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CONVENTION ON THE CONSERVATION OF EUROPEAN WILDLIFE  
AND NATURAL HABITATS

**Standing Committee**

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**BIENNIAL REPORT (2009-2010)**

**- NORWAY -**

*Memorandum drawn up by  
the Directorate of Democratic Governance  
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## BIENNIAL REPORT 2009 -2010

### NORWAY

#### IMPLEMENTATION OF THE CONVENTION ON THE CONSERVATION OF EUROPEAN WILDLIFE AND NATURAL HABITATS

*Submitted by the Norwegian Directorate for Nature Management, P.O. Box 5672 Sluppen, NO-7485 Trondheim, Norway.*

Norway signed the Convention on 19<sup>th</sup> of September 1979, it was ratified on 27<sup>th</sup> of May 1986 and it entered into force on 1<sup>st</sup> of September 1986.

#### I. GENERAL COMMENTS ON THE IMPLEMENTATION OF THE CONVENTION

##### *Norwegian reservations*

No new reservations or exceptions have been made by Norway during the reporting period.

1. Norway ratified the Bern Convention on 27 May 1986, with a reservation with respect to the prohibition listed in Appendix IV on the use of semi-automatic weapons capable of holding more than two rounds of ammunitions for hunting of the following species included in Appendix III: Red Deer *Cervus elaphus*, Roe Deer *Capreolus capreolus* and Moose *Alces alces*.
2. This reservation applies furthermore to the use of semi-automatic weapons used for sealing and whaling, conducted in accordance with Norwegian laws and regulations.
3. Following the decision of the Standing Committee to include several Cetacean species in Appendix II of the Convention in December 1987, Norway made reservations regarding six of the species. The reservations were withdrawn for three species in 1989: Pilot Whale *Globicephala melaena*, Bottlenosed Whale *Hyperoodon rostratus* and Sowerby's Beaked Whale *Mesoplodon bidens*. The reservation is maintained for the following three species: Killer Whale *Orcinus orca*, White-sided Dolphin *Lagenorhynchus acutus* and White-beaked Dolphin *Lagenorhynchus albirostris*.
4. Norway made a reservation in April 1996 regarding the reclassification of Narwal *Monodon monoceros* and Fin Whale *Balaenoptera physalus* from Appendix III to II. Norway's view on these two species is thus for the time being based upon their former listing in Appendix III of the Convention.
5. In April 1991 Norway made a partial reservation with respect to Bryophytes listed in the Appendix concerning species protection. This applies to all Appendix I species occurring in Norway. To our present knowledge these are the following eight species: *Scapania massalongi*, *Atractylocarpus alpinus*, *Buxbaumia viridis*, *Cynodontium suecicum*, *Dicranum viride*, *Drepanocladus vernicosus*, *Meesia longiseta* and *Orthotrichum rogeri*. However, the reservation does not cover obligations contained in other Articles of the Convention, such as the obligations following from Article 4, § 1: "Each Contracting Party shall take appropriate and necessary legislative and administrative measures to ensure the conservation of the habitats of wild flora and fauna species, especially those specified in the Appendices I and II, and the conservation of endangered natural habitats." In other words, Norway did not object to ensuring habitats of the Bryophyte species included in Appendix I, but did not intend to adopt legislative species protection measures.

However, all the mentioned moss species were included in the list of protected species by Royal Decree in 2005.

6. Following the decisions of the Standing Committee in December 1996 Norway made an objection in March 1997 regarding the inclusion of *Rheum rhaponticum* in Appendix I of the Convention. This species is now regarded as introduced in Norway and from Norway's point of view inclusion in Appendix I of this species is in conflict with Article 11-2b of the Convention, which call for the strict control of non-native species. However, the objection does not imply any change in the present management practice concerning this species.

Norway also made a statement concerning the interpretation regarding the inclusion of marine species in the Appendices after the Standing Committee meeting in December 1996: Concerning the adopted list of marine species in Appendices II and III, Norway understands that these listings only apply to the geographical area of the Mediterranean Sea, as it is reflected in Article 1.1 of the Convention for the protection of the Marine Environment and Coastal region of the Mediterranean adopted in Barcelona on 16<sup>th</sup> February 1976 and amended on 15<sup>th</sup> of June 1995.

7. Following the decisions of the Standing Committee in December 1997 Norway made an objection in February 1998 regarding the inclusion of *Dracocephalum ruyschiana* in Appendix I of the Convention. Since this species was considered rather common in its range in Norway a strict protection of this species under the obligations given by the Convention was not considered relevant since Appendix I species primarily should be regarded as endangered or vulnerable.

However, Norway supports the idea of listing populations with unfavourable conservation status in parts of the distribution area.

However, *Dracocephalus ruyschiana* was included in the list of protected species by Royal Decree in 2005.

### ***Geographical coverage***

At the time of ratification Norway made a declaration to the Secretary General of the Council of Europe stating that the Convention shall apply to the continental territory of the Kingdom of Norway. With respect to the territories in Svalbard and Jan Mayen, the Government of Norway will promote national policies for the conservation of wild flora and fauna and natural habitats in accordance with the provisions of the Convention, with a reservation in respect of the conservation and management of the population of Arctic Fox *Alopex lagopus* in Svalbard.

An in-depth study on the implementation of the Convention in Norway and the other Nordic countries was presented to the 19<sup>th</sup> Meeting of the Standing Committee, cf "Implementation of the Bern Convention. Nordic Countries: Norway." Report to the Council of Europe by Cyrille de Klemm, T-PVS (99) 20 rev. of 22 November 1999, and also published in "Nature and Environment", no 103, February 2000.

### ***The new nature diversity act of 2009***

The new act on nature diversity was approved by the Parliament on 19<sup>th</sup> June 2009 (no. 100). This act replace or partly replace a number of other acts (e.g. the Nature Conservation, the Wildlife Act, the Act on Freshwater fish and Salmonids). The main principles of the new act are to protect biological, geological and landscape diversity and ecological processes through conservation and sustainable use (section 1). It places a general duty of care to all sectors (section 6). Other key concepts are 'environmental principles' such as the precautionary principle, the ecosystem approach and the polluter pays principle (section 9,10, 11). The new act broadens the scope of protection of specific natural habitats, so called 'selected habitat types' (section 52). Identified and appointed habitat types will be subject to regulations. A similar regime is introduced for species, so called 'priority species and their natural habitats' (section 23). For invasive alien species a new regulation is still under production.

General information on the new act:

<http://www.regjeringen.no/en/dep/md/press-centre/Press-releases/2009/new-nature-diversity-act.html?id=553630>

Summary of proposition to the Parliament:  
[http://www.regjeringen.no/pages/2265991/PDFS/OTP200820090052000EN\\_PDFS.pdf](http://www.regjeringen.no/pages/2265991/PDFS/OTP200820090052000EN_PDFS.pdf)

The Nature Diversity Act in English:

<http://www.regjeringen.no/en/doc/Laws/Acts/nature-diversity-act.html?id=570549>

As a result of the new act and section 23 on 'priority species' 8 species were approved with separate regulations for each species by Royal Decree on 5<sup>th</sup> of May 2011. These are deemed to be the first in a series of expected priority species. The appointed species were: *Anser erythropus*, *Limosa limosa*, *Cicindela maritima*, *Osmoderma eremita*, *Scolitantides orion*, *Dracocephalum ruyschiana*, *Herminium monorchis* and *Cephalanthera rubra*.

