

## ***Clanga pomarina* (Lesser Spotted 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).

*Clanga pomarina* (Lesser Spotted 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	0	<1	2002-2012		?				-	70-90	1980-2012	poor	
Armenia	20-40	<1	2002-2012	medium	?				?				
Azerbaijan	20-100	<1	1996-2000	poor	?				?				
Belarus	3,200-3,800	19	2000-2012	good	0	0	2001-2013	medium	0	0	1980-2012	medium	
Bosnia & HG	2-5	<1	2010-2014	poor	?				?				
Bulgaria	460-520	3	2005-2012	medium	+	40-100	2000-2012	medium	+	100-200	1980-2012	medium	
Croatia	60-70	<1	2010	poor	0	0	2003-2010	poor	?				
Czech Rep.	0	<1	2001-2012	good	?				?				
Estonia	600-700	3	2008-2012	good	0	0-10	2001-2012	good	0	0-10	1980-2012	good	
France	0-1	<1	2008-2012	good	-		2003-2012	good					
Georgia	50-75	<1	2005-2012	medium	0	0	2000-2012	medium	-	12-50	1980-2012	medium	
Germany	110-117	1	2005-2009	good	-	14-22	1998-2009	good	0	0	1985-2009	medium	
Greece	70-100	<1	2002-2012	medium	-	5-30	2001-2012	poor	-	4-40	1987-2009	medium	
Hungary	27-40	<1	2007-2011	good	-	10-15	2000-2011	medium	-	70-75	1990-2012	medium	
Latvia	3,700	20	2009	good	-	10	2001-2012	good	+	147-363	1994-2009	poor	
Lithuania	1,931-2,869	12	2008-2012	good	0	0	2001-2012	good	-	17-24	1980-2012	good	
FYRO Macedonia	5-15	<1	2001-2012	poor	0	0	2002-2012	medium	-	10-50	1980-2012	poor	
Moldova	2-5	<1	2000-2010	medium	F	0	2000-2010	medium	-	10-20	1980-2010	medium	
Poland	2,300-2,700	13	2012	medium	0	0	2007-2012	good	+	135-190	1985-2012	medium	
Romania	1,700-3,900	14	2005-2007	medium	?				?				
Russia	1,000-1,300	6	2000-2012	medium	+	5-30	2000-2012	medium	?				
Serbia	15-21	<1	2008-2012	medium	-	10-29	2000-2012	medium	-	≥30	1980-2012	medium	
Slovakia	600-800	4	2012	medium	-	1-10	2000-2012	medium	0	0	1980-2012	medium	
Slovenia	0-1	<1	2002-2012	medium	-	50-100	2001-2012	medium	-	50-100	1980-2012	medium	
Turkey	50-200	1	2013	medium	-	0-19	2000-2012	poor	-	0-19	1990-2013	medium	
Ukraine	500-1,000	4	2000	medium	F	10-20	2001-2012	medium	+	10-20	1980-2012	medium	
<b>EU27</b>	<b>11,500-15,400</b>	<b>70</b>			<b>Decreasing</b>								
<b>Europe</b>	<b>16,400-22,100</b>	<b>100</b>			<b>Stable</b>								

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<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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## *Clanga pomarina* (Lesser Spotted Eagle)

### Sources

#### Albania

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

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

#### Armenia

**Breeding population size:** Aghababyan et al. 2008. Towards distribution and population size of Lesser spotted Eagle in Armenia; Balyan L., Ghasabyan M and Margaryan N., The Role of IBAs in Raptor Conservation in Armenia, International Conference "The Birds of Prey and Owls of Caucasus", 26-29 Oct 2011, Tbilisi, Abastumani, Georgia

#### Azerbaijan

**Breeding population size:** BirdLife International 2004

#### Belarus

**Breeding population size:** Dombrovski V.Ch., Ivanovski V.V. New data on numbers and distribution of birds of prey breeding in Belarus. //Acta Zoologica Lithuania. - 2005. - V.15, No3. - P.218-227 Dombrovski V.Ch. Results of the Monitoring of Eagle numbers in Belarus. //Raptors Conservation. - 2013. - No27. - P. 92-101

