

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


**Second Report by the United Kingdom under
Article 17
on the implementation of the Directive
from January 2001 to December 2006**

**Conservation status assessment for
Species:
S1109 - *Thymallus thymallus* - Grayling**

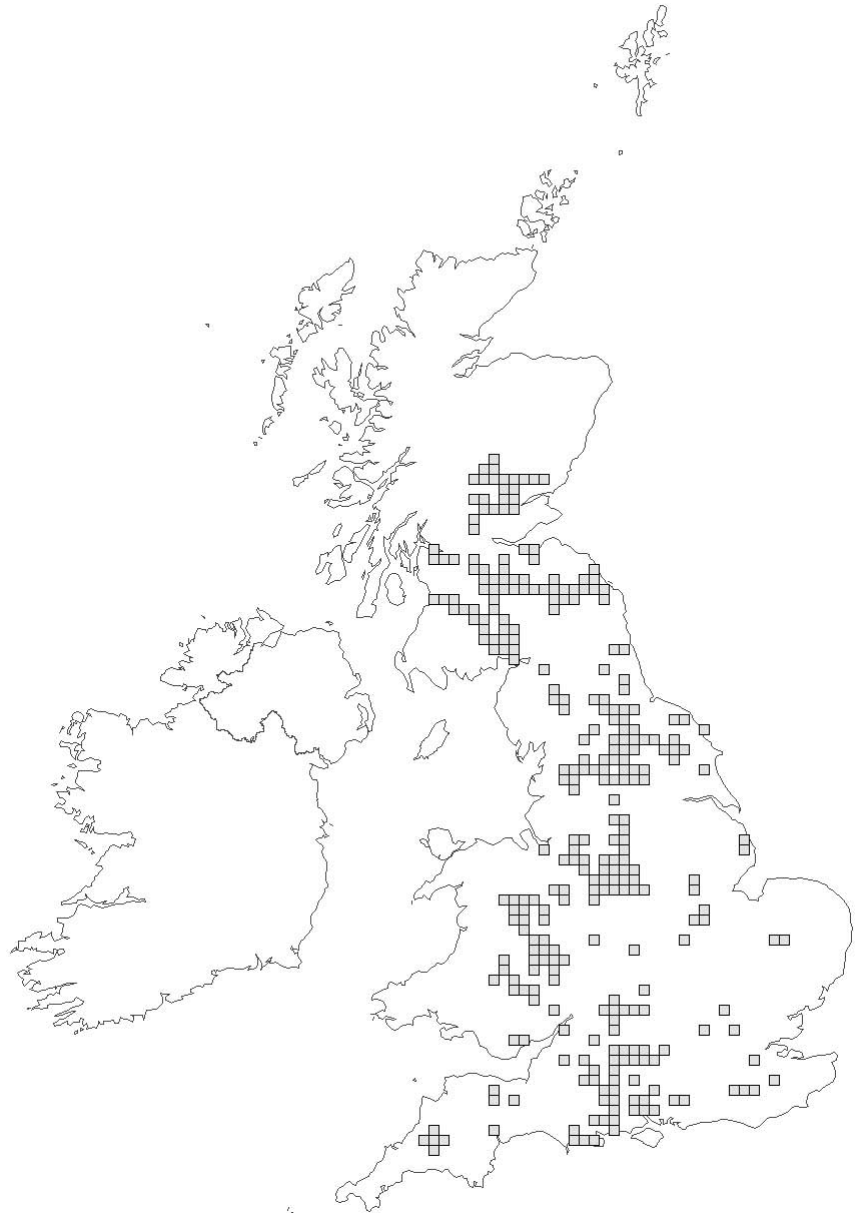
The information in this assessment corresponds to the "species fact sheet" submitted by the UK to the European Union in February 2008 (second and final submission). Please note that this is a section of the UK's report. For the complete report visit <http://www.jncc.gov.uk/article17>

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Species Name: *Thymallus thymallus*

1. National level	
Species Code	S1109
Member State	United Kingdom
Biogeographic regions concerned within the Member state	ATL
1.1 Range map	 A map of the United Kingdom showing the distribution of <i>Thymallus thymallus</i> . The distribution is indicated by grey shaded areas. The map includes the main islands of Great Britain and Ireland, as well as the Channel Islands and the Shetland Islands. The shaded areas are concentrated in the eastern and southern parts of Great Britain, with some smaller patches in the north and west. There is also a small shaded area in the Channel Islands and another in the Shetland Islands.

