

MULTIVAR STATS IN ECOL AND GENETICS — EXERCISES, SHEET 8

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1. The file `fruits.txt` shows for 400 fruits that were picked from 20 trees of a plantation from which trees and from which aspect of the tree the fruit was picked, in which height it grew, how big the fruit was (diameter in cm), and how sweet the fruit was (measured in some way). Analyse how the sweetness of a fruit depends on the other parameters.
2. Analyse the datasets `Sitka` and `Sitka89` from the R package `MASS`. How does the growth of the spruce trees depend on the treatment? Account for differences between the individual trees.
3. Re-analyze the `TbDeerAndBoar.txt` dataset with `lme4`. Take differences between the Farms into account.