

**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

Supporting documentation for the
conservation status assessment for the habitat:

**H91E0 - Alluvial forests with *Alnus glutinosa* and
Fraxinus excelsior (*Alno-Padion*, *Alnion incanae*,
Salicion albae)**

SCOTLAND

IMPORTANT NOTE - PLEASE READ

- The information in this document is a country-level contribution to 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.
- The 2019 Article 17 UK Approach document provides details on how this supporting information was used to produce the UK Report.
- The UK Report on the conservation status of this habitat is provided in a separate document.
- The reporting fields and options used are aligned to those set out in the European Commission guidance.
- Explanatory notes (where provided) by the country are included at the end. These provide an audit trail of relevant supporting information.
- Some of the reporting fields have been left blank because either: (i) there was insufficient information to complete the field; (ii) completion of the field was not obligatory; and/or (iii) the field was only relevant at UK-level (sections 10 Future prospects and 11 Conclusions).
- For technical reasons, the country-level future trends for Range, Area covered by habitat and Structure and functions are only available in a separate spreadsheet that contains all the country-level supporting information.
- The country-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.

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5.5 Short-term trend Period	2001-2014		
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 expert opinion with very limited 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 ²)	b) Operator	c) Unknown No
	d) Method		
5.14 Change and reason for change in surface area of range	No change The change is mainly due to:		
5.15 Additional information	Area figures for the third report were based on expert opinion, as there was no comprehensive data available on area or on loss or expansion. The area figure given in the current report is derived from the Native Woodland Survey for Scotland, an inventory of all native woodland. NB it was necessary to convert data from NVC to Annex I, so the figure is a statistically robust estimate rather than a complete survey. Since there is no reliable data for previous periods, it is not possible to report accurately on trends, but it is considered likely that any changes that have occurred are likely to have been small, so the area has on balance probably remained more-or-less stable since over the reporting period.		

6. Structure and functions

6.1 Condition of habitat	a) Area in good condition (km ²)	Minimum 0.65	Maximum 0.65
	b) Area in not-good condition (km ²)	Minimum 3.25	Maximum 3.25
	c) Area where condition is not known (km ²)	Minimum 47.68	Maximum 47.68
6.2 Condition of habitat Method used	Based mainly on expert opinion with very limited data		
6.3 Short-term trend of habitat area in good condition Period	2013-2018		
6.4 Short-term trend of habitat area in good condition Direction	Unknown (x)		
6.5 Short-term trend of habitat area in good condition Method used	Insufficient or no data available		
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	Site Condition Monitoring provides a means of assessing the structure and function of woodland on designated sites in Scotland. Site condition has been carried out on SAC's since 2013. The proportion of SACs where H91E0 is in unfavourable condition has declined from 90% to 70% (7 out of 10 sites). By area, 83% of the area of H91E0 on SACs is in unfavourable condition, as the sites		

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in favourable condition are comparatively small. However, this information only relates to Natura sites and equivalent data is not available to assess the condition of H91E0 in the wider countryside (92% of habitat we have no official assessment for -only expert opinion). The improvement in the condition of Natura sites has resulted from a great deal of dedicated effort, which has not been possible elsewhere.

It seems unlikely that any such improvement has occurred in the wider countryside and expert opinion suggests that condition of H91E0 is declining more widely. We cannot therefore comment on the trend of habitat in good condition, as we do not have data for this.

7. Main pressures and threats

7.1 Characterisation of pressures/threats

Pressure	Ranking
Intensive grazing or overgrazing by livestock (A09)	H
Other invasive alien species (other than species of Union concern) (I02)	M
Problematic native species (I04)	H
Modification of hydrological flow (K04)	M
Threat	Ranking
Intensive grazing or overgrazing by livestock (A09)	H
Other invasive alien species (other than species of Union concern) (I02)	M
Problematic native species (I04)	H
Modification of hydrological flow (K04)	M

7.2 Sources of information

7.3 Additional information

Phytophthora alni is a concern on some sites including Mound Alderwoods SAC

Impact of wild herbivores

Mound Alderwoods was created as a result of sedimentation behind a coastal barrier in the 1800s. Changes in flow, drainage and sedimentation patterns since 2000 have led to problems with waterlogging causing dieback amongst the alders.

8. Conservation measures

8.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

8.2 Main purpose of the measures taken

8.3 Location of the measures taken

8.4 Response to the measures

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

8.5 List of main conservation measures

Management of problematic native species (CI05)

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Reduce impact of multi-purpose hydrological changes (CJ02)

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

8.6 Additional information

The reasons for poor condition are complex, with some understood better than others. Known measures are herbivore control, and Invasive Non-Native Species (INNS) control. Alder Phytophthora is also a concern, and measures for remedying this are not well known.

