# sphagnum

Sphagnum sp.

# How are raised bogs formed?

Mires are wetlands with thick layers of peat, consisting of dead and partially decayed plant material. The main reason for the slow decay is that there is practically no oxygen in the waterlogged soil. Most decomposers need oxygen and cannot survive here. Without these organisms, there is no decay and the bog rises in height. The peat layers in Komosse are between three and four metres deep, but in some places they are more than eight metres thick. The bog has formed over thousands of years and has grown on average 0.5

MTT-eRetaYeBe divided into fens and bogs. Fens receive water and nutrients both from rainwater and from surrounding mineral soil, and are therefore nutrient-rich. In bogs, often located in the central parts of the mire, the peat layer grows upwards, resulting in a domed surface. Water runs off from the central parts of the bog to the outside edges. The bog only receives nutrients from rain and snow and is therefore poor in nutrients and plant species.

red-throated

avia stellata

Raised bogs are formed in areas with high precipitation and low evaporation. The circle of wet zones on the outer margins of the raised bog is known as the lagg. This leads away water coming from the domed surface of the bog.



### Birdlife and the wetlands

Meadow pipit is the most common bird on Komosse. It is a small bird that breeds in open landscapes. The meadow pipit has declined in southern Sweden since the 19th century, when there were significantly more wetlands compared with today. A large proportion of wetlands were ditched and drained to create more arable land. During the late 20th century, many drained mires were planted with forest. The closure of small traditional farms has also resulted in wetlands and fens that were previously used for grazing and haymaking, becoming overgrown.

Yellow wagtail is another bird that breeds on wet meadows. It has also declined as a result of traditional management being abandoned in many places. But the yellow wagtail has found a haven in Komosse, where its numbers have increased.

Raised bogs receive nutrients only from rainwater.

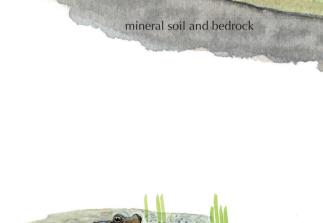
sphagnum peat

Other species affected by draining, ditching and encroachment include red-throated loon and waders such as wood sandpiper, snipe, curlew and golden plover. These birds breed on the expansive, open spaces on Komosse. Golden plover is common here, and in summer you can hear its melancholic call. In early spring, black grouse cocks lek on the open bog. Capercaillie and coniferous woodland birds such as crested tit, coal tit and willow tit thrive in the forested areas around Komosse.





mineral soil and bedrock





## Other wildlife

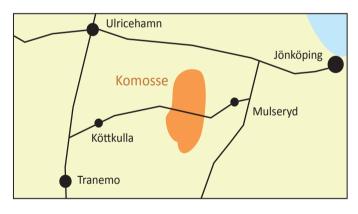
Moose finds grazing in the laggs and other fen areas. Other mammals that live on the bog include small rodents, deer, fox and hare. In the wet meadows live small animals such as frogs, toads, adder and grass snake. Here you can also see the beautiful swallowtail, one of the largest and most colourful butterflies In Sweden. The swallowtail lays its eggs on the leaves of milk-parsley, which also constitutes the main food for the larvae. Raft spider, which is Sweden's largest spider, lives by the water in the wet meadows. It does not spin a web, but catches its prey through a quick attack from a water lily or chickweed leaf

# History of the reserve

In 1949, the Swedish Society for Nature Conservation bought 2 286 hectares of the most interesting and central parts of Komosse. A national campaign among Swedish nature lovers yielded the SEK 40 000 required for the purchase. Today, Komosse Nature Reserve comprises almost 3 000 hectares and is located in both Västra Götaland and Jönköping counties.

The purpose of the nature reserve is to safeguard one of Sweden's most interesting mire areas for scientific conservation and outdoor recreation.

## Find your way here!





This leaflet is published in collaboration with the County Administrative Boards in Västra Götaland and Jönköping.









