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Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora

and

Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds

FORMAT FOR A PRIORITISED ACTION FRAMEWORK (PAF) FOR NATURA 2000

For the EU Multiannual Financing Period 2014-2020

NORTHERN IRELAND

(Master Version 7: 20 December 2012)

A. Introductory overview of Natura 2000 network for territory

A.1 Short introduction to the habitat types of Annex I and species of Annex II of the Habitats Directive and Annex I and migratory bird species for which Natura 2000 sites are designated

The UK as a whole hosts 81 habitat types of Annex I and 44 species of Annex II under the Habitats Directive. Among those habitats and species, UK has 23 priority habitat types and 3 priority species under the terms of the Habitats Directive.

By contrast, Northern Ireland hosts 52 habitat types of Annex I and 19 species on Annex II under the Habitats Directive. However, including species in Annex IV and V, there are 46 species of community interest (SCIs) in NI and its territorial waters... Northern Ireland has 22 priority habitat types but no priority species. (See Appendix I and II of this report for more detailed information).

Northern Ireland has designated SPAs for 27 Annex I and other regularly occurring migratory species under the Birds Directive. NI has 25 species which are included as SPA Assemblage features (Appendix 3).

Northern Ireland published a Strategy for Surveillance and Monitoring of European Protected Habitats and Species in Northern Ireland in October 2010 which describes the particular situation regarding priority habitats and species and provides an assessment of the importance of Northern Ireland for particular habitats and species. This can be found at: <u>A Strategy for Surveillance and Monitoring of European Protected Habitats and Species in Northern Ireland (.PDF5.54Mb)</u>.

The Northern Ireland Biodiversity Group has published a list of priority species which require conservation action because of their decline, rarity and importance. The species list stands at 481. The full list can be viewed at: http://www.doeni.gov.uk/niea/northern_ireland_priority_species_list.pdf

European Species of Community Interest (SCIs) that are also Northern Ireland priority species (and the Habitats Directive Annex where they are listed) are: Austropotamobius pallipes White-clawed crayfish II & V Balaenoptera acutorostrata Minke whale IV Balaenoptera physalus Fin whale IV Cladonia peziziformis A lichen V Coregonus autumnalis pollan V Delphinus delphis Common dolphin IV Dermochelys coriacea Leatherback Turtle IV Eurodryas aurinia Marsh Fritillary II Globicephala melas Pilot whale IV Grampus griseus Risso's dolphin IV Lampetra fluviatilis River Lamprey II & V Lepus timidus hibernicus Irish Hare V Lutra lutra Otter II Lvcopodiella inundata Marsh clubmoss V Margaritifera margaritifera Freshwater Pearl Mussel II & V

Martes martes Pine Marten V Orcinus orca Killer whale IV Petalophyllum ralfsii Petalwort II Phoca vitulina Common Seal II & V Phocoena phocoena Harbour Porpoise II & IV Phymatolithon calcareum Maërl V Pipistrellus nathusii Nathusius' pipistrelle IV Pipistrellus pygmaeus Soprano pipistrelle bat IV Plecotus auritus Brown Long-eared Bat IV Salmo salar Atlantic salmon II & V Saxifraga hirculus Yellow Marsh Saxifrage II & V Trichomanes speciosum Killarney Fern II & IV Vursiops truncatus Bottlenose dolphin II & IV Vertigo angustior Narrow-mouthed Whorl Snail II Vertigo geyeri A chrysalis snail II

It could be argued that for many of the habitats and species in NI they have only a minor importance due to our smaller geographical land area, territorial sea area or length of coastline compared with the UK as a whole.

Stogruphical metrics of Al compared to total Chi						
Statistic	UK	NI	NI as % UK			
Geographical area km2	244,168	14,150	5.8			
Coastline in km	17,818	650	3.6			
Territorial sea area km2 (to 12 miles)	818,182	7,189	0.9			

Geographical metrics of NI compared to total UK:

Conversely, it could equally be argued that NI has a special responsibility in that it is at the western edge of the range of European habitats and species because of the geographical isolation from GB and mainland Europe. A good example of this is the NI variant of the GB Mountain Hare, which indeed is now considered to be a separate species. Thus in NI and the RoI the hare is usually referred to as the Irish Hare and is threatened by interbreeding with the introduced brown hare (not a Species of Community Interest).

Habitats and species in NI considered of special responsibility are those that are clearly significant compared with the total area or numbers relative to NI's geographical metrics. The following tables list those habitats and species which have, by general agreement among specialists in NIEA, been considered to qualify as 'special'.

Habitats for which Northern Ireland has a special responsibility (* = priority habitat):

- 1. Large shallow inlets and bays. Significant (8%) proportion of UK total in NI
- 2. Atlantic decalcified fixed dunes *Calluno-Ulicetea*..* Significant (13%) proportion of UK total in NI
- 3. Turloughs Highly significant (86%) proportion of UK total in NI
- 4. Northern Atlantic wet heaths with *Erica tetralix*. Significant (12%) proportion of UK total in NI
- 5. *Molinia* meadows on calcareous, peaty or clayey-silt-laden soils. Significant (12%) proportion of UK total in NI
- 6. Active raised bogs*. Significant (35%) proportion of UK total in NI

- 7. Degraded raised bogs still capable of natural regeneration. Significant (18%) proportion of UK total in NI
- 8. Blanket bogs*. Significant (6.4%) proportion of UK total in NI
- 9. Limestone pavements*. Significant (7.8%) proportion of UK total in NI

Species for which Northern Ireland has a special responsibility:

- 1. Austropotamobius pallipes White-clawed crayfish
- 2. Coregonus spp. (C. autumnalis) Pollan
- 3. Euphydryas aurinia Marsh fritillary butterfly
- 4. Lepus timidus Mountain hare = Lepus hibernica Irish hare
- 5. *Lithothamnium coralloides* Maerl
- 6. Myotis daubentonii Daubenton's bat
- 7. Myotis mystacinus Whiskered bat
- 8. Myotis nattereri Natterer's bat
- 9. Nyctalus leisleri Leisler's bat
- 10. Phymatholithon calcareum Maerl
- 11. Pipistrellus nathusii Nathusius' Pipistrelle
- 12. Pipistrellus pipistrellus Common Pipistrelle
- 13. Pipistrellus pygmaeus Soprano pipistrelle
- 14. Plecotus auritus Brown long-eared bat
- 15. Salmo salar Atlantic salmon
- 16. Saxifraga hirculus Marsh saxifrage
- 17. Vertigo geyeri Geyer's whorl snail

A.2 Number and area of Natura 2000 sites

Sites of Community						
Importance (SCIs)		UK	NI			
	Total SCI sites	636	2			
	Total SCI Area (km ²)	43	12.6			
	Terrestrial SCI Area (km ²)	16.7	2.9			
	Marine SCI area (km ²)	26.3	9.7			
	% of National Area	6,8%				
Reference to Commission	Atlantic Region Commission De	ecisions:				
Decisions on SCIs	_					
Decisions on Sers	2011/63/EU of 10 January 201	1 adopting, pu	rsuant to C	ouncil Directive		
	92/43/EEC, a fourth updated lis					
	Atlantic biogeographical region					
	C(2010) 9666)					
	2010/43/EU of 22 December 20	09 adopting,	pursuant to	Council Directive		
	92/43/EEC, a third updated list of sites of Community importance for the					
	Atlantic biogeographical region (notified under document number C(2009)					
	10405)					
	2009/96/EC of 12 December 20	08 adopting, j	pursuant to	Council Directive		
	$\overline{92/43/\text{EEC}}$, a second updated list					
	Atlantic biogeographical region	(notified und	er documen	nt number C(2008)		
	8119)			. ,		
	2008/23/EC of 12 November 20	007 adopting,	pursuant to	Council Directive		
	92/43/EEC, a first updated list of	of sites of Con	nmunity im	portance for the		
	Atlantic biogeographical region	(notified und	er documen	nt number C(2007)		

	5396)			
	2004/813/EC of 7 December 2004 adop 92/43/EEC, the list of sites of Communi- biogeographical region (notified under o	ity importance	e for the Atla	antic
Special Areas of				
Conservation (SACs)		UK	NI	
Conservation (SACS)	Total SAC sites	1 1	57	
	Total SAC Area (km ²)	1 1	911	
	Terrestrial SAC Area (km ²)	1 1		
	% of National Area	1 1		
	Marine SPA area (km ²)			
	(from	1 1		
Special Protection Areas	~			
(SPAs)		UK	NI	
	Total SPA sites	262	16	
	Total SPA Area (km ²)	23.898	1140	
	Terrestrial SPA Area (km ²)	15.279		
	% of National Area	6,2%		
	Marine SPA area (km ²)	8.619		
	(from			
Total Natura 2000				
terrestrial area		UK	NI	
	Total Natura 2000 sites	898	73	
	Total Natura 2000 Area (km ²)	54,474	2051	
	Terrestrial Natura 2000 Area (km ²)	17,683	tba	
	% of National Area	7.2%	tba	
	Terrestrial Natura 2000 area (km ²)	36,791	tba	
Total Natura 2000 marine		UK	NI	
area	Total Natura 2000 sites		18	
	Total Natura 2000 Area (km ²)		tba	
	Marine Natura 2000 Area (km ²)		tba	
	% of National Area		7%	
	Marine Natura 2000 area (km ²)		tba	













Northern Ireland Offshore Waters 2262 km²

A.3 Main land use cover and ecosystem categories for Natura 2000 sites



Northern Ireland Countryside Survey

Northern Ireland comprises a wide range of habitats such as woodland, bog and grasslands. They are important for biodiversity and ecosystem services. Since 1986, the University of Ulster has assessed changes in the type and extent of habitats with a field-based ecological research programme: the Northern Ireland Countryside Survey (NICS). The aim is to understand how land use and the environment influence habitats and their biodiversity and how habitats change with time. NICS provides a science-based record of habitat change that can be used as a measure of the effectiveness of biodiversity conservation and performance on environmental sustainability. NICS is structured on statistical sampling principles and standardized protocols for habitat field survey. Between 1986 and 1991, baseline habitat field survey was carried out in a sample set of quarter kilometre grid squares throughout NI. Habitat change was assessed by surveys in 1998 and 2007. Field mapping was with a Primary Habitat classification, defined by vegetation structure and species composition. The area of Primary Habitats was estimated from the sample squares by statistical analysis. Estimates of Broad Habitats, a classification constructed to communicate policy on habitat protection at a UK level, were also determined. The NICS 2007 report assesses habitat change between 1998 and 2007.

Habitat change

Key changes identified by NICS 1998 were loss of semi-natural habitats by conversion to agricultural grassland, damage to bog by peat cutting and detrimental effects of heavy grazing on heath and bog. Issues of habitat succession to scrub and woodland, a much decreased area of arable crops and increased rural building and were also identified. NICS 2007 showed that while there was continued semi-natural habitat loss compared with 1998, the rate of loss was lower. Agricultural conversion and rural building continued to be the main processes resulting in habitat loss. Scrub/woodland succession in open habitats was greater than in 1998. A trend to a smaller area of arable crops continued and a trend to more broadleaf tree planting on agricultural grassland was recorded. Widespread damage to bogs from peat cutting no longer occurred.

Conversion rates of neutral grassland to improved agricultural grassland recorded by NICS 1998 and NICS 2007 were high, but were smaller in NICS 2007. Conservation initiatives, a small area of semi-natural habitat remaining in lowland landscapes and physical constraints to habitat conversion are likely reasons for this.

A decrease in area of species-rich dry grassland, driven by scrub/woodland succession and conversion to more productive, less species-diverse agricultural grassland, continued a trend from NICS 1998. A high rate of agricultural conversion and a relative scarcity of high quality species-rich dry grassland, a habitat dependent on more traditional agricultural systems, suggest that sustaining grassland by conversion to productive agricultural grasslands reported by NICS 1998 was also recorded by NICS 2007 but the loss rate was lower.

Conversion of bent-fescue grassland and poor fen to agricultural grassland recorded by NICS 1998 and NICS 2007, indicates that agriculture is a key driver of semi-natural habitat loss in the marginal uplands. An increase in the area of mat-grass hill pasture and a decrease in the area of dry heath recorded by NICS 1998 (both heavy grazing pressure indicators) were no longer recorded by NICS 2007. A large increase in the area of rural building recorded by NICS 2007 was almost twice that reported by NICS 1998. Building in both surveys was mainly over agricultural grassland, highlighting the issue of agricultural land loss. A wide range of semi-natural habitats were recorded by NICS 2007 as built over. The continued loss of semi-natural habitat by agricultural conversion and building, particularly in lowland landscapes, where the area of semi-natural habitats is small, is a key biodiversity issue.

An increased rate of scrub/woodland succession recorded by NICS 2007, continued the trend reported by NICS1998. Succession was associated with species-rich grasslands, agricultural grasslands with management constraints, fragmented heath and bog edge vegetation. These habitats are at risk from succession. Their management is a key lowland habitat biodiversity issue.

As reported by NICS 1998, Forest Service conversion of species-rich wet grasslands to coniferous woodland continued. A Forest Service indicative map for new woodland planting shows much of the marginal uplands of NI as being available for new planting. The report highlights the considerable potential for conifer afforestation to reduce habitat diversity in the habitat-rich marginal uplands.

An increased rate of broadleaf tree planting on agricultural grasslands recorded by NICS 2007 is related to policy initiatives promoting farm woodland. There are likely to be long-term increases in woodland ground flora species if management includes biodiversity objectives. This is unlikely if management is for agro-forestry (i.e., integrated sheep and timber production). Land use change to willow biomass production for fuel (recorded for the first time by NICS 2007) is likely to put semi-natural habitats at risk.

The extent of bog (the largest semi-natural habitat in Northern Ireland), changed little between 1998 and 2007, compared with the decrease recorded by NICS 1998 (mainly by peat cutting). The reduction in peat cutting is linked to habitat conservation measures and to the largely favourable economics of oil fuel prices between 1998 and 2007, compared with peat cutting costs.

