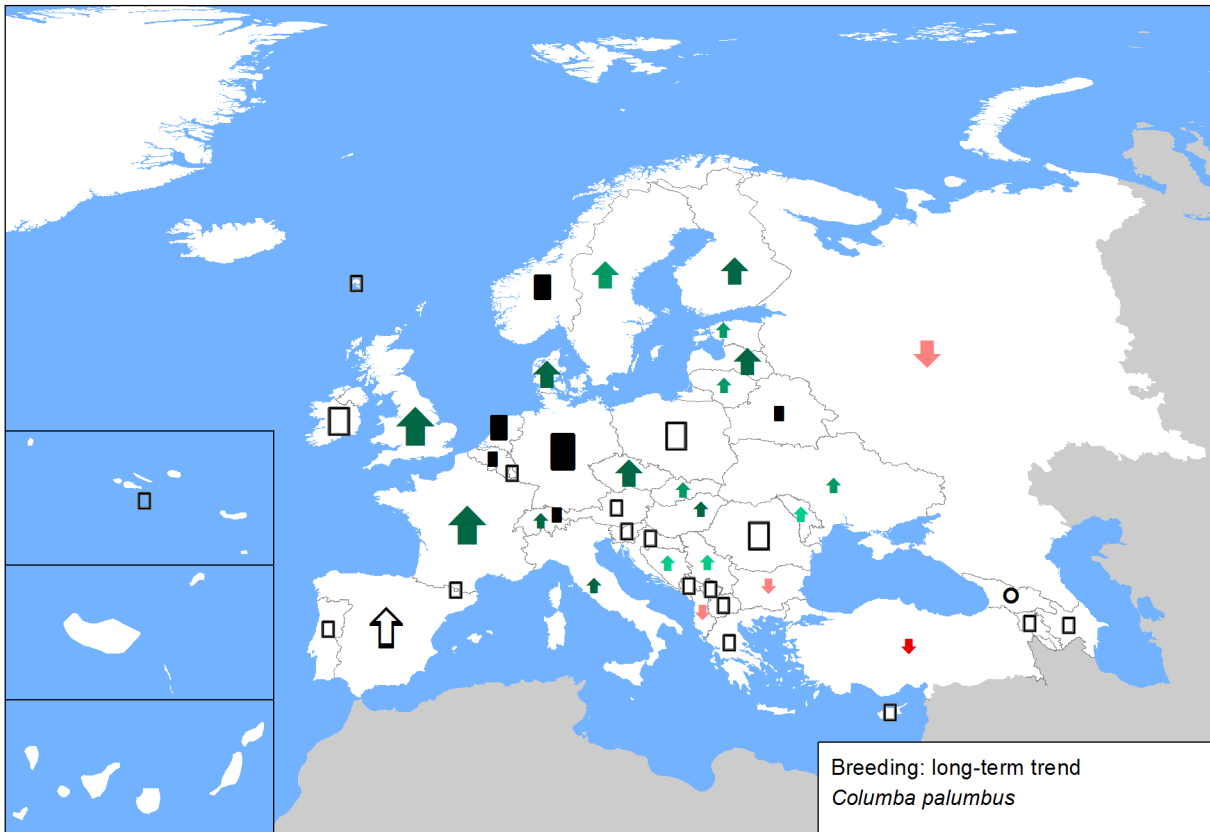
- ↑ Large:  $\geq 10\%$  of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small:  $< 1\%$  of the European population

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.



## *Columba palumbus* (Common Woodpigeon)

### Sources

#### Albania

**Breeding population size:** Bino pers. obs.

**Breeding short-term trend:** Bino pers. obs.

**Breeding long-term trend:** Bino pers. obs.

#### Andorra

**Breeding population size:** BirdLife International 2004

#### Armenia

**Breeding population size:** ASPB data

#### Austria: *C. p. palumbus*

**Breeding population size:** BirdLife Austria, extrapolation on the basis of available unpublished and published population and density data

**Breeding short-term trend:** N. Teufelbauer based on data from the Austrian Common Breeding Bird Monitoring

#### Azerbaijan

**Breeding population size:** BirdLife International 2004

#### Belarus

**Breeding population size:** Pinchuk P.V. - personal communication

**Breeding short-term trend:** Pinchuk P.V. - personal communication

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

#### Belgium: *C. p. palumbus*

**Breeding population size:** Data Breeding Bird atlas Wallonia (Jacob et al 2010), Brussels (Weiserbs 2012) and Flanders (Vermeersch et al 2004) in combination with trend data.