### **Action plans**

The Directorate for Nature Management has by 2011 nominated 120 species for development and implementation of action plans. In the period 2003-2010 action plans for the following species have been published: *Alopex lagopus* (see DN-report 2-3003 and later updates), *Anser erythropus* (see DN-report 2-2009 and 4-2011 in English), *Parnassius mnemosyne* (see DN-report 3-2010), *Rana lessonae* (see DN-report 2-2006), *Triturus cristatus* (see DN-report 1-2008), *Crex crex* (see DN-report 3-2008), *Margaritifera margaritifera* (see DN-report 3-2006), *Bubo bubo* (see DN-report 1-2009), *Emberiza hortulana* (see DN-report 5-2009), *Cucujus cinnaberinus* (see DN-report 4-2009), *Cephalanthera rubra* (see DN-report 1-2006) and *Zostera noltei* (see DN-report 1-2010). New action plans in preparation will include both species and species groups (eg bats).

## **II. EXCEPTIONS CONCERNING ARTICLES 5, 6, 7 AND 8**

### **1. STRICTLY PROTECTED FLORA SPECIES<sup>1)</sup> – APPENDIX I**

In Norway the following Appendix I species occur: *Aster sibiricus* (protected by Royal Decree 2 October 1981), *Braya purpurascens* and *Oxytropis deflexa* ssp. *norvegica* (both protected by Royal Decree 25 January 1983), *Cypripedium calceolus* and *Platanthera obtusata* ssp. *oligantha* (both protected by Decree issued by the Directorate for Nature Management 1 June 1989).

A proposal to protect 52 species (43 vascular plants and 9 invertebrates) from the Directorate for Nature Management was approved by Royal Decree on December 21<sup>st</sup> 2001. This new decree includes all plant and invertebrate species on Appendix I and II not previously protected in Norway.

The new protection includes the following Appendix I species: *Botrychium simplex*, *Botrychium matricariifolium*, *Botrychium multifidum*, *Luronium natans*, *Silene furcata* ssp. *angustiflora*, *Trisetum subalpestre*, *Najas flexilis*, *Cypripedium calceolus*, *Platanthera obtusata* ssp. *oligantha*, *Papaver lapponicum*, *Polemonium boreale* and *Saxifraga hirculus*. The older decrees on *Aster sibiricus*, *Braya purpurascens* and *Oxytropis deflexa* ssp. *norvegica* is still in force. *Liparis loeselii* is considered extinct in Norway.

A proposal by the Directorate for Nature Management presented in June 2004 included species protection of *Dracocephalum ruyschiana*, in addition to eight Appendix I species of moss that occur in Norway: *Scapania massalongi*, *Hamatocaulis vernicosus*, *Buxbaumia viridis*, *Atractylocarpus alpinus*, *Cynodontium suecicum*, *Dicranum viride*, *Meesia longiseta* and *Orthotrichum rogeri*. All these species were subsequently protected by Royal Decree on July 13<sup>th</sup> 2005.

As a result of the acceptance of the biodiversity act (see paragraph I) in 2009 and its section 23 on 'priority species' 8 species were approved with separate regulations for each species by Royal Decree on 5<sup>th</sup> of May 2011. These are deemed to be the first in a series of expected priority species. The appointed flora species were: *Dracocephalum ruyschiana*, *Herminium monorchis* and *Cephalanthera rubra*.

<sup>1)</sup>All species names according to the taxonomy used in the Appendices of the Convention.

### ***Regulations and exceptions***

The Directorate for nature management can as the management authority for the applicable acts and regulations give conditional exemptions for collection of protected species. As part of the ongoing mapping of new localities the directorate has encouraged amateurs and professionals alike to register for permits to collect in protected species.

The collections must be registered with scientific institutions and limitations to the number of samples that can be collected will be stated in the permit. Limitations aim to avoid threatening the existence of local populations. On average the directorate issues annually 1-5 exemptions from the decree, normally with a time limit of one to three years. The exemptions are mostly issued to scientific institutions or consultants working on mapping programmes. Frequently the exemptions do not result in collections of the protected species.

## **2. STRICTLY PROTECTED FAUNA SPECIES – APPENDIX II**

Specific regulations have been adopted for the removal of individuals of wildlife species causing damage to crops, livestock, forests, water or other forms of property, or in the interest of public health and safety. Generally, other solutions shall within reasonable limits have been pursued in order to avoid damage, before permit is given to remove protected species. The Directorate for Nature Management has issued a Decree dated 1 September 1997, which states that permits may be issued for different species on three different management levels. These being municipality level, county level and national level.

### ***Nationwide protection of Appendix II species***

A proposal on species protection in Norway adopted by Royal Decree on December 21<sup>st</sup> 2001 include the following invertebrate Appendix II species: *Leucorrhinia albifrons*, *Leucorrhinia caudalis*, *Leucorrhinia pectoralis*, *Parnassius apollo*, *Parnassius mnemosyne*, *Coenonympha hero*, *Cucujus cinnaberinus* and *Dytiscus latissimus*.

A proposal by the Directorate for Nature Management presented in June 2004 includes species protection of *Graphoderus bilineatus*, which was subsequently protected by Royal Decree on July 13<sup>th</sup> 2005.

After the rediscovery of *Osmoderma eremita* in 2008, the species was given nationwide protection by the Directorate for Nature Management on August 22<sup>nd</sup> 2008.

As a result of the biodiversity act (see paragraph I) in 2009 and its section 23 on 'priority species' 8 species were approved with separate regulations for each species by Royal Decree on 5<sup>th</sup> of May 2011. These are deemed to be the first in a series of expected priority species. The appointed fauna species were: *Anser erythropus*, *Limosa limosa*, *Cicindela maritima*, *Osmoderma eremita* and *Scolitantides orion*.

### ***Regulations and exemptions***

***Exemptions from the general protection of wildlife is possible under a differentiated management regime according to species and level of potential damage. Generally applications for exemptions for more numerous species is handled by the municipal level (1), while the County Governor handles more sensitive species (2). The Directorate for nature management as the national wildlife management authority handles the most sensitive species (3).***

### 1. Municipality based Wildlife Boards

The following Appendix II species may be removed if permitted by the local Wildlife Board (one in each municipality) if they are damaging wooden constructions, crops etc.: Green Woodpecker *Picus viridis*, Grey-headed Woodpecker *Picus canus*, Black Woodpecker *Dryocopus martius*, Great Spotted Woodpecker *Dendrocopos major*, Greenfinch *Carduelis chloris* and Yellowhammer *Emberiza citrinella*.

