



Reference sheet Risk assessment

Time of assignment

2019-2023

Client

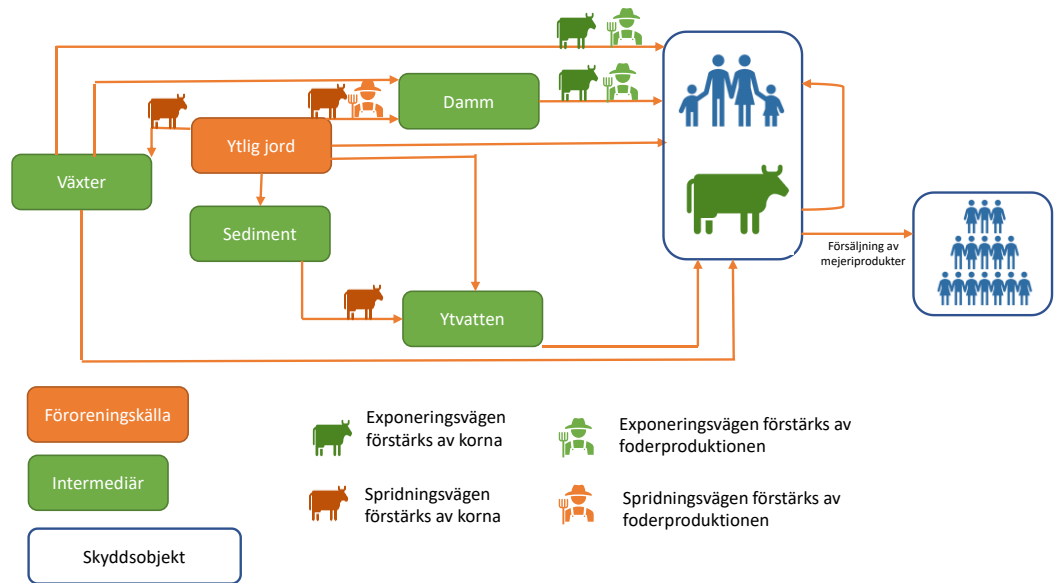
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Contact, NIRAS

Märta Ländell

Email

Marta.landell@niras.se



Scenario-specific risk assessment for abandoned forest nurseries

The assignment began in 2019 with the development of a conceptual model and problem description for areas contaminated primarily with DDT from former forest nurseries. These areas are now generally privately owned and used for residential purposes or various forms of animal husbandry and/or crop cultivation.

A scenario-specific risk assessment model has been developed for these areas. In addition to the exposure pathways considered in the Swedish Environmental Protection Agency's general model, human exposure to animal-derived food produced in the area and the exposure of farm animals to contamination have been considered (i.e., the animals are considered as protected objects).

In a later sub-project, human exposure to DDT and some additional pesticides through the consumption of wild berries and vegetables irrigated with groundwater from the area was calculated. In this work, a statistical analysis of the concentrations of the various substances within the property areas referred to as "cultivation fields" was conducted. For humans (adults and children), the dose for these exposure pathways was calculated and compared with an accepted exposure level.