

TRIAL DATA SHEET

SWEETGRASS



Objective: Can Sweetgrass offset a 15% reduction in mineral N application compared to CAN as measured by dry matter yield and forage quality?

Crop: Grass

Location: Farm, Galway

Date: 2023

Researcher: Internal Origin & Goudings trials staff

Trial code: N15(1)/2023

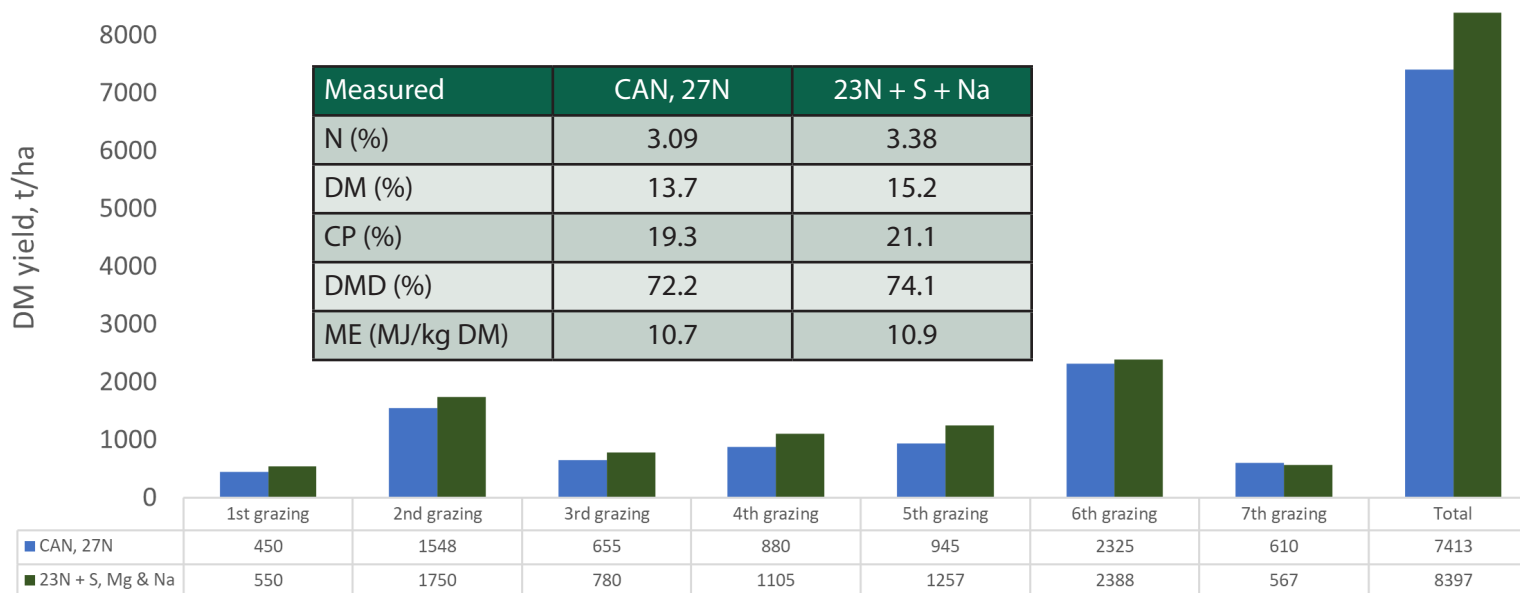
Background:

Site: pH 7.0, P index 3, K index 2-

Treatment 1: CAN (27 N); total N applied was 304 kg/ha

Treatment 2: Sweetgrass (23 N + 5 SO₃ + 5 Na₂O); total N applied was 259 kg/ha, ie 14.8% less than CAN

Results: Farm trial, Galway, 2023 DM yield at reduced N rate



Conclusions:

At 15% less total N compared to straight CAN, Sweetgrass:

- ✓ Increased DM yield by 0.984 mt per ha (+ 13.3%)
- ✓ Additional DM is worth £177 per ha (based on DM value of purchased concentrate at £180 pt)
- ✓ Increased N uptake, nitrogen use efficiency, DM content, crude protein, digestibility and energy
- ✓ Sweetgrass reduced greenhouse gas emissions by 14.8%

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