

# 2020 State of Nature in the EU - results from reporting under the nature directives 2013-2018

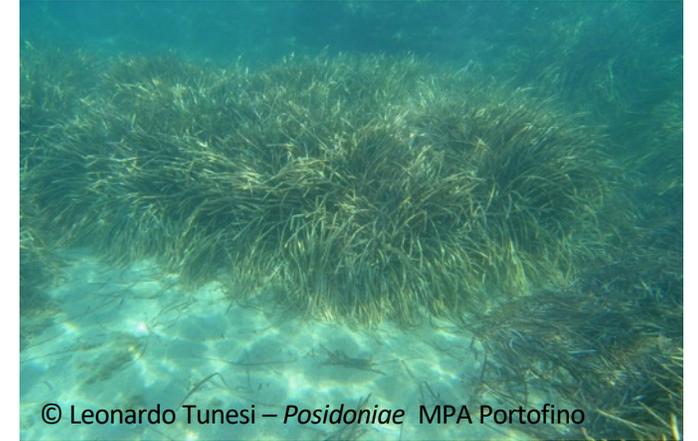
# Outline

- Overview of the ‘nature reporting’
- Reporting ‘features’ and ‘units’
- Main content of the MS reports
- Assessing ‘conservation status’
- State of Nature in the EU 2020

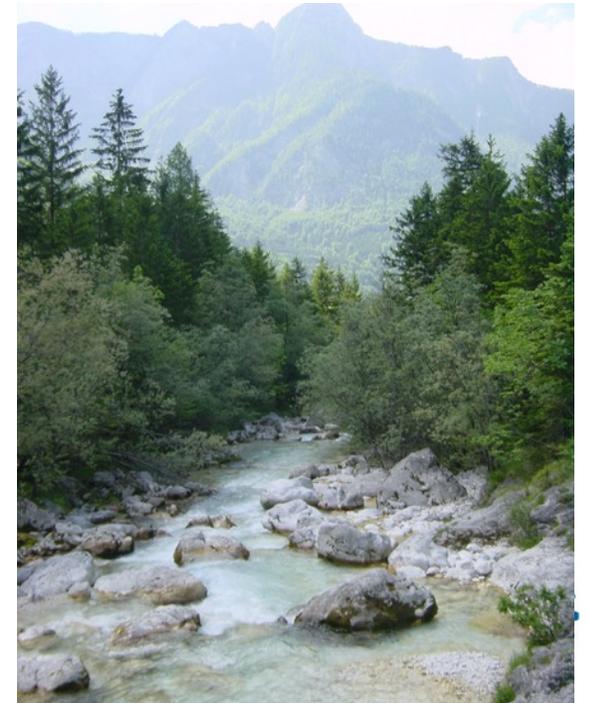
# Overview of the 'nature reporting'? (i)

- Two EU reporting obligations
  - Article 12, Birds Directive
  - Article 17, Habitats Directive
- Results of the monitoring and assessment of
  - ≈ **500** birds
  - ≈ **1 400** other animals & plants
  - = **233** habitat types