Habitat protection

The focus of government conservation policy on protecting and managing highvalue habitats highlights the vulnerability of intermediate-value habitats which have no protection. These habitats contain much of the species diversity in the countryside. They also provide ecosystem services that provide food, materials and water, contribute to flood control and store carbon. They can be damaged or lost relatively quickly as land use and economic circumstances and land use change.

Progress on habitat management and conservation is reported separately by government sectors, based on their records of achievement. Industries and businesses depending on habitats in the countryside, maintain limited records of habitat change associated with their activities: carrying out structured habitat audit is not a usual practice. NICS 2007 has provided data that can be used for this purpose, by describing habitat change and assessing how farming, forestry and rural building have influenced change. Making strategic land use decisions for maintaining and managing these habitats is a challenging process. NICS 2007 gives a scientific, ecological context for making these decisions.

B. Status of the Habitats and Species

B.1 Most recent assessment of conservation status of species and habitat types for territory

B.1.a United Kingdom Habitat and species of Habitats Directive

Overall assessment of conservation status by biogeographical region (%)



Region / Conclusion		ł	HABITAT	S				SPECIES		
region / contractor	FV	U1	U2	XX	NA	FV	U1	U2	XX	NA
Atlantic	6	10	81	3		23	33	22	22	
Mediterranean	62	38						100		
Marine Atlantic			40	60		38	19		43	
Marine Mediterranean	50	50					100			
Member State	12	13	69	6		25	32	18	25	

Note: The highest values are highlighted.

Region / Conclusion		ł	HABITATS	S				SPECIES		
region / Conclusion	FV	U1	U2	XX	NA	FV	U1	U2	XX	NA
Range	93		1	6		78	7	7	8	
Area / Population	45	31	7	17		36	17	17	30	
Structure / Habitat	16	9	70	5		25	28	4	43	
Future Prospects	26	26	40	8		41	28	8	23	

FV - Favourable; U1 - Unfavourable inadequate; U2 - Unfavourable bad; XX - Unknown; NA - Not reported

These data are reproduced from the version of the template pre-populated by the Commission taken from data in the UK Article 17 Report 2007. The <u>report for the UK</u> covers both metropolitan UK (Atlantic biogeographical region) and Gibraltar (Mediterranean biogeographical region). The Atlantic part was completed by JNCC in consultation with species and habitats specialists in the country conservation agencies. The Mediterranean part was completed by the Gibraltar Ornithology and Natural History Society under contract to the Government of Gibraltar.

The UK report covers 167 <u>habitats</u> and <u>species</u> in the Atlantic biogeographical region, and 14 in the <u>Mediterranean</u> biogeographical region.

In terms of their overall population, a third of the species are considered Favourable. For some of these, for example the otter and some of the bat species, populations are increasing. For nearly a third of species we have too few data to assess the status of their populations. They include many of the cetaceans and also other species which are difficult to survey. Nearly one fifth of species are assessed as being Unfavourable - Bad. These are species whose populations are too small to be viable, or which have shown continuing recent population declines; for example the Scottish wildcat. Specific action will be needed to remedy these remaining problems.

A quarter of the habitats of the species are considered to be Favourable. However, for nearly half of species the condition of the habitat that they use is difficult to assess. This is often because the species use many habitats, for example many of the bat species, and reaching a decision on this is difficult. Given that the populations of many bat species are stable or increasing, it is likely that their habitat is also favourable, but we cannot confidently assess that this is case. For nearly a third of species, habitat is considered to be an important limitation on their conservation status at the moment, and habitat improvements will be needed if the conservation status of these species is to improve. For only a few species is the condition of the habitat Unfavourable-Bad; the marsh fritillary butterfly and the freshwater pearl mussel are two of these.

In Northern Ireland, the results show that around two thirds of the habitat features are in favourable condition. However, a significant proportion (slightly less than one third) of the features on ASSIs is in unfavourable condition (see below). The results for species show more variability, although still a relatively high proportion (i.e. 78%) of features are in favourable condition.



Species Name	Natura Site Selection Cited Feature	Natura Site Cited Assemblage Feature
Alca torda	Х	
Anas acuta		Х
Anas clypeata		Х
Anas crecca		Х
Anas penelope		Х
Anas platyrhynchos		Х
Anas strepera		Х
Anser anser		Х
Arenaria interpres	X	
Aythya ferina	X	
Aythya fuligula	X	
Aythya marila	X	
Branta bernicla hrota	X	
Bucephala clangula	X	Х
Calidris alpina alpina		Х
Calidris canuta	Х	
Charadrius hiaticula	Х	
Circus cyaneus	Х	
Cygnus columbianus bewickii	Х	
Cygnus cygnus	Х	
Falco columbarius	Х	
Falco peregrinus	Х	
Fratercula arctica		X
Fulica atra		Х
Fulmarus glacialis		X
Haematopus ostralegus		Х
Larus argentatus		Х
Larus canus		Х
Larus fuscus		Х
Limosa lapponica	Х	
Mergus serrator		X
Numenius arquata		X
Phalacrocorax carbo	Х	Х
Pluvialis apricaria	Х	
Pluvialis squatarola		X
Podiceps cristatus	Х	X
Puffinus puffinus	X	
Rissa tridactyla	X	
Somateria mollissima		X
Sterna dougallii	X	
Sterna hirundo		
Sterna paradisaea	X	
Sterna sandvicensis		
Tadorna tadorna		
Tachybaptus ruficollis		X
Tringa totanus	X	X
Uria aalge		
Vanellus vanellus		X
	ary of the 2004 Birds in Europe assessme	

B.1.b Northern Ireland Bird species of Birds Directive

B.2 United Kingdom overall assessment of conservation status by Habitat category / species group



B.3 United Kingdom overview of pressures and threats to species and habitats

	HABI	TATS	SPECIES		
Category of pressure / threat	Actual pressures	Future threats	Actual pressures	Future threats	
Agriculture, Forestry	67		53	55	
Fishing, hunting and collecting	14	6	38	38	
Mining and extraction of materials	28	2	30	20	
Urbanisation, industrialisation and similar activities	17	3	32	26	
Transportation and communication	9	5	39	29	
Leisure and tourism (other than above)	7	1	23	18	
Pollution and other human impacts/activities	10	28	54	56	
Human induced changes in wetlands and marine environments	9	5	51	51	
Natural processes (biotic and abiotic)	8	5	57	57	

C. LEGAL AND ADMINISTRATIVE PROVISIONS FOR THE PROTECTION AND MANAGEMENT OF THE NATURA 2000 SITES

C.1 Relevant legal provisions

The Conservation (Natural Habitats, etc) Regulations (Northern Ireland) 1985 provide for the legal protection and management of Natura 2000 sites in Northern Ireland. In addition, virtually all terrestrial Natura 2000 sites are also designated under national legislation [the Environment (Northern Ireland) Order 2002] as Areas of Special Scientific Interest (ASSI). ASSIs are areas of land that have been identified by scientific survey as being of the highest degree of conservation value. The ASSI powers and the separate provisions in national legislation transposing Article 6.3 and 6.4 of the Directive, are the primary legal mechanisms for the protection and management of the sites.

As part of the statutory notification procedures, all owners and occupiers of ASSIs are issued with a list of potentially damaging operations (PDOs). These are operations or activities which have the potential to damage the features of interest of the ASSI. Where ASSIs underpin Natura 2000 sites, the PDO list takes account of the qualifying interests of the Natura 2000 site. Land managers intending to undertake any activity on the PDO list must apply to the Northern Ireland Environment Agency (NIEA) for consent. Where the interests of a Natura 2000 site may be affected, NIEA will undertake an appraisal under the Conservation Regulations to ensure that there is no adverse effect on site integrity in view of the site's conservation objectives. If it cannot be ascertained that adverse effects on the integrity of the Natura 2000 site will be avoided, consent for the operation will be refused. Section 46 of the Environment Order provides for a number of offences including a failure by an owner/occupier to comply with the obligation to seek consent before carrying out a PDO; and an offence for anyone to intentionally or recklessly destroy or damage any of the flora or fauna or other features by reason of which the land is of special scientific interest.

National legislation also gives NIEA the powers to enter into management agreements with land owners to further conservation, restoration or protection of a site as appropriate. In circumstances where agreement cannot be reached with land owners or where an ASSI is being inadequately conserved or restored, NIEA have additional powers to serve land owners with a management notice requiring them to carry out such measures considered necessary for the proper management of the site.

Under the provisions of the Conservation Regulations all competent authorities are under a legal obligation to carry out an assessment of the possible impacts of any plan or project on a site in accordance with Article 6.3 in order to ensure that no plan or project that might have a negative impact upon the site shall take place. Additionally, section 38 of the Environment Order places a duty on all public bodies to further the conservation and enhancement of the flora, fauna or physiological features by reason of which the ASSI is of special scientific interest. The Northern Ireland Planning Authorities must also consider the possible impact of a development on an ASS I when assessing planning applications.

NIEA operate a rigorous ASSI monitoring programme divided into two broad categories: (i) site integrity/compliance monitoring is essentially an annual check that the site is still 'intact' and has not been significantly modified since its declaration. It includes checks to ensure that there are no infringements, either of notifiable operations or management agreements where these are in place; and (ii) condition assessment is designed to detect more subtle change and is carried out on a six year rolling programme of site condition to determine the conservation status of the site and whether this has attained favourable condition.

As with other parts of the UK, agri-environment schemes also contribute to the delivery of site improvement. At present some 40% of Northern Ireland is covered by agri-environment agreements and landowners commit to the site management programmes for a minimum of 7 years. The Department of Agriculture and Rural Development (DARD) has given special recognition to ASSIs declared for flora and fauna when considering the entry of farm holdings with a Farm Business Identification Number into its Northern Ireland Countryside Management Scheme (NICMS). The land management prescriptions laid down by DARD under this scheme are also intended to ensure land that is subject to an ASSI declaration is managed in a manner that is sympathetic to the special scientific interest.

NIEA operate a financial incentive scheme – the Management of Sensitive Sites (MOSS) Scheme - aimed at anyone who owns or manages land within an ASSI who is not receiving funding for the same area from other government sources. Its key objectives are to conserve and enhance the nature conservation interests of the land.

Broad based actions to enhance biodiversity including NI specific Habitat and Species Action Plans (NI HAPs/SAPs, in addition to participation in the UK wide HAPs/SAPs), also contribute directly to the conservation of Natura 2000 sites.

Woodland and forestry management are important to a number of ASSIs and a Woodland Grant scheme operated by the Department of Agriculture and Rural Development aims to expand the amount of tree cover in Northern Ireland by encouraging the creation of new woodland in order to improve woodland biodiversity and encourage the sustainable management of forests and woodlands.

Other administrative and legislation

Guidance for Local Authorities on Implementing the Biodiversity Duty, Defra http://archive.defra.gov.uk/environment/biodiversity/documents/la-guid-english.pdf

Guidance for Public Authorities on Implementing the Biodiversity Duty, Defra http://archive.defra.gov.uk/environment/biodiversity/documents/pa-guid-english.pdf

Statutory Instruments 2010 No. 490 Wildlife Countryside The Conservation of Habitats and Species **Regulations 2010** http://www.legislation.gov.uk/uksi/2010/490/contents/made

2012/1927 Wildlife Countryside and Marine Management : The Conservation of Habitats and Species (Amendment) Regulations 2012

http://www.legislation.gov.uk/uksi/2012/1927/contents/made

2012 No. 1928 Wildlife: The Offshore Marine Conservation (Natural Habitats, &c.) (Amendment) Regulations 2012 http://www.legislation.gov.uk/uksi/2012/1928/contents/made

Statutory Instruments 2011 No 625. The Conservation of Habitats and Species (Amendment) Regulations 2011 http://www.legislation.gov.uk/uksi/2011/625/contents/made

Countryside and Rights of Way Act 2000 http://www.legislation.gov.uk/ukpga/2000/37/contents Natural Environment and Rural Communities Act 2006 http://www.legislation.gov.uk/ukpga/2006/16/contents

Marine Strategy Framework Directive and its transposition: http://ec.europa.eu/environment/water/marine/directive_en.htm http://www.legislation.gov.uk/uksi/2010/1627/contents/made

Water Framework Directive and its transposition: http://ec.europa.eu/environment/water/water-framework/index_en.html http://www.legislation.gov.uk/uksi/2003/3242/contents/made

Management and surveillance of sites which straddle the border between Northern Ireland and the Republic of Ireland.

Initial discussions have already taken place between officials from the two jurisdictions and have agreed to undertake joint working on these sites using most appropriate best practice techniques to ensure that when each MS describes a site or feature in favourable or unfavourable status exactly the same condition is being referred to.

All Annex I habitats and Annex II species in the cross-border sites in the island of Ireland will be targeted. INTERREG V and possibly PEACE IV with national public money are potential financing sources.

Progress in	There is no obligation to implement a Natura 2000 site
establishing	management plan in Northern Ireland, although there is a legal
conservation objectives	obligation to produce a Site Management Statement (SMS) for
	every ASSI. Where an ASSI underpins a Natura 2000 site, the
	SMS takes account of the Natura interest(s). However, land
	managers are not obliged to implement the SMS.
	managers are not conged to imprement the strip.
	As part of the statutory notification package, all owners and
	occupiers of ASSIs are issued with a list of Notifiable Operations
	1 1
	requiring consent (the NO list). These are operations or activities
	which have the potential to damage the features of interest of the
	ASSI. Where ASSIs underpin Natura 2000 sites, the NO list takes
	account of the qualifying interests of the Natura 2000 site. Land
	managers intending to undertake any activity on the NO list must
	apply to NIEA for consent. Where the interests of a Natura 2000
	site may be affected, NIEA will undertake an appraisal under the
	Habitats Regulations to ensure that there is no adverse effect on
	site integrity in view of the site's conservation objectives. If it
	cannot be ascertained that adverse effects on the integrity of the
	÷ •
	Natura 2000 site will be avoided, consent for the operation will be
	refused. The conservation objectives for Natura 2000 sites are
	based on the requirements of Article 6.2 of the Habitats Directive
	(to avoid deterioration and significant disturbance) and the
	requirements of favourable conservation status for habitats and
	species (as defined in Article 1). Conservation objectives are

C.2 Progress and perspectives for management planning for the sites

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sites nation e and NIEA t <u>interest-</u>
g the
eams sses and
nt.
marine
ne.pdf

More background	Information relating to the protection and management of
information on plans	designated sites is found on the NIEA web site:
and comment on other	http://www.doeni.gov.uk/niea/protected_areas_home
instruments/approaches	
for management	
planning, information	
on and plans for	
particular sectors (e.g.	
forestry etc.)	

