

## ***Streptopelia turtur* (European Turtle-dove)**

### **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).

*Streptopelia turtur* (European Turtle-dove)

**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	800-6,000	<1	2002-2012	poor	-	10-30	2002-2012	poor	-	20-40	1980-2012	poor	
Armenia	600-1,200	<1	2002-2012	medium	?				?				
Austria	12,000-18,000	<1	2001-2012	medium	-	30-50	2000-2011	medium	?				
Azerbaijan	200,000-400,000	7	2014	poor	-		2000-2014		-		1980-2014	poor	
Belarus	40,000-60,000	1	2000-2012	medium	0	0	2000-2012	medium	0	0	1980-2012	medium	
Belgium	3,000-4,500	<1	2008-2012	medium	-	38-58	2000-2012	medium	-	84-90	1973-2012	medium	
Bosnia & HG	5,000-15,000	<1	2010-2014	poor	?				?				
Bulgaria	35,000-100,000	1	2005-2012	medium	-	0-27	2001-2012	medium	?				
Croatia	50,000-100,000	2	2014	poor	?				?				
Cyprus	3,000-10,000	<1	2006-2012	medium	0	0	2001-2012	medium	-	10-30	1980-2012	poor	
Czech Rep.	38,000-76,000	1	2012	medium	-	3-33	2000-2012	good	-	62-94	1982-2012	good	
Denmark	100	<1	2011	medium	+	≥50	1999-2011	medium	0	0	1980-2011	medium	
Estonia	1,000-3,000	<1	2008-2012	poor	-	20-50	2001-2012	poor	-	50-70	1980-2012	poor	
Finland	5-10	<1	2006-2010	medium	-	27-61	2000-2011	medium	-	82-90	1980-2011	medium	
France	397,000-481,000	10	2009-2012	good	-	11-20	1996-2012	good	-	20-30	1989-2011	medium	
Georgia	Present	<1			?				?				
Germany	25,000-45,000	1	2005-2009	good	-	38-58	1998-2009	good	-	20-60	1990-2009	good	
Greece	30,000-80,000	1	2007-2013	medium	-	5-15	2007-2013	medium	-	10-20	1980-2012	poor	
Hungary	64,000-150,000	2	2000-2012	medium	0	0	1999-2012	medium	?				
Italy	150,000-300,000	5	2006	poor	?				?				
Kosovo	7,000-11,000	<1	2009-2014	medium	?				?				
Latvia	10,341-30,431	<1	2008	medium	0	0-20	2001-2012	medium	0	0-80	1995-2012	medium	
Liechtenstein	0-2	<1	2009-2014	poor	?				?				
Lithuania	4,000-7,000	<1	2008-2012	medium	-	5-10	2001-2012	medium	-	60-80	1980-2012	medium	
Luxembourg	150-200	<1	2008-2012	medium	-	0-20	2000-2012	medium	-	30-50	1980-2012	medium	
FYRO Macedonia	20,000-60,000	1	2001-2012	poor	0	0	2000-2012	poor	?				
Moldova	3,000-3,500	<1	2000-2010	medium	0	0	2000-2010	medium	0	0	1980-2010	medium	
Montenegro	10,000-15,000	<1	2002-2012	poor	?				?				
Netherlands	4,763-5,715	<1	2008-2011	medium	-	27-55	2002-2011	good	-	82-90	1984-2011	good	
Poland	25,000-49,000	1	2008-2012	good	-	25-55	2000-2012	good	?				
Portugal	10,000-50,000	1	2008-2012	poor	-	39-59	2004-2011	medium	-	20-40	1980-2012	medium	
Romania	120,000-300,000	4	2010-2013	medium	F	0-20	2001-2013	medium	?				