**Breeding short-term trend:** Dombrovski V.Ch., Ivanovski V.V. New data on numbers and distribution of birds of prey breeding in Belarus. //Acta Zoologica Lithuania. - 2005. - V.15, No3. - P.218-227 Dombrovski V.Ch. Results of the Monitoring of Eagle numbers in Belarus. //Raptors Conservation. - 2013. - No27. - P. 92-101

**Breeding long-term trend:** Nikiforov M.E., Kozulin A.V., eds. Belarussian birds at the beginning of XXI century: status, numbers, distribution. - 1997. - Minsk. - 187 p. Dombrovski V.Ch., Ivanovski V.V. New data on numbers and distribution of birds of prey breeding in Belarus. //Acta Zoologica Lithuania. - 2005. - V.15, No3. - P.218-227 Dombrovski V.Ch. Results of the Monitoring of Eagle numbers in Belarus. //Raptors Conservation. - 2013. - No27. - P. 92-101

#### Bosnia and Herzegovina

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

#### Bulgaria

**Breeding population size:** Demerdzhiev, D., S. Stoychev, A. Grozdanov, B. Tonchev, E. Stoynov, I. Mitev 2007. Lesser Spotted Eagle *Aquila pomarina*. - In: Iankov, P. (ed.) 2007. Atlas of the Breeding Birds in Bulgaria. - BSPB, Conservation series, Book 10, Sofia. Golemansky V. (ed.) 2011. Red Data Book of Bulgaria. Vol. 2, Animals. [http://e-codb.bas.bg/rdb/en/vol2/BSPB\\_Bird\\_Database](http://e-codb.bas.bg/rdb/en/vol2/BSPB_Bird_Database)

**Breeding short-term trend:** Demerdzhiev, D., S. Stoychev, A. Grozdanov, B. Tonchev, E. Stoynov, I. Mitev 2007. Lesser Spotted Eagle *Aquila pomarina*. - In: Iankov, P. (ed.) 2007. Atlas of the Breeding Birds in Bulgaria. - BSPB, Conservation series, Book 10, Sofia. Golemansky V. (ed.) 2011. Red Data Book of Bulgaria. Vol. 2, Animals. [http://e-codb.bas.bg/rdb/en/vol2/BSPB\\_Bird\\_Database](http://e-codb.bas.bg/rdb/en/vol2/BSPB_Bird_Database)

**Breeding long-term trend:** Demerdzhiev, D., S. Stoychev, A. Grozdanov, B. Tonchev, E. Stoynov, I. Mitev 2007. Lesser Spotted Eagle *Aquila pomarina*. - In: Iankov, P. (ed.) 2007. Atlas of the Breeding Birds in Bulgaria. - BSPB, Conservation series, Book 10, Sofia. Golemansky V. (ed.) 2011. Red Data Book of Bulgaria. Vol. 2, Animals. [http://e-codb.bas.bg/rdb/en/vol2/BSPB\\_Bird\\_Database](http://e-codb.bas.bg/rdb/en/vol2/BSPB_Bird_Database) Nankinov, D. 1985. Lesser Spotted Eagle (*Aquila pomarina*, Brehm, 1831) – In: Red Data Book of Bulgaria, Vol. 2, S. BAS, 183 pp. Simeonov, S., T. Michev, D. Nankinov 1990. Fauna of Bulgaria, Vol. 20, Aves, Part I, S., BAS. Baumgart, W. 1996. Die Bestandssituation des Schreiadlers *Aquila pomarina* und Probleme ihrer Ermittlung in Bulgarien. In: B.-U. Meyburg and R. D. Chancellor (Eds). Eagle studies WWGBP. Berlin, London and Paris: 327 - 336. Kouzmanov, G. 1996. L'Aigle pomarin *Aquila pomarina* en Bulgarie. In: B.-U. Meyburg and R. D. Chancellor (Eds). Eagle studies WWGBP. Berlin, London and Paris: 319 – 326. Iankov, P., Tz. Petrov, T. Michev and L. Profirov. 1996. Status of the Spotted Eagle (*Aquila clanga*) and the Lesser Spotted Eagle (*Aquila pomarina*) in the Mediterranean. Biology and conservation of Mediterranean raptors, 1994. – Monografia 4. Proceedings of the VI Congress on Biology and Conservation of Mediterranean Raptors, Palma de Mallorca, 22 – 25 September 1994.

