



THE IUCN RED LIST  
OF THREATENED SPECIES™



## ***Aquila fasciata (Bonelli's Eagle)***

### **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).

*Aquila fasciata* (Bonelli's Eagle)

**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	2-8	<1	2002-2012	poor	-	10-20	2002-2012	poor	-	10-30	1980-2012	poor	
Armenia	Present	<1	2002-2012		?				?				
Azerbaijan	0-5	<1	1996-2000	poor	?				?				
Bosnia & HG	0	<1	2010-2014	medium	?				-	100	1980-2013	medium	
Bulgaria	1-3	<1	2005-2012	medium	?				?				
Croatia	1-2	<1	2010	poor	-	0-50	2002-2010	poor	?				
Cyprus	40-50	4	2008-2012	good	+	25-100	2001-2012	medium	+	100-150	1980-2012	medium	
France	28-31	3	2008-2012	good	+	20	2000-2012	good	-	42-46	1980-2012	good	
Greece	100-140	10	2008-2012	good	0	0	2001-2012	medium	0	0	1980-2012	medium	
Italy	25-30	2	2011-2012	good	?				-		1980-2012	medium	
FYRO Macedonia	0-2	<1	2001-2012	poor	?				?				
Montenegro	2-5	<1	2002-2012	medium	?				?				
Portugal	128-150	12	2013	good	+	40-50	2001-2013	good	+	50-80	1991-2013	medium	
Spain	741-763	66	2008-2012	good	0	0	2001-2012	good	-		1980-2012	medium	
Turkey	5-20	1	2013	good	-	30-49	2008-2012	medium	-	0-19	1990-2013	medium	
EU27	1,100-1,200	98			Stable								
Europe	1,100-1,200	100			Stable								

<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  |

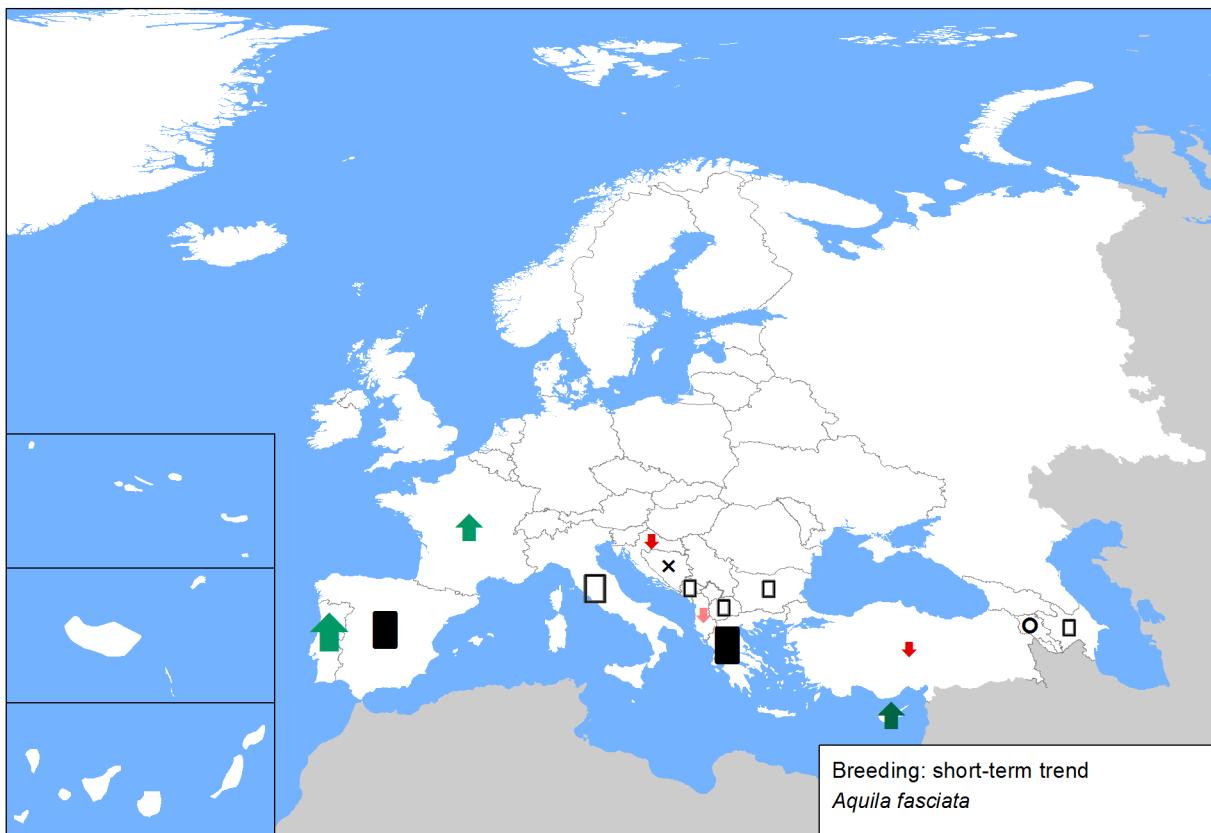
- Stable or fluctuating
- Unknown
- Present (no population or trend data)
- ✗ Extinct since 1980

