Agreement on the conservation of bats in Europe
Report on implementation of the agreement in Denmark 2010-2013

A. General Information

Party: Denmark
Date of Report: May 2015
Period covered by report: 2010-2013
Competent Authority: The Danish 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 Habitat Directive 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), Søgaard, B. & Asferg, T., 2007. - Faglig rapport fra DMU nr. 635

Species	Report on the main results of the surveillance under the Habitat directive	Distribution/status
Barbastella barbastellus	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-barbastella-barbastellus.xml&conv=rem_24#	Rare, only found in southern Zeeland and nearby islands. VU
Myotis dasycneme	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-dasycneme.xml&conv=rem_24#	Rare, except in middle Jutland. VU
Myotis bechsteinii	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-bechsteini.xml&conv=rem_24#	Only observed on Bornholm. CN or EN
Myotis brandtii	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
Myotis mystacinus	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

Myotis myotis		Only one individual found. NA
Myotis nattereri	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-nattereri.xml&conv=rem_24#	Not common except on Bornholm. VU
Myotis daubentonii	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-myotis-daubentonii.xml&conv=rem_24#	Common. LC
Nyctalus noctula	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-nyctalus-noctula.xml&conv=rem_24#	Common, except in northern and western Jutland. LC
Nyctalus leisleri		Only known from few observations. DD
Eptesicus nilssonii		A few recorded in eastern most of Zeeland. NA
Eptesicus serotinus	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-eptesicus-serotinus.xml&conv=rem_24#	Common. LC
Vespertilio murinus	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-vespertilio-murinus.xml&conv=rem_24#	Not common, except in north-eastern Zeeland. LC
Plecotus auritus	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-plecotus-auritus.xml&conv=rem_24#	Common, except in western and northern Jutland. LC
Pipistrellus pipistrellus	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-pipistrellus-pipistrellus.xml&conv=rem_24#	Common in southern Jutland. LC
Pipistrellus nathusii	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-pipistrellus-nathusii.xml&conv=rem_24#	Common, except in western and northern Jutland. LC
Pipistrellus pygmaeus	http://cdr.eionet.europa.eu/Converters/convertDocument?file=/dk/eu/art17/envrlq_ka/species-pipistrellus-pipistrellus.xml&conv=rem_24#	Common, except western and northern Jutland and Bornholm. LC

3. Habitats and roost sites

Table 2. Summer habitat of species resident in Denmark. Søgaard, B. & Asferg, T., 2007. - Faglig rapport fra DMU nr. 635. Assessment according to the Nature Agency, Danish Ministry of the Environment - Forvaltningsplan for flagermus (2013) given in parenthesis.

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

Table 3. Winter habitat of species resident in Denmark. Søgaard, B. & Asferg, T., 2007. - Faglig rapport fra DMU nr. 635. Assesment according to the Nature Agency, Danish Ministry of the Environment - Forvaltningsplan for flagermus (2013) given in parenthesis.

Species	Hollow trees etc.	Buildings etc.	Underground
Barbastella barbastellus	X	X	XX
Myotis dasycneme	-	-	XX
Myotis bechsteinii	XX	-	X
Myotis brandtii	-	X	XX
Myotis mystacinus	-	X	XX
Myotis nattereri	-	-	XX
Myotis daubentonii	X	-	XX
Nyctalus noctula	XX	-	-
Eptesicus serotinus	-	XX	-
Vespertilio murinus	-	XX	-
Plecotus auritus	X	XX	X
Pipistrellus pipistrellus	-	XX	-
Pipistrellus nathusii	XX	X	-
Pipistrellus pygmaeus	X	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&region and Forvaltningsplan for flagermus (2013), Nature Agency, Danish Ministry of the Environment.

Species	Threats
Nyctalus noctula	General forest management, wind mills
Eptesicus serotinus	Removal of hedges and copses, urbanised areas, human habitation, summer and winter habitat loss or deterioration, windmills.
Vespertilio murinus	Other pollution or human impacts/activities, summer and winter habitat loss or deterioration, windmills.
Plecotus auritus	General forest management, summer and winter habitat loss or deterioration, linear habitat gaps or removal, windmills.
Barbastella barbastellus	General forest management, summer and winter habitat loss or deterioration.
Pipistrellus pipistrellus	General forest management, summer habitat loss or deterioration, windmills.
Pipistrellus pygmaeus	General forest management, summer habitat loss or deterioration, windmills.
Pipistrellus nathusii	General forest management, summer habitat loss or deterioration, windmills.
Myotis nattereri	General forest management, summer and winter habitat loss or deterioration, linear habitat gaps or removal.
Myotis bechsteini	General forest management, winter habitat loss or deterioration, linear habitat gaps or removal.
Myotis brandti	General forest management, summer and winter habitat loss or deterioration, linear habitat gaps or removal.
Myotis mystacinus	General forest management, summer and winter habitat loss or deterioration, linear habitat gaps or removal.
Myotis daubentonii	General forest management, water pollution, winter habitat loss or deterioration, linear habitat gaps or removal, windmills, repairs of old bridges.
Myotis dasycneme	General forest management, storage of materials, air and water pollution, summer and winter habitat loss or deterioration, linear habitat gaps or removal.

5. Data collection

The source of data is http://www.naturdata.dk/, the national management plan for bats "Forvaltningsplan for flagermus (2013)", Nature Agency, Danish Ministry of the Environment, 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 may 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 cover 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, Lindenborg 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
Tjele Langsø og Vinge Møllebæk	33	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
Stubbe Sø	44	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 Tinnet Krat	65	1318	Myotis dasycneme
Hostrup Sø, Assenholm Mose og Felsted Vestermark	84	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
Klinteskoven	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 Paradis-bakkerne	162	1318, 1323	Myotis dasycneme, Myotis bechsteinii
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

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

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

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

In 2013 the national administration plan for bats was published by the Nature Agency under the Danish Ministry of the Environment: J. D Møller, H. J. Baagøe and H. J. Degn, 2013:Forvaltningsplan for flagermus.
It is available from the Nature Agency's homepage, including a short resume in english:
http://naturstyrelsen.dk/publikationer/2013/maj/forvaltningsplan-for-flagermus/

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

The Nature Agency, Danish Ministry of the Environment.

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.

Private owners of forest can apply for economical support for bat-friendly forestry. Grants can also be given for planting of new forest and for establishment of hedgerows.

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.