



PRECILIENCE project (2024-2028)

Agricultural water management for climate adaptation

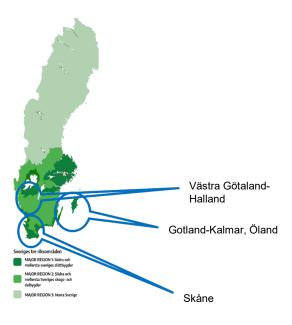
PURPOSE

The PRECILIENCE project is a Nordic initiative for innovation and climate adaptation in agricultural and forestry production systems, funded by the EU Mission: Adaptation to Climate Change. In PRECILIENCE we study new innovations for water storage and irrigation, cover ditch systems, crop rotation adaptation and pest and disease risks for climate adaptation in different regions of Sweden. The results from this project will provide new knowledge about technologies and practices for climate-smart agriculture, and inform technical and investment needs going forward.

As part of climate adaptation that is already underway, Swedish and other Nordic farmers have invested in innovations for irrigation and water storage. There is a growing local understanding of this development, but regional analyses are lacking. SLU, through PRECILIENCE, aims to investigate the technical and operational water storage solutions that are currently being developed in two regions in Sweden.

ACTIVITIES

We are seeking collaborations with farmers who have recently invested in built-in water storage for irrigation, such as dams or reservoirs, since 2016. The project aims to make measurements in 5-15 dams in three production regions in Sweden during 2025-2027 (see map).



Data included in the study:

- Water quality to investigate nutrient recycling (samples for N,P, temperature and e Coli) and water volume in storage and withdrawal for irrigation
- Physical details of ponds, including size, volume, drainage area
- A questionnaire on construction, water use, management and possible water overruns

PARTICIPATION AND DATA

Data will be collected and published in scientific journals and popular science channels. All data from landowners will be anonymized (no names or traceable locations). We will consult on the data before publication and the data will be shared back to individual landowners in digital form annually.







PRECILIENCE is a €10 million Horizon Europe project that develops climate resilience in agriculture and forestry in boreal Europe.

PRECILIENCE research and demonstration areas

