Reed canarygrass and grass ley as bio-energy crops on peat soils

Örjan Berglund & Kerstin Berglund Swedish University of Agricultural Sciences Department of Soil and Environment orjan.berglund@slu.se

Aim:

Compare yield and GHG emissions from reed canarygrass and grass ley P



- with high and low drainage intensities
- Treatments:
 - Reed Canarygrass (RCG) and grass ley (undersown oats year 1) P
 - Low drainage intensity(ND) and high drainage intensity(D)
- Measurements:
 - Yield (kg d.m./ha), GHG emissions, water table depth, water content, crop analysis, soil P physical and chemical properties





Figure 1. Majnegården site at the start of the experiment (a.) and in the middle of the season (b.) Ley (undersown oats) and reed canarygrass (RCG)



Conclusions:

Reed canarygrass gave a higher yield than ley already during the year of establishment There were no differences in GHG emissions between ley and reed canarygrass

