



PHD.-DEFENCE

Sisse Liv Jørgensen



THE SCOPE OF ECONOMIC INCENTIVES FOR SUSTAINABLE SOIL MANAGEMENT

High quality soils are essential to a series of ecosystem services, such as: food and fibre production, water purification, carbon storage etc. However, soil quality receives limited political attention. During her PhD studies, Sisse Liv Jørgensen has studied the possibility of creating economic incentives for sustainable soil management among Danish farmers.

The dissertation is based on surveys conducted with Danish farmers. The surveys include two choice experiments related to mapping of incentive structure. The analysis takes into account that sustainable soil is not only a public good, but farmers will also gain from an increase in soil quality by more stable and higher yields. Regulation possibilities are analysed through a classic payment for ecosystem services scheme and a natural insurance mechanism.

Sisse Liv Jørgensen finds that Danish farmers are very aware of the challenges from extreme weather and climate change, and the importance of high-quality soil and have a positive attitude towards new management schemes. However, farmers have preferences for flexibility in the management contracts. That is, the economic compensation can be lowered if the contract offers flexibility mechanisms. To achieve soil sustainability objectives cost effectively it is important to take this into account.

The PhD degree was completed at the Department of Environmental Science, Science and Technology, Aarhus University.

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Title of dissertation: The scope of economic incentives for sustainable soil management

Contact information: Sisse Liv Jørgensen, slj@envs.au.dk

Members of the assessment committee:

Professor Jette Bredahl Jørgensen, Institute for Food and Resource Economics, University of Copenhagen

Professor Sami Myyra, Natural Resources Institute Finland, Helsinki

Head of Section Berit Hasler (chair), Department of Environmental Science, Aarhus University

Main supervisor:

Professor Mete Termansen, Department of Environmental Science, Aarhus University

Co-supervisor:

Anne Winding, Department of Environmental Science, Aarhus University

Language: The PhD dissertation will be defended in English.

Reception: After the defense there will be a reception in the same building.

The defence is public.

The dissertation is publicly available from Pure - [read more](#)