

Agreement on the conservation of bats in Europe

Report on implementation of the agreement in Denmark

2007-2009

A. General Information

Party: Denmark

Date of Report: September 2010

Period covered by report: 2007-2009

Competent Authority: The Danish Forest and Nature Agency

B. Status of Bats within the Territory of the Party

1. Summary details of Resident Species

17 species of bats are recorded in Denmark, 14 as resident.

2. Status and Trends

Table 1 links each species to the Danish reporting on the main results of the surveillance under the Habitatdirective under article 11 for annex II, IV and V species (Annex B) and gives the Danish Red List status of the species observed in Denmark.

Table 1. Status and apparent population trends of the species known in Denmark. VU= vulnerable, LC= Least concern, DD= data deficient, NA= not applicable, OCC = occasional, vagrant or marginal species .Wind, P. & Pihl, S. (eds.): The Danish Red List. - The National Environmental Research Institute, Aarhus University [2004]-. <http://redlist.dmu.dk> (updated April 2010), H.J. Baagøe & T.S.Jensen: Dansk Pattedyratlas, Gyldendal (2007), Sjøgaard, B. & Asferg, T., 2007. - Faglig rapport fra DMU nr. 635

Species	Report on the main results of the surveillance under the Habitatdirective	Distribution/status
<i>Barbastella barbastellus</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-barbastella-barbastellus.xml&conv=rem_24#	Not common. VU
<i>Myotis dasycneme</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-dasycneme.xml&conv=rem_24#	Rare. VU
<i>Myotis bechsteinii</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-dasycneme.xml&conv=rem_24# http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-bechsteini.xml&conv=rem_24#	Only observed on Bornholm. DD
<i>Myotis brandtii</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-brandtii.xml&conv=rem_24# http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-brandtii.xml&conv=rem_24#	Not common except on Bornholm. VU

<i>Myotis mystacinus</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-mystacinus.xml&conv=rem_24#	Only on Bornholm – common there. VU
<i>Myotis myotis</i>		OCC
<i>Myotis nattereri</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-nattereri.xml&conv=rem_24#	VU
<i>Myotis daubentonii</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-daubentonii.xml&conv=rem_24#	Common. LC
<i>Nyctalus noctula</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-nyctalus-noctula.xml&conv=rem_24#	Common. LC
<i>Nyctalus leisleri</i>		Only known from one location. OCC
<i>Eptesicus nilssonii</i>		A few recorded in eastern most of Zee- land. OCC
<i>Eptesicus serotinus</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-epptesicus-serotinus.xml&conv=rem_24#	Common. LC
<i>Vespertilio murinus</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-vespertilio-murinus.xml&conv=rem_24#	Common on Zee- land. LC
<i>Plecotus auritus</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-plecotus-auritus.xml&conv=rem_24#	Common. LC
<i>Pipistrellus pipistrellus</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-pipistrellus-pipistrellus.xml&conv=rem_24#	Common in Jutland. LC
<i>Pipistrellus nathusii</i>	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-pipistrellus-nathusii.xml&conv=rem_24#	Common. LC

Pipistrellus pygmaeus http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-pipistrellus-nathusii.xml&conv=rem_24# Common.
http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-pipistrellus-pipistrellus.xml&conv=rem_24# LC
http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-pipistrellus-pygmaeus.xml&conv=rem_24#

3. Habitats and roost sites

Table 2. Summer habitat of species resident in Denmark. Sjøgaard, B. & Asferg, T., 2007. - Faglig rapport fra DMU nr. 635

Species	Hollow trees etc.	Buildings etc.	Underground
<i>Barbastella barbastellus</i>	X	XX	-
<i>Myotis dasycneme</i>	X	XX	-
<i>Myotis bechsteinii</i>	XX	-	-
<i>Myotis brandtii</i>	X	XX	-
<i>Myotis mystacinus</i>	X	XX	-
<i>Myotis nattereri</i>	XX	XX	-
<i>Myotis daubentonii</i>	XX	-	-
<i>Nyctalus noctula</i>	XX	-	-
<i>Eptesicus serotinus</i>	-	XX	-
<i>Vespertilio murinus</i>	-	XX	-
<i>Plecotus auritus</i>	XX	XX	-
<i>Pipistrellus pipistrellus</i>	XX	XX	-
<i>Pipistrellus nathusii</i>	XX	X	-
<i>Pipistrellus pygmaeus</i>	XX	XX	-

Table 3. Winter habitat of species resident in Denmark. Sjøgaard, B. & Asferg, T., 2007. - Faglig rapport fra DMU nr. 635

