

**European Community Directive  
on the Conservation of Natural Habitats  
and of Wild Fauna and Flora  
(92/43/EEC)**

**Fourth Report by the United Kingdom  
under Article 17**

on the implementation of the Directive  
from January 2013 to December 2018

Conservation status assessment for the habitat:

**H4030 - European dry heaths**

**UNITED KINGDOM**

## **IMPORTANT NOTE - PLEASE READ**

- The information in this document represents the UK Report on the conservation status of this habitat, submitted to the European Commission as part of the 2019 UK Reporting under Article 17 of the EU Habitats Directive.
- It is based on supporting information provided by the geographically-relevant Statutory Nature Conservation Bodies, which is documented separately.
- The 2019 Article 17 UK Approach document provides details on how this supporting information contributed to the UK Report and the fields that were completed for each parameter.
- The reporting fields and options used are aligned to those set out in the European Commission guidance.
- Maps showing the distribution and range of the habitat are included (where available).
- Explanatory notes (where provided) are included at the end. These provide additional audit trail information to that included within the UK assessments. Further underpinning explanatory notes are available in the related country-level and/or UK offshore-level reports.
- Some of the reporting fields have been left blank because either: (i) there was insufficient information to complete the field; and/or (ii) completion of the field was not obligatory.
- The UK-level reporting information for all habitats and species is also available in spreadsheet format.

Visit the JNCC website, <https://jncc.gov.uk/article17>, for further information on UK Article 17 reporting.

# Report on the main results of the surveillance under Article 17 for Annex I habitat types (Annex D)

## NATIONAL LEVEL

### 1. General information

1.1 Member State	UK
1.2 Habitat code	4030 - European dry heaths

### 2. Maps

2.1 Year or period	1962-2018
2.3 Distribution map	Yes
2.3 Distribution map Method used	Complete survey or a statistically robust estimate
2.4 Additional maps	No

## BIOGEOGRAPHICAL LEVEL

### 3. Biogeographical and marine regions

3.1 Biogeographical or marine region where the habitat occurs	<b>Atlantic (ATL)</b>
3.2 Sources of information	<p>England</p> <p>CRITCHLEY, N. 2011. Condition surveys of upland priority habitats in England: blanket bog. ADAS report to Natural England, Sheffield.</p> <p>DIAZ, A., KEITH, S.A., BULLOCK, J.M., HOOFFMAN, D.A.P., NEWTON, A. 2013. Conservation implications of long-term changes detected in a lowland heath plant metacommunity. <i>Biological Conservation</i>, 167: 325-333.</p> <p>FAGUNDEZ, J. 2012. Heathlands confronting global change: drivers of biodiversity loss from past to future scenarios. <i>Ann Bot.</i> 2013 Feb; 111(2): 151-172.</p> <p>TURAL ENGLAND's Designated Sites database. Accessed Feb-mar 2018. Habitat condition, threats and pressures. <a href="https://designatedsites.naturalengland.org.uk/">https://designatedsites.naturalengland.org.uk/</a></p> <p>Thacker, J.I., Yallop, A.R. Clutterbuck, B. 2014. Burning in the English Uplands. A Review, Reconciliation and Comparison of Results of Natural England's Burn Monitoring : 2005-2014. IPENS 055, Natural England.</p> <p>Natural England Priority Habitat Inventory</p> <p>Scotland</p> <p>References within -</p> <p><a href="http://jncc.defra.gov.uk/pdf/Article17Consult_20131010/H4030_UK.pdf">http://jncc.defra.gov.uk/pdf/Article17Consult_20131010/H4030_UK.pdf</a></p> <p>SNH SCM database, extract A2298772, 2017, processed and summarised in A2495124.</p> <p>Subalpine dry dwarf-shrub heath feature type (JNCC, (2009), Common Standards Monitoring Guidance for Upland Habitats, Version July 2009 and previous versions) <a href="http://jncc.defra.gov.uk/page-2237">http://jncc.defra.gov.uk/page-2237</a></p> <p>Wales</p> <p>APIS (Nitrogen Deposition: Dwarf-shrub Heath <a href="http://www.apis.ac.uk/node/974">http://www.apis.ac.uk/node/974</a></p> <p>Barker, C.G., Power, S.A., Bell, N.B. &amp; Orme, C. D. (2004) Effects of habitat management on heathland response to atmospheric nitrogen deposition. <i>Biological Conservation</i> Volume 120, Issue 1, Pages 41-52</p> <p>Blackstock T. H., Howe E. A., Stevens J. P., Burrows C. R. &amp; Jones P. S. 2010. Habitats of Wales. A comprehensive field survey 1979-1997. University of Wales Press, Cardiff.</p> <p>Bishop, J. &amp; Jones, N. 2011. Review into the impacts of management on the heathland community and the potential for the control of <i>Phytophthora</i>. Food and Environment Research Agency (DEFRA research PH0601).</p>