### 2. County Governor

The County Governor may, when the following Appendix II species cause damage, issue permits for removal: Otter *Lutra lutra*, bats Microchiroptera, Mute Swan *Cygnus olor*, Pink-footed Goose *Anser brachyrhynchus*, Common Tern *Sterna hirundo*, Arctic Tern *Sterna paradisaea*, Golden Eagle *Aquila chrysaetos*, Goshawk *Accipiter gentilis* and Sparrowhawk *Accipiter nisus*. However, the Directorate has warned that bats are protected and should not be disturbed. To facilitate any issues related to bats a system of advisors and assistance is funded by the directorate. No known incidences related to bats have been registered in the reporting period.

### 3. The Directorate for Nature Management

The Directorate for Nature Management may, under particular circumstances, issue permits for removal of protected wildlife, either when wildlife causes damage or for scientific purposes. Such permits have in the biennial period been issued for the following Appendix II species: Brown Bear *Ursus arctos*, Wolverine *Gulo gulo* and Wolf *Canis lupus* (see table 1)

The Directorate for nature management issued on 18<sup>th</sup> June 2004 (no 913) a regulation for handling of dead specimen of wildlife (ie those found dead). This regulation outlines national regulations for taxidermists and it ia lists for which species should be tagged and for which species it is necessary to apply for a licence to keep. The last requirement applies for 47 species (incl. bats, carnivores and birds) and is made mandatory from 2004. Of these 47 species it is necessary to register ownership and tag 8 species back in time, ie old specimens.

#### ***Large carnivore management***

Management of large carnivores in Norway is regulated by the Nature Diversity Act of 2009 and the Wildlife Act of 1981. The Directorate for Nature Management issued in 2005 a regulation on the management of predators, including regulations of bear, wolverine, wolf, lynx and golden eagle. In this regulation the Norwegian populations goals for bear, wolf, lynx, wolverine and golden eagle is defined, which are the management authorities, and giving guidelines under which specific circumstances killing of carnivores can be allowed.

Approximately 200 persons are engaged on a seasonal basis to ia map and monitor the national occurrence of carnivores, and to report on relevant incidences involving carnivores in relation to incidences with husbandry. Every incidence of dead or injured husbandry is analysed, whether these are killed by a large carnivore or by other causes (natural mortality, accidents etc) and registered in a database. Also an overview of dead carnivores segregated on different causes of mortality (natural, licensed or quota hunted, accident, illegal or other) is available from 1997 until now in this database. E.g. through the use of GIS-technology the public may enter the database via a map of the country and sample information from different levels (municipal, regional or national) as well as information on single cases, see 'rovviltportalen' below. On the webpage of the national statistical agency (Statistics Norway) statistical information on the number of dead carnivores can be found (both in English and Norwegian), cf [www.ssb.no/rovdyravg](http://www.ssb.no/rovdyravg) or [www.ssb.no/english](http://www.ssb.no/english) This statistics is based on different calculations and includes also animals found dead (natural causes).

In 2007 the Directorate for Nature Management opened a website called 'Rovviltportalen' ('the large carnivore gate') ([www.rovviltportalen.no](http://www.rovviltportalen.no)). The text is only in Norwegian. This website aim to simplify access to information on the issue by the general public and others. The site ia publishes interactive maps of sites with records of the four large carnivores and maps on husbandry carcasses found. The information

also covers Golden Eagle. The site gives information on national policy, on population monitoring, gives oversight of meetings on the issue, media-clippings, specific information on each species concerning its biology and hunting practices. The site gives overviews of all licenses issued and the results of these. It is also a site giving information of requirements for hunters, and for registration of hunters, the most recent quotas, it contains access to electronic application for compensation for livestock or semi-domestic reindeer killed by large carnivores, and financial support for preventive measures to avoid killing of husbandry, etc. The site is regarded as a success and is widely used.

***Exceptions for threatened or vulnerable populations of species:***

The Norwegian policy towards the large carnivores is based on the White Paper to the Parliament no 15 (2003-04). The policy was debated again in the Parliament in June 2010, and revised with minor changes compared to the White Paper of 2003-04. For these species reference is also given to "Recommendation no 59 (1997) on the drafting and implementation of Action Plans of wild fauna species", "Recommendation no 74 (1999) on the conservation of large carnivores", "Recommendation no 82 (2000) on urgent measures concerning the implementation of Action Plans for large carnivores in Europe" and 'Recommendation no 115 (2005) on the conservation and management of transboundary populations of large carnivores.' In general, Norway has accepted all the recommendations from the Bern Convention regarding large carnivores.

The number of individuals killed or found dead of the three species of large carnivores on Appendix II are listed in table 1. When it is agreed upon the Directorate for nature management normally issues pending permits (licenses) for these species, or if the population level within each region is reached, the pending permits are issued by a Regional Board for large carnivores which has the authority within the region. The County Governors have the authority to confirm the final permit, when it is deemed necessary. The number of pending permits issued will therefore normally be higher than the number of actual animals felled.

**Brown Bear *Ursus arctos***

For brown bear, see further information under Recommendation no 10 (December 1988) in chapter III below. In 2010 the national population count 166 animals confirmed by DNA-analysis of hair and scat samples collected during the season.

**Wolverine *Gulo gulo***

For wolverine, reference is given to the Norwegian contributions to the "Final Draft Action Plan for the Conservation of Wolverines (*Gulo gulo*) in Europe" under the Bern Convention, cf T-PVS (98) 27 rev., Strasbourg, 21 January 1999 (cf also "Nature and Environment" no 115). In 2010 the national population counted approximately 362 individuals and 66 dens.

**Wolf *Canis lupus***

The population of Wolf is small and endangered in Norway. However, there is a general provision in the Nature Diversity Act for killing large carnivores when there is danger of a direct attack on livestock. Norway has started applying a management regime for wolves that varies according to area. In some parts the wolves will be protected and in other parts sheep and reindeer production is given priority. These management principles are also practised for brown bear and wolverine.

Reference is given to the letter from the Directorate for Nature Management to the Bern Convention of 26 March 1999 on the protection of the Wolf in Norway, i.a describing the agreement between the Swedish Environmental Protection Agency and the Norwegian Directorate for Nature Management of 7 September 1998. Norway has also contributed to the "Final Draft Action Plan for the Conservation of Wolves (*Canis lupus*) in Europe" under the Bern Convention, cf T-PVS (98) 24 rev., Strasbourg, 21 January 1999 (cf also "Nature and Environment" no 113).

The wolf population in Scandinavia is growing. In 2010 the Norwegian population consisted of 33-35 individuals and 3 confirmed breeding. There were 31 confirmed family packs of wolves in Norway and Sweden in 2010; 3 of these family packs were entirely on the Norwegian side of the border.

