

English title: Agronomic performance of forage species mixtures in sustainable agriculture

Norsk tittel: Agronomisk verdi av artsblandinger av fôrvekster i bærekraftig landbruk



Cultivating several crop species at the same time and on the same piece of land (intercropping) has several benefits such as higher yields, yield stability and resilience. During the work with this project you will obtain experience in field experimentation and knowledge about forage production.

A field experiment with various forage mixtures composed of timothy, perennial ryegrass, red clover, bird's foot trefoil, chickory and ribwort plantain was sown in 2022. In 2024, the field will be ploughed and sown with barley to study the carry-over effect on the next crop in the rotation. You will take part in the management of this experiment in one year in the period 2023-2024 and record various attributes of the different experimental plots such as yield, forage quality, winter survival, weed occurrence and interactions between the different species in the mixtures. You will perform statistical analyses and interpret the data in light of what is already known in the literature.

The work will consist of field work, data analysis, literature study and writing.

Subject area: Plant science, biology, agronomy, crop ecology, sustainable agriculture

Language thesis: Norwegian or English

Bachelor or Master thesis: Both possible

Credits: 60, 30 or 15

Project: Diversilience - [DIVERSILIENCE - Diversifying organic crop production to increase resilience | NMBU](#). Collaboration with partner in Ireland.

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