Conservation measures are generally implemented through designation of protected areas, voluntary and statutory procedures (Deer Act), and the Forestry Grant Scheme (SRDP). While some results are achievable in the short term, others will require longer. Although conservation measures have been identified, implementation is patchy, so it is not correct to say Measures identified but none yet taken, so much as Measures identified but not consistently taken. However, since the overall trend of structure and function within designated sites is negative, and there is no reason to suppose things to be better outside of such sites, I consider that Measures identified but none yet taken is the case for the majority of the habitat.

9. Future prospects

9.1 Future prospects of parameters

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

9.2 Additional information

Range is considered likely to remain stable. Area is considered likely to remain stable; although gradual attrition of ancient woodland due to herbivore impact is likely over time, creation of new woodland also continues. Without more concerted work to reduce herbivore impact across the range of the habitat, it is likely that structure and function will continue to decline.

10. Conclusions

10.1. Range

10.2. Area

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

10.4. Future prospects

10.5 Overall assessment of Conservation Status

10.6 Overall trend in Conservation Status

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

No change

The change is mainly due to:

10.8 Additional information

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

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11.1 Surface area of the habitat type inside the pSCIs, SCIs and SACs network (in km² in biogeographical/marine region)

- a) Minimum
- b) Maximum
- c) Best single value 3.9

11.2 Type of estimate

95% confidence interval

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

Complete survey or a statistically robust estimate

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

Stable (0)

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

Complete survey or a statistically robust estimate

11.6 Additional information

Area figures for the third report were based mainly on expert opinion, as there was no comprehensive data available on area. The area figure for the current report uses the Native Woodland Survey for Scotland, which is an inventory of all native woodland, although it should be noted that it was necessary to convert data from NVC to Annex I, so the figure is a statistically robust estimate rather than a complete survey. Since there is no reliable data for previous periods, it is not possible to report accurately on trends, but it is considered likely that any changes that have occurred are likely to have been small, so the area has on balance probably remained more-or-less stable since over the reporting period.