*Table 1. Exceptions concerning brown bear, wolverine and wolf as reported to the Directorate for Nature Management for the hunting seasons (01.04-31.03) 2000-01, 2001-02, 2002-03, 2003-2004, 2004-2005, 2006-2007, 2007-2008, 2008-2009 and 2009-2010. The numbers also contain specimens killed by road accidents, natural deaths etc.*

Species	No. of ind. felled	Licence hunting	
		Lic. issued	Felled
Brown bear <i>Ursus arctos</i>	7	-	-
2000-2001	3	-	-
2001-02	1	-	-
2002-03	4	-	-
2003-04	1	-	-
2004-05	6	-	-
2005-06	5	6	0
2006-07	12	15	3
2007-08	12	16	2
2008-09	18	18	9
2009-10			

Wolverine <i>Gulo gulo</i>			
2000-01	43	44	31
2001-02	32	50	23
2002-03	34	42	28
2003-04	39	50	23
2004-05	49	60	21
2005-06	58	68	38
2006-07	79	91	40
2007-08	76	94	28
2008-09	90	89	35
2009-10	89	102	35



<i>Wolf Canis lupus</i>			
2000-2001	17	-	-
2001-02	2	-	-
2002-03	5	-	-
2003-04	5	-	-
2004-05	7	-	-
2005-06	4	-	-
2006-07	2	2	1
2007-08	5	4	2
2008-09	5	0	0
2009-10	8	4	2

**Otter *Lutra lutra***

The population of otter is estimated at 25.000-30.000 individuals and the population is still increasing in Norway. It is perceived as a common species along the coast and is also recolonizing inland areas. The rise and spread of the population causes conflicts with the fish farming industry. The increase in the population has also led to an increase of otters drowning in fishing gear or being killed accidentally by cars. Illegal killing of otters is also known to occur. However, the death rate (both illegal and caused by accidents etc) should be perceived as insignificant in relation to the overall population and the demographic development.

**Birds of prey**

The numbers stated here for white-tailed eagle, golden eagle and goshawk for the seasons 2003-04, 2004-05, 2005-06, 2006-07, 2007-08, 2008-09 and 2009-10 are given in table 2. The numbers are mostly birds found dead. The numbers are regarded as being in the lows. No licence for felling in the reporting periods were given for these species. The national populations of white-tailed eagle is estimated at 3000 pairs, for golden eagle at 850-1200 pairs and of goshawk at ca. 2000-2700 pairs.

*Table 2. Numbers of goshawk, golden eagle and white-tailed eagle reported as found dead for the seasons 2003-04, 2004-05, 2005-06, 2006-07, 2007-08, 2008-09 and 2009-10.*

<b>Species</b>	<b>Total number</b>
<i>Goshawk Accipiter gentilis</i>	
2003-04	44
2004-05	27
2005-06	15
2006-07	15
2007-08	9
2008-09	21
2009-10	26
<i>Golden eagle Aquila chrysaetos</i>	
2003-04	4
2004-05	12
2005-06	10
2006-07	14
2007-08	7
2008-09	8
2009-10	11

White-tailed eagle <i>Haliaeetus albicilla</i>	26
2003-04	31
2004-05	43
2005-06	44
2006-07	26
2007-08	32
2008-09	19
2009-10	

### 3. EXCEPTIONS CONCERNING FALCONRY

Falconry is not allowed in Norway, two exceptions from this prohibition were made in the period 2009 to 2010. This was in relation to short visits related to production of a film.

### 4. EXCEPTIONS CONCERNING PROTECTED FAUNA SPECIES (APPENDIX III)

The exploitation of all species originally listed in Appendix III is regulated, with fixed hunting seasons for all of the species. For several species hunting and other forms of exploitation is only allowed in some parts of the country, while the species may be totally protected in other parts. Restrictions on hunting periods and geography are decided by the Directorate for Nature Management and each hunting period now lasts for five years until a new revision. The revised hunting periods are based on hunting statistics as well as scientific advice and public advice. In addition the Directorate may stop hunting of species totally or in geographic regions if the circumstances changes or emergencies occur.

Exceptions from the ordinary hunting season may be accepted in order to avoid damage to crops, livestock or reindeer husbandry. In most cases such exceptions require the prior grant of a permit issued by either the local Wildlife Board in a municipality, the County Governor or the Directorate for Nature Management, cf also above under paragraph 2 (on Appendix II species).

Particularly for lynx *Lynx lynx*, Norway has applied a hunting quota system for each county, to regulate the population and to prevent damage on livestock and reindeer husbandry. The quotas are defined by the Directorate for Nature Management or if the regional population level of lynx is reached a Regional Board for large Carnivores has authority to define the quota within the region. In the season 2008-09 the quota for felling of European Lynx was 119, and 110 were actually felled. For 2009-10 the quota was 149 and 134 were felled. In 2010 the national population of lynx counted 441-470 individuals and 75-80 family groups.

Table 3. Quota hunting concerning lynx for the seasons 2003-04, 2004-05, 2005-06, 2006-07, 2007-08, 2008-09 and 2009-10. The total numbers also contain specimens killed by road accidents, natural deaths etc.

Species	Total number	Quota hunting	
Lynx <i>Lynx lynx</i>		Quota	Felled
	48	50	35
2003-04	56	51	44
2004-05	52	48	40
2005-06	85	74	58
2006-07	104	96	90
2007-08	136	119	110
2008-09	147	149	134
2009-10			

The Atlantic salmon *Salmo salar* is an Appendix III species. As a measure to safeguard threatened strains of this species in particular watercourses, mainly due to impact of the introduced parasite *Gyrodactylus salaris*, Norway has decided to apply treatment with the poisonous agent rotenone. The Norwegian policy towards the use of this agent is to restore ecosystems that stand a risk of becoming destroyed due to introduced species. Rotenone treatment has mainly been applied in watercourses with salmon stocks to eradicate *Gyrodactylus salaris*. Research has shown that there is no negative impact on e.g the populations of the Pearl Mussel *Margaritifera margaritifera*, another Appendix III species, from these rotenone treatments. Some lakes have also been treated with rotenone to try to eradicate the European Minnow *Phoxinus phoxinus* from areas where this species has been introduced.

A Norwegian case study on *Gyrodactylus salaris* was worked out in 2000 and submitted to the Convention on Biological Diversity in May 2001. A trial with an aluminium based solvent has proven less toxic to non-target species and at the same time highly effective against the parasite. It is thus expected to become a more widespread method in the years to come.

### ***Protection of Appendix III species***

On Appendix III Norway holds three species: the freshwater crayfish *Astacus astacus*, the pearl mussel *Margaritifera margaritifera* and the leech *Hirudo medicinalis*. The first two has a long standing protection regime in Norway, while the leech was given a formal and total species protection in Norway by Royal Decree on December 21<sup>st</sup> 2001.

## **5. EXCEPTIONS CONCERNING THE USE OF MEANS OF CAPTURE AND KILLING SPECIFIED IN APPENDIX IV**

The only exception made for means of killing as specified in Appendix IV, is the use of semi-automatic weapons, cf the Norwegian reservation under I.1-2 above. In addition, persons authorised by the Directorate for nature management may use mist nets or other nets, traps and tape recorders to catch birds or other animals for scientific purposes (ringing etc.). These birds or other animals are normally released afterwards, and therefore the use of these methods will not cause local disappearance of or serious disturbance to populations of a species as stated in Article 8. Obligatory training programmes (2 different courses) with exams have to be passed for persons to hold a license for bird trapping and ringing. The same kind of programme is applicable for bat handling and ringing.