**MARINE**

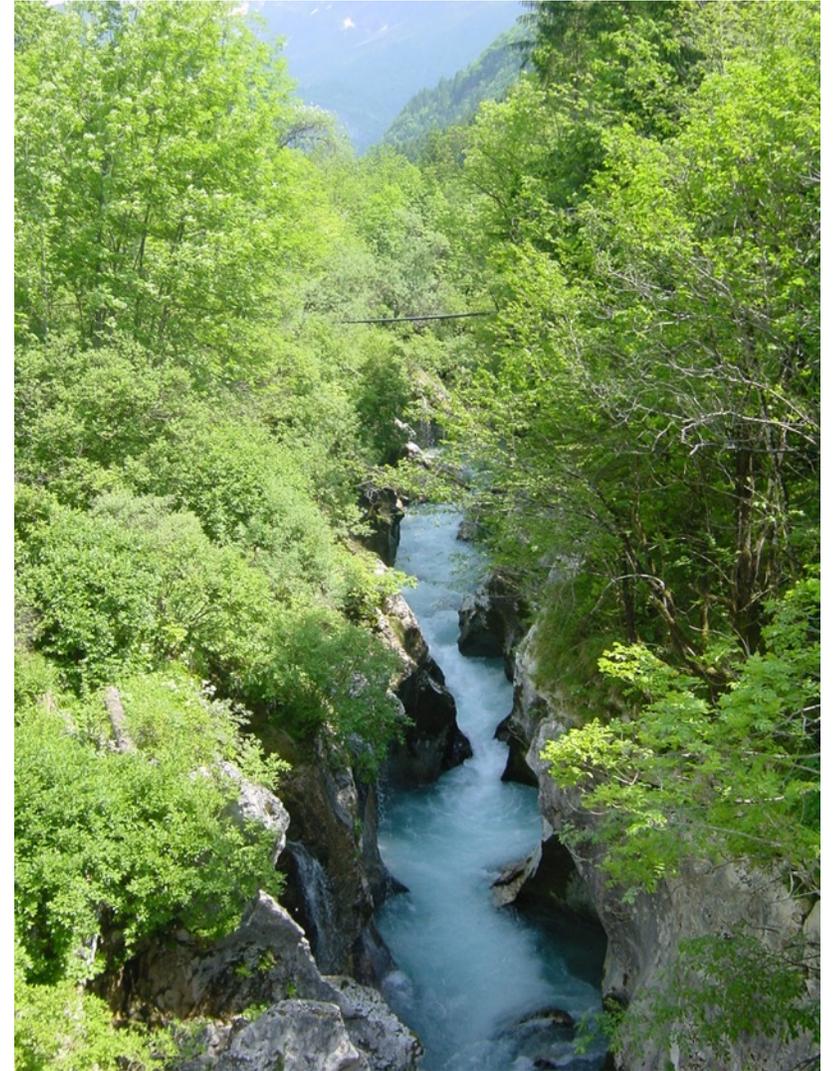


**TERRESTRIAL**



# Overview of the 'nature reporting'? (ii)

- Many freshwater species
  - Birds
  - Fish and lampreys, including migratory
  - Mammals
  - Reptiles & amphibians
  - Crustaceans, insects, molluscs
  - Plants & bryophytes
- And habitat types
  - Standing water (10)
  - Running water (10)
  - Plus many others associated to freshwater (fens, bogs, forests, meadows,...)



# Overview of the 'nature reporting'? (iii)

- Reporting cycle: every 6 years
  - 1994-2000 (2001) – art 17 only text – EU15
  - 2001-2006 (2007) – art 17 data – EU25
  - 2007-2012 (2013) – art 12 & art 17, data – EU27
  - **2013-2018 (2019) – art 12 & art 17, data – EU28**
- Deadlines for MS reports (2013-2018)
  - Art. 17: **30 April 2019**
  - Art. 12: **31 July 2019**

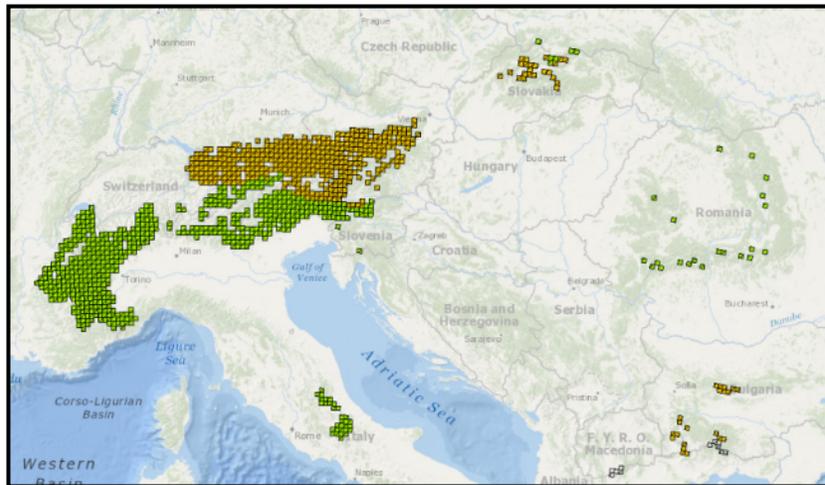
# Reporting 'units' for each species/habitat type