**Breeding short-term trend:** Common bird monitoring schemes

**Breeding long-term trend:** Comparison between 2008-2012 estimate and Devillers, 1989 (Atlas of the Belgian Breeding Bird) population estimate

#### Bosnia and Herzegovina

**Breeding population size:** unpublsh data

**Breeding short-term trend:** unpublsh data

**Breeding long-term trend:** unpublsh data

#### Bulgaria: *C. p. palumbus*

**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. (In Bulgarian and English) BSPB database P.Shurulinkov,G.Daskalova-unpublished data

**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. (In Bulgarian and English) BSPB database P.Shurulinkov,G.Daskalova-unpublished data

**Breeding long-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. (In Bulgarian and English) Simeonov S., T.Michev, D.Nankiniov 1990. Fauna of Bulgaria.vol 20. Aves-part 1. BAS,Sofia. BSPB Database

#### 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

#### Cyprus: *C. p. palumbus*

**Breeding population size:** 2013 Common Birds Monitoring programme set up by BirdLife Cyprus, with relevant line transect survey data analysed using DISTANCE programme. Data from BirdLife Cyprus annual reports 2006-2012 and Game & Fauna Service bag statistics reports; Unpublished data for the W of Cyprus by proff Derek Pomeroy;

**Breeding short-term trend:** Analysis of records from line transect survey data for the period 2006-2013 using TRIM software. The data was from line transect surveys carried out under three different but compatible common birds survey programmes (one a 2006-12 pilot programme set up by BirdLife Cyprus and the other a 2006-11 W Cyprus programme operated by Proff Derek Pomeroy). These programmes were merged and expanded in 2013 under a Common Birds Monitoring programme managed by BirdLife Cyprus. This analysis has been detailed in a September 2013 report by BirdLife Cyprus to the Cyprus government, under a contract to produce the Farmland Birds Index for Cyprus.

**Breeding long-term trend:** Recent data as above, but no systematic data is available for before 2000.

#### Czech Republic: *C. p. palumbus*

**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=601>

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### Czech Republic: *C. p. palumbus*

**Breeding short-term trend:** JPSP: <http://jpsp.birds.cz/vysledky.php?taxon=601>

**Breeding long-term trend:** JPSP: <http://jpsp.birds.cz/vysledky.php?taxon=601>

### Denmark: *C. p. palumbus*

**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 almindlige fuglearter i Danmark 1975-2011. Årsrapport for Punktællingsprojektet. 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 almindlige fuglearter i Danmark 1975-2011. Årsrapport for Punktællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1999-2011)

**Breeding long-term trend:** Heldbjerg, H. & Lerche-Jørgensen, M. (2012): Overvågning af de danske almindlige fuglearter i Danmark 1975-2011. Årsrapport for Punktællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1980-2011)

### DK: Faroe Is

**Breeding population size:** BirdLife International (2004) Birds in Europe: population estimates, trends and conservation status. BirdLife International, Cambridge, UK.

### Estonia: *C. p. palumbus*

**Breeding population size:** Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008-2012. *Hirundo* 26(2): 80-112. URL: [http://www.eoy.ee/hirundo/file\\_download/149/Elts\\_et\\_al\\_2013\\_2.pdf](http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf)

**Breeding short-term trend:** Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008-2012. *Hirundo* 26(2): 80-112. URL: [http://www.eoy.ee/hirundo/file\\_download/149/Elts\\_et\\_al\\_2013\\_2.pdf](http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf)

**Breeding long-term trend:** Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008-2012. *Hirundo* 26(2): 80-112. URL: [http://www.eoy.ee/hirundo/file\\_download/149/Elts\\_et\\_al\\_2013\\_2.pdf](http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf)

### Finland: *C. p. palumbus*

**Breeding population size:** Bird monitoring schemes of the Finnish Museum of Natural History, University of Helsinki.

**Breeding short-term trend:** Bird monitoring schemes of the Finnish Museum of Natural History, University of Helsinki.

**Breeding long-term trend:** Bird monitoring schemes of the Finnish Museum of Natural History, University of Helsinki.

### France: *C. p. palumbus*

**Breeding population size:** ROCHE J.E., MULLER Y. & SIBLET J.-Ph. 2013 Une méthode d'estimation des oiseaux nicheurs de France, SEOF, p. 241-268 2004 BirdLife (2004), Birds in Europe, population estimates, trends and conservation status, 374

**Breeding short-term trend:** Jiguet, F. 2010 Les résultats nationaux du programme STOC de 1989 à 2009. le pigeon ramier [denis.roux@oncfs.gouv.fr](mailto:denis.roux@oncfs.gouv.fr)

**Breeding long-term trend:** Jiguet, F. 2010 Les résultats nationaux du programme STOC de 1989 à 2009. le pigeon ramier [denis.roux@oncfs.gouv.fr](mailto:denis.roux@oncfs.gouv.fr)

### Georgia

**Breeding population size:** BirdLife International 2004

### Germany: *C. p. palumbus*

**Breeding population size:** Gedeon, K., C. Grüneberg, A. Mitschke & C. Sudfeldt (in Vorb.): Atlas Deutscher Brutvogelarten. SVD & DDA, Münster.