Species	Hollow trees etc.	Buildings etc.	Underground
<i>Barbastella barbastellus</i>	X	X	XX
<i>Myotis dasycneme</i>	-	-	XX
<i>Myotis bechsteinii</i>	XX	-	X
<i>Myotis brandtii</i>	-	X	XX
<i>Myotis mystacinus</i>	-	X	XX
<i>Myotis nattereri</i>	X	X	XX
<i>Myotis daubentonii</i>	X	-	XX
<i>Nyctalus noctula</i>	XX	-	-
<i>Eptesicus serotinus</i>	-	XX	-
<i>Vespertilio murinus</i>	-	XX	-
<i>Plecotus auritus</i>	X	XX	X
<i>Pipistrellus pipistrellus</i>	XX	XX	-
<i>Pipistrellus nathusii</i>	XX	X	-
<i>Pipistrellus pygmaeus</i>	XX	XX	-

4. Threats

The main threat to bats is habitat-destruction, especially intensive forest management with monocultures and low age diversity, which diminish the availability of foraging habitats, roosts, nursing sites and hibernating sites. Human disturbance at hibernating sites is a potential threat too.

Table 4. Threats to resident species in Denmark.
http://biodiversity.eionet.europa.eu/article17/index_html/speciesreport/?group=TWfTbWFscw%3D%3D&country=DK®ion

Species	Threats
<i>Nyctalus noctula</i>	General forestry management
<i>Eptesicus serotinus</i>	Removal of hedges and copses, urbanised areas, human habitation
<i>Vespertilio murinus</i>	Other pollution or human impacts/activities
<i>Plecotus auritus</i>	General forestry management
<i>Barbastella barbastellus</i>	General forestry management
<i>Pipistrellus pipistrellus</i>	General forestry management
<i>Pipistrellus pygmaeus</i>	General forestry management
<i>Pipistrellus nathusii</i>	General forestry management
<i>Myotis nattereri</i>	General forestry management
<i>Myotis bechsteini</i>	General forestry management
<i>Myotis brandti</i>	General forestry management
<i>Myotis mystacinus</i>	General forestry management
<i>Myotis daubentonii</i>	General forestry management
<i>Myotis dasycneme</i>	General forestry management, storage of materials, air pollution

5. Data collection

The source of data is <http://www.naturdata.dk/> and the Zoological Museum, The National History Museum of Denmark. Universitetsparken 15, DK-2100 København Ø

C. Measures Taken to Implement Article III of the Agreement

6. Legal measures taken to prevent the deliberate capture, keeping or killing bats, including details of enforcement actions used to support such measures.

All bats in Denmark have been protected by law since 1931 (Game Act of 1931). Since the Game Act of 1967 and the Hunting and Game Act of 1993, all mammals and birds without an open season are fully protected and must not be hunted or killed. This has been further strengthened by a statutory order no. 901 of 11th July 2007. Furthermore it is forbidden to ring or mark bats without a license.

The habitats of bats are protected by the Nature Act of 1992. This act prohibits altering state of natural lakes of more than 100 m² and of watercourses. Moors, bogs, marshes, swamps, coastal meadows, humid permanent grasslands and uncultivated, dry meadows are covered by the same prohibition when the habitat types more than 2,500 m² either separately, jointly or in connection with the before mentioned lakes.

In amendment to the Danish Forest Act revision of 1989 it was made statutory that not only forestry production should be taken into consideration but also nature conservation and protection of environmental values (good and multiple-use forest management). Furthermore provisions for preservation of deciduous forest edges, oak coppices, lakes, streams, marshes, moors, salt meadows and foreshores of the forest reserves were established. The financial provision for this strategy is the allocation of a total of about DKK 10 millions annually during the next 50 years.

6.1 Legal measures taken and enforcement actions used to support the prohibition on deliberate disturbance of species listed in Annex IV of the EU Habitats Directive

(92/43/EEC), particularly during the period of breeding, rearing, hibernation and migration and the deterioration or destruction of breeding sites or resting places.

The prohibition on deliberate disturbance of bats and protection of their breeding sites or resting places from deterioration and destruction is made statutory by the act of adjustments of the Nature Act, the Hunting and Game Act and other Acts.