- Article 12: national level
- Article 17:
  - **national-biogeographical region (9)**  
Alpine, Atlantic, Black Sea, Boreal, Continental, Macaronesian, Mediterranean, Pannonian, Steppic
  - **national-marine 'region' (5)**  
Marine Atlantic (North-East Atlantic Ocean)  
Marine Macaronesian (Macaronesia)  
Marine Black Sea (Black Sea)  
Marine Baltic (Baltic Sea)  
Marine Mediterranean (Mediterranean Sea)

# Main content of the Member States reports

For each species & habitat

- Distribution data and maps
- Population/area size & trends
- Pressures & threats (activities)
- Conservation measures
- Proportion & trends in Natura 2000
- Hunting/exploitation/collection
- **Conservation status (only Art 17)**



# Assessing conservation status (Habitats Directive)

- Habitats Directive main goal: maintain or restore **favourable conservation status**
- **Conservation status:** combination of four parameters

Species	Habitats
Range	Range
Population	Area
Suitable habitat	Structure & Functions
Future prospects	Future prospects

Favourable	Green	FV
Unfavourable inadequate	Amber	U1
Unfavourable bad	Red	U2
Unknown	Grey	XX

# Assessing conservation status (HD) (ii)

- Takes into account: PAST – PRESENT – FUTURE
- FAVOURABLE - very 'challenging' to reach
- 'One out, all out'  
One parameter unfavourable, overall unfavourable



- Good                      Poor                      Bad                      Unknown

# EU level assessments (i)

- Assessments based on MS reports
- EU bird population status assessments

Based on modified IUCN Red List criteria for birds

- Secure / unknown / near threatened, declining or depleted / threatened

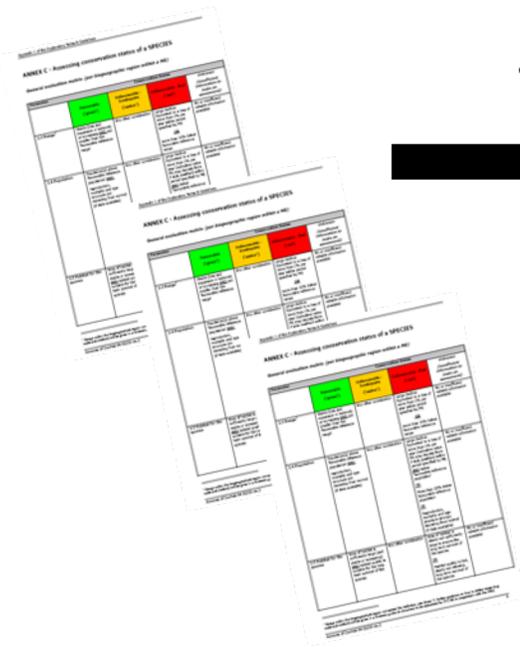


- Favourable / unknown / unfavourable-inadequate / unfavourable-bad
- EU-biogeographical conservation status assessments

Using the same evaluation matrices used by MS

# EU level assessments (ii)

- EU bird population status assessments
  - EC contractor (BirdLife/IUCN)
- EU-biogeographical conservation status assessments
  - EEA and its ETC on Biological Diversity

