

# 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, North Tipperary

**Date:** 2023

**Researcher:** Internal Origin & Gouldings trials staff

**Trial code:** N15(2)/2023

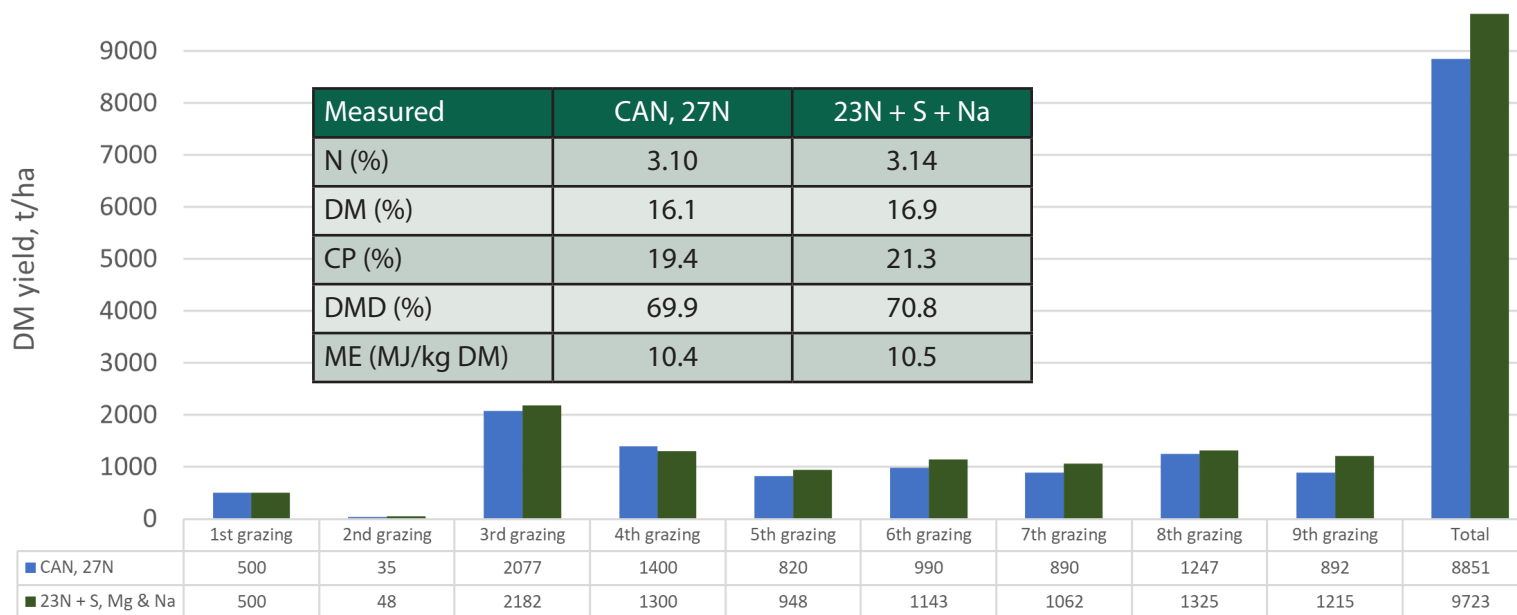
### Background:

**Site:** pH 6.0, P index 1, K index 2-

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

**Treatment 2:** Sweetgrass (23 N + 5 SO<sub>3</sub> + 5 Na<sub>2</sub>O); total N applied was 259 kg/ha, ie 14.8% less than CAN

## Results: Farm trial, North Tipperary, 2023 DM yield at reduced N rate



### Conclusions:

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

- ✓ Increased DM yield by 0.872 mt per ha (+ 9.9%)
- ✓ Additional DM is worth £157 per ha (based on DM value of purchased concentrate at £180 per tonne)
- ✓ 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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