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.

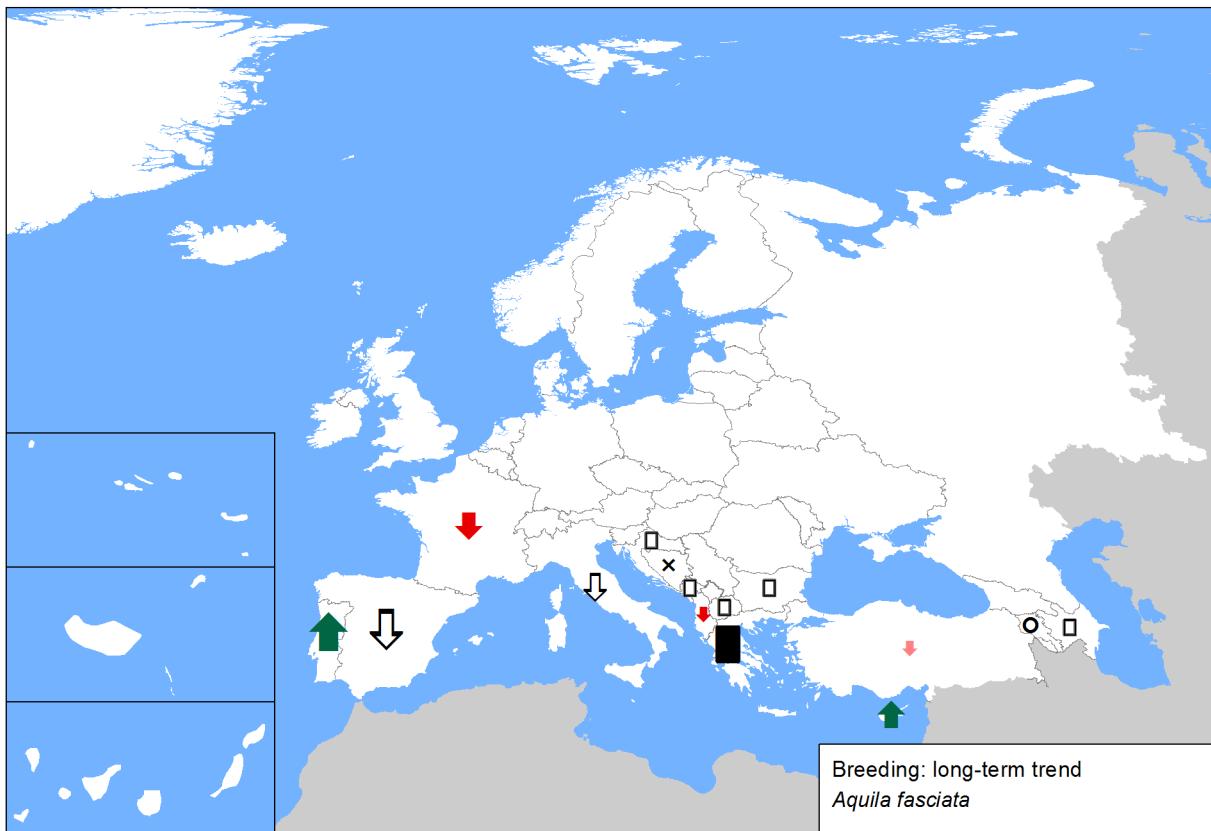
- ↑ Large:  $\geq 10\%$  of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small: <1% of the European population