#### Croatia

**Breeding population size:** Tutiš, V., Kralj, J., Radović, D., Čiković, 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., Čiković, 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., Čiković, D. (2003): Red Data Book of Birds od Croatia. MNPPP., Zagreb.

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

#### Czech Republic

**Breeding population size:** STASTNY K., BEJCEK V. & HUDEC K. 2006: Atlas hnízdního rozšíření ptaku v České republice. Aventinum Praha

#### 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)

#### France

**Breeding population size:** Michelat D. 2010-2011 L'Aigle pomarin *Aquila pomarina* a niché en Franche-Comté de 2003 à 2010., 93 : 23-34

**Breeding short-term trend:** Pas de référence bibliographique disponible

## *Clanga pomarina* (Lesser Spotted Eagle)

### France

**Breeding long-term trend:** Species first bred in 2003, was confirmed in 2004 and bred more or less regularly until 2011 (one pair in Franche-Comté). No population increase since that year. On the contrary in 2012 the number of adult birds had decreased from 3 (1 breeding pair in Franche-Comté, 1 adult male in Burgundy) to 1 (1 of the adults, the male, in Franche-Comté).

### Georgia

**Breeding population size:** Abuladze, A. 2013. Birds of Prey of Georgia (Materials towards a Fauna of Georgia Issue VI). Tbilisi, Printing House "Lasha Khvichia". Tbilisi: 218 pp. (in English). Galvez, R.A., Gavashelishvili, L., Javakhishvili, Z. 2005. Raptors and Owls of Georgia (Field guide). Tbilisi, GCCW & Buneba Print Publishing. Tbilisi: 128 pp. (in English & in Georgian).

**Breeding short-term trend:** Abuladze, A. 2013. Birds of Prey of Georgia (Materials towards a Fauna of Georgia Issue VI). Tbilisi, Printing House "Lasha Khvichia". Tbilisi: 218 pp. (in English). Galvez, R.A., Gavashelishvili, L., Javakhishvili, Z. 2005. Raptors and Owls of Georgia (Field guide). Tbilisi, GCCW & Buneba Print Publishing. Tbilisi: 128 pp. (in English & in Georgian).

**Breeding long-term trend:** Abuladze, A. 2013. Birds of Prey of Georgia (Materials towards a Fauna of Georgia Issue VI). Tbilisi, Printing House "Lasha Khvichia". Tbilisi: 218 pp. (in English). Galvez, R.A., Gavashelishvili, L., Javakhishvili, Z. 2005. Raptors and Owls of Georgia (Field guide). Tbilisi, GCCW & Buneba Print Publishing. Tbilisi: 128 pp. (in English & in Georgian).

### 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 seltener Brutvögel

**Breeding long-term trend:** Dachverband Deutscher Avifaunisten e.V.

### Greece

**Breeding population size:** Alivizatos, C. & Handrinos, G., 2009. Lesser Spotted Eagle. In: Legakis, A. & P. Maragou (eds.). The Greek Red Data Book. Hellenic Zoological Society. Portolou, D., Bourdakis, S., Vlachos, C., Kastritis, T., and Dimalexis, T. (eds.) 2009. Important Bird Areas of Greece: Priority sites for conservation. Hellenic Ornithological Society. Athens. Dimalexis, T., Bousbouras, D., Kastritis, T., Manolopoulos, A. & Saravia, V. (eds.) 2009. Evaluation of 69 Important Bird Areas as Special Protection Areas. Hellenic Ministry for the Environment, Physical Planning and Public Works, Athens. Hellenic Ornithological Society database. Ruiz C. and Pomarede L. 2012. Raptor Monitoring in the National Park of Dadia-Lefkimi-Soufli Forest. Technical Report 2012. WWF Greece, Athens.