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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	
Russia	30,000-80,000	1	2001-2012	poor	-	80-90	2001-2012	good	-	90-98	1980-2012	good	
Serbia	39,000-53,000	1	2008-2012	medium	-	1-9	2000-2012	medium	-	1-9	1980-2012	medium	
Slovakia	15,000-30,000	<1	2002	medium	0	0	2000-2012	medium	0	0	1980-2012	medium	
Slovenia	3,500-5,000	<1	2002-2012	medium	-	30-50	2001-2012	medium	-	30-50	1980-2012	poor	
Spain	1,370,000-2,285,000	41	2004-2006	good	-	29	1998-2012	good	-		1980-2012	medium	
ES: Canary Is	2,500-10,000	<1	1997-2003	poor	-		2001-2012	poor	-		1980-2012	poor	
Switzerland	600-2,000	<1	2008-2012	medium	-	10-55	2001-2012	medium	-	12-35	1990-2012	medium	
Turkey	300,000-900,000	12	2013	poor	0	0	2000-2012	poor	0	0-19	1990-2013	poor	
Ukraine	110,000-176,000	3	2000	medium	F	15-30	2001-2012	medium	-	20-30	1980-2012	medium	
United Kingdom	14,000	<1	2009	medium	-	77	1998-2010	good	-	92	1980-2010	good	
<b>EU27</b>	<b>2,340,000-4,050,000</b>	<b>71</b>			<b>Decreasing</b>								
<b>Europe</b>	<b>3,150,000-5,940,000</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

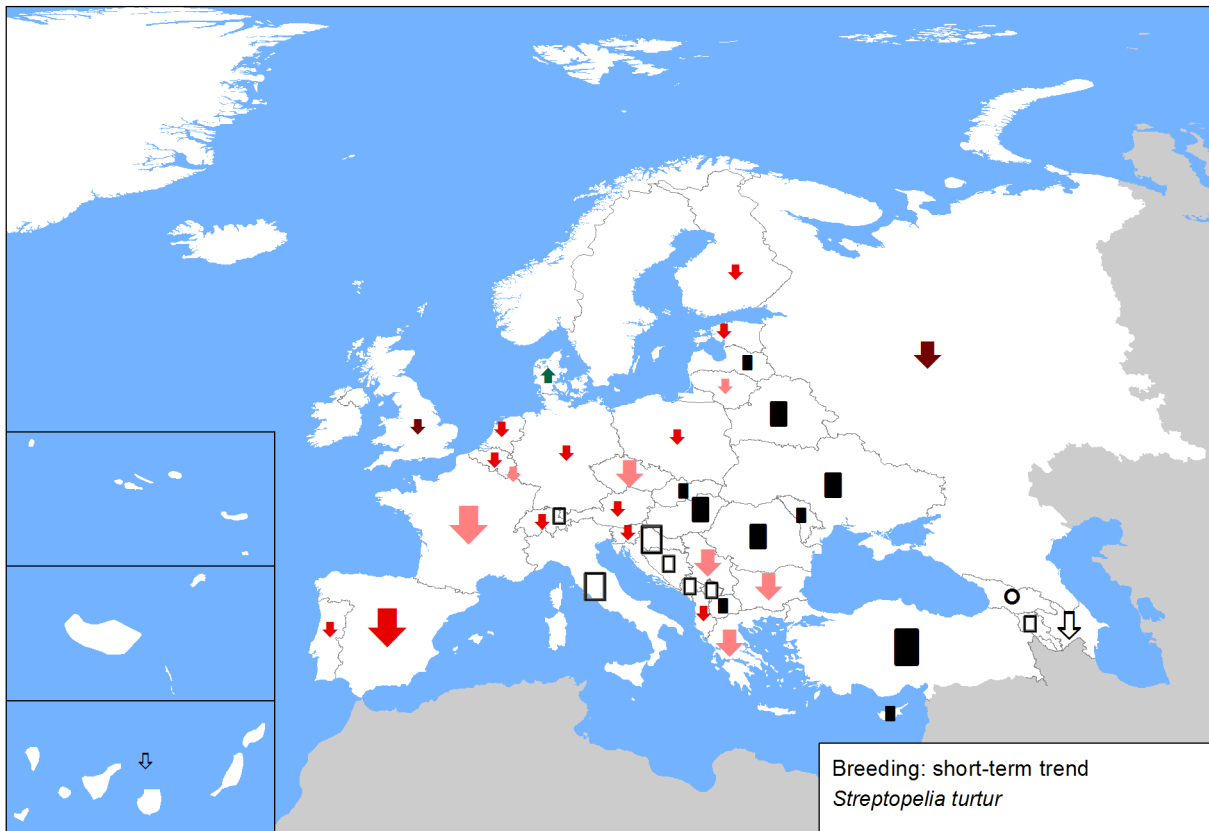
- |   |                                  |
|---|----------------------------------|
| ↑ Large increase ( $\geq 50\%$ )        | ↓ Large decrease ( $\geq 50\%$ ) |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)     |
| ↑ Small increase ( $< 20\%$ )           | ↓ Small decrease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