## **III. IMPLEMENTATION IN THE PERIOD 2000-2010 OF RESOLUTIONS AND RECOMMENDATIONS OF THE STANDING COMMITTEE**

Resolution no 1 and recommendations no 14, 15 and 16 on habitat conservation: Thematic county nature protection plans

A systematic conservation programme for different types of natural habitats (thematic nature protection plans), based on regional inventories, was initiated in Norway in the beginning of the 1970s. Regional (county) conservation plans for wetlands (especially those important for waterfowl), mires/bogs (primarily selected on botanical and hydrological criteria), broad-leaved forest (selected mainly on botanical criteria) and important seabird colonies were given priority. In 1985 inventories started in order to identify coniferous forests for protection, and elaboration of conservation plans for coniferous forests have been given high priority since 1988, when the recommendations from a national task force on protection of coniferous forest were presented.

In the reporting period work has been carried out to implement a national plan for marine protected areas. This will concern coral reefs and special marine ecosystems, as well as representative sites and

particular sites for flora and fauna (cf the white paper Report to the Storting no 43 (1998-99) on the Protection and Use of the Coastal Environment).

By the end of 2010 the work 70 thematic county nature protection plans were finalized. The Phase I plan for establishment of a network of coniferous nature reserves has been completed, as has phase II (additional coniferous forests). A phase III is currently running (an extension of the forest protection scheme). It includes not only coniferous forests, but also other types of forested areas.

In addition to this a program for new national parks and landscape protection areas are almost completed. When this program is fulfilled it is expected to raise the percentage of Norway under nature conservation protection to between 16 and 17%.

Preparation of a county conservation plan is a time-consuming process, including the following steps:

- Systematic inventories and evaluation of sites based on scientific criteria
- The County Governor collects information on properties, names of landowners and other formalities concerning sites of high conservation priority, and makes preliminary judgements concerning conflicts with other interests
- The County Governor informs landowners, the municipalities and different agencies at the county level about the conservation proposal
- These are given the opportunity to make preliminary comments on the conservation proposals
- The County Governor elaborates a draft conservation plan, which is sent to the Directorate for Nature Management for technical/scientific approval
- The County Governor sends the proposal to landowners, organisations and municipalities at the local level and agencies at the county level for a formal hearing
- Landowners, municipalities and others at the local level give their written comments to the plan
- The County Governor makes his final proposal for a conservation plan
- The Directorate for Nature Management sends the plan to organisations, agencies and ministries at the national level for comments
- The Directorate for Nature Management analyses the comments, finalises the conservation plan, and presents its proposal to the Ministry of Environment
- The Ministry of Environment presents the proposal to the Government, and the Government adopts the conservation plan through a Royal Decree.

Following the legal establishment of protected areas under the Nature Conservation Act, the decision has to be published, the sites have to be marked in the field, the question of possible economic compensation to land owners has to be settled (the land will normally still be owned by private land owners), and management plans may be elaborated if necessary.

The total land area under legal protection increased from 24.557 km<sup>2</sup> (7.58 %) in 2000 to 26.298 km<sup>2</sup> (8.12 %) by 2002, to 47.143 km<sup>2</sup> (14.6%) by the end of 2008 and by the end of 2010 it was 52.021 km<sup>2</sup> (16,1%). Table 4 gives the status for area protection in Norway by the end of 2010. The conservation programme with the intent of a total of 16% terrestrial area under protection (incl freshwater) has thus been achieved. Analysis of the established protection network and new goals for terrestrial and marine protection will further increase the area under protection.

During the reporting period the Directorate for Nature Management has been working with a gap analysis (evaluation) of terrestrial protected areas in Norway (finalized June 2010).

In 2007 the Directorate for Nature Management issued a report from The Norwegian Pilot Project on Emerald Network (cf. final project report from Norway ([T-PVS/Emerald \(2007\) 18](#))). The Pilot Project forms the basis for the second phase, which is the implementation of the Network itself. This is coordinated with the evaluation of protected areas.

*Table 4. Number and area of protected areas in Norway by the end of 2010*

<b>Type</b>	<b>Number</b>	<b>Area km<sup>2</sup></b>	<b>Percentage of mainland</b>
National park	33	29.960	9.3
Nature reserve	2009	5.333	1,7
Landscape protection	196	16.301	5
Other	477	427	0,1
<b>Total</b>	<b>2.715</b>	<b>52.021</b>	<b>16.1</b>

#### ***Other areas***

*In addition to the figures given in Table 2, approximately 2.900km<sup>2</sup> of sea areas are protected (out of ca. 90.000 km<sup>2</sup> inside 12 nautical miles, and two areas (totally covering 63 km<sup>2</sup>) are protected according to the Wildlife Act. Twenty-two areas are protected according to the Svalbard Act (totalling 35.029 km<sup>2</sup>, equalling 65% of its land area). Of marine waters around Svalbard ca. ¾ of the territorial waters out to 12 nautical miles have been protected. A new act on the environment on Svalbard entered into force on 1<sup>st</sup> July 2002, cf. Svalbardmiljøloven.*

*Table 5. Number and area of protected areas in Svalbard by the end of 2010*

<b>Type</b>	<b>Number</b>	<b>Area km<sup>2</sup></b>	<b>Percentage of mainland</b>
National park	7	14.487	23,7
Nature reserve	21	25.314	41,5
Other areas	1	14	0,02
<b>Total</b>	<b>29</b>	<b>39.815</b>	<b>65,3%</b>

### ***Management of protected areas***

The need for an improved overall strategy for management of protected areas in Norway led to the establishment of a committee on protected areas and a report published in 1989. The committee formulated a general strategy for future management of protected areas, and proposed some general criteria for allocation of resources to management actions.

The following general aims for management of protected areas have been adopted:

- Evaluate the needs for ecological management actions in all protected areas
- Develop management plans for those areas where certain actions are considered to be necessary, or eventually only short notes concerning more "stable" areas
- Make management plans realistic (scientifically, economically and with respect to practical implementation)
- Simplify/revise some existing (too ambitious) management plans
- Implement long term ecological management in a representative sample of sites, aimed at maintaining a certain ecological condition

According to the regulations for each protected area (protected under the Nature Conservation Act), a management plan for the area may be developed and adopted by the management authority.

Such a management plan may include three main parts:

1. Plan for ecological management, including
  - action plan for restoring ecological character
  - action plan for maintaining ecological character
  - action plan for enhancing ecological conservation aims
2. Plan for utilisation, including
  - arrangements for public access and information
  - arrangements for special groups of people
  - guidelines for the land owners use of the area
3. Plan for wardening, including
  - agreements on wardening
  - instructions for wardens

As a follow up of this work an action plan for a number of prioritised nature protected sites was published in 1996, cf Report from the Directorate for Nature Management no 4. Further work to revise a handbook for management of nature protected sites was initiated, and a new version of the handbook was published in the year 2000.