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## 4. Range

4.1 Surface area (in km <sup>2</sup> )	175894.56	
4.2 Short-term trend Period	2007-2018	
4.3 Short-term trend Direction	Stable (0)	
4.4 Short-term trend Magnitude	a) Minimum	b) Maximum
4.5 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data	
4.6 Long-term trend Period		
4.7 Long-term trend Direction		
4.8 Long-term trend Magnitude	a) Minimum	b) Maximum
4.9 Long-term trend Method used		
4.10 Favourable reference range	a) Area (km <sup>2</sup> )	175894.56
	b) Operator	

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c) Unknown  
d) Method

No

The FRR is approximately equal to the current range area. The FRR value has been updated to take account of improved information on the habitat range. The approach taken to set the FRR is explained in the 2007 and 2013 UK Article 17 habitat reports (see <http://jncc.defra.gov.uk/page-4064> and <http://jncc.defra.gov.uk/page-6563>).

4.11 Change and reason for change in surface area of range

Improved knowledge/more accurate data

The change is mainly due to: Improved knowledge/more accurate data

4.12 Additional information

## 5. Area covered by habitat

5.1 Year or period

1987-2018

5.2 Surface area (in km<sup>2</sup>)

a) Minimum

b) Maximum

c) Best single value 7222.98

5.3 Type of estimate

Best estimate

5.4 Surface area Method used

Based mainly on extrapolation from a limited amount of data

5.5 Short-term trend Period

2007-2018

5.6 Short-term trend Direction

Stable (0)

5.7 Short-term trend Magnitude

a) Minimum

b) Maximum

c) Confidence interval

5.8 Short-term trend Method used

Based mainly on extrapolation from a limited amount of data

5.9 Long-term trend Period

5.10 Long-term trend Direction

5.11 Long-term trend Magnitude

a) Minimum

b) Maximum

c) Confidence interval

5.12 Long-term trend Method used

5.13 Favourable reference area

a) Area (km<sup>2</sup>) 7222.98

b) Operator

c) Unknown

d) Method

No

The FRA is approximately equal to the current area. The FRA value has been updated to take account of improved information on the habitat area. The approach taken to set the FRA is explained in the 2007 and 2013 UK Article 17 habitat reports (see <http://jncc.defra.gov.uk/page-4064> and <http://jncc.defra.gov.uk/page-6563>).

5.14 Change and reason for change in surface area of range

Improved knowledge/more accurate data

The change is mainly due to: Improved knowledge/more accurate data

5.15 Additional information

## 6. Structure and functions

6.1 Condition of habitat

a) Area in good condition (km<sup>2</sup>)

Minimum 416.01

Maximum 416.01

b) Area in not-good condition (km<sup>2</sup>)

Minimum 1843.863

Maximum 1843.863

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	c) Area where condition is not known (km <sup>2</sup> )	Minimum 4963.107	Maximum 4963.107
6.2 Condition of habitat Method used	Based mainly on extrapolation from a limited amount of data		
6.3 Short-term trend of habitat area in good condition Period	2001-2018		
6.4 Short-term trend of habitat area in good condition Direction	Increasing (+)		
6.5 Short-term trend of habitat area in good condition Method used	Based mainly on extrapolation from a limited amount of data		
6.6 Typical species	Has the list of typical species changed in comparison to the previous reporting period?		No
6.7 Typical species Method used			
6.8 Additional information			