C.3 Relevant government and non-governmental plans

There are a considerable number of Government plans and plans by environmental None Government Organisations in Northern Ireland. Many of these are financially resourced through the NI devolved government's grant aid programme. There are also River Basement Management Plans (WFD). Local District Councils also have Biodiversity Officers who have devised local government biodiversity plans.

D CURRENT EXPERIENCE WITH USE OF EU FINANCIAL INSTRUMENTS

D1 European Agricultural Fund for Rural Development (EAFRD)

Provide a summary of allocations under relevant provisions of rural development fund for Natura 2000 management, (as well as other relevant national/regional financing)

Fund	Provision	Level of Use*		
EAFRD	213 Natura 2000 payments			
	224 Forest Natura 2000 payments			
	214 Agri-environment	See below		
	225 Forest-environment measures			
Other relevant (nat	Other relevant (national/regional) payment schemes			
for Territory				
Summary of key N	Vatura 2000 related measures being u	ndertaken under fund:		
See DARD specifics below.				
Key lessons learnt and obstacles encountered:				
Agri-environment schemes hitherto have provided limited benefits to Natura 2000.				

* Where estimates are available they should be provided. Otherwise indicate as VS Very significant; MU Moderate Use; MI Minor use; NU No use

D.2 European Fisheries Fund (EFF)

Provide a summary of allocations under Axis 1-4 of EFF used for Natura 2000 management, (as well as other relevant national/regional funding)

Fund	Provision	Level of Use*				
EFF	Axis 1					
	Axis 2					
	Axis 3					
	Axis 4					
Other (national/reg	gional) payment schemes for					
Territory	Territory					
Summary of key N	Summary of key Natura 2000 related measures being undertaken under fund:					
None known.						
Key lessons learnt and obstacles encountered:						
CFP schemes hitherto have provided limited benefits to Natura 2000.						

Where estimates are available they should be provided. Otherwise indicate as VS Very significant; MU Moderate Use; MI Minor use; NU No use

D.3 Structural Funds and the Cohesion Fund

Provide a summary of allocations under relevant provisions of structural funds used for Natura 2000 management, (as well as other relevant national/regional funding)

Fund	Provision	Level of Use*
ERDF	Category 51	
	Category 55	
	Category 56	
Building Sustain	able Prosperity	
BSP 7473	Enhanced natural attenuation of hydrocarbon con	taminated land
BSP 7501	Conservation Genetics of Northern Ireland Seagn	ass Beds
BSP 7505	Conservation Genetics of Northern Ireland Peat F	Bogs
BSP 7734	Refinement of a novel method for measuring read	eration in surface waters
BSP 7741	Mourne Interpretation & Information Strategy	
BSP 7784	Molecular Basis for a Species Action Plan for Re	d Alga Ahnfeltiopsis
BSP 7838	Rare Earth	
BSP 7839	The Natural Stone Weathering Database	
BSP 25645	Local Air Quality Management Grant Scheme	
BSP 30793	Waste Management Grant Scheme to District Co	uncils

Where estimates are available they should be provided. Otherwise indicate as VS Very significant; MU Moderate Use; MI Minor use; NU No use

D.4 LIFE+

Provide a summary of allocations under LIFE+ for Natura 2000 management,

Fund	Provision	Level of Use*
LIFE+	Nature and Biodiversity	
Summary of key N	Vatura 2000 related measures being u	ndertaken under fund.
See Defra UK ove	rview.	
Key lessons learnt	and obstacles encountered:	
See Defra UK ove	rview	
	competent authorities have reviewed r bid in the next funding round suppo	1 1 1

Where estimates are available they should be provided. Otherwise indicate as VS Very significant; MU Moderate Use; MI Minor use; NU No use

D.5 Other key funding sources

Fund		Level of Use*		
	nme for Research (FP7)	None		
Public/Private Partners		None		
Use of innovative finar	<u> </u>	None		
Other (specify)		INTERREG		
INTERREG IVA	Controlling priority inv	asive non-native riparian plants and restoring		
3126	native biodiversity	asive non-narve ripartan plants and restoring		
INTERREG IVA	· · · · · · · · · · · · · · · · · · ·	n of Freshwater Pearl Mussel Measures		
3705	r fuetieur implementatio	in of the shiward the anti-masser measures		
INTERREG IVA	Halting Environmental	Loss Project (HELP)		
2866				
INTERREG IVA	Using SRC willow for t	he biofiltration / bioremediation of organic		
2991	effluents and sludges			
INTERREG IVA		vey of the North of Ireland 'GESI North'		
3603				
INTERREG IVA	Ireland, Northern Irelan	d, Scotland Hydrographic Survey Project (INIS		
3677	Hydro)	.,		
INTERREG IVA		d ecological modelling tools for lake management		
2862				
INTERREG IIIA	North - South SHARE			
19373				
INTERREG IIIA	Lough Melvin Catchme	nt Management Plan		
20189				
INTERREG IIIA	Blackwater TRACE			
20204				
INTERREG IIIA	Forest Impacts on Uplan	nd Lakes		
20274				
INTERREG IIIA	Strategic Planning for C	Cross Border Waste Management		
20380		C C		
INTERREG IIIA	Water Quality Monitori	ng Buoys		
24781				
INTERREG IIIA	Fish Counter - River Str	rule		
24783				
INTERREG IIIA	Inshore Patrol Vessel -	Carlingford		
24785				
INTERREG IIIA	Tagging and Detection	Unit		
24786				
INTERREG IIIA	Combined Fishery Enha	ancement and Management Programme		
24789				
INTERREG IIIA	Fish Surveying Echo-So	bunders		
24791				
INTERREG IIIA	Pilot Project to track Sh	ellfishery Vessels		
24796				
INTERREG IIIA	Waste Awareness Medi	a Campaign		
26155				
INTERREG IIIA	Joint Irish Bathymetric	Survey (JIBS)		
39161				

E Current estimate of financial needs for management of Natura 2000 for the United Kingdom

The following resources needs are copied from the pre-populated template provided by the Commission. We have yet to provide a Northern Ireland specific analysis of our regional needs.

The aim is to summarise the results of the 2008 questionnaire

9

7 to 9

	Guidance		Total cost
	note		(£. Pounds
Management Actions	number	Key Activities	Sterling)

ONE OFF COSTS			
Finalisation of Sites	1	Scientific studies, administration, consultation etc	23.528.648
Management Planning	2	Preparing management plans, establishing management bodies, consultation etc	15.165.382
	1+2	Subtotal: One-off costs management	38.694.030
Investment costs	3	Land purchase	3.515.000
	4	One-off (i.e. not regular annual) payment of compensation for development rights.	2.897.000
	5	Infrastructure needed for the improvement / restoration of habitat or species	15.794.383
	6	Infrastructure for public access, interpretation works, observatories and kiosks, etc (contributing to conservation)	
			6.037.517
	3-6	Subtotal: Investment	28.243.900
	1-6	Subtotal: One-off costs	66.937.930
RECURRENT COSTS		Key Activities	Total annual cost
Management planning	7	Running costs of management bodies	16.055.476
	8	Review of management plans	270.787

Public communication

Subtotal: management planning

26.050

16.352.313

Habitat management and monitoring

			Other	Inland				
	Agri	Forests	terr	waters	Wetlands	Coastal	Marine	TOTAL
Conservation management measures- maintenance and improvement of habitats ' favourable conservation status								
	5.819.622	602.126	1.244.438	519.126	2.141.857	2.470.402		12.797.571
Conservation management measures- maintenance and improvement of species' favourable conservation status								
olaldo	1.886.668	300.000	1.981.000	655.000	1.989.098	1.721.514		8.533.280
Implementation of management schemes and agreements with owners and managers of land or water for following certain prescriptions	42.270.000	7.604.000	580.000	80.000	16.612.000	2.984.000		70.130.000
Provision of services; compensation for rights foregone and loss of income; developing acceptability 'liaison' with neighbours								
	77.827	10.726	77.764	10.726	65.698	101.412		344.153
Monitoring	249.115	93.064	200.953	41.249	283.699	318.763		1.186.843
į	2-3.113	55.00+	200.000	71.273	200.000	010.703		1.100.0-5

Maintenance of facilities for public access to and use of the sites, interpretation works, observatories and kiosks etc.								
	2.700	103.600	73.885	11.600	238.266	21.400		451.451
Risk management (fire prevention and control, flooding etc)								
	650.000	102.500	2.000	0	400.000	100.000		1.254.500
Surveillance of the sites	33.177	4.374	81.895	105.574	152.560	32.730	500.000	910.310
Subtotal: Habitat management and								
Monitoring	50.989.109	8.820.390	4.241.935	1.423.275	21.883.178	7.750.221	500000	95.608.108

F STRATEGIC CONSERVATION PRIORITIES FOR NATURA 2000 FOR THE TERRITORY FOR PERIOD 2014-2020

F.1 Summary of priorities for period (and expected outcomes), for priority habitat types and species having regard to the to the need for measurable progress on the nature sub-target under EU 2020 biodiversity strategy and for ensuring good functioning of Natura 2000 network (SACs + SPAs)

Special Areas of Conservation

The table below identifies the priority habitat SAC features to be prioritised over the next period.

Priority SAC habitats assessment and risk

NI FCS: FV = Favourable: U1 = Unfavourable Inadequate; U2 = Unfavourable Bad; XX = Unknown Risk = Risk of being affected by human pressure (expert opinion): high, medium or low. NIHAP = Northern Ireland Habitat Action Plans

Note: Northern Ireland is 5.7% of the total geographical area of the UK, the coast is 3% of UK coastline and the territorial sea is 0.3% of UK (to 12 nm)

1.	Code	Habitat	NI FCS	% UK in NI	NIHAP	SACs	Comment	Risk
2.	H2130	Fixed dunes with herbaceous vegetation "grey dunes" *	U2	3.6%	<u>Coastal</u> sand dune	4	Sufficient (42%) covered in UK by CSM and HAP. Proportionate in NI. All major dune systems in NI at risk.	High
3.	H2150	Atlantic decalcified fixed dunes <i>Calluno-</i> <i>Ulicetea</i> *	U2	13%	<u>Coastal</u> sand dune	1	Most covered in UK by CSM and HAP. Significant (13%) proportion in NI. Need specific monitoring of this priority feature	High
4.	H6230	Species-rich Nardus grassland,	U2	< 1%	Calcareous grassland	2	Most (72%) covered in UK by CSM. No HAP. Not significant in NI.	High
5.	H7110	Active raised bogs*	U2	35%	Lowland raised bog	16	Sufficient (59%) covered in UK by CSM and HAP. Significant (35%) in NI. NICS Bog/Wet bog	High
6.	H7130	Blanket bogs*	U2	6.4%	Blanket bog	7	Not much covered by CSM in UK and HAP. Sufficient in NI. NICS Bog/Wet bog	High
7.	H7210	Calcareous fens with <i>Cladium</i> <i>mariscus</i> and species of the <i>Caricion</i> <i>davallianae</i> *	U2	< 1%	<u>Fen</u>	1	Almost all covered by CSM in UK and HAP. Not significant in NI.	High
8.	H8240	Limestone pavements*	FV	7.8	Limestone pavement	1	Sufficient covered by CSM in UK. No HAP. Sufficient in NI.	Low
9.	H9180	<i>Tilio-Acerion</i> forests of slopes,	U2	< 1%	<u>Ash</u> woodland	2	Sufficient (46%) covered in UK by CSM and HAP.	Med

		screes and ravines*					Little (< 1%) in NI.	
10.	H91D0	Bog woodland*	U2	1.7%	<u>Wet</u> woodland	3	Sufficient covered by CSM in UK. No HAP.	Low
11.	H91E0	Alluvial forests with Alnus glutinosa and Fraxinus excelsior Alno-Padion, Alnion incanae, Salicion albae *	U2	3.9	<u>Wet</u> woodland	3	Sufficient covered by CSM in UK. Sufficient in NI.	Med

There are no priority species in Northern Ireland.

F.2 Summary of priorities for other habitats and species covered by nature Directives having regard to the need for measurable progress on nature subtarget under EU 2020 biodiversity strategy (Habitats and Birds Directives) and for ensuring good functioning of Natura 2000 network (SACs + SPAs)

The table below identifies the non-priority habitat SAC features to be prioritised over the next period.

