

## Metadata form of *Silva Fennica*

This form is designed for writing the elements of metadata, which are used in the description of research materials such as data and codes. The form is based on the work done in the Work Group “Description of research materials” under the Finnish Open Science Coordination.

Item	Description	Responsible
<i>Hotanen, J-P et al</i>	Understorey vegetation data of drained <i>Picea abies</i> peatlands used in the article by Hotanen et al. in <i>Silva Fennica</i> 2026	Author
<i>Author &amp; ORCID</i>	Hotanen, Juha-Pekka, Miina, Jari (0000-0002-8639-4383), Korpela, Leila (0000-0001-9900-4332), Mäkipää, Raisa (0000-0003-3146-4425)	Author
<i>Authors' affiliation(s)</i>	Natural Resources Institute Finland, <a href="https://ror.org/02hb7bm88">Yliopistokatu 6, 80100 Joensuu Finland, https://ror.org/02hb7bm88</a>	Author
<i>Owner of the material</i>	Mäkipää, Raisa (0000-0003-3146-4425), Natural Resources Institute Finland <a href="https://ror.org/02hb7bm88">https://ror.org/02hb7bm88</a>	Author
<i>Publisher</i>	Natural Resources Institute Finland ( <a href="https://ror.org/02hb7bm88">https://ror.org/02hb7bm88</a> )	Author
<i>Funder</i>	Natural Resources Institute Finland, <a href="https://ror.org/02hb7bm88">https://ror.org/02hb7bm88</a> <a href="https://eur01.safelinks.">European Union's Horizon 2020</a> , Grant Agreements number 101000289 for the HoliSoils project and from the Flagship Program of Research Council of Finland for UNITE Flagship.	Author
<i>Description</i>	Monitoring the changes in the abundance of the species and species groups after harvesting for uneven-aged stands. The aim was to understand the impact of selection harvesting on the understorey vegetation in drained <i>Picea abies</i> peatlands. The study examined experimentally changes in the abundance of plant species and species richness caused by selection harvesting with varied intensity.	Author
<i>Methods</i>	The study sites included four drained peatland sites located in the southern boreal zone in Janakkala, Multia, Heinävesi, and Juuka municipalities in southern Finland. On three study sites, two different thinning intensities were tested (remaining stand basal area 12 m <sup>2</sup> ha <sup>-1</sup> and 17 m <sup>2</sup> ha <sup>-1</sup> ) and on the fourth (Multia) an intensity after which the stand basal area was 13 m <sup>2</sup> ha <sup>-1</sup> was used. The spruce-dominated stands on the experimental plots were thinned to the target basal area so that the remaining stand included trees of various sizes, the emphasis of the harvest removal was on the upper half of the stand diameter at breast height (DBH) distribution. The experimental plots were herb-rich and <i>Vaccinium myrtillus</i> drained peatland forest types. Vegetation was inventoried on each experimental plot from 15 systematically placed 1 m <sup>2</sup> vegetation squares before cutting in 2016, and two and six years after cutting in 2018, and in 2022. Two-way repeated measures ANOVA was used to determine how the percent cover of the species or species group was affected by harvesting treatment and time since treatment. The models were fitted, and the marginal means were estimated using the UNIVARIATE procedure in IBM SPSS Statistics 29 (IBM SPSS Inc., Chicago, IL, USA). To achieve normality and homogeneity of variances, the percent covers were ln-transformed before analysis. Post hoc least significant difference (LSD) pairwise comparisons of estimated marginal means were done for multiple comparisons.	Author
<i>Variables</i>	Percent cover of the species or species group Number of species	Author

	Treatment: no cutting, moderate cutting, heavy cutting Year (the measurement year): 2016, 2018, 2022	
<i>Author keywords</i>	ANOVA; continuous cover forestry; ground vegetation; thinning from above; uneven-aged cutting	Author
<i>Vocabulary keywords (community standard)</i>	Picea abies, drained mires, silviculture, forest vegetation, mire vegetation Finland	Author
<i>Discipline</i>	Forestry, silviculture, botany, biodiversity	Archive/Repository/Publisher
<i>Type of material</i>	Research data	Author
<i>Language</i>	ENG	Author
<i>Time range covered</i>	2016-07-25 to 2022-08-26	Author
<i>Geographic region</i>	Janakkala, Multia, Heinävesi, Juuka; municipalities in southern Finland	Author
<i>Version</i>	1	Author
<i>File format(s)</i>	.csv	Author
<i>Availability of the materials (open, embargo, registration, limited, registration required)</i>	Open	Author
<i>Justification for access restrictions</i>	None	Author
<i>Licence</i>	CC BY-SA	Author
<i>Connections with other research materials</i>	IsBasedOn	Author
<i>Access to the connected research materials</i>	Natural Resources Institute Finland ( <a href="https://ror.org/02hb7bm88">https://ror.org/02hb7bm88</a> )	Author
<i>Codes only: hardware/software requirements for running the code</i>	Hardware & software: the UNIVARIATE procedure in IBM SPSS Statistics 29 (IBM SPSS Inc., Chicago, IL, USA)	Author
<i>Connections to other products of research</i>	None	Author
<i>Personal data</i>	No personal data	Author
<i>Confidential or secret data</i>	No	Author
<i>Publication date</i>	February 9, 2026	Archive/Repository/Publisher
<i>Preservation policy</i>	The data are stored permanently in database and experimental register of Natural Resources Institute Finland as a part of the institutes data policy.	Author
<i>Permanent identifier (PID)</i>	<a href="https://doi.org/10.5281/zenodo.18595336">https://doi.org/10.5281/zenodo.18595336</a>	Archive/Repository/Publisher