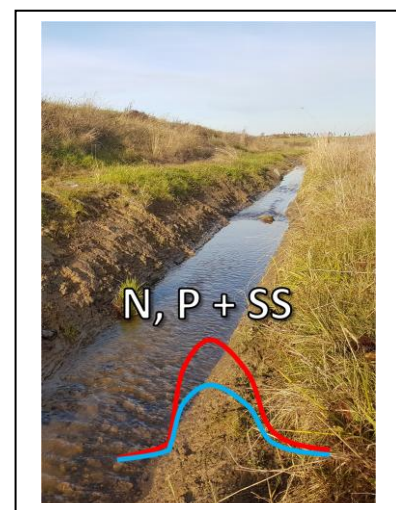


Understanding water quality controls and reducing diffuse pollution in agricultural catchments

Credits: 30 credits
Level: Master
Subject: Environmental Science
Start: Anytime

Background

Eutrophication of fresh and coastal waters in Sweden requires firm actions aiming to reduce diffuse pollution of nutrients, sediments and pesticides from agricultural catchments while maintaining food production. By improving our scientific understanding of processes controlling water quality in agricultural catchments, we are able to propose measures e.g. wetlands or two-stage ditches that can improve water and nutrient retention in the landscape. This is a broad and interesting topic, you can create your own project (check my website for recently completed MSc projects).



Objectives

To evaluate the effectiveness of different mitigation measures using the new and existing data. To conduct field and laboratory measurements providing new information on the role of the mitigation measures in reducing nitrogen and phosphorus concentrations.

Performance

The work involves:

- Statistical analysis of a large water quality dataset,
- Field and laboratory measurements,
- Literature review and report writing.

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