**Breeding short-term trend:** Alivizatos, C. & Handrinos, G., 2009. Booted Eagle. In: Legakis, A. & P. Maragou (eds.). The Greek Red Data Book. Hellenic Zoological Society.

**Breeding long-term trend:** Hallmann, B. 1989. Status and distribution of the Aquila in Greece. *Biologia Gallo-hellenica*, Vol. 15, pp. 171-176. Alivizatos, C. & Handrinos, G., 2009. Lesser Spotted Eagle. In: Legakis, A. & P. Maragou (eds.). The Greek Red Data Book. Hellenic Zoological Society.

### Hungary

**Breeding population size:** Pongrácz, Á., Szegedi, Zs., Kováts, L., Szinai, P. és Bank, L. (2012): Békászó sas állományadatok - 2010 / Lesser Spotted Eagle population data 2010 (In Hungarian with English summary.) *Heliaca* 8: 46-47. Breeding bird (MME RTM) database. National Park Directorate & databases.

**Breeding short-term trend:** Pongrácz, Á., Szegedi, Zs., Kováts, L., Szinai, P. és Bank, L. (2012): Békászó sas állományadatok - 2010 / Lesser Spotted Eagle population data 2010 (In Hungarian with English summary.) *Heliaca* 8: 46-47. Breeding bird (MME RTM) database. National Park Directorate & databases.

**Breeding long-term trend:** Pongrácz, Á., Szegedi, Zs., Kováts, L., Szinai, P. és Bank, L. (2012): Békászó sas állományadatok - 2010 / Lesser Spotted Eagle population data 2010 (In Hungarian with English summary.) *Heliaca* 8: 46-47. 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. National Park Directorate & databases.

### Latvia

**Breeding population size:** Calculation based on the data from Bergmanis U. 2012. Maza ergla Aquila pomarina un klinsu ergla Aquila chrysaetos monitorings Latvija 2012. gada. Latvijas valsts meži.

**Breeding short-term trend:** Bergmanis U. 2009. Maza ergla Aquila pomarina un monitorings Latvija 2009. gada. Laudona: Teicu dabas rezervata administracija. Bergmanis U. 2012. Lauku attīstības plāna 2007 – 2013 pasākumu ietekme uz mazā ērgļa Aquila pomarina barošanās biotopiem monitoringa parauglaukumos.

**Breeding long-term trend:** Strazds M., Priednieks J., Vaverins G. 1994. Latvijas putnu skaits. – Putni daba, 4: 3–18. Bergmanis U. 2009. Maza ergla Aquila pomarina un monitorings Latvija 2009. gada. Laudona: Teicu dabas rezervata administracija. Bergmanis U. 2012. Lauku attīstības plāna 2007 – 2013 pasākumu ietekme uz mazā ērgļa Aquila pomarina barošanās biotopiem monitoringa parauglaukumos. Bergmanis U. 2012. Maza ergla Aquila pomarina un klinsu ergla Aquila chrysaetos monitorings Latvija 2012. gada. Latvijas valsts meži.

### Lithuania

**Breeding population size:** Mischenko A., Väli Ü., Treinys R., Bergmanis U., Domashevski S., Ivanovski V. Lesser Spotted Eagle Aquila pomarina C.L.Brehm, 1831. In: Galushin V.M., Belik V.P., Melnikov V.N., Bragin E.A., Numerov A.D. (eds). Birds of Russia and surrounding regions: Falconiformes, in press.