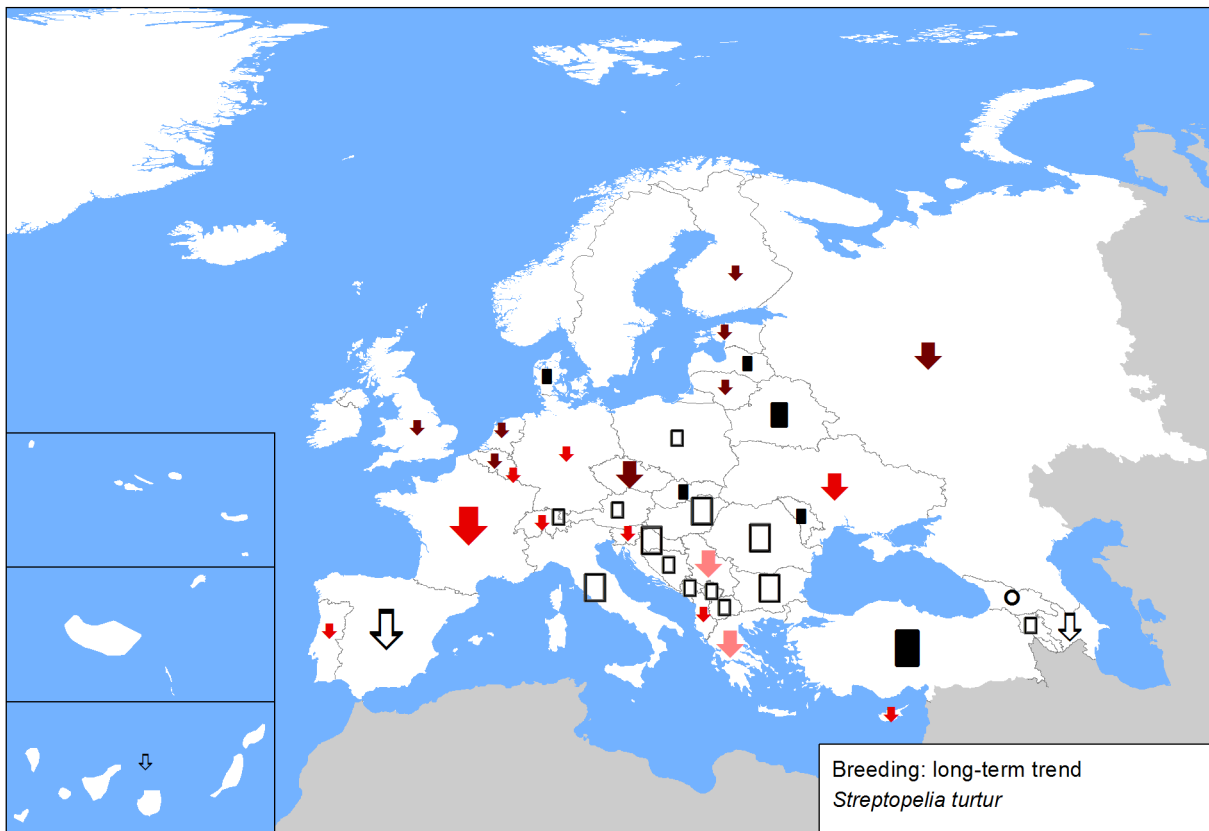
- ↑ Large:  $\geq 10\%$  of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small:  $< 1\%$  of the European population