7. Sites identified and protected which are important to the conservation of bats

Area: Number of area in Natura 2000 database, **code:** Code of the species in Natura 2000 database

Site	area	code	Species
Løgstør Bredning, Vejlerne og Bulbjerg	16	1318	Myotis dasycneme
Lille Vildmose, Tofte Skov og Høstemark Skov	18	1318	Myotis dasycneme
Rold Skov, Lindenberg Ådal og Madum Sø	20	1318	Myotis dasycneme
Hanstholmreservatet, Nors Sø og Vandet Sø	24	1318	Myotis dasycneme
Lovns Bredning, Hjarbæk Fjord, Skals, Simested og Nørre Ådal samt Skravad Bæk	30	1318	Myotis dasycneme
Hald Ege, Stanghede og Dollerup Bakker	35	1318	Myotis dasycneme
Mønsted og Daugbjerg Kalkgruber og Mønsted Ådal	39	1318	Myotis dasycneme
Hjelm Hede, Flyndersø og Stubbergård Sø	41	1318	Myotis dasycneme
Gudenå og Gjern Bakker	45	1318	Myotis dasycneme
Salten Å, Salten Langsø, Mossø og søer syd for Salten Langsø og dele af Gudenå	48	1318	Myotis dasycneme
Sepstrup Sande, Vrads Sande, Velling Skov og Palsgård Skov	49	1318	Myotis dasycneme
Skjern Å	61	1318	Myotis dasycneme
Store Vandskel, Rørbæk Sø og Tinnets Krat	65	1318	Myotis dasycneme
Odense Å med Hågerup Å, Sallinge Å og Lindved Å	98	1318	Myotis dasycneme
Havet og kysten mellem Præstø Fjord og Grønsund	147	1308	Barbastella barbastellus
Klinteskov	150	1308	Barbastella barbastellus
Smålandsfarvandet nord for Lolland, Guldborg Sund, Bøtø Nor og Hyllekrog-Rødsand	152	1308, 1318	Barbastella barbastellus, Myotis dasycneme
Maribosøerne	156	1308	Barbastella barbastellus
Almindingen, Ølene og Paradisbakkerne	162	1318	Myotis dasycneme
Silkeborgskovene	181	1318	Myotis dasycneme
Vallø Dyrehave	198	1308	Barbastella barbastellus
Brabrand Sø med omgivelser	233	1318	Myotis dasycneme

8. Considerations given to habitats which are important to bats

Designated in the Habitat Directive as mentioned as above.

9. Activities carried out to promote the awareness of the importance of the conservation of bats

In 1998 the Forest and Nature Agency, the Zoological Museum of Copenhagen and the Animal Welfare Society of Denmark published a free booklet. The booklet is printed in 10.000 ex.

It informs about the biology of bats and advice how to handle bats living in your house if they cause problems. The purpose of the booklet is to help bats and people in the best way.

Additionally the Nature and Forest Agency has in dialog with the NGO 'Skovforeningen' published 'Good practice for forests with bats' offering guidelines for bat friendly forestry production.

Advice on how to deal with problems related to bats in buildings has been made available for the public on the Nature and Forest Agency's website.

Every year numerous bat excursions are arranged and make by this the public aware of the bats and their problems.

In September 2009 a special excursion for foresters was arranged. The issues were certification, sustainable forestry and annex 4 species. The special needs for bats and how it is possible to ensure/improve their habitats were dealt with as a special issue.

Information about bats is also disseminated through articles in magazines, newspapers, radio and television programmes.

In 2007 two important publications regarding Danish bats and their biology and conservation were published:

Søgaard, B. & Asferg, T. (red.) 2007: Håndbog om arter på habitatdirektivets bilag IV – til brug i

administration og planlægning. Danmarks Miljøundersøgelser, Aarhus Universitet. – Faglig rapport

fra DMU nr. 635. 226 s. <http://www.dmu.dk/Pub/FR635.pdf>

[H. J. Baagøe & T. S. Jensen 2007: Dansk Pattedyratlas](#)

In 2009 a report on bats in two of the most important underground habitats were published: Baagøe, H. J. & H. J. Degn, 2009: Flagermusene i Daughbjerg og Mønsted Kalkgruber. <http://www.skovognatur.dk/NR/rdonlyres/9FCE7783-D254-4F51-9575-645B928B8425/0/Flagermus2009.pdf>

10. Responsible bodies, in accordance with Article III.5 of the Agreement, nominated for the provision of advice on bat conservation and management

The Forest and Nature Agency.

11. Additional action undertaken to safeguard populations of bats

None

12. Recent ongoing programmes (including research) relating to the conservation and management of bats

NOVANA is a governmental programme for monitoring the status of selected species and habitats. Bats are included in the programme.

13. Considerations being given to the potential effects of pesticides on bats, and efforts to replace timber treatment chemicals which are highly toxic to bats

None

D. Functioning of the Agreement

Co-operation with other Range States

None at the moment.