**Breeding short-term trend:** Rimgaudas Treinys, rimga.t@gmail.com

**Breeding long-term trend:** Rimgaudas Treinys, rimga.t@gmail.com

### The Former Yugoslav Republic of Macedonia

**Breeding population size:** M. Veleviski and B. Grubac, unpublished data

**Breeding short-term trend:** M. Veleviski and B. Grubac, unpublished data

**Breeding long-term trend:** M. Veleviski and B. Grubac, unpublished data

### Moldova

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

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



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### Moldova

**Breeding long-term trend:** The Atlas of the Breeding Birds of Republic of Moldova. 2010. 100p. Аверин Ю. В., Ганя И.М., Успенский Г. Птицы Молдавии, том 2, Кишинев, 1971, 2p Burfield I., Bommel van F., Birds in Europe. Population estimates, trends and conservation status. BirdLife International. Oxford, 2004. 374p. Zubcov, N.; Munteanu, A.; Crudu, V.; Bogdea, L.; Sochircă, N. On the state of rare and endangered diurnal birds of prey in Moldova. Buletinul Academiei de Științe a Moldovei. Științele vieții. 2014, nr. 1(323), 78-84.

### Poland

**Breeding population size:** Mirski P., Cenian Z., Lontkowski J., Stój M., Wójciak J., Zawadzka D. 2013 (msc). Krajowy program ochrony orlika krzykliwego. Projekt. Komitet Ochrony Orłów, Olsztyn.

**Breeding short-term trend:** MPD: Cenian Z., Chodkiewicz T. 2012. Monitoring Ptaków Drapieżnych. In: Podsumowanie sezonu lęgowego Monitoringu Ptaków Polski w 2012 r. OTOP, MiIZ, KOO, SOS: 79-88 (source: [http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty\\_faza4/RaportMPP4\\_etap1\\_zad2%264\\_wiosna2012.pdf](http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty_faza4/RaportMPP4_etap1_zad2%264_wiosna2012.pdf))

**Breeding long-term trend:** Brewka B., Keller M., Mirowski I., Rodziewicz M., Wójciak J. 1991 Polska Grupa Badawcza Orlików Krzykliwego i Grubodziobego. Raport nr 1. Not. Om. 32:167-171.

### Romania

**Breeding population size:** National Raptor Census 2005-2007 National Raptor Census 2013 "Milvus Group" Bird and Nature Protection Association database, unpublished data Romanian Ornithological Society database, unpublished data

### Russia

**Breeding population size:** Belik V.P., Vali U., Babkin I.G. Lesser Spotted Eagle in Northern Caucasus. – Research and conservation of the Greater and Lesser Spotted Eagles in Northern Eurasia. Materials 5th conference of Raptors in Northern Eurasia. Ivanovo: 47-69 (in Russian). Grishanov G.V. 2010. Lesser Spotted Eagle. - Dedkov V.P., Grishanov G.I. (eds.) Red Data Book of Kaliningrad Region. Kaliningrad: 47 (in Russian). Mischenko A.L. Lesser Spotted Eagle. – Red Data Book of Novgorod Region. In press. Mischenko, expert opinion. Ilykh M.P. 2008. Distribution, number and ecology of Lesser Spotted Eagle in Northern Caucasus. – Research and conservation of the Greater and Lesser Spotted Eagles in Northern Eurasia. Materials 5th conference of Raptors in Northern Eurasia. Ivanovo: 103-117 (in Russian).

**Breeding short-term trend:** Melnikov V.N., Kostin A.B., Mischenko A.L., Pchelintsev V.G. 2009. Modern condition of rare predatory birds in Non-Chernozem Centre. - Rare bird species of Non-Chernozem Centre of Russia. Proc. of IVth Conference. Moscow: 56-76 (in Russian). Krumenacker T. 2012. Der Durchzug von Schreiadler *Aquila pomarina*, Wespenbussard *Pernis apivorus*, Weißstorch *Ciconia ciconia* und Rosapelikan *Pelecanus onocrotalus* über Nordisrael – eine Bilanz aus 30 Jahren. – *Limicola*, 6, Heft 3: 161-237.

**Breeding long-term trend:** Krumenacker T. 2012. Der Durchzug von Schreiadler *Aquila pomarina*, Wespenbussard *Pernis apivorus*, Weißstorch *Ciconia ciconia* und Rosapelikan *Pelecanus onocrotalus* über Nordisrael – eine Bilanz aus 30 Jahren. – *Limicola*, 6, Heft 3: 161-237. Mischenko A.L. 2001. Lesser Spotted Eagle. - Pavlov D.S., Flint V.E. (eds.). Red Data Book of Russian Federation. Moscow: 437-438 (in Russian). Kostin A.B., Egorova N.A. 1997. The Lesser Spotted Eagle in the south of Kaluga region. – Abstracts of the first meeting of the European Ornithological Union. Bologna, Italy: 36.