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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.



## *Aquila fasciata* (Bonelli's Eagle)

# Sources

### Albania

Breeding population size: Bino pers. obs.

Breeding short-term trend: Bino pers. obs.

Breeding long-term trend: Bino pers. obs.

### Armenia

Breeding population size: ASPB data

### Azerbaijan

Breeding population size: BirdLife International 2004

### Bosnia and Herzegovina

Breeding population size: Kotrošan, D. & Hatibović, E., 2012: Raptors in Bosnia and Herzegovina – status and perspectives for monitoring. *Acrocephalus* 33 (154/155): 173-179.

Breeding long-term trend: Marinković, S., Orlandić, Lj. 1989: Prvi nalaz planinskog orla (*Hieraetus fasciatus* V.) na grijevčenju u Jugoslaviji. *Larus*, 40: 179-183.

### Bulgaria

Breeding population size: Iankov, P. 2011. Bonelli's Eagle (*Hieraetus fasciatus*). - In: Golemansky V. (ed.) 2011. Red Data Book of Bulgaria. Vol. 2, Animals. [Http://e-ecodb.bas.bg/rdb/en/vol2/](http://e-ecodb.bas.bg/rdb/en/vol2/) Iankov, P., B. Tonchev, E. Stoynov. 2007. Bonelli's Eagle (*Hieraetus fasciatus*). - In: Iankov, P. (ed.) 2007. Atlas of the Breeding Birds in Bulgaria , BSPB, Conservation series, Book 10, Sofia. Demerdzhiev, D., P. Iankov (in press). Current status, distribution, trends and conservation status of the Bonelli's Eagle in Bulgaria. - In: The Bonelli's Eagle - Ecology, behaviour and conservation. - Hernandes, V. (ed.).

Breeding short-term trend: Iankov, P. 2011. Bonelli's Eagle (*Hieraetus fasciatus*). - In: Golemansky V. (ed.) 2011. Red Data Book of Bulgaria. Vol. 2, Animals. [Http://e-ecodb.bas.bg/rdb/en/vol2/](http://e-ecodb.bas.bg/rdb/en/vol2/) Iankov, P., B. Tonchev, E. Stoynov. 2007. Bonelli's Eagle (*Hieraetus fasciatus*). - In: Iankov, P. (ed.) 2007. Atlas of the Breeding Birds in Bulgaria , BSPB, Conservation series, Book 10, Sofia. Demerdzhiev, D., P. Iankov (in press). Current status, distribution, trends and conservation status of the Bonelli's Eagle in Bulgaria. - In: The Bonelli's Eagle - Ecology, behaviour and conservation. - Hernandes, V. (ed.).

Breeding long-term trend: Iankov, P. 2011. Bonelli's Eagle (*Hieraetus fasciatus*). - In: Golemansky V. (ed.) 2011. Red Data Book of Bulgaria. Vol. 2, Animals. [Http://e-ecodb.bas.bg/rdb/en/vol2/](http://e-ecodb.bas.bg/rdb/en/vol2/) Iankov, P., B. Tonchev, E. Stoynov. 2007. Bonelli's Eagle (*Hieraetus fasciatus*). - In: Iankov, P. (ed.) 2007. Atlas of the Breeding Birds in Bulgaria , BSPB, Conservation series, Book 10, Sofia. Demerdzhiev, D., P. Iankov (in press). Current status, distribution, trends and conservation status of the Bonelli's Eagle in Bulgaria. - In: The Bonelli's Eagle - Ecology, behaviour and conservation. - Hernandes, V. (ed.). Botev, B. (ed.) 1985. Red Data Book of Bulgaria, Vol. 2, Animals, Sofia, BAS, 183 p.