12. Complementary information

12.1 Justification of % thresholds for trends

12.2 Other relevant information

Distribution Map

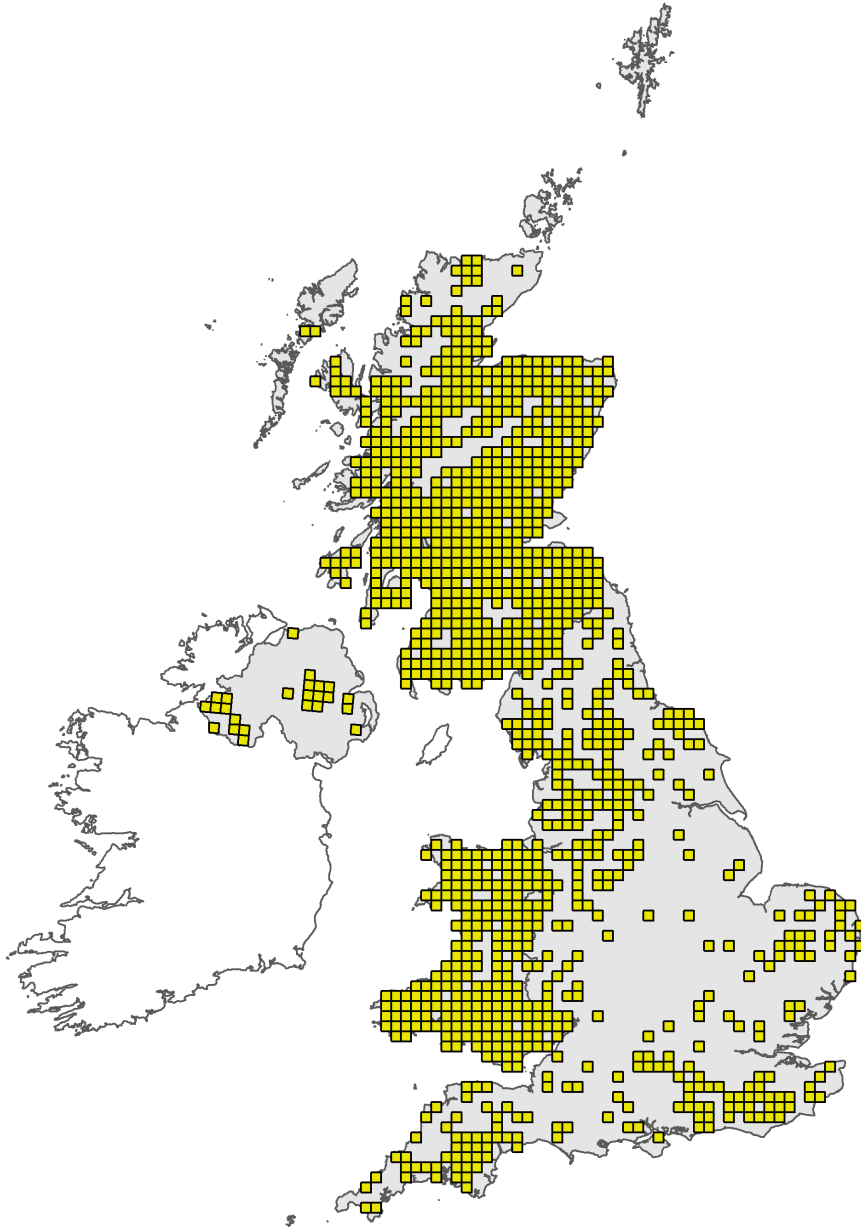


Figure 1: UK distribution map for H91E0 - Alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior* (*Alno-Padion*, *Alnion incanae*, *Salicion albae*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government 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

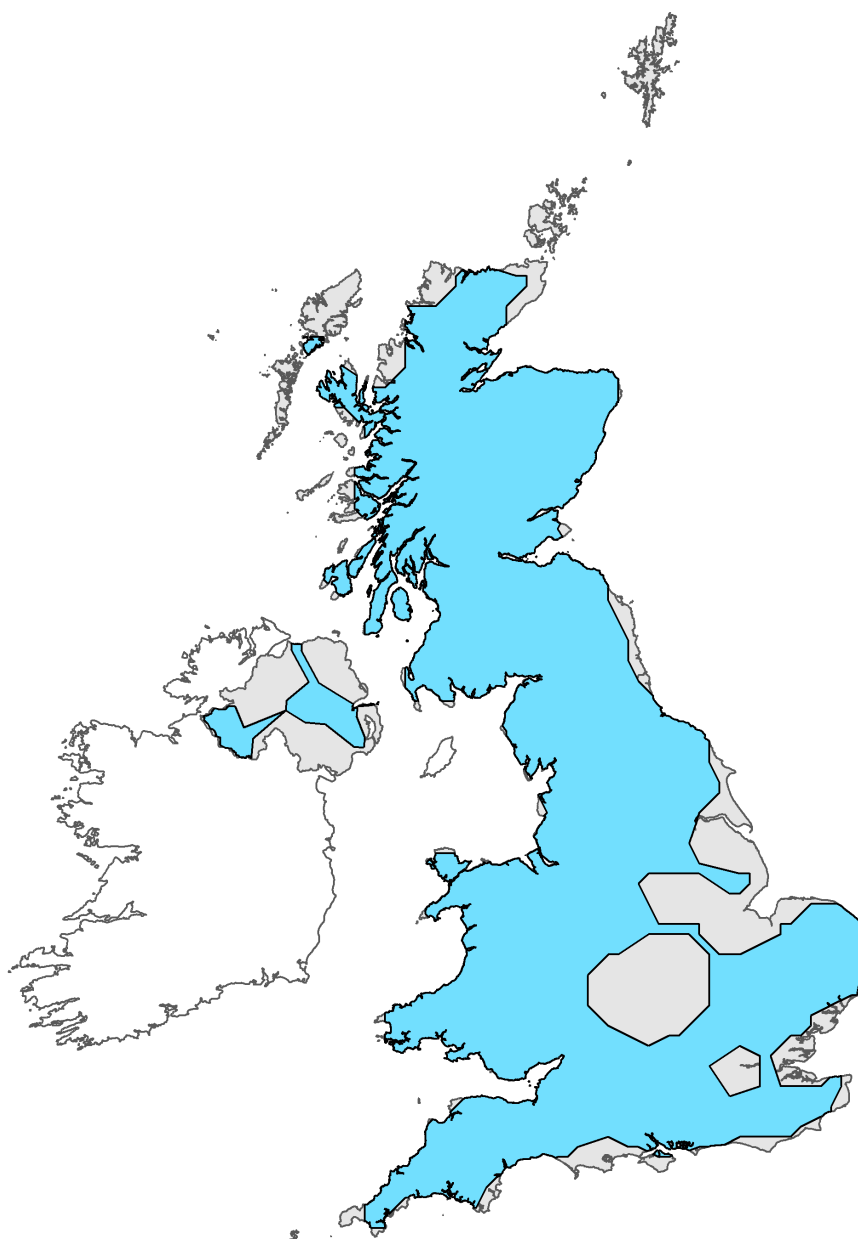


Figure 2: UK range map for H91E0 - Alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior* (*Alno-Padion*, *Alnion incanae*, *Salicion albae*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence 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.