

Micropropagated

Beadamoss®

Sustainable Sphagnum

Scaling Sphagnum Restoration for Flood Management, Carbon Sequestration and Biodiversity

Is there an optimal density for Sphagnum planting?

- Adaptable to goals of restoration - Trials planting 4-8 BeadaHumok/m² for natural flood management, wildfire prevention, and carbon sequestration
- Many of our major partners have established a new standard minimum density of 2,500 plugs per hectare, with a goal of 4,000 plugs per hectare. A dramatic increase from previous standard of 1,250 plugs per hectare
- Sphagnum planted at a trial density of 8 plugs per m² on Kinder Scout Plateau in 2016 have established full cover (average 1200x volume increase over 10 years of growth) and encouraged recovery of natural peatland floral assemblage
- Current trials indicate an optimal planting density of 3 plugs per m² for colonisation and cover on bare peat



Wildfire Resilience of Sphagnum

The recent devastating Peak District wildfire on Snake Summit tore through a natural flood management trial site where ~280,000 had been planted only 2 months prior.

Initial post-fire monitoring indicates that recently planted Sphagnum plugs in areas of the trial site survived the blaze.

The continued presence of Sphagnum on site should help to facilitate recovery by holding water at the surface as the plugs establish and prevent further desiccation.

Beadamoss Update

Vascular Plug Plant Diversification

Aiming to supply a wider range of vascular peatland species by the 2027/2028 restoration season, to support a comprehensive or multi-phased approach to revegetation

Additional prospective species:

- *Andromeda polifolia* - Bog-rosemary
- *Myrica gale* - Bog myrtle
- *Comarum palustre* - Marsh cinquefoil
- *Drosera rotundifolia* - Round-leaved sundew
- *Menyanthes trifoliata* - Bog bean
- *Narthecium ossifragum* - Bog asphodel
- *Trichophorum germanicum* - Deergrass
- *Vaccinium oxycoccos* - Cranberry
- *Vaccinium vitis-idaea* - Cowberry

We are seeking donor sites to contribute to a wide bank of genetic material, please get in touch!



Scaling Up Capacity

We have supplied >25 Million BeadaHumok® to date and are in the process of acquiring a new BeadaMoss site which will double the capacity of our production facilities within 2-3 years



CPD Training Opportunity

- 1 Day course in development to kick off Autumn 2026
- Background on Sphagnum production and role in peatland ecosystems
- To include bespoke tours of our production facilities— including laboratory species identification



Innovations in Sphagnum Planting



- Machinery in development to help scaling of Sphagnum restoration
- Ground-driven system using standard 3-point linkage
- Planting rate of up to 1,200 per hour (dependent on ground conditions)
- Seeking participants for site-based trials over the summer, please get in touch!