### Croatia

Breeding population size: Tutiš, V., Kralj, J., Radović, D., Ćiković, D. i Barišić, S. (2013): Crvena knjiga ptica Republike Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Zagreb

Breeding short-term trend: Tutiš, V., Kralj, J., Radović, D., Ćiković, D. i Barišić, S. (2013): Crvena knjiga ptica Republike Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode; Radović, D., Kralj, J., Tutiš, V., Ćiković, D. (2003): Red Data Book of Birds od Croatia. MNPPP., Zagreb.

Breeding long-term trend: Tutiš, V., Kralj, J., Radović, D., Ćiković, D. i Barišić, S. (2013): Crvena knjiga ptica Republike Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Zagreb

### Cyprus

Breeding population size: Kassinis (2010) Bird Census News 23; Beton et al. (2013) Zoology in the Middle East; lezekiel et al. (2003) Cyprus Institute for the Promotion of Research study; 2012 revised inventory of Cyprus Important Bird Areas, by Hellicar et al.; Also analysis of recent BirdLife Cyprus bird sightings records reported in the society's annual reports.

Breeding short-term trend: Kassinis (2010) Bird Census News 23; Beton et al. (2013) Zoology in the Middle East; lezekiel et al. (2003) Cyprus Institute for the Promotion of Research study; 2012 revised inventory of Cyprus Important Bird Areas, by Hellicar et al.; 2004 inventory of Cyprus Important Bird Areas, by lezekiel et al.; Whaley DJ & Dawes JC, 2003 Cyprus Breeding Birds' Atlas; Also analysis of recent BirdLife Cyprus bird sightings records reported in the society's annual reports.

Breeding long-term trend: Kassinis (2010) Bird Census News 23; Beton et al. (2013) Zoology in the Middle East; lezekiel et al. (2003) Cyprus Institute for the Promotion of Research study; 2012 revised inventory of Cyprus Important Bird Areas, by Hellicar et al.; 2004 inventory of Cyprus Important Bird Areas, by lezekiel et al.; Whaley DJ & Dawes JC, 2003 Cyprus Breeding Birds' Atlas; Flint & Stewart BOU Checklist no.6 (1992) The Birds of Cyprus; Also analysis of BirdLife Cyprus bird sightings records reported in the society's annual reports.

### France

Breeding population size: Dupuis, V., Scher, O. et al. 2012 Les Oiseaux nicheurs rares & menacés en 2011, 289-325

Breeding short-term trend: Dupuis, V. & coordinateurs espèces 2012 Les Oiseaux nicheurs rares & menacés en 2011, p. 289-325

Breeding long-term trend: Dupuis, V. & coordinateurs espèces 2012 Les Oiseaux nicheurs rares & menacés en 2011, p. 289-325

### Greece

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. Bourdakis, S., & Xirouchakis, S. 2008. The Bonelli's eagle (*Hieraetus fasciatus*) in Greece. In V. J. Hernández. (Editor) The Bonelli's eagle. Ecology, behaviour and conservation.

Breeding short-term trend: Bourdakis, S., & Xirouchakis, S. 2008. The Bonelli's eagle (*Hieraetus fasciatus*) in Greece. In V. J. Hernández. (Editor) The Bonelli's eagle. Ecology, behaviour and conservation.