In 1998 an initiative was taken by the Ministry of Environment to delegate the management of conserved areas to the municipal level in Norway. During the reporting period all municipalities (450) have been offered the possibility to take over responsibility for the management of protected areas. In principle, this initiative covers all types of protected areas in Norway. In the early phase 16 municipalities with ca. 100 protected areas participated. This has now been replaced by a new programme with participation of 70 municipalities. Municipalities accepting the offer will be trained to cope with the task. An evaluation of this was completed in 2008.

The Norwegian policy regarding management of protected areas and species is stated in the white paper "Report to the Storting no 42 (2000-01): Biological Diversity. Sector Responsibility and Coordination." Furthermore, the actual status of the environment is updated in annual white papers called "The National State of the Environment", e.g Report to the Storting no 24 (2000-2001) and no 26 (2006-2007): The Environmental Policy of the Government and the State of the Environment in Norway.

Furthermore, the Directorate for Nature Management has issued a "National Master Plan for Monitoring of Biological Diversity" (DN Report 1998-1, Trondheim (170 pp; ISBN: 82-7072-289-8)). The Norway/UN-Trondheim Conference in September 1999 had as its main theme "The Ecosystem Approach for Sustainable Use of Biological Diversity".

Based on a framework for monitoring of protected areas outlined in 2006, the Directorate for Nature Management in 2007 and 2008 has been working with guidance on setting and assessing conservation objectives. Conservation objectives are already being included as an important part in all new management plans.

A new act on nature diversity entered into force in 2009 and replaced the Nature Conservation Act when it comes to protection of areas and management of protected areas.

In 2007 the Directorate for Nature Management issued a strategy on funding of actions in protected areas. In 2007 the Ministry of Environment issued a national strategy on alien species, where the need for actions in protected areas is highlighted.

The Norwegian policy regarding management of protected areas and species is stated in the white paper "Report to the Storting no 42 (2000-01): Biological Diversity. Sector Responsibility and Coordination." Furthermore, the actual status of the environment is updated in annual white papers called "The National State of the Environment", e.g Report to the Storting no 24 (2000-2001): The Environmental Policy of the Government and the State of the Environment in Norway.

### ***The Norwegian Nature Inspectorate***

The Norwegian Nature Inspectorate (SNO) is the national ranger organization and the national authority for nature supervision and inspection of the whole country, on both publicly owned and privately owned land. The organisation was set up in 1997, as a consequence of the Nature inspectorate Act passed by The Norwegian Parliament in 1996.

SNO is organized as a specific part of The Directorate of Nature Management, with special legal powers and tasks. It has a head office in Trondheim (25 persons) and a network of 55 local offices (110 persons) across the country. The local offices are divided into 6 sections; National Parks and Protected Areas Section (2), Coastal Areas Section (2), Large Carnivores Section (1) and Nature Interpretation (1).

SNO has a national responsibility for prevention and control of environmental crime, and co-operates closely with the national and local police and other official and private organisations, such as the municipal committees that oversee grazing, hunting and fishing rights on common land, Norwegian Pollution Control Authority, Norwegian Coastguard Service and the Archipelago Service.

SNO is also responsible for overseeing the national parks and protected areas, as well as conservation merits of national importance, such as endangered and vulnerable species and species where Norway has a special responsibility, e.g. the North Atlantic Salmon and the wild reindeer populations in the mountain areas of Southern Norway.

### ***Protection of water courses***

Conservation plans to protect specific watercourses from hydropower development have been approved by the Norwegian Parliament. The fourth conservation plan for the protection of watercourses was adopted in April 1993, resulting in a total of 341 watercourses being protected. To supplement these conservation plans a new supplementary plan was completed in 2005.

### **Resolution no 5 (1998) concerning the rules for the network of areas of special conservation interest (Emerald Network):**

Norway initiated work to implement the Emerald Network in 2004. By 2010 the total number of nationally Protected Areas (PA) evaluated was 197. These cover about 22,500 km<sup>2</sup> (2.250.000 ha) of the land area, (including freshwater), or about 45 % of the total area of national PAs in Norway. They also cover about 1,000 km<sup>2</sup> of marine areas, and about 30 % of the total protected sea area. Since some of the PAs are aligned, or very close to each other, they have been proposed as single Emerald sites (ASCI). The number of ASCIs evaluated by now is thus 93. 36 out of 45 classified habitats have been considered relevant for Norway (cf T-PVS/Emerald (2007) 18). Concerning species 106 out of the 132 are considered relevant for Norway.

### **Resolution no 6 (1998) listing the species requiring specific habitat conservation measures:**

The Norwegian policy is generally based on the white paper "Report to the Storting no 42 (2000-01): Biological Diversity. Sector Responsibility and Coordination." Furthermore, the Ministry of the Environment has initiated a nation-wide project on registration of biodiversity in the municipalities. This project has ended in a countrywide database (naturbasen).

The Parliament in 2000 decided to establish a National Data Bank for Species (Norwegian Biodiversity Information Centre, [www.biodiversity.no](http://www.biodiversity.no)) concentrating primarily on red-listed species. The unit will be in charge of producing updates of the national red list through national expert committees. The first red list from the unit was published in 2006 and the second in 2010. The red list volumes contain both English and Norwegian text. An accompanying volume to the 2010-list describes 'Environmental Conditions and Impacts for Red List Species'.

### **Recommendation no 10 (1988) concerning the protection of the Brown Bear *Ursus arctos*:**

The management of Brown Bear in Norway is generally in compliance with the ideas and proposals contained in this recommendation. A comprehensive plan for management of large carnivores, including the Brown Bear, was adopted by the Parliament in the spring of 2004 and 2011, cf the white paper "Report to the Storting no 15 (2003-04): Large carnivorous in Norwegian wildlife" and Recommendation S. no 174 (2003-04) and a private member's bill no 163 S (2010-11) to the Parliament. Reference is also given to the Norwegian contribution to the "Final Draft Action Plan for Conservation of the Brown Bear (*Ursus arctos*) in Europe" under the Bern Convention, cf T-PVS (98) 23 rev., Strasbourg, 21 January 1999 (cf also "Nature and Environment" no 114).

### **Recommendation no 17 (1989) on the protection of the Wolf *Canis lupus* in Europe:**

The ideas and proposals contained in this recommendation are, with a couple of exceptions, reflected in Norway's protection and management of its endangered Wolf population. The exceptions are the recommendations contained in § 4 and § 6 of the operational part of the recommendation, which are not considered to be relevant for Norwegian conditions. Reference is also given to document T-PVS (99) 49, and white paper "Report to the Storting no 15 (2003-04): Large carnivorous in Norwegian wildlife" and Recommendation S. no 174 (2003-04) and a private member's bill no 163 S (2010-11) to the Parliament for a more in depth review of the Norwegian management of the Norwegian-Swedish Wolf population, as well as further information given under chapter II.2 above.



**Recommendation no 18 (1989) on the protection of indigenous crayfish in Europe:**

The management of crayfish in Norway is fully in compliance with the recommendations adopted by the Standing Committee of the Convention. Everyone who wish to harvest crayfish today, need to have a specific licence.