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



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



## 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. Birds in Europe 2

### Armenia

<b>Breeding population size:</b> ASPB data
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### Austria

<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> N. Teufelbauer based on data from the Austrian Common Breeding Bird Monitoring

### Azerbaijan

<b>Breeding population size:</b> AOS data base
<b>Breeding short-term trend:</b> AOS data base
<b>Breeding long-term trend:</b> AOS data base

### Belarus

<b>Breeding population size:</b> Zhuravliev D.V. - personal communication
<b>Breeding short-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>Breeding long-term trend:</b> Nikiforov M.E., Kozulin A.V., eds. Belarussian birds at the beginning of XXI century: status, numbers, distribution. - 1997. - Minsk. - 187 p.

### Belgium

<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

### Bosnia and Herzegovina

<b>Breeding population size:</b> Kotošan, D., Dročić, N., Trbojević, S., Šimić, E., Dervović, I., 2012: Program IBA, Međunarodno značajna područja za ptice, u Bosni i Hercegovini. Ornitološko društvo "Naše ptice", interno izdanje za projekat "Evaluacija IBA područja u FBiH", Sarajevo.
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### Bulgaria

<b>Breeding population size:</b> 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. SPAs mapping in 2012 Common Bird Monitoring Scheme <a href="http://bspb.org/monitoring/">http://bspb.org/monitoring/</a> Geographic Information System with Ornithological Information of BSPB
<b>Breeding short-term trend:</b> Common Bird Monitoring Scheme <a href="http://bspb.org/monitoring/">http://bspb.org/monitoring/</a> Population trend for the period 2005-2012.
<b>Breeding long-term trend:</b> 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.

### Croatia

<b>Breeding population size:</b> BiE III Work group, Croatia
<b>Breeding short-term trend:</b> BiE III Work group, Croatia
<b>Breeding long-term trend:</b> BiE III Work group, Croatia

### Cyprus

<b>Breeding population size:</b> Unpublished analysis of monitoring data for the W of Cyprus by proff Derek Pomeroy; Game & Fauna Service hunting bag statistics and also data from systematic surveys in some SPAs; BirdLife Cyprus 2013 Common Birds monitoring scheme data; Bird sightings records as published in BirdLife Cyprus annual reports.
<b>Breeding short-term trend:</b> 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.
<b>Breeding long-term trend:</b> Recent data as above, but no systematic data is available for before 2006.

### Czech Republic

<b>Breeding population size:</b> STASTNY K., BEJCEK V. & HUDEC K. 2006: Atlas hnízdního rozšíření ptaku v České republice. Aventinum Praha. JPSP: <a href="http://jpsp.birds.cz/vysledky.php?taxon=605">http://jpsp.birds.cz/vysledky.php?taxon=605</a>
<b>Breeding short-term trend:</b> <a href="http://jpsp.birds.cz/vysledky.php?taxon=605">http://jpsp.birds.cz/vysledky.php?taxon=605</a>
<b>Breeding long-term trend:</b> <a href="http://jpsp.birds.cz/vysledky.php?taxon=605">http://jpsp.birds.cz/vysledky.php?taxon=605</a>

