

Hyppönen M., Hallikainen V., Bergsten U., Winsa H., Miina J., Valkonen S., Helenius P., Jaskari E., Rautio P. (2025). Is it possible to extend the season for direct seeding of Scots pine and lodgepole pine in northern Fennoscandia? *Silva Fennica* vol. 59 no. 3 article id 24064.
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Supplementary file S1

Figure S1: Disc trencher scarifying one of the monthly scarification strips (a), an example of seeding point with micro-preparation grid that was positioned on exposed mineral soil (b), seeding of a seeding point also showing the micro-preparation device used to create seeding points (c), and an example of soil frost upheaval with hair ice. Photos: Pasi Rautio (a, c and d) and Luke (b).



Figure S1a

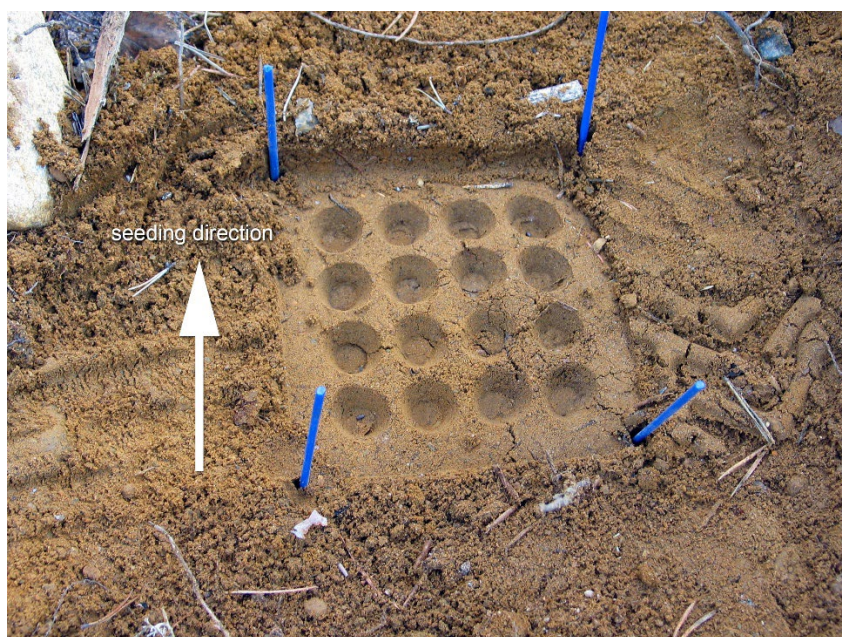


Figure S1b



Figure S1c



Figure S1d