



Effects of mineral and organic fertilisers on herbage production and quality at seminatural grassland

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Objectives

The aim was to study effects of mineral and organic fertilisers on production, quality and botanical composition at permanent grassland.

A field trial was established using the block method with the following fertilizer treatments (kg.ha⁻¹):

- 1) control; 2) P30 + K60; 3) N60 + PK; 4) N120 + PK;
- 5) manure 12 t.ha⁻¹; 6) manure 24 t.ha⁻¹.

Poster n° - Session n°



Main results

Manure application

- The proportion of legumes and herbs increased in sward
- The expansion of weed species in the first year after application

Mineral fertiliser

- The higher proportion of grasses
- Higher DM yield, the highest at the N120 + PK treatment (5.28 t.ha⁻¹)

Chemical composition of herbage

- There were not any marked changes in the chemical composition of DM between the mineral fertiliser treatments and those with manure applied