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| **Biostokastikum** | 2014-06-05 |

Exercise 2 and 3 – Poisson regression

The amount of butterflies observed on fields is expected to increase when farming practices are ecological. To investigate this several species of butterflies were observed and the individuals counted at a number of farms around Uppsala and in Scania. Variables in the data set are region (U,S) and tst (number of years in ecological farming). The number of butterflies on each farm was counted for Large Skipper, Pearly Heath and Ringlet.

## Exercise 2

Build a generalized linear model for the counts of Large Skipper depending on region and the number of years in ecological farming. Consider also interactions. Summarize your findings and draw conclusions.

Redo the analysis for Pearly Heath. Is the model good?

## Exercise 3

Redo the analysis for Ringlet. Overdispersion will be observed and needs to be accounted for in the analysis.