

1. Production cost in continuous cover forestry

Sveaskog is testing continuous cover forestry methods (selective felling, maintained screen, chessboard felling, edge felling) on the ecoparks in southern Sweden. There are no models, or any follow-up on production costs. We propose as a degree project to follow up the volume and cost of various projects carried out in 2021 - 2024 (about 50). It is also possible to add new objects in 2025. Data can be compared with cost curves for regular thinning and regeneration felling.

Location; Meeting with harvetsing managers and similar for data collection takes place in Jönköping/Vimmerby. Otherwise any location. Sveaskog offers office space if it suits. Contact company supervisor; R&D Manager Fredrik Klang, 070-6970377 (fredrik.klang@sveaskog.se)

2. Deciduous plantations measures and development 20 years after storm Gudrun

After the storm Gudrun (2005), Sveaskog planted 10% of the storm-felled area with deciduous trees (birch, beech, hybrid aspen, bird berry, oak). These forests are now 18-20 years old, some have already been cleared and thinned, others are in great need of action. In 2025, we want a thorough follow-up of what has become of the stands, depending on tree species and treatment. And what measures, if any, have been taken after establishment. This will be an important knowledge base for new investments in more tree species.

Location; Data collection takes place in Götaland with emphasis in the southwest. Sveaskog offers office space if it suits. The work is suitable for both 15 and 30 points work, and one or more degree workers. Contact the company supervisor; R&D Manager Fredrik Klang, 070 697 03 77 (fredrik.klang@sveaskog.se)

3. Monitoring lichen abundance at different shelter wood densities

Through an inventory of ground lichen and regeneration at different shelter wood densities, quantify the amount of lichen and regeneration at the different measures and assess the possibilities of using pine shelter wood as a more gentle management system for reindeer husbandry when regenerating pine.

The work is carried out on site at *the University* and, if necessary, Sveaskog will provide office space at a suitable local office. Remuneration is paid according to the attached instructions after completion of the work.

The main supervisor at Sveaskog is Johan Lundbäck. For more information contact Johan.lundback@sveaskog.se, 070 350 11 07

4. Monitoring lichen occurrence by canopy cover and tree species

A trial was set up about 10 years ago to investigate ground lichen under different light conditions and tree species. We are interested in a follow-up of lichen occurrence and lichen quantity as well as competition with other vegetation depending on tree species and light input. The experiment is located outside Sveg and is repeated at two locations with 3 repetitions of each light treatment and tree species.

Fieldwork takes place on site in Sveg and, if necessary, Sveaskog assists with office space at a suitable local office. Remuneration is paid according to the attached instructions after completion of the work.

For more information contact Johan Lundbäck, Johan.lundback@sveaskog.se ,070 350 11 07

5. Automatic plant counting when packing in a planter box

When we pack seedlings into boxes, the number is calculated on the basis of an estimate made before packing, in the autumn, which means that a batch contains the estimated number of seedlings. With an accurate method, each box would have an actual number of seedlings, and thus not have an excess of seedlings when delivered to the customer. At our five nurseries, we have a varied number of seedlings in the boxes, from 90 to about 550 seedlings. In total, we pack 130 million seedlings per year at our five facilities.

Concrete objectives of the project

- Reading the correct number of seedlings packed in a box
- Possibility to report back to business systems
- Flexible systems to handle different plant types and sizes

The work is carried out on site at the university and, if necessary, Sveaskog will provide office space at a suitable local office. Remuneration is paid according to the attached instructions after completion of the work.

The main supervisor at Sveaskog is Johan Lundbäck Johan.lundback@sveaskog.se , 070-350 11 07 and the expert supervisor is Niclas Nord niclas.noord@skogsplantor.se, 070-568 72 52