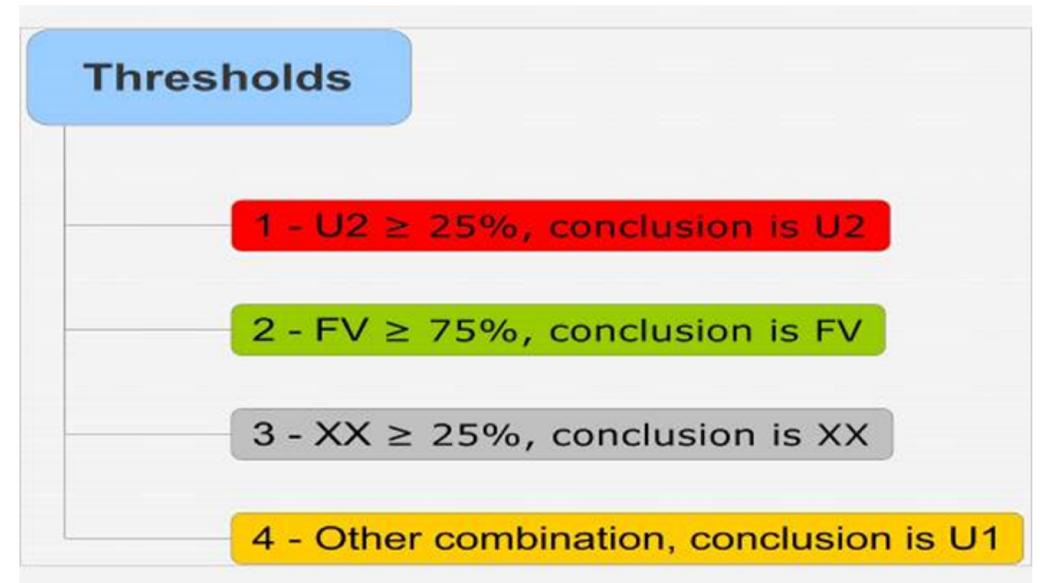


Annex C - Assessing conservation status of a SPECIES

General evaluation matrix (per biogeographic region within a MS)

Parameters	Conservation Status			Conclusion (qualitative information for status assessment)
	Very good (Green)	Unfavourable (Yellow)	Very bad (Red)	
1.1 Range	Stable size and expansion in historical or increasing (2000) smaller than the favourable reference range	Any other combination	Large decline (documented to a loss of more than 75% per generation period based on 100 years) OR more than 20% below favourable reference range	Yes or insufficient available information
1.2 Population	Population (or stable population) (2000) expansion, maturity and age structure not showing any reversal of data available	Any other combination	Large decline (documented to a loss of more than 75% per generation period) OR any decline from a stable population (2000) below favourable reference population? OR more than 20% below favourable reference population? OR population, maturity and age structure showing reversal of data available	Yes or insufficient available information
1.3 Historical data	None of the data is sufficient to confirm (2000) historical quality is stable for the long term survival of the species	Any other combination	None of the data is sufficient to confirm (2000) historical quality is stable for the long term survival of the species OR population is low, stable but showing long term reversal of the species	Yes or insufficient available information

\* Range refers to the biogeographical region concerned (the definition, see Annex I, further guidance on how to define range in a table not included with the present document is provided in the annexes to the ETC on Biological Diversity in cooperation with the IUCN. Reference of Council Directive 2002/43/EC



# First results from MS data (online dashboard) (i)

1. Conservation status 2. Trend in conservation status 3. Reason for change - CS & T

## Overall assessment of conservation status

Conservation Status

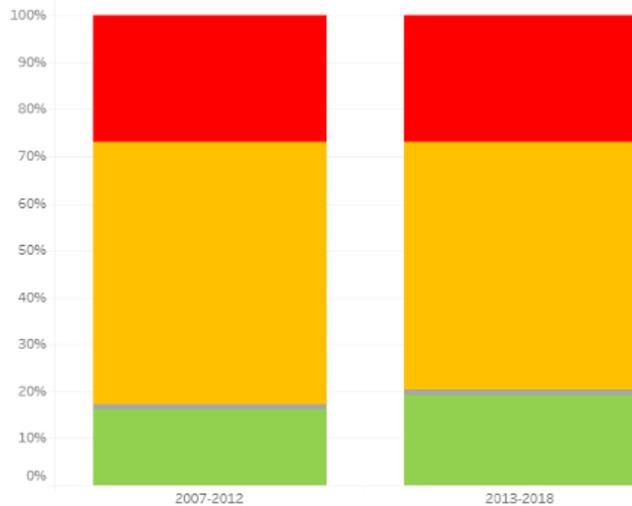
- Good: Favourable (FV) ■
- Poor: Unfavourable - inadequate (U1) ■
- Bad: Unfavourable - bad (U2) ■
- Unknown: XX ■
- Not applicable/Not reported: NA ■

Country  
CZ

Methodology

Proportion of assessments in each category of conservation status for 2007-2012 and 2013-2018 reporting periods.