## 7. Main pressures and threats

### 7.1 Characterisation of pressures/threats

Pressure	Ranking
Intensive grazing or overgrazing by livestock (A09)	H
Extensive grazing or undergrazing by livestock (A10)	M
Burning for agriculture (A11)	H
Suppression of fire for agriculture (A12)	M
Conversion to forest from other land uses, or afforestation (excluding drainage) (B01)	M
Wind, wave and tidal power, including infrastructure (D01)	M
Hydropower (dams, weirs, run-off-the-river), including infrastructure (D02)	M
Management of fishing stocks and game (G08)	H
Problematic native species (I04)	M
Mixed source air pollution, air-borne pollutants (J03)	H
Threat	Ranking
Intensive grazing or overgrazing by livestock (A09)	H
Extensive grazing or undergrazing by livestock (A10)	M
Burning for agriculture (A11)	H
Suppression of fire for agriculture (A12)	M
Conversion to forest from other land uses, or afforestation (excluding drainage) (B01)	H
Wind, wave and tidal power, including infrastructure (D01)	M
Hydropower (dams, weirs, run-off-the-river), including infrastructure (D02)	M
Management of fishing stocks and game (G08)	H
Problematic native species (I04)	M
Mixed source air pollution, air-borne pollutants (J03)	H



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## 7.2 Sources of information

## 7.3 Additional information

J03: Mixed source air pollution, air-borne pollutants is ranked as a High ranked pressure and threat, due to the nutrient N critical load for the habitat being exceeded across >25% of the habitat area

## 8. Conservation measures

### 8.1 Status of measures

- a) Are measures needed? Yes
- b) Indicate the status of measures Measures identified and taken

### 8.2 Main purpose of the measures taken

Restore the habitat of the species (related to 'Habitat for the species')

### 8.3 Location of the measures taken

Both inside and outside Natura 2000

### 8.4 Response to the measures

Medium-term results (within the next two reporting periods, 2019-2030)

### 8.5 List of main conservation measures

Reinstate appropriate agricultural practices to address abandonment, including mowing, grazing, burning or equivalent measures (CA04)

Adapt mowing, grazing and other equivalent agricultural activities (CA05)

Prevent conversion of (semi-) natural habitats into forests and of (semi-)natural forests into intensive forest plantation (CB01)

Adapt/manage renewable energy installation, facilities and operation (CC03)

Reduce impact of hydropower operation and infrastructure (CC04)

Reduce impact of outdoor sports, leisure and recreational activities (CF03)

Management of hunting, recreational fishing and recreational or commercial harvesting or collection of plants (CG02)

Management, control or eradication of other invasive alien species (CI03)

Management of problematic native species (CI05)

Reduce impact of mixed source pollution (CJ01)

### 8.6 Additional information

## 9. Future prospects

### 9.1 Future prospects of parameters

- a) Range Good
- b) Area Good
- c) Structure and functions Bad

### 9.2 Additional information

Future trend of Range is Overall stable; Future trend of Area is Overall stable; and Future trend of Structure and functions is Very negative - important deterioration.

The Future prospects for Structure and functions takes into account that at least 25% of the habitat area is expected to be in unfavourable (not good) condition in c.2030 due to nutrient N critical load exceedance, unless measures are taken to reduce N deposition impacts.

## 10. Conclusions

### 10.1. Range

Favourable (FV)

### 10.2. Area

Favourable (FV)

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10.3. Specific structure and functions (incl. typical species)

Unfavourable - Bad (U2)

10.4. Future prospects

Unfavourable - Bad (U2)

10.5 Overall assessment of Conservation Status

Unfavourable - Bad (U2)

10.6 Overall trend in Conservation Status

Improving (+)

10.7 Change and reasons for change in conservation status and conservation status trend

a) Overall assessment of conservation status

No change

The change is mainly due to:

b) Overall trend in conservation status

Genuine change

Use of different method

The change is mainly due to: Genuine change

10.8 Additional information

Conclusion on Range reached because: (i) the short-term trend direction in Range surface area is stable; and (ii) the current Range surface area is approximately equal to the Favourable Reference Range.

Conclusion on Area covered by habitat reached because: (i) the short-term trend direction in Area is stable; and (ii) the current Area is approximately equal to the Favourable Reference Area.

Conclusion on Structure and functions reached because habitat condition data indicates that more than 25% of the habitat is in unfavourable (not good) condition.

Conclusion on Future prospects reached because: (i) the Future prospects for Range are good; (ii) the Future prospects for Area covered by habitat are good; and (iii) the Future prospects for Structure and functions are bad.

Overall assessment of Conservation Status is Unfavourable-bad because one or more of the conclusions is Unfavourable-bad.