## *Streptopelia turtur* (European Turtle-dove)

### Denmark

**Breeding population size:** Jester Tofft

**Breeding short-term trend:** Nyegaard et al. (2014): Truede og sjældne ynglefugle i Danmark 1998-2012 - With a summary in English: Rare and threatened breeding birds in Denmark 1998-2012. DOFT 108(1). In prep. Survey in one part of the country

**Breeding long-term trend:** Nyegaard et al. (2014): Truede og sjældne ynglefugle i Danmark 1998-2012 - With a summary in English: Rare and threatened breeding birds in Denmark 1998-2012. DOFT 108(1). In prep. Grell, Michael Borch (1998): Fuglenes Danmark. Gads forlag i samarbejde med Dansk Ornitologisk Forening. Survey in one part of the country

### Estonia

**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

**Breeding population size:** Väisänen, Risto A., Hario, Martti & Saurola, Pertti 2011: Population estimates of Finnish birds. In: Valkama, Jari, Vepsäläinen, Ville & Lehtikoinen, Aleksi 2011: The Third Finnish Breeding Bird Atlas. – Finnish Museum of Natural History and Ministry of Environment. (cited [15.11.2013]) ISBN 978-952-10-7145-4.

**Breeding short-term trend:** BirdLife Finland 2013: Regional observation summary database of Finnish birdwatching societies on scarce birds.

**Breeding long-term trend:** BirdLife Finland 2013: Regional observation summary database of Finnish birdwatching societies on scarce birds.

### France

**Breeding population size:** JARRY, G. 1994 Tourterelle des bois *Streptopelia turtur*, Société d'Etudes Ornithologiques, Paris, p. 26-32 BACO, L. 2012 Estimation de la taille de la population de Tourterelle des bois nicheuses en France, Université Montpellier, 20 p + ann

**Breeding short-term trend:** [http://www.oncfs.gouv.fr/IMG/pdf/oiseaux%20passage/rapport\\_ACT\\_et\\_FLASH\\_2012.pdf](http://www.oncfs.gouv.fr/IMG/pdf/oiseaux%20passage/rapport_ACT_et_FLASH_2012.pdf) [http://www.atlas-ornitho.fr/index.php?m\\_id=505](http://www.atlas-ornitho.fr/index.php?m_id=505) STOC EPS / MNHN BIRDLIFE INTERNATIONAL 2004 Birds in Europe: population estimates, trends and conservation status Frochot B. & Roché J. 1990 Suivi de populations d'oiseaux nicheurs par la méthode des indices ponctuels d'abondance (I.P.A.), p. 29-35 <http://vigienature.mnhn.fr/>

**Breeding long-term trend:** [http://www.oncfs.gouv.fr/IMG/pdf/oiseaux%20passage/rapport\\_ACT\\_et\\_FLASH\\_2012.pdf](http://www.oncfs.gouv.fr/IMG/pdf/oiseaux%20passage/rapport_ACT_et_FLASH_2012.pdf) [http://www.atlas-ornitho.fr/index.php?m\\_id=505](http://www.atlas-ornitho.fr/index.php?m_id=505) STOC EPS / MNHN BIRDLIFE INTERNATIONAL 2004 Birds in Europe: population estimates, trends and conservation status Frochot B. & Roché J. 1990 Suivi de populations d'oiseaux nicheurs par la méthode des indices ponctuels d'abondance (I.P.A.), p. 29-35 <http://vigienature.mnhn.fr/>

### Georgia

**Breeding population size:** BirdLife International 2004

### Germany

**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

**Breeding population size:** Hellenic Ornithological Society database

**Breeding short-term trend:** Hellenic Ornithological Society database

**Breeding long-term trend:** Hellenic Ornithological Society database

### Hungary

**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. 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.

### Italy

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

**Breeding short-term trend:** 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)

**Breeding long-term trend:** 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) Tucker GM & Heath MF. 1994. Birds in Europe. Their conservation status. Cambridge, UK: BirdLife International. BirdLife Conservation Series No. 3 BirdLife International 2004. Birds in Europe: population estimates, trends and conservation status Cambridge, UK: BirdLife International. BirdLife Conservation Series No. 12