Other SAC habitats assessment and risk

NI FCS: FV = Favourable: U1 = Unfavourable Inadequate; U2 = Unfavourable Bad; XX = Unknown Risk = Risk of being affected by human pressure (expert opinion): high, medium or low. NIHAP = Northern Ireland Habitat Action Plans

Note: Northern Ireland is 5.7% of the total geographical area of the UK, the coast is 3% of UK coastline and the territorial sea is 0.3% of UK (to 12 nm)

	Code	Habitat	NI FCS	% UK in NI	NI HAP	SACs	Comment	Risk
1.	H1130	Estuaries Foyle and Bann	U2	1.3%	No	0	Sufficient covered in UK by CSM. Little currently in NI sites. Non-SAC estuaries poor condition.	Low
2.	H1160	Large shallow inlets and bays	U2	8%	Yes	1	Sufficient cover in UK by CSM. NI Action Plan exists but not activated Significant proportion in NI.	Low
3.	H1170	Reefs	U2	?	No	2	Very little (2%) in UK SACs. No SACs in NI. No specific HAP. More survey needed.	Med
4.	H1230	Vegetated sea cliffs of the Atlantic and Baltic coasts	U2	1.4%	Yes	2	Sufficient covered in UK by CSM and HAP. Sufficient in NI.	Low
5.	H2110	Embryonic shifting dunes	U2	1.7%	Yes	3	Sufficient I covered in UK by CSM and HAP. All major dune systems in NI covered by ASSI designation but at risk.	Med
6.	H2120	Shifting dunes along the shoreline	U2	< 1%	Yes	4	Sufficient covered in UK by CSM and HAP. Not significant in NI. All major dune systems in NI covered by ASSI designation but at risk.	Med
7.	H2170	Dunes with Salix repens ssp. argentea Salicion arenariae	U2	1.9%	Yes	2	Most (70%) covered in UK by CSM and HAP. Sufficient (2%) in NI.	High
8.	H2190	Humid dune slacks	U2	1.2%	Yes	1	Sufficient covered in UK by CSM and HAP. Small amount (1.2%) in NI.	High
9.	H3130	Oligotrophic to mesotrophic standing waters	U1	1.6%	Yes	3	Sufficient (1.6%) in NI. Not much covered in UK by CSM and HAP.	High
10.	H3140	Hard oligo- mesotrophic waters	U2	2%	Yes	1	Not much covered in UK by CSM and HAP. Sufficient (2%) in NI.	High
11.	H3150	Natural eutrophic lakes	U2	2.6%	Yes	2	Not known how much covered in UK by CSM and HAP. Probably sufficient in NI.	High
12.	H3180	Turloughs	U2	8%6	Yes	1	All covered by in UK CSM and HAP. Highly significant in NI.	High
13.	H3260	Water courses of plain to	U2	?	Yes	6	Not known how much covered in UK by CSM and HAP.	High

		montane levels					Apparently proportionate in NI	
14.	H4010	Northern Atlantic	U2	12%	Yes	5	According to distribution map.	High
		wet heaths with <i>Erica tetralix</i>					CSM and HAP. Significant proportion (12%) in NI. Need to check NICS2007 results.	
15.	H4030	European dry heaths	U2	1.7%	Yes	5,	Some covered in UK by CSM and HAP. Sufficient in NI (80% in designated sites). NI FCS unknown.	High
16.	H6210	Semi-natural dry grasslands and scrubland	U2	2.1%	Yes	2	Sufficient (59%) covered in UK by CSM and HAP. Sufficient (2.1%) in NI.	High
17.	H6410	<i>Molinia</i> meadows	U2	22%	Yes	2	Sufficient (44%) covered in UK by CSM and HAP. Significant (22%) in NI. Less than 10% in NI in designated sites.	High
18.	H6430	Hydrophilous tall herb fringe communities	U2	4.3%	No		Almost all covered by CSM in UK (96%?). No HAP. Proportionate (4.3%) in NI. No SACs or ASSIs for this in NI.	High
19.	H7120	Degraded raised bogs still capable of natural regeneration	U2	18%	Yes	2	Not much covered in UK by CSM and HAP. Significant in NI.	Med
20.	H7140	Transition mires and quaking bogs	U2	?	Yes	4	Not known how much in UK covered by CSM and HAP.	High
21.	H7150	Depressions on peat substrates of the <i>Rhynchosporion</i>	U2	19%	Yes	0	Not known how much in UK covered by CSM and HAP. Little (< 1% of total UK) in NI. Not currently differentiated from blanket bog.	High
22.	H7230	Alkaline fens	U2	2.5%	Yes	4	Not known how much in UK covered by CSM and HAP	High
23.	H8310	Caves not open to the public	XX	22%	No	0	Not known in UK or NI. No HAP. No SACs in NI. Significant in NI.	Low
24.	H91A0	Old sessile oak woods with <i>llex</i> and <i>Blechnum</i> in the British Isles	U2	< 1%	Yes	13	Not much in UK (46%) covered by CSM and HAP. Little (< 1%) in NI.	Med

Non priority SAC species

The table below identifies the non-priority species SAC features to be prioritised over the next period.

Non-priority SAC species assessment and risk

The reporting format set by the European Commission requires assessment of the conservation status of each species on Annexes II, IV and V of the Directive

	Code	Species	NI FCS	NI pop	NI SAP	SA Cs	Surveillance	Risk
1.	S1092	Austropotamobi us pallipes White-clawed crayfish	U1	5 pops	No	1	No systematic or permanent scheme. NI currently only plague free populations in UK/RoI.	High
2.	S5113	Cladonia subgenus Cladina Subgenus lichens	XX	XX	No	0	British Lichen Society Recording Scheme. Does it provide adequate coverage?	Low
3.	SXXX	<i>Coregonus spp.</i> (<i>C. autumnalis</i>) Pollan	XX	XX	No	0	None. Only occurs in Ireland, not GB.	High
4.	S1065	Euphydryas Eurodryas, Hypodryas aurinia Marsh fritillary butterfly	XX	5% UK	Yes	5	UK Butterfly Conservation Monitoring Scheme:	Med
5.	S1099	Lampetra fluviatilis River lamprey	XX	3.5% UK	No	0	WFD monitoring by Fisheries Agencies	XX
6.	S1096	<i>Lampetra</i> <i>planeri</i> Brook lamprey	XX	3.8% of UK	No	0	WFD monitoring by Fisheries Agencies	XX
7.	S1029	Margaritifera margaritifera Freshwater pearl mussel.	U2	5 sites	Yes	3	UK = 132 sites, 66 viable. NI = 5 sites (3.8%), 2 viable (3%) No systematic and permanent scheme	High
8.	S1314	<i>Myotis</i> <i>daubentonii</i> Daubenton's bat	FV	410K = 73%	Yes	0	National Bat Monitoring Scheme:	Low
9.	\$1273	<i>Myotis</i> <i>mystacinus</i> Whiskered bat	XX	24K = 38%	Yes	0	National Bat Monitoring Scheme:	Low

10.	S1322	<i>Myotis nattereri</i> Natterer's bat	XX	48K = 32%	Yes	0	National Bat Monitoring Scheme	Low
11.	S1331	<i>Nyctalus leisleri</i> Leisler's bat	XX	18K = 64%	Yes	0	National Bat Monitoring Scheme:	Low
12.	S1395	Petalophyllum ralfsii Petalwort	U2	7%UK	No	1	Known from only one site.	Low
13.	S1095	Petromyzon marinus Sea lamprey	XX	8.5% UK	No	0	WFD monitoring by Fisheries Agencies – need MoU.	XX
14.	S1317	<i>Pipistrellus nathusii</i> Nathusius' Pipistrelle	XX	12K = 47%	Yes	0	National Bat Monitoring Scheme: range, population and habitat data	Low
15.	S1309	<i>Pipistrellus pipistrellus</i> Common Pipistrelle	XX	1.15m = 75%	Yes	0	National Bat Monitoring Scheme: range, population and habitat data	Low
16.	S5009	Pipistrellus pygmaeus Soprano pipistrelle	XX	580K = 45%	Yes	0	National Bat Monitoring Scheme: range, population and habitat data	Low
17.	S1326	<i>Plecotus auritus</i> Brown long- eared bat	XX	45K = 18%	Yes	0	National Bat Monitoring Scheme: range, population and habitat data	Low
18.	S1106	Salmo salar Atlantic salmon	U2	5522 =5.7% UK	No	5	Significant monitoring in place by Loughs Agency and Inland Fisheries (DCAL)	High
19.	S1528	<i>Saxifraga</i> <i>hirculus</i> Marsh saxifrage	XX	1 pop	No	1	Comprehensive SAC monitoring of only site	Med

Special Protection Areas

Across the SPA suite in Northern Ireland many of qualifying features (83%) are in favourable condition (based on the returns of the last Common Standards Monitoring report of 2008). However, there is a significant number in unfavourable condition (17%), some of which are believed to be amenable to on-site remedies.

For the first 3 years of the 2014-2020 period, we have initially prioritised 10 SPA features for positive management action – this will address a significant proportion of the unfavourable SPA features that are amenable to on-site remedies.

The table below identifies the SPA features to be prioritised over the next period:

SPA feature

Aythya ferina pochard

Aythya fuligula tufted duck

Aythya marila scaup

Bucephala clangula goldeneye

Circus cyaneus hen harrier

Numenius arquata curlew

Pluvialis apricaria golden plover

Tringa totanus redshank

Vanellus vanellus lapwing

Waterfowl assemblages, non-breeding

Wider measures

The Northern Ireland SPA series includes a total of 46 selection features (this does not include species that contribute to assemblage features, except where these qualify in their own right).

Management measures, focussed on Natura sites, will contribute to progress against Target 1 of the EU 2020 Biodiversity Strategy. However, we recognise that a much bigger impact can be achieved if measures can also be taken for Natura habitats and species in the wider countryside. Accordingly in Northern Ireland we will develop a suite of wider schemes, some linked to the outcomes of the Atlantic Seminar in the New Biogeographical Process. These schemes will include:

Research into Nitrogen deposition, its effects on European habitats and potential remedial measures.

NIEA have commissioned research into factors at a number of SPAs to better understand the reasons behind unfavourable status of the Lough Neagh SPA. We are also collaborating with other partners to assess factors at other sites e.g. Carlingford Lough.

Of the species in unfavourable condition two features are currently viewed as being amenable to on-site remedies these being -

Golden Plover (breeding) - factor appears to be habitat management needs Cormorant (breeding) - factor appears to be management of invasive species (Brown Rat)

Wider countryside measures may also benefit a number of SPA features including -

Water Framework Directive and River Basin Management Plan initiatives to address eutrophication - likely gains for freshwater SPA features

Agri-environment programmes - targeted upland initiatives likely gains for breeding raptors and waders especially

F.3 Strategic priorities in relation to investments in Natura 2000 linked to green tourism and jobs, to support climate change mitigation and adaptation or other ecosystem benefits, for research, education, training, awareness and promotion of co-operation (including cross-border) linked to Natura 2000 management

Article 11 Surveillance

From a detailed scoping of current surveillance schemes in Northern Ireland there are a number of habitats for which there is a significant risk that current schemes, programmes and projects will not provide sufficient information to assess their conservation status because they are permanent and/or systematic. Thus additional surveillance schemes are required to be put in place for the following nine habitats.

Habitats for which there are no systematic and permanent schemes of surveillance being undertaken.

	Habitat	UK FCS	NI FCS	% UK in NI	HA P	NI SAC s	Comment
	Estuaries	U2	U2	1.3	No	0	Inadequate coverage in NI
2.	Mudflats and sandflats not covered by seawater at low tide	U2	U2	3.8	Yes	1	Inadequate coverage in NI. Action Plan but not activated.
	Large shallow inlets and bays	U2	U2	8	Yes	1	Inadequate coverage in NI. Action Plan not activated. Significant proportion in NI.
4.	Reefs	XX	XX	?	No	2	Very little (2%) in UK SACs. No HAP. More survey needed.
5.	Natural eutrophic lakes with <i>Magnopotamion</i> or <i>Hydrocharition</i> - type vegetation	U2	U2	2.6 as □	Yes	2	Not known how much covered in UK by CSM. 10ha and below not monitored by WMU. Need further survey.
6.	Northern Atlantic wet heaths with <i>Erica tetralix</i>	U2	U2	12	Yes	5	Significant proportion (12%) in NI but only a small proportion in SACs.
7.	Molinia meadows on calcareous, peaty or clayey- silt-laden soils Molinion caeruleae	U2	U2	22	Yes	2	Significant (22%) in NI. Less than 10% in NI in designated sites.
8.	Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels	U2	U2	4.3	No	0	No HAP. Proportionate (4.3%) in NI. No SAC/ASSIs for this in NI.
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9.	Caves not open to the public	XX	XX	22% as □	No	0	Unknown extent in UK or NI. No HAP. No SACs in NI. Significant in NI.

From a detailed scoping of current surveillance there are a number of species for which there is a significant risk that current schemes, programmes and projects will not provide sufficient information to assess their conservation status. Including all six bat species, the following 24 species/entities require new systematic and permanent surveillance schemes.

Species for which there are no systematic and permanent schemes of surveillance being undertaken.