**Recommendation no 20 (1991) on the protection of the European Lynx *Lynx lynx*:**

The management of European Lynx in Norway is generally in compliance with the recommendations adopted by the Standing Committee of the Convention, cf letter from the Directorate for Nature Management dated 3 May 1996, and white paper "Report to the Storting no 15 (2003-04): Large carnivorous in Norwegian wildlife" and Recommendation S. no 174 (2003-04) and a private member's bill no 163 S (2010-11) to the Parliament on the management of large carnivores, including European Lynx. Reference is also given to the "Nature and Environment" no 112 on this species. See further information on this species under chapter II.4 above.

**Recommendation no 22 (1991) on the conservation of the Pearl Mussel *Margaritifera margaritifera* and other freshwater mussels (Unionidae), cf also Recommendation no 80 (2000) on the implementation of the Action Plan for the conservation of the pearl mussel (*Margaritifera margaritifera*):**

The management of Pearl Mussel in Norway is fully in compliance with the recommendations adopted by the Standing Committee of the Convention, as it is fully protected by the Act relating to Salmon- and Freshwater Fisheries. Following the recommendation no 80 Norway has intensified the efforts to study this species, aiming at increasing the knowledge of its biology and also aiming at developing a management strategy for the species. It is suggested that Norway holds more than 80% of the European population of this species. Norway is also continuing to add calcium to acidified watercourses and lakes, resulting in improved habitats for e.g the pearl mussel. An action plan was published in 2006 (see DN-report 2006-3).

**Recommendation no 48 (1996) on the conservation of European globally threatened birds, cf also Recommendation no 60 (1997) on the implementation of the Action Plans for globally threatened birds in Europe, and Recommendation no 75 (1999) on the implementation of new Action Plans for globally threatened birds in Europe, and Recommendation no 93 (2002) on the further implementation of Action Plans for Globally threatened birds and on other issues of interest for bird conservation in the Convention's range:**

Norway holds breeding populations of two of the species mentioned in the Appendix to Recommendations no 48 and no 60; Lesser White-fronted Goose *Anser erythropus* and Corncrake *Crex crex*. The Directorate for Nature Management, the Norwegian Institute for Nature Research and the Norwegian Ornithological Society (NOF) are responsible for a program that monitors the population development and breeding success of the Fennoscandian population of Lesser White-fronted Geese. A satellite tracking study has also been accomplished in order to reveal the migratory routes, stopover sites on migration and wintering grounds for the species. The project involves several nations, i.e. Azerbaijan, Bulgaria, Finland, Russia, Hungary, Romania, Kazakhstan and Ukraine. See separate action plans published by the Directorate for nature management (DN-report 2008-3 for corncrake and 2009-2 for lesser white-fronted goose).

A monitoring and management project for Corncrakes in Southern Norway is also established. Breeding Corncrakes are localised, and information on the sites is conveyed to local landowners. Mowing of the breeding meadows is recommended postponed.

**Recommendation no 75 specifically asks for National Action Plans for four species listed in the Appendix to the recommendation in coordination with the African-Eurasian Migratory Waterbirds Agreement (AEWA) under the Bonn Convention. One of these species is Steller's Eider *Polysticta stelleri*, which is included in the "Circumpolar Eider Conservation Strategy and Action Plan" under Conservation of Arctic Flora and Fauna (CAFF), issued in June 1997, and partly funded by the Directorate for Nature Management. This Strategy and Action Plan was implemented in the period 2000-02 under CAFF.**

**Recommendation no 51 (1996) on action plans for invertebrate species in the Appendices of the Convention and Recommendation no 52 (1996) on habitat conservation for invertebrate species:**

Increasing knowledge and focus on rare invertebrate species over the last decade has resulted in both new species protection regimes and new protected sites. Different research programmes has been initiated and two examples are:

Under the national programme for mapping and monitoring of biodiversity, the programme INVENT-ART is an example of reinforced nationwide mapping of rare or undiscovered insects. Some publicised results from this project (now in its third phase) can be seen at: <http://www.artsdatabanken.no/Article.aspx?m=264&amid=8986>

The Norwegian Biodiversity Information Center administer a nationwide Species-programme. Over the last two year 450 new species to Norway has been described, of which 100 were new to science. Most of these are invertebrates. Results from ongoing initiatives under this programme can be seen at <http://www.artsdatabanken.no/artArticle.aspx?m=224&amid=6052>

**Recommendation no 53 (1996) on the conservation of European Otter *Lutra lutra*:**

A national monitoring programme and studies on the biology of this species have been performed by the Norwegian Institute for Nature Research. Among the conclusions are that this species is still increasing in Norway and are now re-colonising former areas in the southern and interior parts of the country. The total population is probably now between 20.000 and 30.000 individuals and increasing. (See also information on this species under chapter II.2 above.)

**Recommendation no 57 (1997) on the introduction of organisms belonging to non-native species into the environment and Recommendation no 77 (1999) on the eradication of non-native terrestrial vertebrates:**

The official policy in Norway is fully in compliance with the recommendations adopted by the Standing Committee of the Convention. The 2009 Biodiversity Act has a separate chapter on this issue and a new regulation detailing use of these species will be issued. Of the species listed in the appendix to Recommendation no 77, only the American Mink (*Neovison vison*) is of major concern to Norway, although the Raccoon Dog (*Nyctereutes procyonoides*) might also become a growing problem in the NE part of the country. Both species may be hunted all year around in Norway. Implementation of national action plans against raccon dog (see Norwegian DN-report 2-2008) and mink (see DN-report 5-2011) has started.

**Recommendation no 58 (1997) on the reintroduction of organisms belonging to wild species and on restocking and reinforcing populations of such organisms in the environment:**

A small number of recovery projects have been undertaken, particularly on threatened bird species. Some have been concluded some years ago with positive results, e.g the re-introduction projects in collaboration with Sweden dealing with *Falco peregrinus* (see under chapter II.2 above) and *Bubo bubo*, and in collaboration with Scotland dealing with *Haliaeetus albicilla*. An example of collaborative efforts between Norway and Sweden on mammals has been the re-introduction efforts of Otter *Lutra lutra* into Sweden based on Norwegian animals. This

programme has been ceased due to high levels of mortality at the release sites. In 2010 and 2011 we saw the first attempts to support the wild population of Lesser White-fronted Goose by release of young birds at a staging site.

In 1999 the Directorate for Nature Management (DN) ordered the development of a Status Report and Action Plan on the highly endangered Scandinavian population of Arctic Fox *Alopex lagopus*. During the year 2000 a recovery project to strengthen the population of the Arctic Fox on the Norwegian mainland, involving breeding in captivity, was established. No specimen were caught during 2000, but in 2001 six juvenile Arctic Foxes were caught for this recovery project. An official Action Plan for the Arctic Fox was published in 2003 (cf DN-report 2003-2). In the following years the programme has been perceived as a success and involves several different elements, i.e. breeding, re-introduction, feeding and culling of red fox as a competitor. The species was listed as CR in the national red list of 2010. The population numbers today less than 100 adults in Norway. A breeding facility was established in 2005. More than 200 pups have been bred at this facility, and 160 of these released into the wild. These pups have themselves been breeding in 2010 and 2011. A record number of pups (271) were born in 2011.

