



THE IUCN RED LIST  
OF THREATENED SPECIES™



## ***Passer hispaniolensis* (Spanish Sparrow)**

### **European Red List of Birds**

### **Supplementary Material**

The European Union (EU28) 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 2019-20. 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 (2021).

#### **Contents**

Reported national population sizes and trends  
Trend maps of reported national population data  
Sources of reported national population data  
Species factsheet bibliography

#### **Recommended citation**

BirdLife International (2021) European Red List of Birds. Luxembourg: Publications Office of the European Union.

#### **Further information**

<http://datazone.birdlife.org/info/euroredlist>  
<http://www.birdlife.org/europe-and-central-asia/european-red-list-birds-0>  
<http://www.iucnredlist.org/regions/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).

*Passer hispaniolensis* (Spanish Sparrow)

**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>5</sup>				Long-term population trend <sup>5</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	
Albania	32000–64100	<1	2007-2018	partial	+	114 to 221	2007-2018	partial	+	220 to 541	1980-2018	expert	
Armenia	1000–2000	<1	2013-2018	complete	?		2007-2018	deficient	?		2003-2018	deficient	
Azerbaijan	100000–500000	4	1996-2019	expert	?		2013-2019	expert	?		1980-2019	expert	
Bosnia & HG	10000–15000	<1	2015-2018	complete	+	10 to 20	2007-2018	complete	+	30 to 40	1980-2018	complete	
Bulgaria	53000–250000	2	2005-2018	partial	+	5 to 20	2001-2018	expert	+	10 to 30	1980-2018	expert	
Croatia	300000–500000	6	2014-2014	expert	?		2007-2018	deficient	?		1980-2018	deficient	
Cyprus	150000–400000	4	2013-2018	expert	0	0	2007-2018	expert	?		1980-2018	deficient	
Georgia	2400–20400	<1	2013-2017	partial	?			deficient	?				
Greece	50000–300000	2	2015	partial	-		2007-2018	partial	0		1980-2018	partial	
Italy	400000–800000	9	2013-2018	expert	-	-25 to -15	2012-2017	partial	+	30 to 60	1993-2018	expert	
Kosovo	800–1000	<1	2007-2019	partial	-		2007-2018	partial	?		1990-2018	partial	
North Macedonia	10000–30000	<1	2014-2019	expert	0		2007-2018	expert	?		1980-2019		
Malta	100000–296000	3	2017-2018	complete	0		2008-2018	complete	0		1980-2018	complete	
Moldova	60–240	<1	2014-2017	partial	+		2007-2018	partial	?		1990-2018	deficient	
Montenegro	1500–3000	<1	2002-2012	expert	0		2007-2018	expert	?				
Portugal	50000–500000	3	2013-2018	partial	+		2007-2018	partial	?		1980-2018	deficient	
PT: Madeira	1000–5000	<1	2013-2018	partial	0		2008-2018	partial	-		1980-2018	expert	
Romania	200000–600000	6	2013-2018	expert	?	-7 to 11	2008-2018	partial	?		1980-2018	deficient	
Russia	30000–50000	<1	2008-2018	partial	+	50 to 79	2008-2018	expert	+	80 to 85	1980-2018	expert	
Serbia	2800–5100	<1	2013-2018	partial	+	10 to 29	2007-2018	complete	+	30 to 49	1980-2018	complete	
Slovenia	0–10	<1	2018-2018	complete	?		2007-2018	deficient	?		1980-2018	deficient	
Spain	765000–2510000	23	2004-2006	partial	+		1998-2018	expert	+		1980-2018	expert	
ES: Canary Is	20000–100000	<1	1997-2018	expert	?		2007-2018	expert	?		1980-2018	deficient	
Turkey	1500000–3000000	35	2002-2012	deficient	?		2008-2019	deficient	?		1980-2013	deficient	
Ukraine	1000–3000	<1	2015-2018	partial	+	500 to 1000	2007-2018	partial	+	3000 to 9000	1980-2018	partial	
EU28	2080000–6270000	59											
<b>Europe</b>	<b>3780000–9960000</b>	<b>100</b>											

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	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	

<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 'method used' (replacing the data 'quality' assessment in the 2015 European Red List) is reported as: a) Complete: complete survey or a statistically robust estimate; b) Partial: based mainly on extrapolation from a limited amount of data; c) Expert: based mainly on expert opinion with very limited data; d) Defficient: insufficient or no data available.