	Species	UK	NI	UK	NI SACs	Comment
		FCS	FCS	SAP		
1.	Austropotamobius pallipes White-clawed crayfish	U2	U2	Yes	1 SAC (Annex II and V)	No systematic or permanent scheme. 7.6% of known UK populations.
2.	<i>Cladonia</i> subgenus <i>Cladina</i> Subgenus lichens	XX	XX	No	None (Annex V)	No systematic or permanent scheme. Population unknown.
3.	<i>Coregonus spp.</i> (<i>C. autumnalis</i>) Pollan	XX	XX	Yes	None (Annex V)	No systematic or permanent scheme. Population unknown.
4.	Dermochelys coriacea Leatherback Turtle	XX	XX	Yes as all turtl es	None (Annex IV)	No systematic or permanent scheme. NIEA (2006) review of marine turtle records in NI.
5.	<i>Lampetra fluviatilis</i> River lamprey	U1	U1	No	None (Annex II)	WFD monitoring by Fisheries Agencies – need MoU.
6.	<i>Lampetra planeri</i> Brook lamprey	U1	U1	No	None (Annex II)	WFD monitoring by Fisheries Agencies – need MoU.
7.	<i>Leucobryum glaucum</i> Large white-moss	U1	U1	No	None (Annex V)	British Bryological Recording Schemes. Poorly known in NI but probably

						proportionate.
8.	<i>Lithothamnium coralloides</i> Maerl	U1	U1	Yes	None (Annex V)	Location, extent and condition of NI maerl beds poorly known. 16 = 10% of known UK sites.
9.	<i>Lutra lutra</i> Otter	FV	FV	Yes	5 SACs (Annex II)	No formal permanent surveillance. Probably better than proportionate population.
10	<i>Lycopodium</i> spp. Clubmosses	U1	U1	Part	None (Annex V)	One species which occurs on one site.
11	<i>Margaritifera margaritifera</i> Freshwater pearl mussel.	U2	U2	Yes	3 river SACs (Annex II and V)	NI = 5 sites = 3.8% of UK. 3 ASSIs to be designated. No systematic and permanent scheme.
12	<i>Martes martes</i> Pine marten	FV	FV	No	None (Annex V)	Survey in 2004 but no systematic and permanent surveillance
13	<i>Myotis daubentonii</i> Daubenton's bat	FV	FV	AI all bats	None (Annex IV)	No systematic or permanent scheme. Significant population.
14	<i>Myotis mystacinus</i> Whiskered bat	XX	XX	AI all bats	None (Annex IV)	No systematic or permanent scheme. Significant population.
15	<i>Myotis nattereri</i> Natterer's bat	FV	FV	AI all bats	None (Annex IV)	No systematic or permanent scheme. Significant population.
16	<i>Nyctalus leisleri</i> Leisler's bat	XX	XX	AI all bats	None (Annex IV)	No systematic or permanent scheme. Significant population.
17	<i>Petromyzon marinus</i> Sea lamprey	U1	U1	No	None (Annex II)	WFD monitoring by Fisheries Agencies – need MoU.
18	Phymatholithon calcareum Maerl	U1	U1	Yes	None (Annex V)	Location, extent and condition of NI maerl beds poorly known. 16 = 10% of known UK sites.
19	Pipistrellus nathusii	XX	XX	AI	None	No systematic or

	Nathusius' Pipistrelle			all bats	(Annex IV)	permanent scheme. Significant population.
20	<i>Pipistrellus pipistrellus</i> Common Pipistrelle	FV	FV	AI all bats	None (Annex IV)	No systematic or permanent scheme. Significant population.
21	<i>Pipistrellus pygmaeus</i> Soprano pipistrelle	XX	XX	AI all bats	None (Annex IV)	No systematic or permanent scheme. Significant population.
22	<i>Plecotus auritus</i> Brown long-eared bat	FV	FV	AI all bats	None (Annex IV)	No systematic or permanent scheme. Significant population.
23	<i>Rana temporaria</i> Common frog	FV	FV	No	None (Annex V)	No systematic or permanent scheme.
24	<i>Vertigo geyeri</i> Geyer's whorl snail	FV	FV	Yes	None (Annex II)	Recent NI surveys ((2006) but no systematic and permanent scheme.

Adopting the ecosystem approach at landscape level

We propose to apply and embed the ecosystem approach by developing a more holistic to protect and manage the environment. This investment in valuing the ecosystem services will demonstrate that our society benefits through health and well-being outcomes. This investment will also raise awareness of their value to the Northern Ireland economy and its future prosperity. Natural capital in the wider countryside will be enhanced by establishing landscape scale ecological networks to conserve biodiversity through improved connectivity between designated sites and Natura 2000 habitat types and species and to sustain healthy ecosystems which will be more resilient to the effects of climate change and provide the ecosystems services which contribute to the well-being of our society and the economy.

We propose to develop strong partnerships to protect and promote recognition of landscapes as assets which provide the basis for tourism; to deliver on the management of special landscapes; to provide sustainable and managed outdoor recreation opportunities; and to develop and deliver local biodiversity action plans.

We will undertake research to integrate the ecosystem approach into the development of policy. This core evidence will benchmark the value and benefits of the ecosystem approach. We will publish guidance based on the evidence to advise developers and other key stakeholders and activities that directly impact on Natura 2000, especially those who regulate development, to encourage them to minimise adverse impacts on habitats and species and to provide for biodiversity where possible.

G Description of key measures to achieve priorities

G.1.a General Priority Measures for Natura 2000

Type of activity	Description of measure	Target species/habitats/sites	Potential Financing sources*
Implementation of management schemes and agreements with owners and managers of land or water to follow particular prescriptions.	An agri-environment scheme for the next RDP period 2014-2021 is currently being developed, and the parameters will be set by the outcome of CAP Reform. The current agri-environment scheme 2007-2013 prioritises habitats in line with Department of Environment targets, and it is envisaged that the next scheme will do similar. Agri-environment measures: wild-life friendly production methods, habitat restoration on agricultural land, extensive livestock breeding, conservation of meadows, farm waterway and riparian zone management, field boundary restoration.	Priority habitats and sites will include Natura 2000 land and other designated sites. Targeted species will include those identified under Northern Ireland species action plans.	EAFRD
Running costs of management bodies (maintenance of buildings and equipment)	To support management bodies who own or have responsibility for the management of Natura 2000 including: running costs incurred to meet depreciation of infrastructure, consumables, travel expenses, rents and leases etc.	Not linked to particular ecosystem, land category types, species or site	ESF, LIFE, National public

*Funding sources: EAFRD; ERDF, EFF; ESF, LIFE, National public, Private sources

G.1.b Priority Measures for Natura 2000 agricultural and forest habitats and species

Type of activity	Description of measure	Target species/habitats/sites	Potential Financing sources*
Implementation	Agri-environment measures: wild-life friendly	Priority habitats and sites will	EAFRD
of management	production methods, habitat restoration on	include Natura 2000 land and	
schemes and	agricultural land, appropriate livestock	other designated sites.	
agreements with	management in the hills and upland areas,		
owners and	conservation of meadows, farm waterway and	Targeted species will include	
managers of land	riparian zone management, field boundary	those identified under Northern	
or water to	management.	Ireland species action plans.	
follow particular			
prescriptions.	In the next round of funding an integrated		
	scheme for forest habitats will be implemented.		
	All of the above will be based on development		
	of management plans		

Type of activity	Description of measure	Target species/habitats/sites* summary provided here – more detailed info on habitats and species available if required	Potential Financing sources*
Scientific studies/inventorie s for the identification of sites – surveys, inventories,	Scientific studies, research personnel, workshops and meetings, creation of databases etc. Repeat Northern Ireland Countryside Survey. Support review of conservation objectives.	See F3 above for habitats and species needing additional surveys etc.	EAFRD/LIFE
mapping, condition	Define concept of managing for ecological		

outcomes.		
Prepare and/or update of management and action plans, land use plans etc. (<i>Habitat management plans, hydrology</i> <i>management plans, grazing plans, species</i> <i>management plans, recreation management</i> <i>plans</i>)	Natural and semi-natural habitats and species - see F3 above SPA birds Birds of uplands Birds of woodland and scrub Birds of lowland wet grasslands Birds of lowland heaths and fens Birds of lowland dry grassland Birds of farmland	Agri-environment
Including costs incurred for the organisation of meetings and workshops, publication of consultation outcomes, financial support of stakeholders, improving communications, advisory support services etc (<i>Grassland management plan, address</i> recreational use issues, public meetings	Habitats SPA birds	EAFRD/INTERREG V/PEACE IV
meetings with landowners and managers regarding habitat management for SPA birds and persecution of birds of prey)		
Review and updating of management plans and strategies (<i>e.g. grassland management plans, hydrological</i>	All habitats	LIFE
	plans, land use plans etc. (Habitat management plans, hydrology management plans, grazing plans, species management plans, recreation management plans) Including costs incurred for the organisation of meetings and workshops, publication of consultation outcomes, financial support of stakeholders, improving communications, advisory support services etc (Grassland management plan, address recreational use issues, public meetings, meetings with landowners and managers regarding habitat management for SPA birds and persecution of birds of prey) Review and updating of management plans and strategies	plans, land use plans etc.and species - see F3 above(Habitat management plans, grazing plans, species management plans, recreation management plans)SPA birds Birds of uplands Birds of uplands Birds of lowland wet grasslands Birds of lowland heaths and fens Birds of lowland dry grassland Birds of lowland dry grassland Birds of farmlandIncluding costs incurred for the organisation of meetings and workshops, publication of consultation outcomes, financial support of stakeholders, improving communications, advisory support services etcHabitats SPA birds(Grassland management plan, address regarding habitat management for SPA birds and persecution of birds of prey)SPA birdsReview and updating of management plans, hydrologicalAll habitats

	recreational disturbance, hydrological issues)		
Staff (conservation/proj ect officers, wardens/rangers, workers)	Ongoing staff costs, marine rangers (site management staff)	All habitats	LIFE
Conservation management measures – maintenance and improvement of habitats' favourable conservation status	Including restoration work, provision of wildlife passages, management of specific habitats, and preparation of management plans. (e.g. Conservation objectives review and update, peatland rewetting, woodland management, heathland management including cutting and burning, grazing management including stocking rates, dunging and trampling, diffuse water pollution plans, hydrological management)	All habitats	Agri-environment
Conservation management measures – maintenance and improvement of species' favourable conservation status	Including restoration work, provision of wildlife passages, management of specific species (flora and fauna) and plans. (e.g. woodland management, grazing management including stocking rates, dunging and poaching, maintenance/increase of dead wood for beetles, recreation management to avoid damage and disturbance to fragile species, maintenance of early successional habitat, implementation of Diffuse Water Pollution Plans to avoid enrichment, roosting commuting and foraging habitat management for bats; maintenance of confidentiality about locations,	Non-avian species see F3 above SPA birds Birds of uplands Birds of woodland and scrub Birds of lowland wet grasslands Birds of lowland heaths Birds of lowland dry grassland Birds of farmland	Agri-environment, CES

	management of recreation impacts, hydrology management)		
Conservation Management measures in relation to invasive alien species (IAS)	Including restoration work, infrastructure, management of specific species, and preparation of management plans. (e.g. pennywort, rhododendron, <u>Cotoneaster</u> , self-seeding trees)	Marine species, e.g.: Leathery sea squirt Carpet sea squirt Spartina Slipper limpet (Crepidula) Biosecurity measures to prevent further IAS	EFF
Implementation of management schemes and agreements with owners and managers of land or water to follow particular prescriptions	Agri-environmental measures: e.g. wildlife- friendly production methods, habitat restoration on agricultural land, extensive livestock breeding, conservation of meadows, etc. Forest-environmental measures: e.g. creation of exploitation-free zones, retention of dead wood, control or eradication of invasive alien species, afforestation or reforestation activities management of specific vegetation, etc.	All habitats and species	Agri-environment
Monitoring and surveying	Refers mainly to one-off survey costs related to monitoring and surveying activities, e.g. development of monitoring plans, methods and equipment and training of personnel. (e.g. Northern Ireland Countryside Survey, other national survey programmes to clarify species distribution)	See F3 above	LIFE

Site Surveillance	Includes ongoing surveillance, wardening and patrolling activities.	All habitats	LIFE/INTERREG
	(e.g. investigation of species fluctuations, sources of pollution, hydrological investigation, continuing work on the National Bat Monitoring Programme [NBMP])		
Training and education	Including production of handbooks, seminars, workshops and communication materials.	All habitats and species	Integrated Life Projects/INTERREG
Infrastructure needed for habitat or species restoration	Equipment acquisition and installation (Measures to enable appropriate grazing e.g. fencing, water supply, housing. water level management)	All habitats and species	Structural funds/Integrated Life Projects/INTERREG
Infrastructure for public access, interpretation, observatories and kiosks, etc.	Infrastructure for public use that is conducive to environmental protection and management (Appropriate public access provision which ensures that any development does not result in the destruction or fragmentation of habitats; and to avoid/decrease disturbance to sensitive sites/species)	All habitats and species	Structural funds/Integrated Life Projects/INTERREG

The following is the proposed programme for agri-environment funding in Northern Ireland taken from the lead competent authority for agricultural ecosystem support (taken from the Department of Agriculture and Rural Development). This is valuable support from the Northern Ireland agriculture sector for supporting Natura 2000 targets.

Thematic Objective	Activity	Output	Result
 Strengthening research, technological development and innovation. Key Actions for EAFRD 	Business Development groups to include support to young farmers.	Using evidence to target key environmental outcomes through appropriate environmental management.	EU Biodiversity Strategy targets 1 and 2 delivered and monitored through Favourable Conservation Status.
 Cooperation between agriculture, food, forestry and forestry sectors. Pilot projects, development of new products, practices, processes and technologies, including introduction of low carbon and green technologies. Establishment and use of advisory services to improve economic and environmental performance. Setting up of operational group as part of the European Innovation Partnership for agricultural productivity and sustainability. 	 Research, Knowledge and Technology Transfer Farms (RKTTF). Study tours Use of Nature Reserves to demonstrate best practice. 	Number of farmers participating in appropriate environmental management schemes and utilising TT farms to deliver.	Improved environmental and economic performance
2. Enhancing access to, use and quality of information and communication technologies.	Broadband infrastructure	Population supported by broadband / internet	Rural population benefiting from new or improved IT structures
 Key Actions for EAFRD Enhancing the accessibility, use and quality of ICT in rural areas accessible to all through, The creation, improvement and expansion of broadband infrastructure, ICT applications in support of the sustainability and competitiveness of rural areas and agriculture and food processing, E-content relevant to the development of rural tourism Promotion of digital competence outside education systems among farmers, forestry managers and rural businesses. 			

