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
Name of the data / code	The Norwegian Forest Sector Model	Author
Author & ORCID	Eirik Ogner Jåstad; eirik.jastad@nmbu.no; https://orcid.org/0000-0002-1089-0284	Author
Authors' affiliation(s)	Faculty of Environmental Sciences and Natural Resource Management, Norwegian University of Life Sciences; **https://ror.org/04a1mvv97**	Author
Owner of the material	Faculty of Environmental Sciences and Natural Resource Management, Norwegian University of Life Sciences; **https://ror.org/04a1mvv97**	Author
Publisher	Faculty of Environmental Sciences and Natural Resource Management, Norwegian University of Life Sciences; **https://ror.org/04a1mvv97**	Author
Funder	The Research Council of Norway, **https://ror.org/00epmv149**	Author
Description	The Nordic Forest Sector Model (NFSM) is a spatial, partial equilibrium model that simulates the dynamics of forestry, forest industries, and bioenergy markets in Norway, Sweden, Finland, Denmark, Estonia, Latvia, and Lithuania based on a neoclassical economics perspective. The model provides market equilibrium prices and quantities for each simulated period and handles the major forest product categories, including roundwood, sawnwood, wood-based panels, pulp and paper products, harvest and industrial residues, and bioenergy. The model, written in the General Algebraic Modeling Language (GAMS), solves a mixed integer linear programming (MILP) problem, optimizing welfare, defined as the sum of consumer and producer surpluses, given a large set of constraints. It gives insights into supply, demand, and price equilibria, making it valuable for policy and market analysis. A detailed description of NFSM is given in https://doi.org/10.1016/j.enconman.2019.01.065	Author
Methods	Programming in GAMS	Author
Variables	Not applicable	Author
Author keywords	NFSM; forest sector model; Nordic; partial equilibrium	Author
Vocabulary keywords (community standard)	Not applicable	Author
Discipline	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
Type of material	Model code	Author
Language	ENG	Author
Time range covered	Not applicable	Author
Geographic region	Norway, Sweden, Finland, Denmark, Lithuania, Latvia, Estonia	Author
Version	Not applicable	Author
File format(s)	.csv, .inc, gms, gdx,	Author
Availability of the materials (open, embargo, registration,	Open, accessibility on request to the authors.	Author

limited, registration required)		
Justification for access restrictions	Not applicable	Author
Licence	CC BY-NC-SA	Author
Connections with other research materials	Not applicable	Author
Access to the connected research materials	Contact: Eirik Ogner Jåstad; eirik.jastad@nmbu.no; https://orcid.org/0000-0002-1089-0284	Author
Codes only: hardware/software requirements for running the code	Access to the GAMS software, with an CPLEX solver	Author
Connections to other products of research	Not applicable	Author
Personal data	No	Author
Confidential or secret data	No	Author
Publication date	Not applicable	Archive/Repository/Publisher
Preservation policy	Stored at long term storage at NMBU	Author
Permanent identifier (PID)	Not applicable	Archive/Repository/Publisher