<sup>5</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>6</sup> Trend directions are reported as: increasing (+); decreasing (-); stable (0); fluctuating (F); or unknown (?).

<sup>7</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

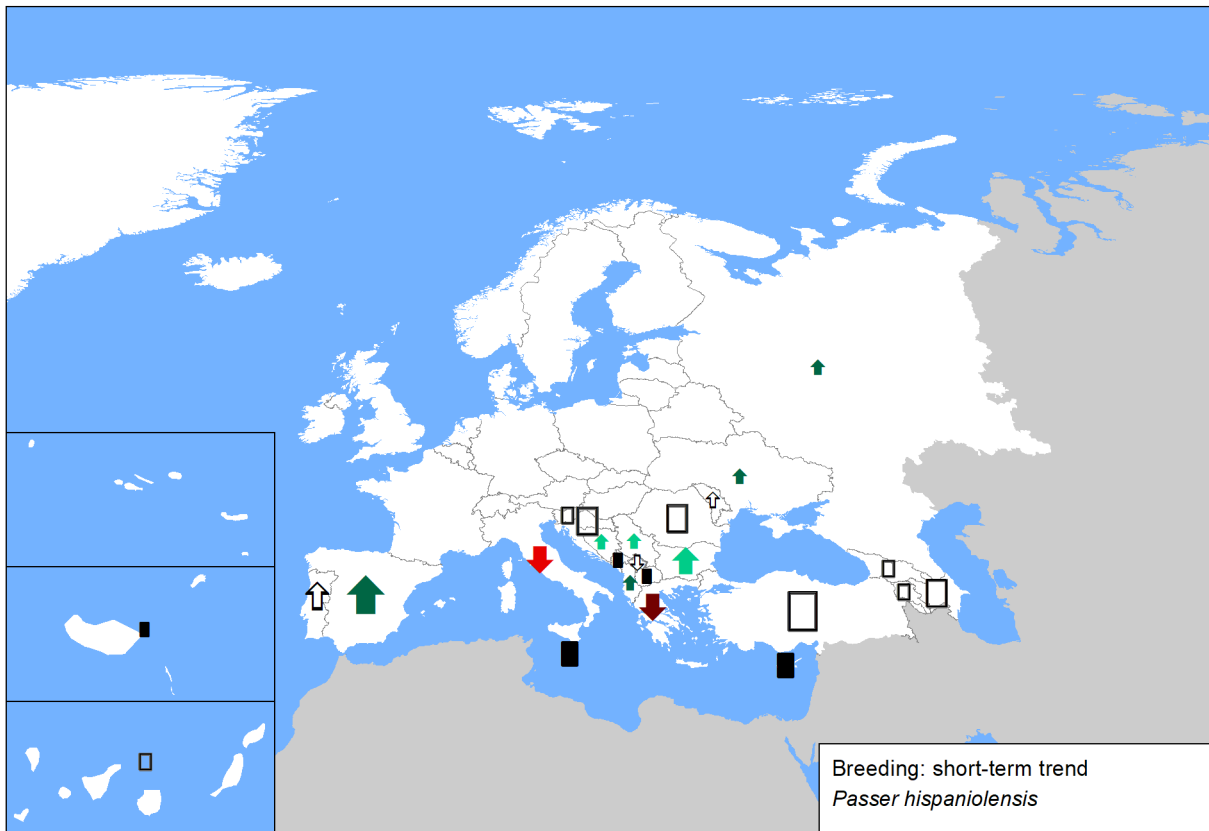
- |   |                                  |
|---|----------------------------------|
| ↑ Large increase ( $\geq 50\%$ )        | ↓ Large decrease ( $\geq 50\%$ ) |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)     |
| ↑ Small increase ( $< 20\%$ )           | ↓ Small decrease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