•			
3. Enhancing the competiveness of SME's, the agricultural sector and the fisheries and aquaculture sector.	Business start-up aid for young farmers and new entrants to farming.	Number of new farm businesses benefiting from start-up grants	Jobs created in supported projects
Key Actions for EAFRD Promote competiveness in the agricultural sector by facilitating restructuring and generational renewal through,	Investing in farm business development	Number of existing farm businesses benefiting from capital support	Changes in agricultural output of supported farms.
 Supporting financial instruments for agriculture, forestry, food-processing and rural SMEs. Investments to improve the performance of an agricultural holding, processing, marketing and development of agricultural products and development and adaptation of agriculture. Business start-up aid for young farmers. 	Processing and marketing grant scheme	Number of agri-food businesses benefiting from capital support	Number of enterprises introducing new products and/or techniques
 Promote food chain organisation through Improve the interface between primary producers and processors, support for quality schemes, promotion activities, short supply chains and producer groups. Promote risk management 			
 4. Supporting the shift towards a low-carbon economy in all sectors. <u>Key Actions for EAFRD</u> Increasing efficiency in energy use in agriculture and 	Biomass Processing Challenge Fund.	projects.	Number of operational projects achieving a carbon saving of at least 35% over conventional fossil fuel use.
 food processing through, Investments in more energy-efficient buildings, facilities, advice on energy efficiency. 	Manure Efficiency Technology Scheme (METS).	received investment support.	Number of farm businesses adopting new environmental systems equipment.
The supply and use of renewable sources of energy and of by products, wastes, residues and other non- food raw material for the purposes of the bio-economy	Nutrient efficiency scheme.	Number of nutrient management plans developed.	Percentage of land covered by nutrient management plans.
 through, Investments in on-farm production of renewable energy, pilot projects for improving by-product use, 	Afforestation works and investments in forests.	·	Forest or other wooded area under management contracts contributing to carbon

investments in new forestry technologies for the processing of biomass, investments in renewable energy infrastructures in rural areas.			sequestration.
 Reducing nitrous oxide and methane emissions from agriculture through, Support for lower use of nitrogen fertilisers, improved livestock management practices, support for more climate friendly crop rotations. 	Development of Environmental Risk Management systems	Certificates of competence under the Environment scheme	Increased efficiency and reduction of pollution
 Fostering carbon sequestration and emission reduction in agriculture and forestry through, Forest planting and maintenance Climate friendly management of new and existing forests, Establishing or maintaining healthy grassland and maintaining peatlands. 	Promotion to farmers of alternative crops and management which recognise carbon sequestration and soil carbon benefits	Land managed to deliver carbon as well as 'production' benefits	Enhanced carbon storage (reduction in loss of carbon from poorly managed land (more forests, peatlands in good condition, increased health of semi-natural grasslands, agroforestry, etc. with multiple outputs
 5. Promoting climate change adaptation and risk prevention and management. <u>Key Actions for EAFRD</u> Support for the improvement of sustainable water management (with regard to ecosystems) through, Creation of on-farm water storage zones, water-efficient cropping patterns, management of forest protection belts against erosion. Support for improving soil management through, Support for practices preventing soil degradation such as low tillage, winter green cover and agroforestry. Ensure a high potential for adaptation to climate change and diseases and maintain genetic diversity especially via supporting local crop varieties and livestock breeds. 	Encouraging whole farm management plans which target carbon conservation activities Application of ecosystem services (water purification, designated site management, biodiversity, tourism) Increased efficiency and income Development of farming techniques that reduce carbon release and promote sequestration Reduced loss of carbon Sustainable farm production Supporting the use of native breeds of cattle and sheep, grazing extensively on grassland. Resilient local sources of meat and milk Encouraging diversity and better carbon storage/reduced loss. Encouraging diversity of land management techniques Reduced likelihood of disease outbreaks in monocultures. Security of supply Promoting the net benefits of an integrated farm management Clear communications strategy that provides farmers with straightforward practical advice Understanding and application of whole farm management		anagement, biodiversity, tourism) note sequestration vely on grassland.

	Encouragement of 'river boundary' to Dissipation of flood waters before flo Increased wetland biodiversity and to	poding of occupied areas	
 6. Protecting the environment and promoting resource efficiency. <u>Key Actions for EAFRD</u> Restoring and preserving biodiversity, including NATURA 2000 areas and high-nature value farming 	Agri-environment Scheme.	Total number of contracts. Percentage of designated sites under environmental improvement schemes.	Monitoring of Favourable Conservation Status. Restoration and preservation of biodiversity including Natura 2000 achieved.
 areas and the state of European Landscapes through, Promoting environmentally sound farming systems including organic farming, establishing or maintaining wildlife zones in farm and/or forest areas, compensation for economic disadvantages faced in relation to NATURA 2000 areas and official wildlife corridors, payments to farmers who 	Woodland expansion option. Forestry Plantation Scheme.	Total public expenditure.	Forest or other wooded area under management contracts supporting biodiversity. Restoration and preservation of biodiversity including Natura 2000 achieved.
undertake to pursue farming activity in areas facing significant natural constraints.	Organic Farming Scheme.	Total number of contracts.	Area under organic management.
Increasing efficiency in water use by agriculture through investment in water saving and efficient irrigation practices	Areas of Natural Constraint. Development of agri-environment schemes including where appropriate compensation to farmers where land is managed to achieve a positive ecological outcome.	Number of supported holdings in areas of natural constraint and number of farmers in agri- environment schemes delivering ecological outcomes.	Area under successful agricultural land management through monitoring of Favourable Conservation Status. Restoration and preservation of biodiversity including Natura 2000 achieved.
 Promoting sustainable transport and removing bottlenecks in key network infrastructures. <u>Key Actions for EAFRD</u> None stated for EAFRD 		No EAFRD activity identified.	
 8. Promoting employment and supporting labour mobility. Key Actions for EAFRD 	Business start-up aid for rural businesses including farm diversification.	Number of new businesses benefiting from start-up grants	Jobs created in supported projects.
Facilitating diversification from the agricultural sector, creating new small enterprises and other forms of job	Investing in rural business development.	Number of existing rural businesses benefiting from capital	Changes in output of supported businesses.

 creation in rural areas, through, Business start-up aid for non-agricultural micro- and small enterprises in rural areas and investments in non-agricultural activities in rural areas. 		support	
 9. Promoting social inclusion and combating poverty. <u>Key Actions for EAFRD</u> Fostering local development in rural areas. Support to LEADER local development, preparation and implementation of local development strategies, co-operation among territories and groups. 	 Anti-poverty and social inclusion programme Fuel poverty / housing. Access to health Support for childcare places 	Total Public expenditure	Rural population benefiting from new or improved services infrastructures.
Investments in all types of small scale infrastructure in rural areas and setting up, improvement or expansion of local basic services for the rural population especially in remote rural areas Actions aimed at improving the quality of life in an attractiveness of rural settlements (village renewal).	 Environmental enhancement, performance and sustainability including Natura and HNVFs Village renewal Rural transport 		Maintain and restore ecosystems and their services (FCS)
 Investing in education and skills and lifelong learning. <u>Key Actions for EAFRD</u> Fostering lifelong learning and vocational training in the agricultural and forestry sectors through, Vocational training and skills acquisition in areas such as farm management, sustainable agricultural practices, quality improvements and the use of new technologies specific to agriculture and forestry and environmental management. Demonstration activities to transfer knowledge between farmers about new practices, information and short-term exchanges and visits within the EU to promote the exchange of good farm and forestry 	 Business development support Land based development programme for young people based on farms, equine and horticulture businesses. Business development groups Healthy livestock – healthy bank balance Milk Quality Business development support for SMEs 	Number of participants	Number of participants working towards/achieving a qualification. Number of new technologies adopted. Improvement in milk quality. Improve favourable conservation status

management practices and environmental management	Environmental management	
• Lifelong learning and vocational training in rural areas in general e.g. training on business management or other skills necessary to diversify out of the sector.		

Type of activity	Description of measure	Target species/habitats/sites	Potential Financing sources*
Implementation of management schemes and agreements with owners and managers of land or water to follow particular prescriptions.	Agri-environment measures: conservation of coastal habitats and species. Management plans for marine Natura 2000	 Priority habitats and sites will include Natura 2000 and other designated sites. Integration of Marine Protected Areas (SAC, SPA, Marine Conservation Zones, OSPAR and RAMSAR sites) into an ecologically coherent network. Targeted species will include those identified under Northern Ireland species action plans. 	EAFRD/EFF
Conservation management measures – maintenance and improvement of habitats' favourable conservation status?	Including restoration work, provision of wildlife passages, management of specific habitats, and preparation of management plans.	Marine, coastal and halophytic habitats Coastal sand dunes and continental dunes SPA seabirds	National public. Potential for EU funding support e.g. through LIFE.
needed for habitat or species			

G.1.c Priority Measures for Natura 2000 marine and coastal habitats and species

restoration?			
Compensatory			
measures to			
offset coastal			
squeeze losses at			
European sites			
Scientific	Scientific studies, research personnel, workshops	Vertebrate species: mammals	EFF/LIFE
studies/inventorie	and meetings, creation of databases etc.	(marine)	
s for the			
identification of	(E.g. identification of additional marine	Higher Plants	
sites – surveys,	protected areas)		
inventories,		Work on Marine Strategy	
mapping,		Framework Directive descriptors	
condition		e.g. biodiversity, food webs, marine	
assessment		litter etc.	
Preparation of	Elaboration and/or update of management and	Marine, coastal and halophytic	EFF/LIFE
management	action plans, land use plans etc.	habitats	
plans, strategies			
and schemes	(Appropriate fisheries management measures to	Rocky habitats and caves	
(including	be put in place by end 2016 to address outcomes		
scientific studies	of assessment under Article 6 of the Habitats	SPA birds	
and	Directive)	Birds of coastal habitats	
investigations		Birds of estuarine habitats	
needed for		Birds of open sea and offshore	
planning and		rocks	
implementation			
based on solid			
knowledge)		Marine associated to 11, 1, 1, 1	
Consultation –	Including costs incurred for the organisation of	Marine, coastal and halophytic	Structural funds/Integrated
public meetings,	meetings and workshops, publication of	habitats	Life Projects/INTERREG
liaison with	consultation outcomes, financial support of		

landowners	stakeholders, etc. Can include networking	Coastal sand dunes and continental	
and/or fishermen	activities (travel, meetings and workshops).	dunes	
		SPA birds	
	Compensatory measures to encourage fishermen	Birds of coastal habitats	
	to diversify into less destructive activities such	Birds of estuarine habitats	
	as marine wildlife tourism, artesenal fishing,	Birds of open sea and offshore	
	sub-aqua, sustainable seaweed harvesting.	rocks	
	(Consultation to overcome public and political	Vertebrate species: mammals	
	hostility to controversial coastal management,	(marine)	
	bringing together and applying existing	S1364 Halichoerus grypus, grey	
	examples of good practice. Also relevant to	seal	
	marine habitats and species, e.g. working with	S1365 Phoca vitulina, common	
	local stakeholders to monitor effectiveness of	seal	
	voluntary agreement in place to prevent shooting		
	of seals)		
Conservation	Including restoration work, provision of wildlife	Coastal sand dunes	LIFE
management	passages, management of specific habitats, and		
measures – maintenance and	preparation of management plans		
	(E. a. non-overl of plantation woodland proventing		
improvement of habitats'	(E.g. removal of plantation woodland preventing natural landward rolling of dune systems,		
favourable	investment in livestock grazing, scrub/woodland		
conservation	clearance, sensitive dune excavations, active re-		
status	mobilisation of some dunes)		
Conservation	Including restoration work, provision of wildlife	Invertebrate species: arthropods	LIFE
management	passages, management of specific species (flora		
measures –	and fauna) and plans.	Higher Plants	
maintenance and	and funder printer		
improvement of	E.g. replanting of food sources for coastal	SPA birds	
species'	species affected by coastal squeeze, management	Birds of coastal habitats	

favourable conservation status	of recreational activities including coastal access and fishing to avoid disturbance of sensitive species, maintenance of natural coastal processes mitigate coastal squeeze including delivering managed realignment, management of predation of eggs and chicks e.g. through partnership with RSPB current LIFE bid.	Birds of estuarine habitats	
Implementation of management schemes and agreements with owners and managers of land or water to follow particular prescriptions.	 Includes: Agri-environmental measures, e.g. wildlife- friendly production methods, habitat restoration on agricultural land, extensive livestock breeding, conservation of meadows, etc Forest-environmental measures, e.g. creation of exploitation-free zones, retention of dead wood, control or eradication of invasive alien species, afforestation or reforestation activities, management of specific vegetation, etc. Aqua-environmental measures, e.g. habitat maintenance in aquaculture zones etc. (relates to aquaculture rather than fishing). 	Higher Plants	EEF/EAFRD
Monitoring and surveying	Refers mainly to one-off costs related to monitoring and surveying activities, e.g. development of monitoring plans, methods and equipment and training of personnel. (<i>There remain a significant proportion of</i> <i>features unassessed or lacking baselines across</i>	Marine, coastal and halophytic habitats Coastal sand dunes Rocky habitats and caves Vertebrate species: mammals (marine)	Structural funds/Integrated Life Projects/INTERREG/Nation al public

	their distribution in marine Natura 2000 sites. See F3 above. Further monitoring/surveillance are needed to fill in these gaps. Development of understanding of atmospheric Nitrogen Deposition, water tables, and soil chemistry impacts on dune systems)	S1364 Halichoerus grypus, grey seal S1365 Phoca vitulina, common seal S1349 Tursiops truncates, Bottlenose dolphin S1351 Phocoena phocoena, harbour porpoise	
Site surveillance	Includes ongoing surveillance, wardening and patrolling activities. Can include personnel costs, consumables, travel etc in order to implement surveillance and guarding activities, including surveillance to control harmful recreational or economic activities and protect against wildfires.	Coastal sand dunes Marine, coastal and halophytic habitats Invertebrate species	Structural funds/Integrated Life Projects/INTERREG/Nation al public
Training and education	Including production of handbooks, seminars, workshops and communication materials (<i>E.g. education to address public and political</i> <i>hostility to controversial coastal management,</i> <i>bringing together and applying existing</i> <i>examples of good practice</i>)	Marine, coastal and halophytic habitats Coastal sand dunes	Structural funds/Integrated Life Projects/INTERREG/Nation al public
Infrastructure needed for habitat or species restoration	Includes an array of measures for the creation of specific infrastructure for the management of the environment, e.g. for water management in peat bogs and mines. Can include equipment acquisition (for equipment relevant to the running of protection and management institutions such as office and IT equipment,	Marine and coastal habitats	Structural funds/Integrated Life Projects/INTERREG/Nation al public

monitoring materials, boats, diving equipment, cameras, survey vessels, hydrophone arrays between NI and Scotland and in waters shared between NI and RoI etc)	