Overall trend in Conservation Status is based on the combination of the short-term trends for Range - stable, Area covered by habitat - stable, and Structure and functions - increasing. If the very negative future trend in Structure and functions is also taken into account, the Overall trend would be stable.

The Overall trend in Conservation Status has changed between 2013 and 2019 because the Structure and functions trend has changed from decreasing in to increasing, and because of the removal of the Future prospects trend from the 2019 method used to assess Overall trend.

## 11. Natura 2000 (pSCIs, SCIs, SACs) coverage for Annex I habitat types

11.1 Surface area of the habitat type inside the pSCIs, SCIs and SACs network (in km<sup>2</sup> in biogeographical/marine region)

a) Minimum

b) Maximum

c) Best single value 2119.943

11.2 Type of estimate

Best estimate

11.3 Surface area of the habitat type inside the network Method used

Based mainly on extrapolation from a limited amount of data

11.4 Short-term trend of habitat area in good condition within the network Direction

Increasing (+)

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11.5 Short-term trend of habitat area in good condition within network Method used

Based mainly on extrapolation from a limited amount of data

11.6 Additional information

## 12. Complementary information

12.1 Justification of % thresholds for trends

12.2 Other relevant information

## Distribution Map

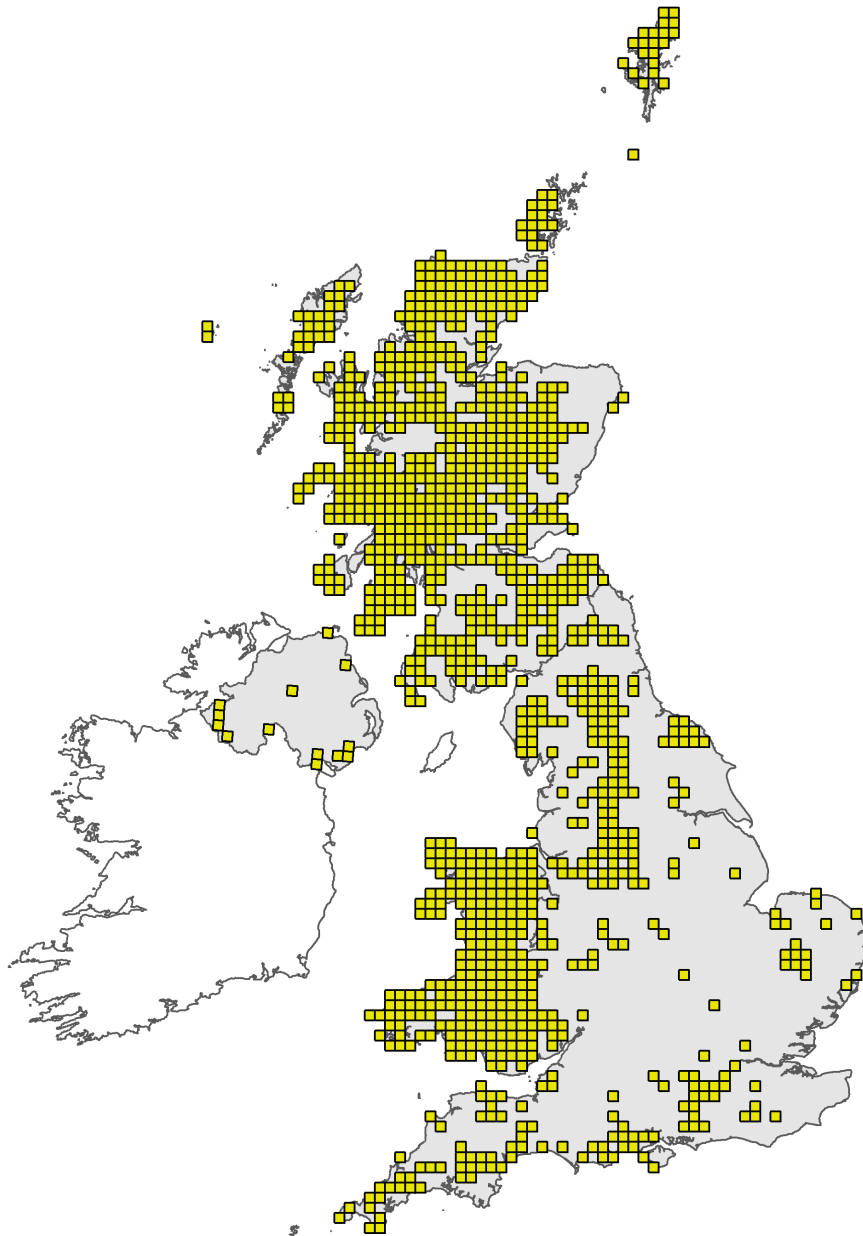


Figure 1: UK distribution map for H4030 - European dry heaths. Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

The 10km grid square distribution map is based on available habitat records which are considered to be representative of the distribution within the current reporting period. For further details see the 2019 Article17 UK Approach document.

