Field trial of SILVIVO® – SM007 Ramsele, Ångermanland, Scots pine – Unprepared ground

Trial 16 May – 17 October 2026 (154 days)

Introduction

At the trial site, containerised Scots pine seedlings treated with SILVIVO® were compared with untreated control seedlings of the same seedling type. The aim was to follow differences in survival and growth during the first establishment period on unprepared ground.

The clear-cut covered about one hectare, and the treated seedlings were established in the rows closest to the road and marked with sticks.

Pictures from the site

Area identification





Follow-up 2026-10-17







Pictures of three untreated (left) and three treated (right) seedlings at the follow-up on 17 October 2026.

Results in brief

Key results

Measure	Control	SILVIVO®	Observed difference
Survival	100%	100%	0%
Mean seedling height	114 mm	155 mm	36%

Short conclusion

After almost 5 months, the SILVIVO® group had 100% survival and 36% greater seedling height than the control group.

Important to know

The results describe the outcome at this site and during the period in question. They should be interpreted together with soil conditions, weather, damage and the scale of the trial. A single field trial is not sufficient to draw general conclusions about all planting situations.

The trial in brief

Location	Ramsele, Ångermanland
Planting date	2026-05-16
Follow-up date	2026-10-17
Tree species and seedling type	Scots pine, medium-sized containerised seedling from SSP (packed 2025-12-11)
Scope	Scots pine, with marked rows treated
Soil conditions	Dry, poor pine land, bilberry type, moraine.
Site preparation	None
Dosage	1.6 grams per seedling
Application	Hand-dosed into planting tube
Trial focus	Survival and growth

The question the trial aims to answer

Do SILVIVO®-treated seedlings show better survival and early development than the control seedlings on unprepared ground under the conditions at the trial site?

Site conditions

Soil and planting

- Soil type and soil moisture: Moisture content was good at planting.
- Seedling quality: Freshly thawed seedlings
- Site productivity or site index: T24.
- Elevation and climate zone: 265–279 metres above sea level, climate zone 6.
- Harvesting: took place in January 2026
- Site preparation method and timing: None
- Planting spot: In unprepared ground
- Tree species and seedling type: Scots pine, medium-sized containerised seedling from SSP (packed 2025-12-11)
- Seedling protection: Sprayed-on mechanical coating protection
- Known risks: Some risk of browsing damage and pine weevil. Freshly thawed seedlings carry some risk of not having been fully thawed.



Map of the clear-cut, marked in orange. In total, 60 seedlings were included: 30 treated with SILVIVO® and 30 untreated control seedlings. Every other planting row was treated with SILVIVO® and marked with blue sticks.

Weather during the trial period

Weather for the period 16 May – 17 October 2026, based on the Junsele A station for both temperature and precipitation. Data are available for all 154 days.

The mean daily temperature was 11.9°C over the period, ranging from −0.6°C on 12 October to 19.8°C on 16 July. The warmest day was 16 July with a daily maximum of 29.0°C, and the coldest night occurred on 13 October with a daily minimum of −5.1°C. In total there were 5 summer days (daily maximum ≥25°C), but no really hot day (≥30°C). There were 12 frost nights, the first on 11 September and then on 14, 27 and 30 September and on 8, 10, 11, 12, 13, 15, 16 and 17 October. No frost occurred in May, June, July or August.

Total precipitation was 341.5 mm. 43 days had at least 1 mm of precipitation, while 63 days were virtually dry (below 0.1 mm). The wettest day was 5 July with 31.7 mm, and the longest continuous dry spell lasted 8 days, from 9 to 16 July.

How the trial was carried out

Control and SILVIVO® groups were created

→ SILVIVO® was placed under the roots at planting

→ The seedlings were marked and documented

→ The same measurements were followed up in both groups

Common trial method

The trial was carried out according to the SILVIVO® model, a standardised working method for planning, documenting and following up field trials. The common structure makes it possible to compare control and SILVIVO® seedlings and to relate the results to the site conditions. Read more about the SILVIVO® model at www.silvivo.se

Results in detail

Survival

All treated and untreated seedlings in the representative sample survived.

Seedling height

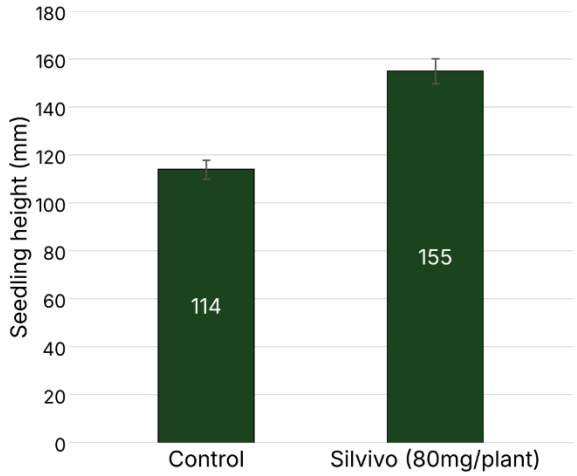


Chart of seedling height. Bars show means and error bars show the standard error of the mean (s/√n).

What happens next?

- Next follow-up: Autumn 2027
- Measurements to be repeated: Yes
- Planned long-term follow-up: Yes
- Comparison with other trial sites: No

About the trial

- Responsible for trial design: The landowner
- Responsible for measurements: The landowner
- Report date: 2026-10-27