Type of activity	Description of measure	Target species/habitats/sites	Potential Financing sources*
Implementation of management schemes and agreements with owners and managers of land or water to follow particular prescriptions. Risk management (fire prevention and control, flooding etc)	Agri-environment measures: wild-life friendly production methods, habitat restoration on agricultural land, extensive livestock breeding, encourage farming practices which lead to carbon sequestration Preparation of wardening and fire- control plans and the development of relevant infrastructure in areas of high fire risk.	Priority habitats and sites will include Natura 2000 land and other designated sites. Targeted species will include those identified under Northern Ireland species action plans. All peatland habitats	EAFRD EAFRD, LIFE, National public
Consultation – public meetings, liaison with landowners	Including costs incurred for the organisation of meetings and workshops, publication of consultation outcomes, financial support of stakeholders, etc. Can include networking activities (travel, meetings and workshops). (<i>E.g. working with</i> <i>enforcement/regulatory bodies to address</i> <i>poaching issues, working with</i> <i>stakeholders to revise some protected site</i> <i>boundaries, working with NGOs on</i> <i>developing and implementing a</i> <i>monitoring plan and to develop and</i> <i>implement a species recovery plan</i>)	Invertebrate species: molluscs S1029 Margaritifera margaritifera, Freshwater pearl mussel Vertebrate species: amphibians & reptiles Vertebrate species: mammals (terrestrial) S1355 Lutra lutra, otter	

Conservation management measures – maintenance and improvement of habitats' favourable conservation status	Including restoration work, provision of wildlife passages, management of specific habitats, and preparation of management plans.	Rivers & Streams Bogs Fen Standing Open Water	Agri-environment
Conservation management measures – maintenance and improvement of species' favourable conservation status	Including restoration work, provision of wildlife passages, management of specific species (flora and fauna) and plans.	Invertebrate species: molluscs <i>S1013 Vertigo geyeri, Geyer's whorl</i> <i>snail</i> <i>S1014 Vertigo angustior, Narrow-</i> <i>mouthed whorl snail</i> <i>S1029 Margaritifera margaritifera,</i> Freshwater pearl mussel Invertebrate species: arthropods <i>S1092 Austropotamobius pallipes,</i> White-clawed crayfish SPA birds Birds of lowland freshwaters and their margins Freshwater Fish Species <i>S1095 Petromyzon marinus</i> Sea Lamprey; <i>S1099 Lampetra fluviatilis</i> River Lamprey; <i>S1096 Lampetra planeri</i> Brook Lamprey; <i>S1106</i> <i>Salmo salar</i> Atlantic Salmon;	Agri-environment

		SXXXX Coregonus autumnalis Pollan Vertebrate species: mammals (terrestrial) S1355 Lutra lutra, otter Higher Plants S1421 Trichomanes speciosum Killarney Fern	
Conservation management measures in relation to invasive alien species (IAS)	Including restoration work, infrastructure, management of specific species, and preparation of management plans.	Rivers & streams: Fen, Marsh & Swamp: Standing Open Water: Invertebrate species: arthropods S1092 <i>Austropotamobius pallipes</i> , White-clawed crayfish Higher Plants	Agri-environment
Implementation of management schemes and agreements with owners and managers of land or water to follow particular prescriptions.	 Includes: Agri-environmental measures, e.g. wildlife-friendly production methods, habitat restoration on agricultural land, extensive livestock breeding, conservation of meadows, etc Forest-environmental measures, e.g. creation of exploitation-free zones, retention of dead wood, control or eradication of invasive alien species, 	Rivers & streams Bogs Fen, Marsh & Swamp Standing Open Water Invertebrate species: molluscs S1013 Vertigo geyeri, Geyer's whorl	Agri-environment

Provision of services:	afforestation or reforestation activities, management of specific vegetation, etc. Aqua-environnemental measures, e.g. habitat maintenance in aquaculture zones etc. (relates to aquaculture rather than fishing). Costs of compensation, e.g. to farmers,	snail S1014 Vertigo angustior, Narrow- mouthed whorl snail Vertebrate species: mammals (terrestrial) S1355 Lutra lutra, otter Freshwater Fish Species S1095 Petromyzon marinus Sea Lamprey; S1099 Lampetra fluviatilis River Lamprey; S1096 Lampetra planeri Salmon; S1102 Alosa alosa Allis Shad SXXXX Coregonus autumnalis Pollan SPA birds Birds of lowland freshwaters and their margins All habitats	Agri-environment
compensation for rights foregone and loss of income and developing acceptability 'liaison' with neighbours	foresters or other land owners or users for income forgone as a result of management prescriptions needed for Natura 2000.		Agn-environment
Monitoring and surveying	Refers mainly to one-off costs related to monitoring and surveying activities, e.g. development of monitoring plans,	Invertebrate species: molluscs S1013 Vertigo geyeri, Geyer's whorl snail	LIFE

	methods and equipment and training of personnel.	S1014 Vertigo angustior, Narrow- mouthed whorl snail	
Site surveillance	Includes on-going surveillance, wardening and patrolling activities. Can include personnel costs, consumables, travel, etc in order to implement surveillance and guarding activities, including surveillance to control harmful recreational or economic activities and protect against wildfires.	Vertebrate species: mammals (terrestrial) S1355 <i>Lutra lutra</i> , otter S1106 <i>Salmo salar</i> Atlantic Salmon	LIFE
Training and education	Including production of handbooks, seminars, workshops and communication materials.	Vertebrate species: mammals (terrestrial)	Structural funds/Integrated Life Projects/INTERREG/National public
Land purchase, including compensation for development rights	Land purchase to achieve environmental protection and management schemes. (Land acquisition to protect hydrological integrity of sites; land acquisition to protect river movement)	All habitats:	Structural funds/Integrated Life Projects/INTERREG/National public

G.2 Other priority measures

G.2.a Priority measures for securing ecosystem benefits of Natura 2000, especially in relation to climate change mitigation and adaptation

Type of activity	Description of measure	Target species/habitats/sites	Potential Financing sources*
Implementation of	Agri-environment measures: encourage	Priority habitats and sites will include	EAFRD
management schemes	farming practices which lead to carbon	Natura 2000 land and other designated	
and agreements with	sequestration and a reduction in	sites.	
owners and managers	greenhouse gases.		
of land or water to		Targeted species will include those	
follow particular		identified under Northern Ireland species	
prescriptions.		action plans.	
Carbon sequestration	Measures to enhance carbon soils	Organic soil habitats	LIFE
Conservation	Restore hydrology of raised bogs and fens.	Lowland and upland wetland sites	Private funds: Potential to
management measures		(Habitats 7120, 7130, 7140, 7150, 7210,	develop carbon offset/credits
– maintenance and		7230)	system to part-fund this
improvement of			wetland restoration.
habitats' favourable			
conservation status			Private funds: Interest from
			water supply sector in upland
Implementation of			restoration to improve water
management schemes			quality may allow private
and agreements with			sector funds to be combined
owners and managers			with public funds
of land or water to			
follow particular			Structural funds/Integrated
prescriptions.			Life
			Projects/INTERREG/National
Provision of services:			public
compensation for rights			
foregone and loss of			

income and developing			
acceptability 'liaison'			
with neighbours			
Conservation	Restoration of lowland fen peat habitats in	7120, 7230	As above
management measures	previously drained areas	, , , , , , , , , , , , , , , , , , , ,	
– maintenance and			
improvement of	Reinstating semi-natural hydrology would		
habitats' favourable	encourage peat formation to sequester		
conservation status	carbon (mitigation) and store greater		
	volumes of water potentially reducing		
	flood risk and increasing available water		
	during dry periods (adaptation).		
Conservation	Floodplain restoration and reconnection	River habitats	Flood risk management
management measures			budgets combined with agri-
– maintenance and			environment
improvement of			
habitats' favourable			Structural funds/Integrated
conservation status			Life
			Projects/INTERREG/National
Implementation of			public
management schemes			
and agreements with			
owners and managers			
of land or water to			
follow particular			
prescriptions.			
Provision of services:			
compensation for rights			
foregone and loss of			
income and developing			
1 0			
acceptability 'liaison'			

with neighbours			
Conservation	Managed realignment of coastal flood	Sedimentary coastal habitats, in particular	National funds: Coastal flood
management measures	defences	mudflats and saltmarsh (1140, 1310,	risk management budgets
– maintenance and		1320, 1330) but also dunes	
improvement of	By moving or removing hard engineered		
habitats' favourable	coastal defences and allowing natural		
conservation status	processes to develop new coastal habitats can be created sequestering carbon		
Implementation of	(<i>mitigation</i>) and providing natural flood		
management schemes	and erosion protection (adaptation)		
and agreements with			
owners and managers			
of land or water to			
follow particular			
prescriptions.			
Provision of services:			
compensation for rights			
foregone and loss of			
income and developing			
acceptability 'liaison'			
with neighbours	XX7 11 1	XX7 11 1	
Conservation	Woodland management	Woodlands	Structural funds/Integrated Life
management measures – maintenance and	Reinstating traditional management has		Projects/INTERREG/National
improvement of	the potential to restore favourable		public
habitats' favourable	condition and sequester carbon		puolie
conservation status	(mitigation)		
Implementation of			
management schemes			
and agreements with			

owners and managers of land or water to follow particular prescriptions.			
Scientific studies	Identify the contribution of Natura 2000 sites to ecosystem services.	Not linked to particular ecosystem or land category types	LIFE, National public
Conservation management measures	Develop priorities for landscape scale conservation and develop and implement a framework for the identification and protection of local wildlife sites and ecological networks (green infrastructure) to assist with the functioning and connectivity between Natura 2000 sites.	Not linked to particular ecosystem or land category types	LIFE, National public

Type of activity	Description of measure	Target species/habitats/sites	Potential Financing sources*
Maintenance of facilities for public access and	Including costs relating to guides, maps, related personnel	All	Structural funds/Integrated Life Projects/INTERREG/National public/LEADER/national funding
use of the sites, interpretation, observatories and kiosks etc.	To provide maintenance of public access routes within Natura 2000 sites with high recreational pressure.		
	Maintaining infrastructure to enable visitor access to and enjoyment of sites including access routes, car parking facilities		
	Maintaining site-based interpretation and signage that enables visitors to understand site and the opportunities to experience these		
Training and education	Including production of handbooks, seminars, workshops and communication materials	All	Structural funds/Integrated Life Projects/INTERREG/National public/LEADER/EARDF/national
	Provision of apprenticeship programmes that build the pool of skilled workforce able to deliver the aims of Natura 2000 sites		funding
	Provision of training programmes to build skills amongst volunteers to contribute to Natura 2000 management and objective in Northern Ireland		

G.2.B Priority Measures for promoting sustainable tourism and employment in relation to Natura 2000

G.2.c Priority Measures to promote innovative approaches in relation to Natura 2000

Management and surveillance of sites which straddle the border between Northern Ireland and the Republic of Ireland and complementary measures between Northern Ireland and west Scotland (INTERREG and PEACE eligible programme areas).

Initial discussions have already taken place between officials from the two jurisdictions and have agreed to undertake joint working on these sites using most appropriate best practice techniques to ensure that when each MS describes a site or feature in favourable or unfavourable status exactly the same condition is being referred to.

All Annex I habitats and Annex II species in the cross-border sites in the island of Ireland will be targeted. INTERREG V and PEACE IV with national public money are potential financing sources.

Type of activity	Description of measure	Target species/habitats/sites	Potential Financing sources*
Management	Co-operation between Republic of	Transboundary (RoI/NI)	EAFRD, ERDF, EMFF, LIFE,
planning	Ireland and Northern Ireland to ensure	Natura 2000	INTERREG V, National public
	complementary management planning		
	on cross-border Natura 2000 sites		
Ongoing habitat	Implementation of agreed cross-border	Transboundary (RoI/NI)	EAFRD, ERDF, EMFF, LIFE,
management and	management measures	Natura 2000	INTERREG V, National public
monitoring			
Investment costs	Infrastructure required for management	Transboundary (RoI/NI)	EAFRD, ERDF, EMFF, LIFE,
	of cross-border Natura 2000 sites	Natura 2000	INTERREG V, possibly PEACE IV,
			National public

G.3 Summary table of priority measures per habitat type and species

Feature (habitat type or species) (* denotes priority)				Priority measure (from section G of PAF, possibly by coding)
Marin	e, Coastal & Halophytic			5, 7, 12, 17, 19, 21, 24
1110	Sandbanks which are slightly covered by sea water all the time	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1110-audit- Final.pdf	See link	
1130	Estuaries	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1130-audit- Final.pdf	See link	
1140	Mudflats and sandflats not covered by seawater at low tide	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1140-audit- Final.pdf	See link	
1150	Coastal lagoons*	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1150-audit- Final.pdf	See link	
1160	Large shallow inlets and bays	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1160-audit- Final.pdf	See link	
1170	Reefs	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1170-audit- Final.pdf	See link	
1210	Annual vegetation of drift lines	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1210-audit- Final.pdf	See link	
1220	Perennial vegetation of stony banks	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1220-audit- Final.pdf	See link	
1230	Vegetated sea cliffs of the Atlantic and Baltic coasts	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1230-audit- Final.pdf	See link	

1310	Salicornia and other annuals colonising mud and sand	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1310-audit- Final.pdf	See link	
1320	Spartina swards (Spartinion maritimae)	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1320-audit- Final.pdf	See link	
1330	Atlantic salt meadows (<i>Glauco-</i> <i>Puccinellietalia maritimae</i>)	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H1330-audit- <u>Final.pdf</u>	See link	
Coasta	al sand dunes and continental dunes			7, 12, 17, 19, 21
2110	Embryonic shifting dunes	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H2110-audit- Final.pdf	See link	
2120	Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ("white dunes")	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H2120-audit- Final.pdf	See link	
2130	Fixed dunes with herbaceous vegetation ("grey dunes")*	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H2130-audit- <u>Final.pdf</u>	See link	
2150	Atlantic decalcified fixed dunes (<i>Calluno-Ulicetea</i>)*	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H2150-audit- <u>Final.pdf</u>	See link	
2160	Dunes with <i>Hippophae rhamnoides</i>	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H2160-audit- Final.pdf	See link	
2170	Dunes with Salix repens ssp. argentea (Salicion arenariae)	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H2170-audit- Final.pdf	See link	
2190	Humid dune slacks	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H2190-audit- Final.pdf	See link	
Freshv	water habitats			5, 12, 14, 15,16, 23
3130	Oligotrophic to mesotrophic standing waters with vegetation of the <i>Littorelletea uniflorae</i> and/or of the	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H3130-audit- Final.pdf	See link	

