

Nature in the Dales:

# 2020 vision

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The second Biodiversity Action Plan for the  
Yorkshire Dales National Park

## **Mesotrophic Lakes Habitat Action Plan**

Yorkshire Dales Biodiversity Forum, 2011  
Amended Feb 2015

**MESOTROPHIC LAKES HABITAT ACTION PLAN**

**DEFINITIONS**

Mesotrophic lakes (i.e. those in the middle of the trophic range) are relatively infrequent in the UK and largely confined to the margins of upland areas in the north and west. They are characterised by having a narrow range of nutrients, the main indicative ones being inorganic nitrogen (N) and total phosphorus (P). Typically, mesotrophic lakes have nutrient levels of 0.3-0.65 mgNI-1 and 0.01-0.03 mgPI-1. Thus, this is an increasingly rare type of lake.

Mesotrophic lakes potentially have the highest macrophyte diversity of any lake type. Furthermore, relative to other lake types, they contain a higher proportion of nationally scarce and rare aquatic plants. Macroinvertebrates are well represented, with particularly important groups being dragonflies, water beetles, stoneflies and mayflies.

**STATUS IN YORKSHIRE DALES NATIONAL PARK 2011**

2 sites:

Malham Tarn (61ha)	Favourable
Semer Water (34ha)	Unfavourable – no change

**UK & REGIONAL BIODIVERSITY TARGETS 2011**

<b>UK BAP Targets</b>	<b>Priority Actions for YDNP LBAP</b>
Maintain the condition of all mesotrophic lakes of known conservation importance currently judged in good condition (Tier 1 sites).	Yes
Achieve good condition by 2010 in 7 mesotrophic lakes of conservation importance that have been damaged by human activity (Tier 2 sites).	Yes
Improve the condition by 2010 of a further 82 mesotrophic lakes of conservation importance that have been damaged by human activity (Tier 2 sites). The target condition for all such sites should be in good or recovering condition by 2030.	No
Maintain the condition of remaining mesotrophic lakes of known conservation importance (Tier 2 sites).	No
Prevent further deterioration in condition of the remaining mesotrophic lakes (Tier 3 sites).	No
Undertake restoration measures by 2010 on five sites which have become so degraded that they have lost some qualifying feature of a mesotrophic lake of conservation importance (e.g. presence of a BAP species).	No

<b>Regional Biodiversity Targets</b>	<b>Priority Actions for YDNP LBAP</b>
Achieve Condition of Tier 1 Sites	Yes
Achieve Condition of five Tier 2 Sites	Yes
Achieve Condition of 79 Tier 2/3 Sites	No

**NATURE IN THE DALES: 2020 VISION  
OBJECTIVES, ACTIONS, TARGETS & MILESTONES**

**Objective**

**ML1.1:** Maintain Favourable Condition for Malham Tarn by 2016.

**ML1.2:** Achieve Favourable Condition of Semer Water by 2016

**Actions & Targets**

<b>Actions</b>	<b>Main Delivery Mechanism</b>	<b>Lead Organisation</b>	<b>Indicator</b>
<b>ML1.1:</b> Maintain the condition of Malham Tarn.	Malham Tarn NNR Management Plan	National Trust	Area of habitat in "Good Condition"
<b>ML1.2:</b> Achieve Favourable Condition of Semer Water by 2016.	Raydale Project	Raydale Project	

**Milestones**

<b>Actions</b>	<b>Target</b>	<b>When?</b>
<b>ML1.1:</b> Maintain the condition of Malham Tarn.	Maintain Condition	Ongoing
<b>ML1.2:</b> Achieve Favourable Condition of Semer Water.	Achieve Condition	2016

*Nature in the Dales: 2020 Vision* was written and co-ordinated by Tim Thom, Ian Court, Frances Graham & Hannah Fawcett of the Yorkshire Dales National Park Authority in 2011, following consultation. The production of the plan was steered, advised and supported by the Yorkshire Dales Biodiversity Forum who will be responsible for ensuring that the actions and targets in *Nature in the Dales: 2020 Vision* are achieved. Minor revisions made Feb 2015.

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