TRIAL DATA SHEET

SWEETGRASS®

Objective:	Comparing grass quality from Sweetgrass plus Se against straight nitrogen	
Crop:	Grass	
Location:	Ballantrae, Ayrshire, Scotland	
Date:	Grazing season 2018 up to end May	
Reason:	NSA Scotsheep 2018	
Trial code:	Scotsheep	

A Broad Spectrum Soil Analysis highlighted soil deficiencies of sulphur, sodium and selenium, all essential for livestock performance. A split field trial is currently underway comparing a commodity fertiliser with *Sweet*grass, a grassland fertiliser enriched with sodium.



Results after half the field was treated with Sweetgrass and half straight nitrogen

Nutrient	Origin Sweetgrass 23.0.0 + 5% S + 5% Na + Se @ 187.5kg/ha	Straight N (27% N) @ 187.5kg/ha
Potash	Reduced by 25% from excessively high to optimum = reduced risk of staggers	Excessively high
Sodium	Increased from deficient to optimum = higher palatability and increased DM intakes	Deficient
Selenium	Increased by 160% from severely deficient into target range = reduced risk of ill thrift, infertility, low LWG, retained placenta, etc	Severely deficient
Sulphur	9% improvement in the N:S ratio which encourages formation of true protein	Higher N:S ratio could reduce true protein formation

Nutrient ratios						
First leaf sample early May		Second leaf sample late May				
<i>Sweet</i> grass	Straight nitrogen	<i>Sweet</i> grass	Straight nitrogen			
N:S ratio		N:S ratio				
14:1	15:1	25:1	27:1			
K:Na ratio		K:Na ratio				
11:1	24:1	8:1	17:1			
K:Mg ratio		K:Mg ratio				
10:1	14:1	12:1	16:1			



Talk to us about soil nutrition