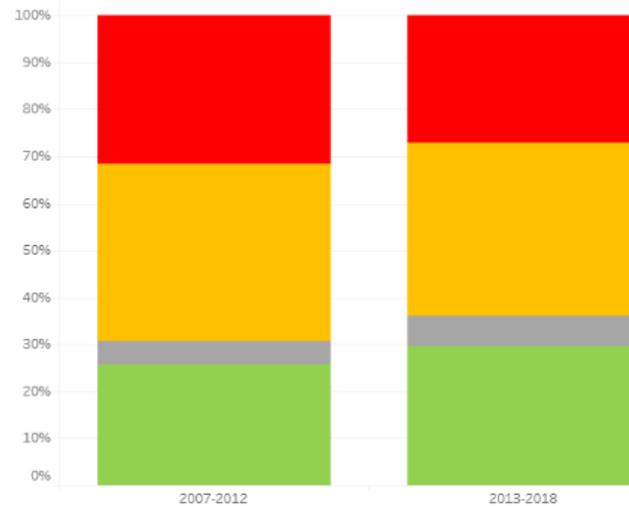
% of assessments - habitats



Country (% genuine change)  $\pm$

CZ	20.4
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% of assessments - species



Country (% genuine change)  $\mp$

CZ	15.7
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Proportion of habitats assessments categories of conservation status

		FV	XX	U1	U2
2007-2012	CZ	15 16%	1 1%	52 56%	25 27%
2013-2018	CZ	18 19%	1 1%	49 53%	25 27%

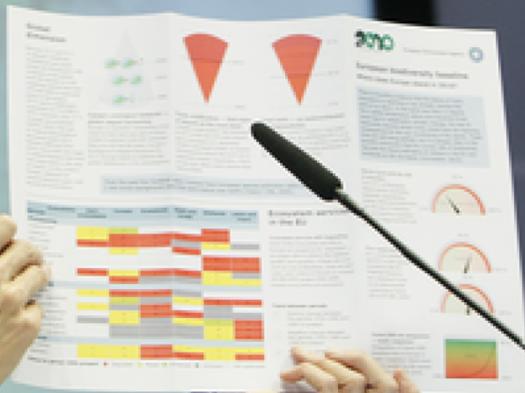
Proportion of species assessments categories of conservation status

		FV	XX	U1	U2
2007-2012	CZ	69 26%	13 5%	101 38%	84 31%
2013-2018	CZ	81 30%	18 7%	101 37%	74 27%

<https://www.eea.europa.eu/themes/biodiversity/state-of-nature-in-the-eu/article-17-national-summaries>



# State of Nature in the EU - 2020



# EU State of Nature

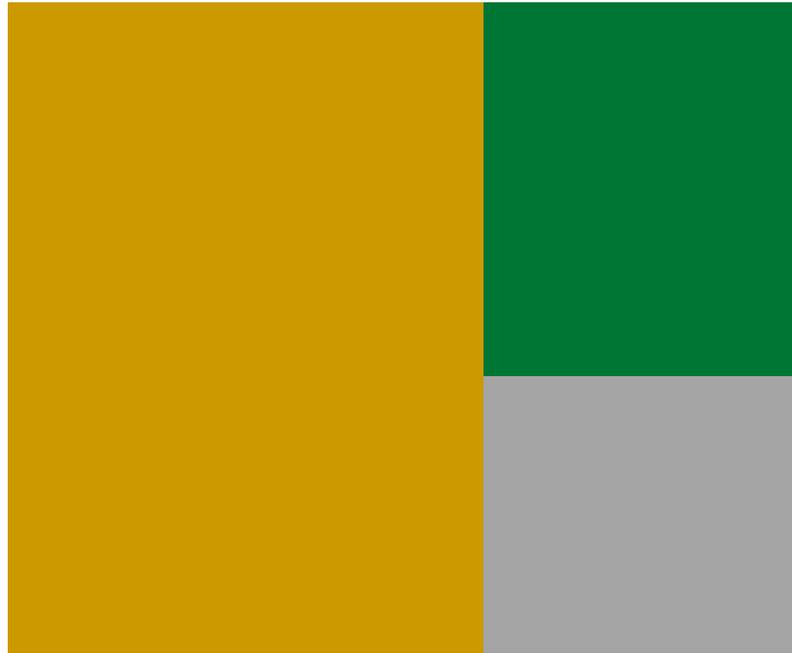
- EEA report + online data & information
- Input to
  - (final) Evaluation Biodiversity Strategy
  - EC composite report
  - Post-2020 Biodiversity policy