### Kosovo

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

## *Streptopelia turtur* (European Turtle-dove)

### Latvia

<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. 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
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### Lithuania

<b>Breeding population size:</b> Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“, 288 p.
<b>Breeding short-term trend:</b> Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“, 288 p. Kurlavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“, 256 p. Raudonikis L. 2004. Lithuania. In: Birds in Europe: population estimates, trends, and conservation status. BirdLife International, BirdLife Conservation Series No12, Cambridge, UK.
<b>Breeding long-term trend:</b> Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) BirdLife International/European Bird Census Council. 2000. European bird populations: estimates and trends. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 10). Kurlavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“, 256 p.

### Luxembourg

<b>Breeding population size:</b> LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Lorgé P., E. Melchior (2010): Die Vögel Luxemburgs. LNVL, Luxembourg. ISBN: 978-2-919920-01-3
<b>Breeding short-term trend:</b> LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Lorgé P., E. Melchior (2010): Die Vögel Luxemburgs. LNVL, Luxembourg. ISBN: 978-2-919920-01-3
<b>Breeding long-term trend:</b> LUXOR (2013): NATUR&EMWELT - BIRD-DATABASE, LUXEMBOURG Recorder (2013): database, Musée national d'histoire naturelle, Luxembourg Lorgé P., E. Melchior (2010): Die Vögel Luxemburgs. LNVL, Luxembourg. ISBN: 978-2-919920-01-3

### The Former Yugoslav Republic of Macedonia

<b>Breeding population size:</b> unpublished data, M. Velevski
<b>Breeding short-term trend:</b> unpublished data, M. Velevski

### Moldova

<b>Breeding population size:</b> The Atlas of the Breeding Birds of Republic of Moldova. 2010. 100p.
<b>Breeding short-term trend:</b> The Atlas of the Breeding Birds of Republic of Moldova. 2010. 100p.
<b>Breeding long-term trend:</b> Аверин Ю. В., Ганя И.М., Успенский Г. Птицы Молдавии, Кишинев, 1981, 240p Burfield I., Bommel van F., Birds in Europe. Population estimates, trends and conservation status. BirdLife International. Oxford, 2004. 374p.

### Montenegro

<b>Breeding population size:</b> Katastar of hunting areas in Montenegro. Environmental protection Agency 2009
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### Netherlands

<b>Breeding population size:</b> NEM, Sovon en CBS, SOVON (2002)
<b>Breeding short-term trend:</b> NEM, Sovon en CBS, Boele et al. (2013)
<b>Breeding long-term trend:</b> NEM, Sovon en CBS

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<b>Breeding population size:</b> 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 Ptasiej w Polsce w zakresie Monitoringu Ptaków Polski w Państwowym Monitoringu Środowiska. Sprawozdanie dla Głównego Inspektoratu Ochrony Środowiska. OTOP, Marki.
<b>Breeding short-term trend:</b> 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: <a href="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</a> )

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<b>Breeding population size:</b> Equipa Atlas (2008). Atlas das Aves Nidificantes em Portugal (1999-2005). Instituto da Conservação da Natureza e da Biodiversidade, Sociedade Portuguesa para o Estudo das Aves, Parque Natural da Madeira e Secretaria Regional do Ambiente e do Mar. Assírio e Alvim. Lisboa; Rego F.C (coord) (2006). Variação geográfica na abundância e na biologia reprodutora da rola [Streptopelia turtur (L)]. Implicações para a gestão cinegética. Relatório Final do Projecto. CEABN, ICETA, ERENA, Lisboa. 157pp + anexos.
<b>Breeding short-term trend:</b> Programa Censos de Aves Comuns (CAC)
<b>Breeding long-term trend:</b> Valente, J (2005). Avaliação da tendência populacional da rola-comum (Streptopelia turtur) em Portugal. Trabalho final de licenciatura em Engenharia Florestal. Departamento de Engenharia Florestal, Instituto Superior de Agronomia. Lisboa. 40 pp.; Dias, S., Moreira, F., Beja, P., Carvalho, M., Gordinho, L., Reino, L., Oliveira, V. & Rego F., 2013, Landscape effects on large scale abundance patterns of turtle doves Streptopelia turtur in Portugal. European Journal of Wildlife Research 59: 531-541.(doi: 10.1007/s10344-013-0702-2); Informação Susana Dias.



