

Improved data collection and analysis in on-farm weed control field trials



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Study aim
 To evaluate eventual added value from new data collection and analyses



Methods

- In ANOVA, compare two data sets: Repeated visual assessment of weed ground cover (%) versus weed biomass
- Comparison of the outcomes from ANOVA, repeated measures ANOVA and Redundancy Analysis (pRDA) using the ground cover (%) data set.

Conclusions

- Ground cover (%) can be a surrogate to biomass estimate
- Repeated measures ANOVA allows to follow the temporal trends of weed abundance.
- Multivariate method (pRDA) answers to selectivity problem

Results

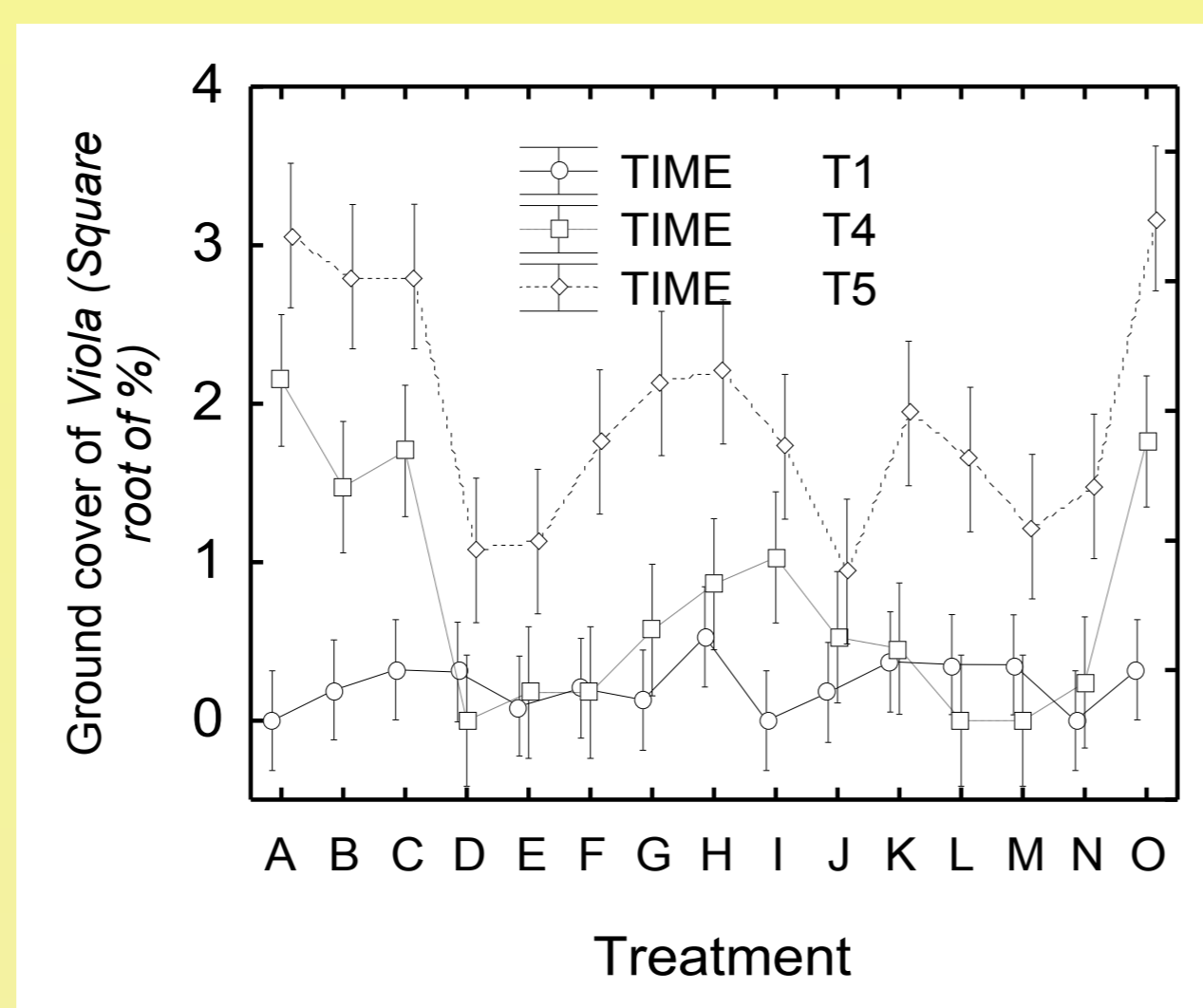


Figure 1. Square root of mean percentage ground cover of *Viola* (with 95% confidence interval) with respect to interaction between treatments T1, T4 and T5 sampling times at Klostergården

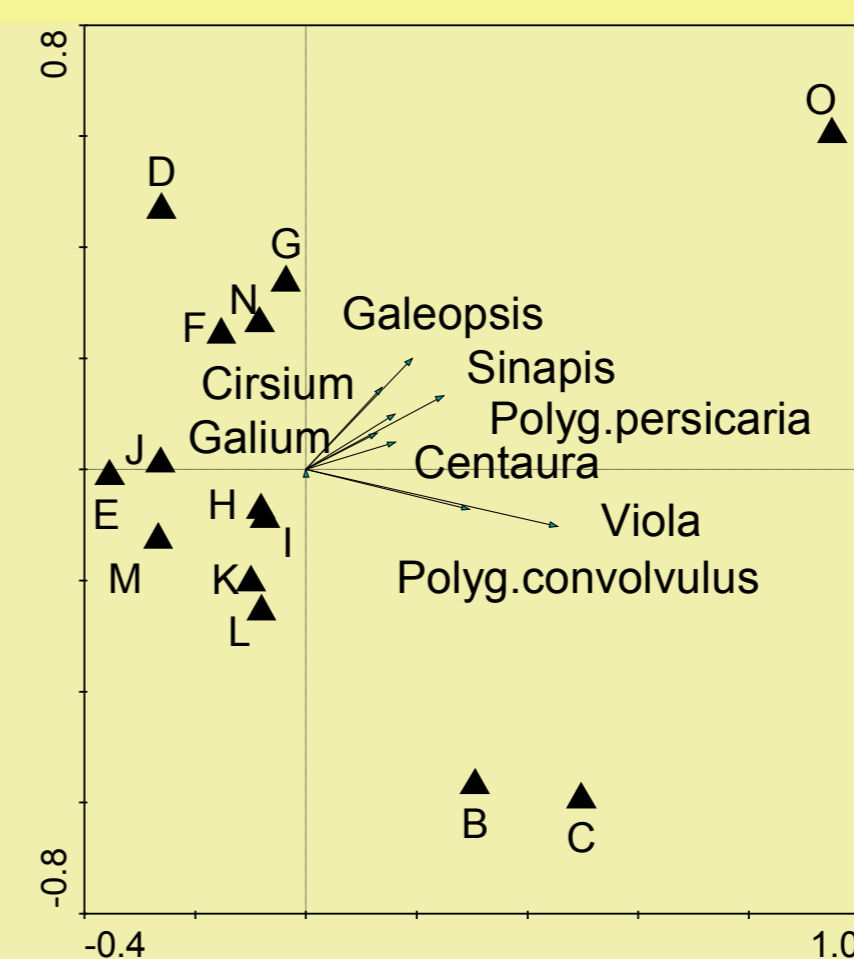


Figure 2. Weed species - treatment variables biplots obtained with pRDA at Klostergården summarising the effect of the treatment on *Viola* spp.