### 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

**Breeding population size:** Danko Štefan, Darolová Alžbeta, Krištín Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002. Jozef Chavko: Súhrnná správa o výsledkoch monitoringu hniezdenia vybraných populácií dravých vtákov realizovaného členmi OZ Ochrana dravcov na Slovensku v rokoch 2000 až 2011. Časopis BUTEO, ročníky 1/1986 až 13/2003 (vydávala RPS)

**Breeding short-term trend:** Danko Štefan, Darolová Alžbeta, Krištín Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002. Jozef Chavko: Súhrnná správa o výsledkoch monitoringu hniezdenia vybraných populácií dravých vtákov realizovaného členmi OZ Ochrana dravcov na Slovensku v rokoch 2000 až 2011. Časopis BUTEO, ročníky 1/1986 až 13/2003 (vydávala RPS)

**Breeding long-term trend:** Danko Štefan, Darolová Alžbeta, Krištín Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002. Jozef Chavko: Súhrnná správa o výsledkoch monitoringu hniezdenia vybraných populácií dravých vtákov realizovaného členmi OZ Ochrana dravcov na Slovensku v rokoch 2000 až 2011. Časopis BUTEO, ročníky 1/1986 až 13/2003 (vydávala RPS)

### Slovenia

**Breeding population size:** Denac, K., T. Mihelič, L. Božič, P. Kmecl, T. Jančar, J. Figelj & B. Rubinič (2011): Strokovni predlog za revizijo posebnih območij varstva (SPA) z uporabo najnovejših kriterijev za določitev mednarodno pomembnih območij za ptice (IBA). Končno poročilo (dopolnjena verzija). Naročnik: Ministrstvo za okolje in prostor. DOPPS – BirdLife, Ljubljana.

**Breeding short-term trend:** Denac, K., L. Božič, T. Mihelič, D. Denac, P. Kmecl, J. Figelj & D. Bordjan (2013): Monitoring populacij izbranih vrst ptic - popisi gnezdičk 2012 in 2013. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS-BirdLife Slovenia, Ljubljana. [http://www.natura2000.gov.si/uploads/tx\\_library/Koncno\\_porocilo\\_monitoring\\_2012-2013\\_1.pdf](http://www.natura2000.gov.si/uploads/tx_library/Koncno_porocilo_monitoring_2012-2013_1.pdf)

**Breeding long-term trend:** Denac, K., L. Božič, T. Mihelič, D. Denac, P. Kmecl, J. Figelj & D. Bordjan (2013): Monitoring populacij izbranih vrst ptic - popisi gnezdičk 2012 in 2013. Poročilo. Naročnik: Ministrstvo za kmetijstvo in okolje. DOPPS-BirdLife Slovenia, Ljubljana. [http://www.natura2000.gov.si/uploads/tx\\_library/Koncno\\_porocilo\\_monitoring\\_2012-2013\\_1.pdf](http://www.natura2000.gov.si/uploads/tx_library/Koncno_porocilo_monitoring_2012-2013_1.pdf)

### Turkey

**Breeding population size:** Murat Bozdoğan, Soner Bekir, Kerem Ali Boyla personal communication. [www.kusbank.org](http://www.kusbank.org) Kirwan G.M., Boyla K. A., Castell P., Demirci B., Özen M., Welch H., Marlow T., 2008, Birds of Turkey. Londra, Christopher Helm, 978-1-4081-0475-

