CONTEXT PROFILE





FARMER Gudrun Haglund-Eriksson - Bengtstorp



INNOVATION Managing predators as lamb producer



MAIN DOMAIN OF THE INNOVATION Animal management



AGROCLIMATIC AREA Atlantic central



CLIMATE Moderate rainfall



SOIL TYPE Loam



MANAGEMENT



TECHNICAL Computer-based











FINANCE/INVESTMENT

MARKET Local-urban





CONTEXT PROFILE SWEDEN

Case Study: SE_13	Agroclimatic Zone								
Item (Key Innovation Elements)	Alpine	Atlantic Central	Atlantic North	Atlantic South	Boreal	Continental North	Continental South	Mediterranean North	Mediterranean South
Protect the domestic animals by predators (wolves, lynx), by installing predator-deterrent fences (sheep fences combined with an electric wire)	+++	+++	Х	++	+++	++	++	++	++
Availability of agri-environmental schemes with adequate payments for establishing and maintain the fences	++	+++	+++	++	+++	++	++	++	++



Generic information/not relevant



Funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.

Implementation Gaps

- for High costs (money, labour) establishment and maintenance of fences, unfavourable especially under topography/landscape
- High dependency on financial state support schemes: abandonment as a risk when schemes reduce or cease

Research Gaps

• Timely monitoring of the populations of predators and update of the regulations to ensure that the population of predators and especially wolves are held at a suitable level to ensure co-existence

- (loss of voltage)



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.

Suggestions to Adapt

• Ensure high voltage on fences, esp. along such large distances (ca. 4000 V)

• Ensure high electrical impulse (min. 2000 J)

• Ensure that fences are free from vegetation

• Keep guarding dogs to deter predators

• Adapt the height of fences to the wild animal species: 110 cm on this farm, but wolves and lynx can jump higher

COST-BENEFIT ANALYSIS

INVESTMENT COSTS

Total initial investment costs at start up:

- Initial authorisation costs (e.g. sanitary, veterinary, etc.)
- Initial advisory costs
- Initial buildings and machineries
- Initial certification costs
- Initial working capital (personal qualification, marketing and promotion, etc.)

ON-GOING COSTS

On-going advisory costs	
On-going certification costs	
On-going buildings and machinery costs	
On-going working capital	

BENEFITS RELATIVE TO ORIGINAL SYSTEM

• Economic

Reduction in energy consumption (electricity; fuel consumption)

Reduction in input use (fertilizers; pesticides; feed) etc.

Payback period

Product value added

Additional farm income through agroecological/agri-environmental payment schemes

• Environmental

Animal feed self-sufficiency increase

Biodiversity increase

Improved nitrogen cycling

Soil regeneration

Animal health and welfare improvement

• Social

Workload reduction

Engagement of young generation



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.

high
not applicable/not known

not applicable/not known

not applicable/not known

low

not applicable/not known

not applicable/not known

high

none or low

not applicable/not known

not applicable/not known

high

not applicable/not known

not applicable/not known

high

none or low

high

Literature

English

- <u>https://www.ontariosheep.org/media/soqfaeww/fencing-options-for-predator-control_omafra.pdf</u>
- <u>https://www.protectiondestroupeaux.ch/fileadmin/doc/Projekte/Zauneffizienz_Klara_Hansen_2018_/Masterthesis_K.Hansen.pdf</u>
- https://www.researchgate.net/publication/339148512_Keeping_predators_out_testing_fences_to_reduce_livestock_depredation_at_night-time_corrals_



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.

<u>pdf</u> n at night-time corrals