## *Aquila fasciata* (Bonelli's Eagle)

### Greece

**Breeding long-term trend:** Bourdakis, S., & Xirouchakis, S. 2008. The Bonelli's eagle (*Hieraetus fasciatus*) in Greece. In V. J. Hernández. (Editor) *The Bonelli's eagle. Ecology, behaviour and conservation.*

### Italy

**Breeding population size:** LIPU unpublished data

**Breeding short-term trend:** LIPU unpublished data Gustin M, Brambilla M & Celada C. 2009. Valutazione dello stato di conservazione dell'avifauna italiana. Specie in Allegato I della Direttiva Uccelli. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Lega Italiana Protezione Uccelli (LIPU) Di Vittorio M. 2010. Suitable habitats of the Bonelli's Eagle *Aquila fasciata* in Sicily". Colloque International sur la Conservation de l'Aigle de Bonelli, to Agropolis, Montpellier "28-29 January 2010 Di Vittorio M & Sarà M. 2001. Raptors on Sicily. Report 2000. Abstract book of 4th Eurasian Congress on raptors, pp. 56 Di Vittorio M, Seminara S e Campobello D. 2000. *Aquila di Bonelli, Hieraetus fasciatus, Status e biologia riproduttiva in Sicilia*. Riv. Ital. Orn. 70 (2): 129- 137

**Breeding long-term trend:** LIPU unpublished data Gustin M, Brambilla M & Celada C. 2009. Valutazione dello stato di conservazione dell'avifauna italiana. Specie in Allegato I della Direttiva Uccelli. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Lega Italiana Protezione Uccelli (LIPU) Di Vittorio M. 2010. Suitable habitats of the Bonelli's Eagle *Aquila fasciata* in Sicily". Colloque International sur la Conservation de l'Aigle de Bonelli, to Agropolis, Montpellier "28-29 January 2010 Di Vittorio M & Sarà M. 2001. Raptors on Sicily. Report 2000. Abstract book of 4th Eurasian Congress on raptors, pp. 56 Di Vittorio M, Seminara S e Campobello D. 2000. *Aquila di Bonelli, Hieraetus fasciatus, Status e biologia riproduttiva in Sicilia*. Riv. Ital. Orn. 70 (2): 129- 137 Brichetti P & Fracasso G. 2013. *Oritologia italiana*. Vol. 1/3: Pandionidae- Falconidae. Oasi Alberto Perdisa, Bologna

### The Former Yugoslav Republic of Macedonia

**Breeding population size:** M. Velevski, unedited data

### Montenegro

**Breeding population size:** Grubač, B (2000): Prilozi za faunu ptica južnih delova Crne Gore. Ciconia 9: 114-121. Novi Sad

### Portugal

**Breeding population size:** 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; Informação Carlos Pacheco, Luís Palma, Nuno Onofre e ICNF

**Breeding short-term trend:** 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; Informação Carlos Pacheco, Luís Palma, Nuno Onofre e ICNF

**Breeding long-term trend:** 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; Informação Carlos Pacheco, Luís Palma, Nuno Onofre e ICNF

### Spain

**Breeding population size:** Demographic information provided by the autonomos regions of Spain (2012). Del Moral, J. C. (Ed.) 2006. *El águila perdicera en España. Población en 2005 y método de censo*. SEO/BirdLife. Madrid. 171pp. [http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/9\\_aguila\\_perdicera\\_2005\\_tcm7-218222.pdf](http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/9_aguila_perdicera_2005_tcm7-218222.pdf)

**Breeding short-term trend:** Demographic information provided by the autonomos regions of Spain (2012). Del Moral, J. C. (Ed.) 2006. *El águila perdicera en España. Población en 2005 y método de censo*. SEO/BirdLife. Madrid. 171pp. [http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/9\\_aguila\\_perdicera\\_2005\\_tcm7-218222.pdf](http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/9_aguila_perdicera_2005_tcm7-218222.pdf) Madroño, A., González, C. & Atienza, J.C. (Eds.). 2004. *Libro Rojo de las Aves de España*. Dirección General para la Biodiversidad-SEO/BirdLife, Madrid. 452pp. [http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/LR\\_completo\\_para\\_web\\_tcm7-164856.pdf](http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/LR_completo_para_web_tcm7-164856.pdf) Martí, R. & Del Moral, J.C. (Eds.). 2003. *Atlas de las Aves Reproductoras de España*. Dirección General de Conservación de la Naturaleza-SEO/BirdLife, Madrid. 733pp. [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) Ontiveros, D. (2010). Águila perdicera - Aguila fasciata. En: Enciclopedia Virtual de los Vertebrados Españoles. Salvador, A., Bautista, L.M. Eds.). Museo Nacional de Ciencias Naturales, Madrid. <http://www.vertebradosibericos.org>