**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)



## *Clanga pomarina* (Lesser Spotted Eagle)

### Ukraine

**Breeding population size:** 1. Tucker G.M., Heath M.F. Birds in Europe: their conservation status. - Cambridge. U.K. Bird Life Conservation Series № 3. 1994. 600 p. 2. Hagemajjer W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poyser. - London. 1997. 903 p. 3. Heath M.F., Evans M.I. Important birds areas in Europe. Priority sites for conservation. // Southern Europe. BirdLife International. - Cambridge. Vol.2., 2000. P. 691-724. 4. European birds populations; Estimates and trends Compiled by M. Heath, C. Borggreve, N. Peet, W. Hagemajjer/ BirdLife International/ EBCC. 2000. Cambridge, UK: BirdLife Conservation Series N10, 160 p. 5. Gorban I, Flade M. The importance of the Upper Pripyat (Ukraine) for the protection of birds. The ecology and conservation of floodplains and lowland mires in the Polesya Region. Minsk. 2000. p. 103-110.

**Breeding short-term trend:** 1. Tucker G.M., Heath M.F. Birds in Europe: their conservation status. - Cambridge. U.K. Bird Life Conservation Series № 3. 1994. 600 p. 2. Hagemajjer W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poyser. - London. 1997. 903 p. 3. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 4. Горбань І. Оцінка чисельності гніздових птахів України. Вісник Львівського університету. Серія біологічна. Випуск 34. 2003. с. 147 – 158. 5. Ветров В. В., Гаврилюк М. Н., Домашевский С. В., Милобог Ю. В. Современное состояние популяции малого подорлика, *Aquila pomarina* (Falconiformes, Aves), в Украинских Карпатах // Вестник зоологии. – 2009. – Т. 43, №5. – С. 457–464.

**Breeding long-term trend:** 1. Tucker G.M., Heath M.F. Birds in Europe: their conservation status. - Cambridge. U.K. Bird Life Conservation Series № 3. 1994. 600 p. 2. Hagemajjer W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poyser. - London. 1997. 903 p. 3. Горбань І. Грищенко В. Ветров В. Костін С. Пілюга В. Про чисельність хижих птахів в Україні . «Екологічні аспекти охорони птахів ». Матеріали VII наради орнітологів Західної України. м. Івано - Франківськ , 4-7 лютого 1999 р. Львів . 1999. с. 32-33. 4. Heath M.F., Evans M.I. Important birds areas in Europe. Priority sites for conservation. // Southern Europe. BirdLife International. - Cambridge. Vol.2., 2000. P. 691-724. 5. Ветров В. В., Гаврилюк М. Н., Домашевский С. В., Милобог Ю. В. Современное состояние популяции малого подорлика, *Aquila pomarina* (Falconiformes, Aves), в Украинских Карпатах // Вестник зоологии. – 2009. – Т. 43, №5. – С. 457–464.

## Bibliography

- Barov, B. & Derhé, M. (2010). Review of the implementation of species action plans of threatened birds in the European Union (2004-2010).
- Ferguson-Lees, J.; Christie, D. A. 2001. Raptors of the world. Christopher Helm, London.
- Meyburg, B.-H., Haraszthy, L., Strazds, H. & Schäffer, N. (1997). European Union Species Action Plan for Lesser Spotted Eagle (*Aquila pomarina*).
- Meyburg, B.U., Boesman, P. & Marks, J.S. (2014). Lesser Spotted Eagle (*Clanga pomarina*). In: del Hoyo, J., Elliott, A., Sargatal, J., Christie, D.A. & de Juana, E. (eds.) (2014). Handbook of the Birds of the World Alive. Lynx Edicions, Barcelona. (retrieved from <http://www.hbw.com/node/53154> on 13 March 2015).
- Porter, R.; Aspinall, S. 2010. Birds of the Middle East. Christopher Helm, London.
- Snow, D. W.; Perrins, C. M. 1998. The Birds of the Western Palearctic vol. 1: Non-Passerines. Oxford University Press, Oxford.
- Strix. 2012. Developing and testing the methodology for assessing and mapping the sensitivity of migratory birds to wind energy development. BirdLife International, Cambridge.
- Tucker, G.M. & Heath, M.F. (1994) Birds in Europe: their conservation status. Cambridge, UK: BirdLife International (BirdLife Conservation Series no. 3).