**Breeding short-term trend:** Monitoring häufiger Brutvögel

**Breeding long-term trend:** Monitoring häufiger Brutvögel

### Greece: *C. p. palumbus*

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

### Hungary: *C. p. palumbus*

**Breeding population size:** National common bird monitoring scheme (MMM) database. Szép, T., Nagy, K., Nagy, Zs. & Halmos, G. (2012): Population trends of common breeding and wintering birds in Hungary, decline of long-distance migrant and farmland birds during 1999-2012. *Ornis Hungarica* 2012. 20(2): 13-63.

**Breeding short-term trend:** National common bird monitoring scheme (MMM) database.

**Breeding long-term trend:** Magyar, G., Hadarics, T., Waliczky, Z., Schmidt, A., Nagy, T. & Bankovics, A. (1998): Nomenclator avium Hungariae. Magyarország madarainak névjegyzéke. KTM Természetvédelmi Hivatal Madártani Intézete – Magyar Madártani és Természetvédelmi Egyesület – Winter Fair, Budapest – Szeged. p. 202.

### Republic of Ireland: *C. p. palumbus*

**Breeding population size:** Crowe, O., Musgrove, A.J. & O'Halloran, J. (2014). Generating population estimates for common and widespread breeding birds in Ireland. *Bird Study* 61 (1) 82 - 90.

**Breeding short-term trend:** Crowe, O. (2013). Calculation of short-term trends for Common and Widespread Breeding Birds for Article 12 Reporting. Unpublished report.

**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., Risley, K. & Robinson, R.A. (2013) *BirdTrends 2012: trends in numbers, breeding success and survival for UK breeding birds*. BTO Research Report No. 644. BTO, Theford; <http://www.bto.org/birdtrends>. 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. Crowe, O. (2013) Calculation of short-term trends for Common and Widespread Breeding Birds for Article 12 Reporting. Unpublished report. Expert opinion - O. Crowe, [BirdWatch Ireland](http://birdwatchireland.ie/), <http://birdwatchireland.ie/>. Sharrock, J.T.R. (1976) *The Atlas of Breeding Birds in Britain and Ireland*. T. & AD Poyser.

### Italy: *C. p. palumbus*

**Breeding population size:** Brichetti P & Fracasso G. 2006. *Ornitologia italiana*. Vol.3 (Stercorariidae-Caprimulgidae). Alberto Perdisa Editore, Bologna

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### Italy: *C. p. palumbus*

<b>Breeding short-term trend:</b> Rete Rurale Nazionale & LIPU 2013. Uccelli comuni in Italia. Gli andamenti di popolazione dal 2000 al 2012
<b>Breeding long-term trend:</b> Rete Rurale Nazionale & LIPU 2013. Uccelli comuni in Italia. Gli andamenti di popolazione dal 2000 al 2012 Gustin M, Brambilla M & Celada C. 2010. Valutazione dello stato di Conservazione dell'avifauna italiana. Volume I, Non-Passeriformes. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Lega Italiana Protezione Uccelli (LIPU) BirdLife International 2004. Birds in Europe: population estimates, trends and conservation status Cambridge, UK: BirdLife International. BirdLife Conservation Series No. 12

### Kosovo

<b>Breeding population size:</b> NGO "Finch" (2014)
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### Latvia: *C. p. palumbus*

<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. ] (in Latvian) Latvian Ornithological society, 47 pp
<b>Breeding short-term trend:</b> Aunins A. 2006. [Ensuring continuity and compatibility of bird monitoring data regarding changes in the Biodiversity monitoring section of the National Monitoring programme]. 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. 2006. [Ensuring continuity and compatibility of bird monitoring data regarding changes in the Biodiversity monitoring section of the National Monitoring programme]. 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.

### 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 (1985) Die Vogelwelt des Fürstentums Liechtenstein unter Berücksichtigung der benachbarten Gebiete; Teil II: Galliformes (Hühnervögel) – Piciformes (Spechtvögel). Ber. Bot.-Zool. Ges. Liechtenstein-Sargans-Werdenberg, Band 14, S. 103-143.; Willi, G. (2006) Die Vögel des Fürstentums Liechtenstein. Amtlicher Lehrmittelverlag, Vaduz (Naturkundliche Forschung im Fürstentum Liechtenstein, Bd. 22.

### Lithuania: *C. p. palumbus*

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