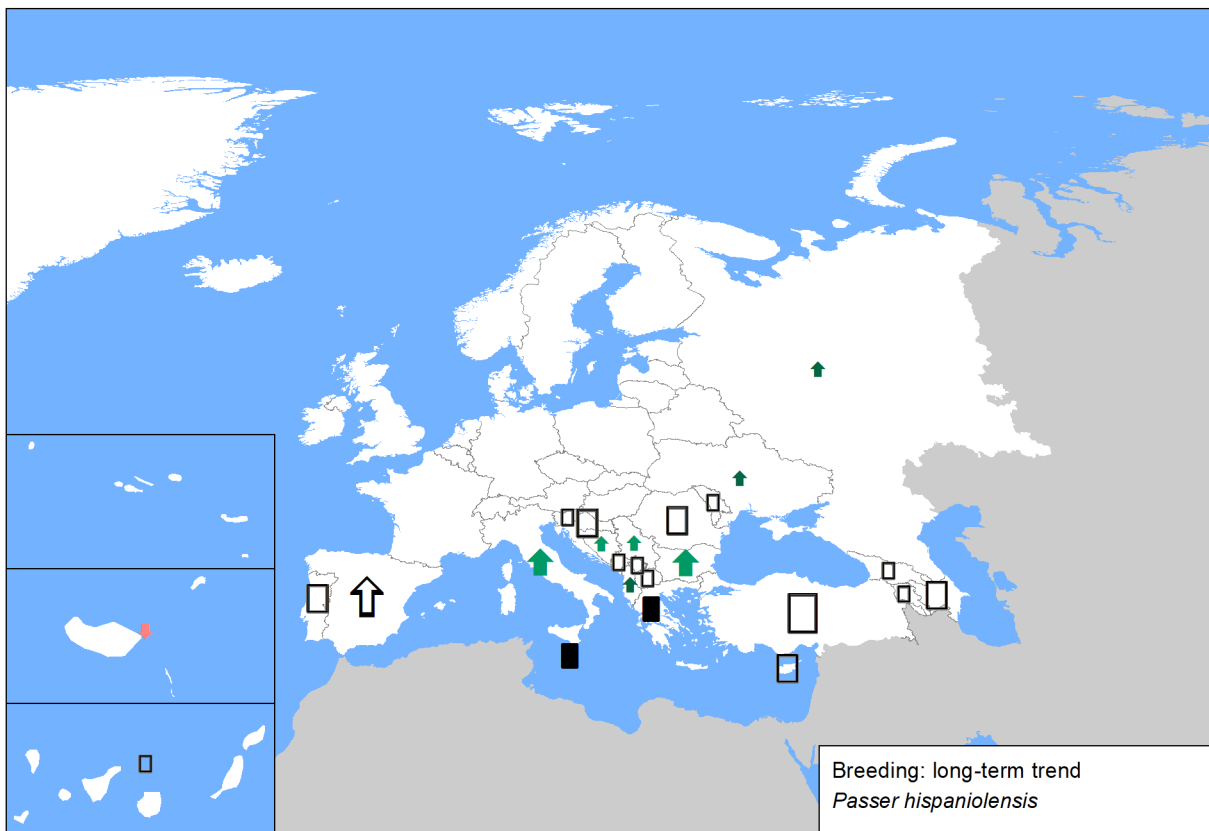
- ↑ Large:  $\geq 10\%$  of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small:  $< 1\%$  of the European population

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.



## Sources

### Albania

<b>Breeding population size:</b> Bino & Xeka 2020 in EBBA 2
<b>Breeding short-term trend:</b> Bino & Xeka pers. obs.
<b>Breeding long-term trend:</b> Bino pers. obs.

### Armenia

<b>Breeding population size:</b> TSE NGO National Bird Monitoring data.
<b>Breeding short-term trend:</b> TSE (2020) The Atlas of the Breeding Birds in Armenia. In preparation.
<b>Breeding long-term trend:</b> TSE (2020) The Atlas of the Breeding Birds in Armenia. In preparation.