# Outline of the EEA report – EU State of Nature

1. Introduction
2. Overall results from Article 12
3. Overall results from Article 17
4. Natura 2000 and conservation status
5. Measuring progress towards targets 1 and 3

# Example (dummy data)

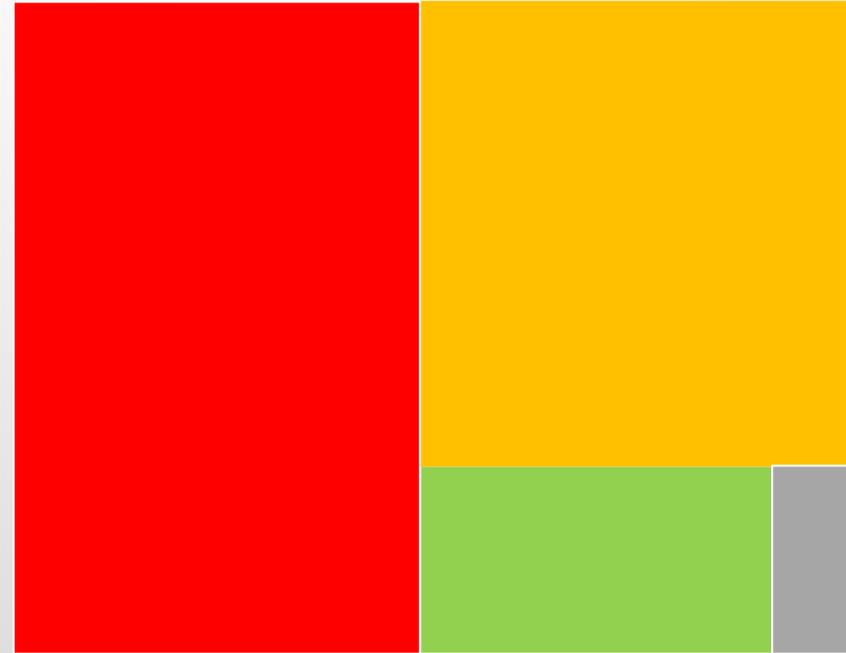
## Condition of habitat types



■ good ■ not-good ■ unknown

Based on surface area

## Conservation status



■ favourable ■ poor ■ bad ■ unknown

Based on number of assessments

Possible to analyse

- Groups of habitats
- MS or EU level
- Compare condition different groups
- Restoration needs
- ...

# Natura 2000 & conservation status

- Proportion in N2000 and Status & trends
  - Birds & SPAs
  - Ann. I habitats & SACs
  - Ann. II species & SACs
- Inside vs. outside Natura 2000
  - Common birds
  - (Butterflies)

STATISTICAL ANALYSIS

# Focus on Target 1

- Target - Conservation Status
  - Halt deterioration of all species/habitats
  - Significant improvement: species 50 %, habitats 100 % more
- Actions – Natura 2000
  - Establish, manage, finance, involve, enforce
- Actions – Monitoring & reporting

# e.g. Target 3 (agriculture & forestry)

## Separate analysis

- Habitats (species) where major pressures
  - Intensification
  - Abandonment
- Forests
  - Natural/semi-natural
  - Production

# Dates to watch for

- First summaries with MS data
  - End September: article 17
  - End November: article 12
- EU biogeographical assessments (art. 17)
  - February 2020 (tbc): public consultation
- **State of Nature in the EU, EEA report**
  - **June/July 2020 (tbc): Eionet consultation**  
in coordination with EC services and expert groups

# State of Nature home page: one door, many entries

<https://www.eea.europa.eu/themes/biodiversity/state-of-nature-in-the-eu>

# Thank you for your attention



# Supplementary slides with additional information

# Nature reporting

- **Reference portals in Reportnet (2013-2018)**

[http://cdr.eionet.europa.eu/help/birds\\_art12](http://cdr.eionet.europa.eu/help/birds_art12)

[http://cdr.eionet.europa.eu/help/habitats\\_art17](http://cdr.eionet.europa.eu/help/habitats_art17)