## Range Map

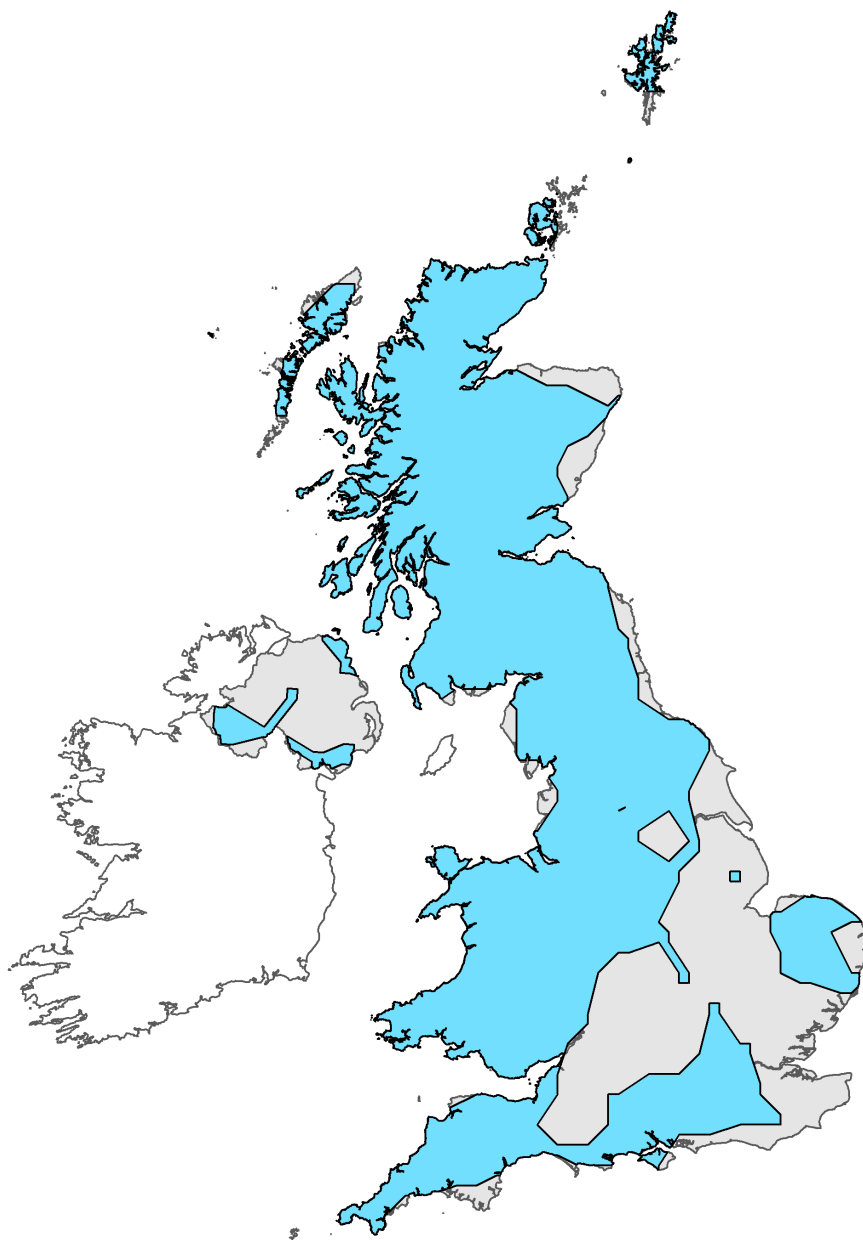


Figure 2: UK range map for H4030 - European dry heaths. Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

The range map has been produced by applying a bespoke range mapping tool for Article 17 reporting (produced by JNCC) to the 10km grid square distribution map presented in Figure 1. The alpha value for this habitat was 25km. For further details see the 2019 Article 17 UK Approach document.