### Azerbaijan

<b>Breeding population size:</b> BirdLife International 2004
<b>Breeding short-term trend:</b> AOS data base
<b>Breeding long-term trend:</b> AOS Data Base

### Bosnia and Herzegovina

<b>Breeding population size:</b> Based on data for EBBA2
<b>Breeding short-term trend:</b> more individual articles e.g published in magazine Bilten mreže posmatrača ptica u Bosni i Hercegovini-see <a href="https://ptice.ba/bs/category/bilteni_/">https://ptice.ba/bs/category/bilteni_/</a> , individual reports (e.g. for EBBA2, projects etc)
<b>Breeding long-term trend:</b> Obratil, S., 1986: Areal vrapca španjolskog <i>Passer hispaniolensis</i> (Temminck) u Bosni i Hercegovini. Larus, 36-37: 49-57, reports for EBBA2

### 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.; National Art. 12 reporting database 2013-2018; 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> 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.; National Art. 12 reporting database 2013-2018; 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 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> Dumbović Mazal V., Pintar V., Zadavec M. (2019): Prvo izvješće o brojnosti i rasprostranjenosti ptica u Hrvatskoj sukladno odredbama Direktive o pticama.
<b>Breeding short-term trend:</b> no data available
<b>Breeding long-term trend:</b> no data available

### Cyprus

<b>Breeding population size:</b> Expert opinion
<b>Breeding short-term trend:</b> Expert opinion
<b>Breeding long-term trend:</b> Bird sightings records as published in BirdLife Cyprus annual reports; No systematic data is available for before 2006; Flint & Stewart BOU Checklist no.6 (1992) The Birds of Cyprus

### Georgia

<b>Breeding population size:</b> EBBA Georgia, prepared by Sabuko-Society for nature conservation, Iliia state university, NGO "psovi".
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### Greece

<b>Breeding population size:</b> 1. Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παπαζογλου, C. & Βαρον, Β. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού. 2. Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μπονιζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπλης Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ» Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη.
<b>Breeding short-term trend:</b> 1. BirdLife International (2004) Birds in Europe : Population estimates, trends and conservation status, Cambridge, UK: Birdlife International (Birdlife Conservation Series No. 12). 2. Natura viewer ( <a href="http://natura2000.eea.europa.eu/#">http://natura2000.eea.europa.eu/#</a> ). 3. Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παπαζογλου, C. & Βαρον, Β. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού. 4. Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μπονιζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπλης Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ» Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη.

## *Passer hispaniolensis* (Spanish Sparrow)

### Greece

**Breeding long-term trend:** 1) Handrinos, G., & Akriotis T., (1997) The birds of Greece. C. Helm, A & Black, London. 2) BirdLife International (2004) Birds in Europe : Population estimates, trends and conservation status, Cambridge, UK: Birdlife International (Birdlife Conservation Series No. 12). 3) Natura viewer (<http://natura2000.eea.europa.eu/#>). 4) Δημαλέξης, Τ., Καστριτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παπαζογλου, C. & Barov, B. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού. 5) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μποντζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπαλης Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ» Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη.

### Italy

**Breeding population size:** Brichetti P & Fracasso G. 2013. Ornitologia italiana. Vol.8 (Sturnidae-Fringillidae). Alberto Perdisa Editore, Bologna

**Breeding short-term trend:** Extrapolated data by the average annual trend, from: Rete Rurale Nazionale & Lipu (2018). Uccelli comuni delle zone agricole in Italia. Aggiornamento degli andamenti di popolazione e del FBI per la Rete Rurale Nazionale dal 2000 al 2017. 16 pp.

**Breeding long-term trend:** Brichetti P., Meschini E., 1993. Stima delle popolazioni di uccelli nidificanti. In Meschini E., Frugis S., 1993. Atlante degli uccelli nidificanti in Italia. Suppl. Ric. Biol. Selvaggina, 20, 1-345.

### Kosovo

**Breeding population size:** Qenan Maxhuni

**Breeding short-term trend:** Qenan Maxhuni

**Breeding long-term trend:** Puzovic, S. et al. (2004): Birds of Serbia and Montenegro – Size of nesting populations. I trends: 1990-2002. Ciconia 12

### North Macedonia

**Breeding population size:** unpublished data from the European Breeding Bird Atlas 2

**Breeding short-term trend:** unpublished data from the European Breeding Bird Atlas 2

### Malta

**Breeding population size:** 'Malta Breeding Bird Atlas 2018' in preparation, (included a complete breeding bird population census in Malta together with a wintering bird census in 2017-2018)

**Breeding short-term trend:** Malta Breeding Bird Atlas (2018) in preparation, (included a complete breeding bird population census in Malta together with a wintering bird census in 2017-2018) Sultana, J., Borg, J.J., Gauci, C. & Falzon, V. (2011): The Breeding Birds of Malta. Malta: BirdLife Malta & BDL Publishing. Raine, A., Sultana, J. & Gillings, S. (2009) Malta Breeding Bird Atlas 2008, Malta: BirdLife Malta.