**Recommendation no 92 (2002) on sixteen new action plans for most threatened birds on the Convention area:**

The recommendation concerns two species in Norway: Gyr falcon and white-tailed sea eagle. The former species has been under a nationwide programme of monitoring for the last two decades. Norway contributes with eaglets within reintroduction programmes in Scotland and Ireland. The national population of sea eagle now counts above 5000 individuals. The gyr falcon population in Norway is stable and it also forms part of a national monitoring programme.

**Recommendation no 99 (2003) on the European strategy on invasive alien species**

Norway has published a national strategy on IAS, and continues to develop sectoral policies. Norway has been active in the collaboration with Convention activities and inter alia North European countries, cf. [www.nobanis.org](http://www.nobanis.org) The Directorate for nature management has established a team focussing on the issue and commissioned a number of research projects on mapping and eradicating IAS. The national threatened species unit was commissioned a task to produce a method to collect and analyse information on IAS. This task culminated in a 'black list' on IAS published in May 2007, cf. <http://www.artsdatabanken.no/Article.aspx?m=172&amid=2581>

A collaboration project with the directorate has been initiated with the union for horticulturalists in Norway and another project together with the union for zoo-traders in Norway. Both projects aims to disseminate information on the risks with alien species and information on current legislation.

**Recommendation no 103 (2004) on five new action plans for most threatened birds in the Convention's area**

In Norway the recommendation concerns great snipe. This species has been surveyed nationwide and Norway has been leading in the European work in developing an action plan for the species. The Norwegian population is the highest in Western Europe and new breeding sites are still being uncovered. Much scientific studies have been conducted on this species during the last decades.

**Recommendation no 109 (2004) on minimizing adverse effects of wind power generation on wildlife**

Norway supported the proposed guidelines for development of wind power and how environmental issues should be integrated in the planning. The guidelines on national coordination has now been implemented to a larger extent than in the initial phase of wind mill development. Norway has in 2006 accepted an invitation from the Convention to evaluate the process concerning wind mill development on Smøla. A major research programme running in the period 2007-2011 on the conflicts with migratory species has been initiated and concluded in 2011.

**Recommendation no 110 (2004) on minimising adverse effects of above ground electricity transmission facilities (power lines) on birds**

Already in the 1980ies it was conducted studies on the impact of transmission lines on wildlife in general. The knowledge of how these lines influence inter alia bird population is thus quite good. The recommendations from these studies have been made available to the responsible institutions. The recommendation from the Convention and inter alia from the CMS has also been forwarded is continuously implemented on new power lines and when old ones are replaced. A national programme on mitigation was concluded in 2011 and a new programme for concrete mitigation initiated for eagle owl.

**Recommendation no 115 (2005) on the conservation and management of transboundary populations of large carnivores**

In Norway this particularly applies to the common wolf population with Sweden. This population is managed inter alia through a very close cooperation with the neighbouring country. Updated information on the Scandinavian population and on research cooperation can be found on the web: <http://www.rovdata.no> (in Norwegian) and (in English).

**Recommendation no 125 (2007) on trade in invasive and potentially invasive species in Europe**

In 2007 a national strategy for alien species was signed by 11 Ministries. The strategy lays the foundation for how each sector handles the issue. Involvement of the private sector has been another approach, involving in particular the zoo-traders and the horticultural enterprises. A national advisory group on aliens species was established in 2007 and major tasks have been to implement action plans and to finance research. One such action plan is the one for raccoon dog (see Directorate for nature management report 2008-2). Norway established a new national nature diversity act in 2009. This act emphasises the need to use ia risk analysis as a fundamental prerequisite before importing alien species. It is expected that a new regulation enters into force in 2013 regulating all import of alien species, except vascular plants.

**Recommendation no 134 (2008) on the European code of conduct on horticulture and invasive alien plants**

See comments under rec. no 125. A collaborating partnership has been initiated with the private sector to implement the code of conduct in the horticultural business.

**Recommendation 135 (2008) on addressing the impact of climate change on biodiversity**

In 2007 the Directorate for nature management issued a report on climate change adaption in nature management (see report 2007-2b: Climate change – Nature Management Measures). Recommendations from this report has been followed up by integrating climate change aspects in biodiversity management, e.g in protected area management, combating alien species, semi natural ecosystem management, water management plans. Further development of biodiversity monitoring programmes is also strongly focused, with the terrestrial monitoring program having undergone evaluation with regard to CC effects, and the freshwater and marine monitoring programs being under evaluation. Climate change effects on biodiversity are focused in the research programme NORKLIMA (2004-2013), see [www.forskningsradet.no/.../Satellite?...norklima%2FHovedsidemal](http://www.forskningsradet.no/.../Satellite?...norklima%2FHovedsidemal). An assessment of climate change effects on nature and society in the north (NorACIA), focussing on different sectors, including biodiversity was published in 2010 (start 2006), and specific vulnerability analyses for the effects of CC on cultural landscapes, on freshwater systems and on sea shores in Norway has been undertaken. A Norwegian climate change adaption committee was appointed in December 2008 to analyse risks, vulnerability and adaptation for different sectors, including natural environment. The work ended in A Norwegian Official Report (NOU 2010-10) submitted on 15 Nov. 2010. Particular focus has in 2010 and 2011 been on addressing the indirect effects of CC – e.g. potential effects on biodiversity from mitigation measures. In 2011 the Norwegian Directorate for Nature evaluated the potential conflicts with biodiversity of a list of 202 possible mitigation measures suggested by an official commission.

**Recommendation no 138 (2008) on the European Strategy for plant conservation**

Norway has in 2006 started a programme to develop action plans and fund the approved action plans. The first plant species to get its action plan was the red hellebore (see DN-report 2006-1) and *Zostera noltei* (see DN-report 2010-1). New action plans for other plant species are under development (*Herminium monorchis* and *Dracocephalus ruyschiana*). The hellebore, *Herminium* and *Dracocephalus* were all appointed as 'priority species' in 2010 with individual set of regulations applicable and management regimes established.

**Recommendation no 139 on the control of the raccoon dog**

Norway has established a national action plan aiming to eradicate and hinder establishment of this species, cf DN-report 2008-2.

**Recommendation no 144 (2009) on the wind park in Smøla (Norway) and other wind farm developments in Norway**

Norway has funded an international research programme on the impacts of windturbines in general and with the Smøla plant as an example. Norway also acted as a host for an international windturbine conference in 2011 on ia mitigation techniques. The results from this programme will contribute to future windturbine development in Norway.

**IV. SPECIES LISTED ON APPENDIX I, II AND III NOT HAVING LEGAL PROTECTION**

All of the species originally listed on these Appendices have legal protection as prescribed by the Convention.

***Cetaceans***

The small Cetacean species added to Appendix II by the decision of the Standing Committee in December 1987, are all protected under the Act relating to Sea Water Fisheries of 3 June 1983 (including those species for which Norway has made reservations).

***Freshwater fish***

The taking of freshwater fishes listed in Appendix III is regulated under the Act relating to Salmon- and Freshwater Fisheries.