## *Streptopelia turtur* (European Turtle-dove)

### Romania

**Breeding population size:** Romanian Commonbird Monitoring Programme, 2007-2012 SOR database, Milvus database

**Breeding short-term trend:** Romanian Commonbird Monitoring Programme, 2007-2012 SOR database, Milvus database

**Breeding long-term trend:** Romanian Commonbird Monitoring Programme, 2007-2012 SOR database, Milvus database

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**Breeding population size:** Belik V.P., unpublished. vpbelik@mail.ru Ivanchev V.P., Denis L.S. 2011. Turtle Dove. P. 109. - In: Ivanchev V.P. and Kazakova M.V. (eds.). Red Data Book of Ryazan Region, Ryazan (in Russian). Mischenko, expert opinion Preobrazhenskaya, expert opinion. voop21@rambler.ru Borodin O.V., Smirnova S.L., expert opinion. spinus73@mail.ru Sukhanova, expert opinion. olga.redro@gmail.com

**Breeding short-term trend:** Belik V.P., unpublished. vpbelik@mail.ru Ivanchev V.P., Denis L.S. 2011. Turtle Dove. P. 109. - In: Ivanchev V.P. and Kazakova M.V. (eds.). Red Data Book of Ryazan Region, Ryazan. Preobrazhenskaya E.S. 2009. Numbers of some rare bird species in Unzha taiga and their changes in 1978-2009. - Rare bird species of Non-Chernozem Centre of Russia. Proc. of IVth Conference. Moscow: 43-49 (in Russian). Kostenko A.V. 2012. To the question about structure and long-term trends of fauna and populations of birds in the woodlands of Stavropol Upland in breeding season. - Strepet 10, issue 2: 7-34 (in Russian). Mischenko A.L. Turtle Dove. - Red Data Book of Novgorod Region. In press. Belik V.P. 2005. Cadastre of breeding avifauna of South Russia. Strepet 3, no. 1-2: 5-37 (in Russian). Shepel A.I., unpublished. shai53@mail.ru Sarychev V.S. (ed.) 2009. Vertebrates of Lipetsk Region. Voronezh: 494 p. Sarychev V.S., unpublished. vssar@yandex.ru

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### Serbia

**Breeding population size:** BPSSS (2014) Unpublished data

**Breeding short-term trend:** BPSSS (2014) Unpublished data

**Breeding long-term trend:** BPSSS (2014) Unpublished data

### Slovakia

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**Breeding long-term trend:** Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.

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### ES: Canary Is

**Breeding long-term trend:** Martín, A. & J. A. Lorenzo. 2001. Aves del Archipiélago Canario. Francisco Lemus Editor. La Laguna. 787 pp. Madroño, A., González, C. & Atienza, J. C. (eds.). 2004. Libro Rojo de las Aves de España. Dirección General para la Biodiversidad - SEO/BirdLife. Madrid. 452 pp. Emmerson, K. 2005. Estudio de la abundancia relativa de especies cinegéticas en la isla de Tenerife durante el trienio 2002-2004. Cabildo Insular de Tenerife/Ornitudario S.L. Informe no publicado. Lorenzo, J.A. 2007 (ed). Atlas de las Aves Nidificantes en el Archipiélago Canario (1997-2003). Dirección General de Conservación de la Naturaleza-Sociedad Española de Ornitología. Madrid. 520 pp.

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