### **Practical Guide:**

## Land Management for

# Lesser Butterfly Orchid (*Platanthera bifolia*)



National Advice Hub
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#### **Action Points**

Lesser Butterfly Orchid has a single flowering spike of creamy white flowers up to 30 cm in height. Two 5-8cm oval blunt leaves sit at the base of the plant. Don't confuse with the more common Greater Butterfly Orchid.

- Don't drain, plough fertilise or re-seed rough pasture and old meadows.
- The plant will decline under heavy grazing or cutting particularly when it's repeated every year.
- Thrives best under light grazing as too little grazing causes dense tussocky grassland to develop excluding the orchids.



#### **Habitat Requirements**

Lesser Butterfly Orchid is a long-lived perennial which flowers from June to July.

Its habitat is open heath with damp acidic soils such as moorland and heath.



The flower spikes can be easily damaged.in the spring as they emerge. The aim in all situations is to provide a level of grazing that allows plants to grow from early spring, flower in May and June and then set seed, but which keeps highly competitive vegetation under control.

The seeds, which are very small, can disperse widely on the wind but require a specific mycorrhizal fungus to germinate and for early development, without which the seeds are not viable. The habitat requirements for this fungus are not known but it is susceptible to fertiliser and fungicides.





#### Status of Lesser Butterfly Orchid in the UK

Lesser Butterfly Orchid is a UK Biodiversity Action Plan species. It is listed on the Scottish biodiversity species of principal importance for biodiversity conservation in The Nature Conservation (Scotland) Act 2004. Once widespread this is a declining species now lost from 75% of it's sites in England but still widespread across NW Scotland in particular. A scarce plant with less than 10 flowering spikes in the majority of Scottish sites.

It is classified as 'vulnerable to extinction' on the Vascular Plant Red Data List for Great Britain (2005).

#### **Management Requirements**

For heathland sites, light grazing with pulses of periodic heavier grazing should be undertaken. Periodic grazing is likely to be more difficult on heathlands, but again the aim should be to maintain open habitats with a mosaic of grass and heather, without allowing the latter to dominate and outcompete the Lesser Butterfly Orchid.

Lesser Butterfly Orchids are indicators of ecologically important sites with a long history of low input grazing or cutting. They occur with wide range of associated biodiversity, including many insects and birds, both common and rare.

#### Lesser Butterfly Orchids and Hawk Moths

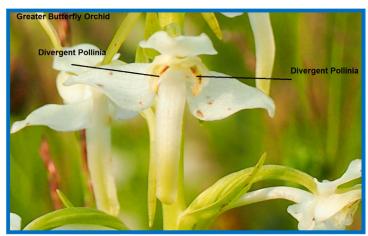
The flowers emit a strong sweet smell during the evening to attract Hawk moths which pollinate the flowers during the night. These are large moths over an inch long who have long tongues. As they reach for the nectar with their tongue, the pollinia come off the flower and attach themselves to the moth to be transported to another flower.



#### **Differences between Lesser and Greater Butterfly Orchid**

Lesser Butterfly Orchid looks very similar to Greater Butterfly Orchid, except that it is smaller, but this is difficult to see in the field. The most reliable way to tell them apart is to examine the angle and distance between the two club-shaped pollinia (pollen sacs) in the mouth of the flower which is easy to see. In Lesser Butterfly Orchid the pollinia lie close together (c. 1 mm apart) and parallel forming a 'II' shape. In Greater Butterfly Orchid they are widely-spaced at the base, divergent (c. 3-4 mm apart), forming an inverted 'V' shape.



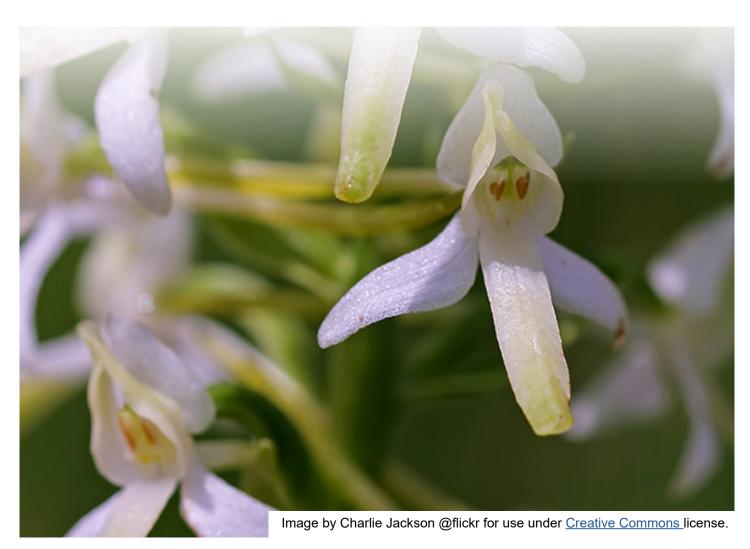


#### **Key messages:**

## Don't graze heavily especially in the spring Don't drain, plough fertilise or re-seed

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