**Breeding long-term trend:** Demographic information provided by the autonomos regions of Spain (2012). Del Moral, J. C. (Ed.) 2006. *El águila perdicera en España. Población en 2005 y método de censo*. SEO/BirdLife. Madrid. 171pp. [http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/9\\_aguila\\_perdicera\\_2005\\_tcm7-218222.pdf](http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/9_aguila_perdicera_2005_tcm7-218222.pdf) Madroño, A., González, C. & Atienza, J.C. (Eds.). 2004. *Libro Rojo de las Aves de España*. Dirección General para la Biodiversidad-SEO/BirdLife, Madrid. 452pp. [http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/LR\\_completo\\_para\\_web\\_tcm7-164856.pdf](http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/LR_completo_para_web_tcm7-164856.pdf) Martí, R. & Del Moral, J.C. (Eds.). 2003. *Atlas de las Aves Reproductoras de España*. Dirección General de Conservación de la Naturaleza-SEO/BirdLife, Madrid. 733pp. [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) Ontiveros, D. (2010). Águila perdicera - Aguila fasciata. En: Enciclopedia Virtual de los Vertebrados Españoles. Salvador, A., Bautista, L.M. Eds.). Museo Nacional de Ciencias Naturales, Madrid. <http://www.vertebradosibericos.org>

### Turkey

**Breeding population size:** Emin Yoğurtcuoğlu, Cenk Durmuşkahya and Ömer döndüren personal communication. Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no:12 [www.kusbanks.org](http://www.kusbanks.org)) Kirwan G.M., Boyla K. A., Castell P., Demirci B., Özén M., Welch H., Marlow T., 2008, Birds of Turkey. Londra, Christopher Helm, 978-1-4081-0475-

**Breeding short-term trend:** Doğa Derneği, Eken G., Bozdoğan M., İsfendiyaroğlu S., Kılıç D.T., Lise Y. (2006) Key Biodiversity Areas of Turkey (Türkiye'nin Önemli Doğa Alanları) Doğa Derneği, Ankara, KILIÇ, T., EKEN, G. 2004, Türkiye'nin Önemli Kuş Alanları Güncellemesi, Doğa Derneği. Ankara.

**Breeding long-term trend:** Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no: 12)

## Bibliography

- Ferguson-Lees, J. and Christie, D.A. 2001. *Raptors of the world*. Christopher Helm, London.
- Hagemeijer, W.J.M. & Blair, M.J. 1997. *The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance*. T & A D Poyser, London.
- Orta, J., Kirwan, G.M., Christie, D.A. & Boesman, P. 2013. Bonelli's Eagle (*Aquila fasciata*). In: del Hoyo, J., Elliott, A., Sargatal, J., Christie, D.A. & de Juana, E. (eds.) 2013. *Handbook of the Birds of the World Alive*. Lynx Edicions, Barcelona. (retrieved from <http://www.hbw.com/node/53165> on 21 January 2015).
- Rollan, A.; Real, J.; Bosch, R.; Tinto, A.; Hernndez-Matias, A. 2010. Modelling the risk of collision with power lines in Bonelli's Eagle *Hieraetus fasciatus* and its conservation implication. *Bird Conservation International* 20(3): 279-294.
- Shirihai, H., Yosef, R., Alon, D., Kirwan, G. M. and Spaar, R. 2000. *Raptor migration in Israel and the Middle East: a summary of 30 years of field research*. International Birding and Research Center in Eilat, Eilat, Israel.
- Tucker, G.M. and Heath, M.F. 1994. *Birds in Europe: their conservation status*. BirdLife Conservation Series no. 3, BirdLife International, Cambridge.