**Breeding long-term trend:** Malta Breeding Bird Atlas (2018) in preparation, (included a complete breeding bird population census in Malta together with a wintering bird census in 2017-2018) Sultana, J., Borg, J.J., Gauci, C. & Falzon, V. (2011): The Breeding Birds of Malta. Malta: BirdLife Malta & BDL Publishing. Raine, A., Sultana, J. & Gillings, S. (2009) Malta Breeding Bird Atlas 2008, Malta: BirdLife Malta. BirdLife International (2004) Birds in Europe: population estimates, trends and conservation status. BirdLife International (BirdLife Conservation Series No. 12), Cambridge, UK. Tucker, G.M. & Heath, M.F. (1994) Birds in Europe: their conservation status. BirdLife International (BirdLife Conservation Series No. 3), Cambridge, UK.

### Moldova

**Breeding population size:** Moldova's contribution for the second European Breeding Bird Atlas (EBBA2)

**Breeding short-term trend:** SPPN expert opinion ([sppn.moldova@gmail.com](mailto:sppn.moldova@gmail.com))

**Breeding long-term trend:** SPPN expert opinion ([sppn.moldova@gmail.com](mailto:sppn.moldova@gmail.com))

### Montenegro

**Breeding population size:** 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,

### Portugal

**Breeding population size:** eBird (2019). eBird: An online database of bird distribution and abundance [web application]. eBird, Ithaca, New York. Available: <http://www.ebird.org/portugal/home>. (Accessed: October 22, 2018).

**Breeding short-term trend:** eBird: An online database of bird distribution and abundance [web application]. eBird, Ithaca, New York. Available: <http://www.ebird.org/po>

### PT: Madeira

**Breeding population size:** Equipa Atlas, 2013 - [http://www.atlasdasaves.netmadeira.com/index.php?option=com\\_content&view=article&id=158&Itemid=66&lang=pt](http://www.atlasdasaves.netmadeira.com/index.php?option=com_content&view=article&id=158&Itemid=66&lang=pt) Atlas das Aves Invernantes e Migradoras de Portugal [https://drive.google.com/drive/folders/1MJWLVHRhU9A8IgbvY2DhPiFm\\_Tp1hD25](https://drive.google.com/drive/folders/1MJWLVHRhU9A8IgbvY2DhPiFm_Tp1hD25)

**Breeding short-term trend:** Meirinho, A., Leal, A., Marques, A.T., Fagundes, A.I., Sampaio, H., Costa, J. & Leitão, D. 2013. O estado das aves comuns em Portugal 2011: Relatório do projeto Censo de Aves Comuns. Sociedade Portuguesa para o Estudo das Aves, Lisboa [http://www.spea.pt/fotos/editor2/relatoriacac\\_2011.pdf](http://www.spea.pt/fotos/editor2/relatoriacac_2011.pdf)

**Breeding long-term trend:** Oliveira, P. & Menezes, D. 2004. Aves do Arquipélago da Madeira. Serviço do Parque Natural da Madeira

### Romania

**Breeding population size:** Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database

**Breeding short-term trend:** Romanian Common Bird Monitoring Programme, Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database

**Breeding long-term trend:** Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database

## *Passer hispaniolensis* (Spanish Sparrow)

### Russia

**Breeding population size:** Voltzit & Kalyakin 2013-2019; Database of the project on Atlas of breeding birds of European Russia

**Breeding short-term trend:** Belik, unpublished. vpbelik@mail.ru

**Breeding long-term trend:** Belik et al. 2003; Belik 2005

### Serbia

**Breeding population size:** EBBA2 project; Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.

**Breeding short-term trend:** Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.

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