

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>Name of the data / code</i>	Training and utilizing scent detection dogs in the detection of the European spruce bark beetle <i>Ips typographus</i>	Author
<i>Author & ORCID</i>	Kangaslampi, Reetta https://orcid.org/0009-0001-2965-3369 Tikkanen, Olli-Pekka https://orcid.org/0000-0002-3875-2772	Author
<i>Authors' affiliation(s)</i>	University of Eastern Finland, School of Forest Sciences	Author
<i>Owner of the material</i>	Kangaslampi, Reetta https://orcid.org/0009-0001-2965-3369 Tikkanen, Olli-Pekka https://orcid.org/0000-0002-3875-2772	Author
<i>Publisher</i>	Zenodo	Author
<i>Funder</i>	Finnish Cultural Foundation (Suomen Kulttuurirahasto), Finnish Forest Association (Suomen Metsäsäätiö), Huittisten Säästöpankkisäätiö, Suodenniemen Säästöpankkisäätiö, Jouko Tuovolan säätiö, Research Council of Finland (former Academy of Finland) [grant numbers 337127 and 357906 for UNITE flagship].	Author
<i>Description</i>	All material collected from training and testing scent detection dogs in the detection of spruce bark beetles, Microsoft Excel	Author
<i>Methods</i>	The data presents a pilot study in training scent detection dogs in a laboratory setting. Two dogs were trained with positive reinforcement techniques and tested by using a controlled blind trial indoors, and a small-scale trial outdoors. Bark beetles were collected with pheromone trapping (<i>Ipsowit</i>) from two regions (Northern Karelia and Pärnumaa) in Finland. To analyze data relevance, we performed two non-parametric binomial tests (laboratory results, field test results). Additionally, the difference between dogs' performances in the laboratory was analyzed using a Mann-Whitney U-test. The statistical program used was IBM SPSS Statistics 27	Author
<i>Variables</i>	trial number; date; dog; indication; correct positive identification, wrong positive identification, correct negative identification, wrong negative identification; interference odour; other notes	Author
<i>Author keywords</i>	<i>ips typographus</i> ; bark beetle; scent detection dog; conservation detection dog; dog training	Author
<i>Vocabulary keywords (community standard)</i>	forest management, <i>ips typographus</i> , conservation detection dog	Author
<i>Discipline</i>	Field(s) of study to which the material is related. This is generally given by the repository as they use specific classifications.	Archive/Repository/Publisher
<i>Type of material</i>	research data	Author
<i>Language</i>	ENG	Author
<i>Time range covered</i>	2022-06-08—2023-09-11	Author
<i>Geographic region</i>	Pärnumaa, Finland	Author
<i>Version</i>	1.0	Author
<i>File format(s)</i>	excel	Author
<i>Availability of the materials (open, embargo, registration, limited, registration required)</i>	Open Access (Zenodo): https://doi.org/10.5281/zenodo.16751767	Author

<i>Justification for access restrictions</i>	-	Author
<i>Licence</i>	Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit http://creativecommons.org/licenses/by/4.0/ .	Author
<i>Connections with other research materials</i>	-	Author
<i>Access to the connected research materials</i>	-	Author
<i>Codes only: hardware/software requirements for running the code</i>	-	Author
<i>Connections to other products of research</i>	https://erepo.uef.fi/server/api/core/bitstreams/c10f3ac2-77bd-498c-b58b-0da5c224061e/content	Author
<i>Personal data</i>	-	Author
<i>Confidential or secret data</i>	-	Author
<i>Publication date</i>	2025-08-06	Archive/Repository/Publisher
<i>Preservation policy</i>	Material will be preserved permanently by corresponding author	Author
<i>Permanent identifier (PID)</i>	https://doi.org/10.5281/zenodo.16751767	Archive/Repository/Publisher