- **State of Nature webpage**

<https://www.eea.europa.eu/themes/biodiversity/state-of-nature-in-the-eu>

- EUNIS <http://eunis.eea.europa.eu/>

- BISE <http://biodiversity.europa.eu/>

# Formats, guidelines, supporting material

Reporting under Article 17  
of the Habitats Directive



Report format

for the period 2013–2018

Final version – November 2017

Reporting under Article 12  
of the Birds Directive



Explanatory Notes and Guidelines  
for the period 2013–2018

Final draft version – April 2017

- Check lists:  
species & habitats
- Pressures & threats
- Conservation  
measures
- Reporting tool
- QA/QC rules
- Xml schemas



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# Assessing conservation status (HD) (ii)

- **Range, population, area**
  - quantitative data (e.g. km<sup>2</sup>, no. of individuals)
  - conservation status / **favourable reference values**
- **Suitable habitat, structures & functions**
  - qualitative assessment based on quantitative data and site monitoring
- **Future prospects**
  - evaluation of threats in near future (12 years)

# Assessing conservation status (HD) (iii)

Parameter	Conservation Status			
	Favourable (‘green’)	Unfavourable - Inadequate (‘amber’)	Unfavourable - Bad (‘red’)	Unknown (insufficient information to make an assessment)
<b>Range</b> (within the biogeographical region concerned)	Stable (loss and expansion in balance) or increasing <b>AND</b> not smaller than the ‘favourable reference range’	Any other combination	Large decline: Equivalent to a loss of more than 1% per year within period specified by MS  <b>OR</b>  more than 10% below favourable reference range	No or insufficient reliable information available
<b>Population</b>	Population(s) not lower than ‘favourable reference population’ <b>AND</b> reproduction, mortality and age structure not deviating from normal (if data available)	Any other combination	Large decline: Equivalent to a loss of more than 1% per year (indicative value MS may deviate from if duly justified) within period specified by MS <b>AND</b> below ‘favourable reference population’  <b>OR</b>  More than 25% below favourable reference population  <b>OR</b>  Reproduction, mortality and age structure strongly deviating from normal (if data available)	No or insufficient reliable information available
<b>Habitat for the species</b>	Area of habitat is sufficiently large (and stable or increasing) <b>AND</b> habitat quality is suitable for the long-term survival of the species	Any other combination	Area of habitat is clearly not sufficiently large to ensure the long-term survival of the species  <b>OR</b>  Habitat quality is bad, clearly not allowing long-term survival of the species	No or insufficient reliable information available
<b>Future prospects</b> (as regards to population, range and habitat availability)	Main pressures and threats to the species not significant; species will remain viable on the long-term	Any other combination	Severe influence of pressures and threats to the species; very bad prospects for its future, long-term viability at risk.	No or insufficient reliable information available
<b>Overall assessment of CS</b>	All ‘green’  OR  three ‘green’ and one ‘unknown’	One or more ‘amber’ but no ‘red’	One or more ‘red’	Two or more ‘unknown’ combined with green or all ‘unknown’

Parameter	Conservation Status			
	Favourable (‘green’)	Unfavourable – Inadequate (‘amber’)	Unfavourable - Bad (‘red’)	Unknown (insufficient information to make an assessment)
<b>Range</b> (within the biogeographical/marine region concerned)	Stable (loss and expansion in balance) or increasing <b>AND</b> not smaller than the ‘favourable reference range’	Any other combination	Large decrease: Equivalent to a loss of more than 1% per year within period specified by MS  <b>OR</b>  More than 10% below ‘favourable reference range’	No or insufficient reliable information available
<b>Area covered by habitat type within range</b>	Stable (loss and expansion in balance) or increasing <b>AND</b> not smaller than the ‘favourable reference area’ <b>AND</b> without significant changes in distribution pattern within range (if data available)	Any other combination	Large decrease in surface area: Equivalent to a loss of more than 1% per year (indicative value MS may deviate from if duly justified) within period specified by MS <b>OR</b> With major losses in distribution pattern within range <b>OR</b> More than 10% below ‘favourable reference area’	No or insufficient reliable information available
<b>Specific structure and functions (including typical species)</b>	Structures and functions (including typical species) in good condition and no significant deteriorations / pressures	Any other combination	More than 25% of the area is unfavourable as regards its specific structures and functions (including typical species)	No or insufficient reliable information available
<b>Future prospects</b> (as regards range, area covered and specific structures and functions)	The habitats prospects for its future are excellent / good, no significant impact from threats expected; long-term viability assured	Any other combination	The habitats prospects are bad, severe impact from threats expected; long-term viability not assured.	No or insufficient reliable information available
<b>Overall assessment of CS</b>	All ‘green’  OR  three ‘green’ and one ‘unknown’	One or more ‘amber’ but no ‘red’	One or more ‘red’	Two or more ‘unknown’ combined with green or all ‘unknown’