	Isoëto-Nanojuncetea			
3140	Hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp.	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H3140-audit- Final.pdf	See link	
3150	Natural eutrophic lakes with <i>Magnopotamion</i> or <i>Hydrocharition</i> - type vegetation	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H3150-audit- Final.pdf	See link	
3160	Natural dystrophic lakes and ponds	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H3160-audit- Final.pdf	See link	
3260	Water courses of plain to montane levels with the <i>Ranunculion fluitantis</i> and <i>Callitricho-Batrachion</i> vegetation	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H3260-audit- Final.pdf	See link	
Temp	erate heath and scrub			7, 8, 11, 12, 14, 15, 24, 25
4010	Northern Atlantic wet heaths with <i>Erica tetralix</i>	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H4010-audit- Final.pdf	See link	
4030	European dry heaths	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H4030-audit- Final.pdf	See link	
Natur: forma	al and semi-natural grassland tions			5, 7, 8, 12, 13, 14, 15, 19, 24, 25
6210	Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>)	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H6210-audit- Final.pdf	See link	
6230	Species-rich <i>Nardus</i> grassland, on siliceous substrates in mountain areas (and submountain areas in continental Europe)*	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H6230-audit- Final.pdf	See link	
6410	Molinia meadows on calcareous,	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H6410-audit-	See link	

	peaty or clayey-silt-laden soils (<i>Molinion caeruleae</i>)	<u>Final.pdf</u>		
Raised	bogs and mires and fens			5, 12, 14, 15, 16, 23
7110	Active raised bogs*	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H7110-audit- Final.pdf	See link	
7120	Degraded raised bogs still capable of natural regeneration	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H7120-audit- Final.pdf	See link	
7130	Blanket bogs*	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H7130-audit- Final.pdf	See link	
7150	Depressions on peat substrates of the <i>Rhynchosporion</i>	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H7150-audit- Final.pdf	See link	
Rocky	habitats and caves			14, 15
8240	Limestone pavements*	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H8240-audit- Final.pdf	See link	
8310	Caves not open to the public	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H8310-audit- Final.pdf	See link	
8330	Submerged or partially submerged sea caves	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H8330-audit- Final.pdf	See link	
Forest	S			12, 13, 14, 15, 19, 24
9180	<i>Tilio-Acerion</i> forests of slopes, screes and ravines*	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H9180-audit- Final.pdf	See link	
91A0	Old sessile oak woods with <i>Ilex</i> and <i>Blechnum</i> in the British Isles	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H91A0-audit- Final.pdf	See link	
91D0	Bog woodland*	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-H91D0-audit- Final.pdf	See link	
Invert	brate species: molluscs			7, 13, 15, 17

1013	Vertigo geyeri	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1013-audit-Final.pdj	See link	
1014	Vertigo angustior	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1014-audit-Final.pdj	See link	
1029	Margaritifera margaritifera	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1029-audit-Final.pdj	See link	
Invert	ebrate species: arthropods			13, 14, 15, 17, 19
1092	Austropotamobius pallipes	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1092-audit-Final.pdj	See link	
Vertek	orate species: fish			5, 13, 15
1095	Petromyzon marinus	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1095-audit-Final.pdj	See link	
1096	Lampetra planeri	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1096-audit-Final.pdj	See link	
1099	Lampetra fluviatilis	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1099-audit-Final.pdj	See link	
1106	Salmo salar	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1106-audit-Final.pdj	See link	
Vertebrate species: mammals (marine)				2, 7, 17
1349	Tursiops truncatus	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1349-audit-Final.pdj	See link	
1351	Phocoena phocoena	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1351-audit-Final.pdj	See link	
1364	Halichoerus grypus	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1364-audit-Final.pdj	See link	
1365	Phoca vitulina	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1365-audit-Final.pdj	See link	
Lower plant species				13
1395	Petalophyllum ralfsii (Wils.) Nees & Gott.	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1395-audit-Final.pdj	See link	
Highe	r plant species			2, 5, 11, 13, 14, 15, 19,

1421	Trichomanes speciosum Willd.	http://jncc.defra.gov.uk/pdf/Article17/FCS2007-S1421-audit-Final.pdf	See link		
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Section H: Monitoring, evaluation and updating of PAFs

The main tools for monitoring progress of Northern Ireland's PAF will be the reporting rounds for Article 17 and Article 12 in 2013 and 2020.

We would expect to be able to update the PAF in 2014 using information from the 2013 reporting round.

This information will be used to inform future iterations of the PAF.

Success in achieving improved conservation status will inform future iterations.

Successful schemes in the first few years (2014-2017) will be extended to additional habitats and species throughout the funding period.

A successful LIFE bid, similar to that secured by England, to develop Natura 2000 management plans would further enhance the PAF process.

Code Habitat H1110 Sandbanks which are slightly covered by sea water all the time H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1150* Coastal lagoons H1160 Large shallow inlets and bays H1170 Reefs H1180 Submarine structures made by leaking gases (*see note below) H1210 Annual vegetation of stony banks H1220 Perennial vegetation of stony banks H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1310 Embryonic shifting dunes H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with Armophila arenaria "white dunes" H2130* Fixed dunes with herbaceous vegetation "grey dunes" H2130* Fixed dunes with salix repens ssp. argentea Salicion arenariae H2170 Dunes with Salix repens ssp. argentea Salicion arenariae H2170 Dunes with Salix repens structures with vegetation of the Littorelletea uniflorae and/or of the Isoéto-Nanojuncetea H3130 Oligotrophic to mesotrophic waters w	Directive.	Directive. * = priority habitat				
H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1150* Coastal lagoons H1160 Large shallow inlets and bays H1170 Reefs H1180 Submarine structures made by leaking gases (*see note below) H1170 Annual vegetation of stony banks H1220 Perennial vegetation of stony banks H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Atlantic salt meadows Glauco-Puccinellietalia maritimae H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with Ammophila arenaria "white dunes" H2130* Fixed dunes with herbaceous vegetation "grey dunes" H2150* Atlantic decalcified fixed dunes Calluno-Ulicetea H2170 Dunes with Salix repens ssp. argentea Salicion arenariae H2130 Hard oligo-mesotrophic standing waters with vegetation of the Littorelleta uniflorae and/or of the Isoéto-Nanojuncetea H3140 Hard oligo-mesotrophic waters with benthic vegetation of Lhara spp. H3160 Natural eutrophic lakes and ponds H3180* Turloughs H3180 Nutural dystrophic lakes and ponds H3180* Turl	Code	Habitat				
H1140 Mudflats and sandflats not covered by seawater at low tide H1150* Coastal lagoons H1160 Large shallow inlets and bays H1170 Reefs H1170 Reefs H1180 Submarine structures made by leaking gases (*see note below) H1120 Annual vegetation of drift lines H1220 Perennial vegetation of stony banks H1230 Vegetated sea clifts of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows Glauco-Puccinellietalia maritimae H2110 Embryonic shifting dunes H2110 Embryonic shifting dunes H2130* Fixed dunes with herbaceous vegetation "grey dunes" H2150* Atlantic decalcified fixed dunes Calluno-Ulicetea H2170 Dunes with Salix repens ssp. argentea Salicion arenariae H2190 Humid dune slacks H3130 Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea unillorae and/or of the Iso6to-Nanojuncetea H3140 Hard oligo-mesotrophic waters with benthic vegetation of Chara spp. H3160 Natural dystrophic lakes and ponds H3180* Turloughs	H1110	Sandbanks which are slightly covered by sea water all the time				
H1150* Coastal lagoons H1160 Large shallow inlets and bays H1170 Reefs H1180 Submarine structures made by leaking gases (*see note below) H1210 Annual vegetation of drift lines H1220 Perennial vegetation of stony banks H1220 Perennial vegetation of stony banks H1220 Perennial vegetation of stony banks H1210 Annual vegetation of drift lines H1210 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows Glauco-Puccinellietalia maritimae H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with Ammophila arenaria "white dunes" H2130* Fixed dunes with herbaceous vegetation "grey dunes" H2140 Enkerotic dunes with herbaceous vegetation arenariae H2170 Dunes with Salix repens ssp. argentea Salicion arenariae H2190 Humid dune slacks H3140 Hard oligo-mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoëto-Nanojuncetea H3140 Natural eutrophic lakes and ponds H3140 Natural dystrophic lakes and ponds H3140 Natural dystrophic lakes and	H1130	Estuaries				
H11160 Large shallow inlets and bays H11170 Reefs H11180 Submarine structures made by leaking gases (*see note below) H11210 Annual vegetation of drift lines H1220 Perennial vegetation of stony banks H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows Glauco-Puccinellietalia maritimae H2110 Embryonic shifting dunes H2110 Shifting dunes along the shoreline with Armmophila arenaria "white dunes" H2130* Fixed dunes with herbaceous vegetation "grey dunes" H2130* Fixed dunes with herbaceous vegetation arenariae H2170 Dunes with Salix repens ssp. argentea Salicion arenariae H2170 Humid dune slacks H3130 Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoëto-Nanojuncetea H3140 Hard oligo-mesotrophic waters with benthic vegetation of Chara spp. H3140 Natural dystrophic lakes and ponds H3140 Natural dystrophic lakes and ponds H3140 Northern Atlantic wet heaths with Erica tetralix H44030 European dry heaths	H1140	Mudflats and sandflats not covered by seawater at low tide				
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H7110*Active raised bogsH7120Degraded raised bogs still capable of natural regenerationH7130Blanket bogs						
H7130 Blanket bogs	H7110*					
H7130 Blanket bogs	H7120	Degraded raised bogs still capable of natural regeneration				
H7140 Transition mires and quaking bogs	H7130					
	H7140	Transition mires and quaking bogs				

Appendix 1: Habitats occurring in Northern Ireland included in Annex I of the Habitats Directive. * = priority habitat

H7150	Depressions on peat substrates of the Rhynchosporion		
H7210*	Calcareous fens with Cladium mariscus and species of the Caricion		
	davallianae		
H7220 *	Petrifying springs with tufa formation Cratoneurion		
H7230	Alkaline fens		
H8110	Siliceous scree of the montane to snow levels Andro etalia alpinae		
	and Galeopsietalia ladani		
H8120	Calcareous and calcshist screes of the montane to alpine levels		
	Thlaspietea rotundifolii		
H8210	Calcareous rocky slopes with chasmophytic vegetation		
H8220	Siliceous rocky slopes with chasmophytic vegetation		
H8240*	Limestone pavements		
H8330	Submerged or partially submerged sea caves		
H9180*	Tilio-Acerion forests of slopes, screes and ravines		
H91A0	Old sessile oak woods with <i>llex</i> and <i>Blechnum</i> in the British Isles		
H91D0*	Bog woodland		
H91E0* Alluvial forests with Alnus glutinosa and Fraxinus excelsior			
	Padion, Alnion incanae, Salicion albae		

Appendix 2: Species occurring in Northern Ireland included in Annex II of the Habitats			
Directive. None are priority species. ** = SAC feature. * = Listed as present on an			
SAC.			

Code	Species	Common Name
1013	Vertigo geyeri	Geyer's whorl snail
1014	Vertigo angustior	Narrow-mouthed whorl snail**
1029	Margaritifera margaritifera	Freshwater pearl mussel**
1065	Euphydryas (Eurodryas, Hypodryas) aurinia	Marsh fritillary butterfly**
1092	Austropotamobius pallipes	White-clawed (or Atlantic stream) crayfish**
1095	Petromyzon marinus	Sea lamprey*
1096	Lampetra planeri	Brook lamprey*
1099	Lampetra fluviatilis	River lamprey*
1106	Salmo salar	Atlantic salmon**
1102	Alosa alosa	Allis Shad
1349	Tursiops truncates	Bottlenose dolphin*
1351	Phocoena phocoena	Harbour porpoise**
1355	Lutra lutra	Otter**
1364	Halichoerus grypus	Grey seal**
1365	Phoca vitulina	Common seal**
1395	<i>Petalophyllum ralfsii</i> (Wils.) Nees & Gott.	Petalwort*
1421	Trichomanes speciosum Wild.	Killarney fern
1528	Saxifraga hirculus L.	Marsh saxifrage**
1393	Drepanocladus (Hamatocaulis) vernicosus	Slender green feather-moss

Species Name	Natura Site Selection Cited Feature	Natura Site Cited Assemblage Feature
Alca torda	X	
Anas acuta		Х
Anas clypeata		Х
Anas crecca		Х
Anas penelope		Х
Anas platyrhynchos		Х
Anas strepera		Х
Anser anser		Х
Arenaria interpres	Х	
Aythya ferina	Х	
Aythya fuligula	Х	
Aythya marila	Х	
Branta bernicla hrota	Х	
Bucephala clangula	Х	Х
Calidris alpina alpina		Х
Calidris canuta	Х	
Charadrius hiaticula	Х	
Circus cyaneus	Х	
Cygnus columbianus bewickii	Х	
Cygnus cygnus	Х	
Falco columbarius	Х	
Falco peregrinus	Х	
Fratercula arctica		Х
Fulica atra		Х
Fulmarus glacialis		Х
Haematopus ostralegus		Х
Larus argentatus		Х
Larus canus		Х
Larus fuscus		Х
Limosa lapponica	Х	
Mergus serrator		Х
Numenius arquata		Х
Phalacrocorax carbo	X	Х
Pluvialis apricaria	Х	
Pluvialis squatarola		Х
Podiceps cristatus	Х	X
Puffinus puffinus	Х	
Rissa tridactyla	Х	
Somateria mollissima		X
Sterna dougallii	X	
Sterna hirundo	X	
Sterna paradisaea	X	
Sterna sandvicensis	X	

Appendix 3: Birds Directive species, Northern Ireland

Tadorna tadorna	X	
Tachybaptus ruficollis		Х
Tringa totanus	X	Х
Uria aalge	X	
Vanellus vanellus		Х