1.2 Distribution map



2. Biogeographic level

2.1 Biogeographic region

ATL

2.2 Published sources and/or websites

DAVIES, C.E., SHELLEY, J., HARDING, P.T., MCLEAN, I.F.G., GARDINER, R. & PEIRSON, G., (eds.) 2004. Freshwater fishes in Britain - the species and their distribution. Harley Books, Colchester.

ENVIRONMENT AGENCY 2003. National Trout and Grayling Fisheries Strategy. Environment Agency, Bristol.

IBBOTSON, A.T. COVE, R.J., INGRAHAM, A., GALLAGHER, M., HORNBY, D.D., FURSE, M. & WILLIAMS C. 2001. A Review of Grayling Ecology, Status and Management Practice Recommendations for Future Management in England and Wales. Environment Agency, Bristol.

MAITLAND, P.S. 2004. Keys to the Freshwater Fish of Britain and Ireland with notes on their distribution and ecology. Freshwater Biological Association, Scientific Publication No. 62.

	<p>MAITLAND, P.S. & CAMPBELL, R.N. 1992. Freshwater Fishes of the British Isles. HarperCollins, London.</p> <p>PERSAT, H. 1996. Threatened populations and conservation of the European grayling, <i>Thymallus thymallus</i> (L., 1758). In Conservation of Endangered Freshwater Fish in Europe (Kirchhofer, A. & Hefti, D., eds), pp. 233–247. Birkhaeuser Verlag, Basel (Switzerland).</p> <p>PHILLIPS, R. & RIX, M. 1985. A Guide to the Freshwater Fish of Britain, Ireland and Europe. Treasure Press, London.</p> <p>Map Data Sources</p> <p>Biological Records Centre - Database for the Atlas of Freshwater Fishes (via the NBN Gateway)</p>			
2.3 Range of species in the biogeographic region or marine region				
2.3.1 Surface range of the species (sq km)	83284			
2.3.2 Date of range determination	1990-2003			
2.3.3 Quality of data concerning range	Moderate			
2.3.4 Range trend	Unknown (X)			
2.3.5 Range trend magnitude (%)	Not applicable			
2.3.6 Range trend period	1994-2006			
2.3.7 Reasons for reported trend	Not applicable			
2.4 Population				
2.4.1 Population size estimation	Minimum	293	Maximum	293
	Units	Other Occupied 10-km squares		
2.4.2 Date of population estimation	1990-2003			
2.4.3 Method used for population estimation	2 - Extrapolation from surveys of part of the population			
2.4.4 Quality of population data	Poor			
2.4.5 Population trend	Unknown (X)			
2.4.6 Population trend magnitude (%)	Not applicable			
2.4.7 Population trend period	1994-2006			
2.4.8 Reasons for reported trend	Not applicable			
2.4.9 Justification of % thresholds for trends (optional)	Not applicable			
2.4.10 Main pressures	211 - fixed location fishing; 701 - water pollution; 852 - modifying structures of inland water courses;			

2.4.11 Threats	211 - fixed location fishing; 701 - water pollution; 852 - modifying structures of inland water courses;
2.5 Habitat for the species in the biogeographic region or marine region	
2.5 Habitats for the species	T. thymallus' habitat requirements are, for the most part, typical of that required by other salmonid species, such as Atlantic salmon and trout. It favours clean, well-oxygenated water, and a gravelly or sandy substrate (Maitland & Campbell, 1992; Maitland, 2004). Larvae are found in the marginal zones of vegetated, slow-flowing rivers; larger fry shoals occupy the transitional area between the margins and mid-channel. They are unable to tolerate high water temperatures and are very sensitive to organic pollution (Davies et al., 2004).
2.5.2 Area estimation (sq km)	Unknown
2.5.3 Date of estimation	05/2007
2.5.4 Quality of data	Poor
2.5.5 Trend of the habitat	Stable (=)
2.5.6 Trend period	1994-2006
2.5.7 Reasons for reported trend	Not applicable
2.6 Future prospects	
2.6 Future prospects for the species	Good prospects_Species expected to survive and prosper
2.7 Complementary information	
2.7.1 Favourable reference range (sq km)	83284
2.7.2 Favourable reference population	
2.7.3 Suitable Habitat for the species	Unknown
2.7.4 Other relevant information	
2.8 Conclusions <i>(assessment of conservation status at end of reporting period)</i>	
(2.3) Range	(FV) - Favourable
(2.4) Population	(XX) - Unknown
(2.5) Habitat for the species	(XX) - Unknown
(2.6) Future prospects	(FV) - Favourable
Overall assessment	(XX) - Unknown