# Assessing conservation status (HD) (iv)

Evaluation matrix for species<sub>simplified</sub>

Species	Favourable status	Inadequate status	Bad status
<b>Range</b>	Stable or increasing <u>and</u> $\geq$ favourable reference range	<i>Not qualifying for red or green</i>	Large decline ( $> 1\%$ per year*) <u>or</u> more than 10% below f.r.r.
<b>Population</b>	$\geq$ favourable reference population <u>and</u> population structure normal	<i>Not qualifying for red or green</i>	Large decline ( $> 1\%$ per year*) <u>or</u> more than 25% below f.r.p. <u>or</u> pop.struct. strongly deviating from normal
<b>Habitat for species</b>	Habitat sufficiently large <u>and</u> habitat quality suitable for long-term survival	<i>Not qualifying for red or green</i>	Area of habitat clearly insufficient <u>or</u> habitat quality not allowing long-term survival
<b>Future prospects</b>	Pressures and threats not significant, long-term viability ensured	<i>Not qualifying for red or green</i>	Severe influence of pressures and threats, bad prospects re. long-term viability

# Assessing conservation status (HD) (vi)

Each habitat type and each species assessed at **two levels**

- Member State biogeographical/marine region
- EU biogeographical/marine region

Current selection: 2007-2012, Grasslands, 6140 Siliceous Pyrenean Festuca eskia grasslands, All bioregions. [Show all Grasslands](#)

**Treated data from Member States reports**

MS	Reg	Range (km <sup>2</sup> )				Area				Struct & func.	Future prosp.	Overall asses.				Areas from gridded maps(km <sup>2</sup> )			
		Surface	% MS	Trend	Ref.	Surface	% MS	Trend	Ref.			Curr. CS	Qualifier	Prev. CS	Nat. of ch.	Range	% MS	Distrib.	% MS
ES	ALP	7365	45.8	0	≈7365	561.30	50.5	x	>561.30	XX	XX	U1	x	U2+	c1	9300	56.4	6200	55.4
FR	ALP	8700	54.2	0	≈8700	550	49.5	0	≈550	FV	FV	FV		FV	nc	7200	43.6	5000	44.6
ES	ATL	7218	100	0	≈7218	75.70	100	0	≈75.70	FV	FV	FV		XX	c1	7800	100	5600	100

Automatic Assessments

**EU Biogeographical assessment and proposed corrections**

MS/EU27	Reg	Surface	Range Concl.	Trend	Ref.	Surface	Area Concl.	Trend	Ref.	Struct. func.	Future prosp.	Curr. CS Concl.	Qualifier	Prev. CS Concl.	Nat. of ch.	Target 1			
																Contrib.	Type		
EU27	ALP	16065	0	0	≈16065	1111	1	x	>1111	2XA	2XA	MTX	x	U2	no	D	=	<a href="#">0/0</a>	EEA-ETC/BD
EU27	ATL	7218	00	0	≈7218	76	00	0	≈76	00	00	MTX	=	XX	no	A	=	<a href="#">0/0</a>	EEA-ETC/BD

# Post submission processes and milestones

	<b>Art 17</b>	<b>Art 12</b>
Resubmission request (if needed)	within 1 month after submission (not after cut-off)	
'Quick' National Summaries online	end Sept 2019	end Nov 2019
National Summaries for approval from MS	mid Nov 2019	mid Jan 2020
Publication of MS data in web viewers	Sept – Nov 2019	Nov 2019 – Jan 2020
EU level assessments	Sept 2019 – Jan 2020	Nov 2019 – mid April 2020
Public consultation	Feb 2020 (tbc)	
Publication of final EU assessments	end March 2020	end April 2020
Draft EEA SoN	early summer 2020 (tbc)	
Public consultation	early summer 2020 (tbc)	
Publication of EEA SoN, statistics, Commission's composite report	Q4 2020	