

**Objective:** To compare daily live weight gains (DLWG) of weaned lambs grazing on straight nitrogen compared to a fertiliser containing sodium and selenium

**Crop:** Grass

**Location:** Northumberland

**Date:** June to September 2020

**Researcher:** Origin Fertilisers trials

**Method:** Pre-application soil and tissue analysis, fertiliser applied June 27th, lambs weighed, weaned, bloods taken prior to entering field July 17th, lambs weighed 4 times

**Measurements:** Weight and blood selenium and sodium

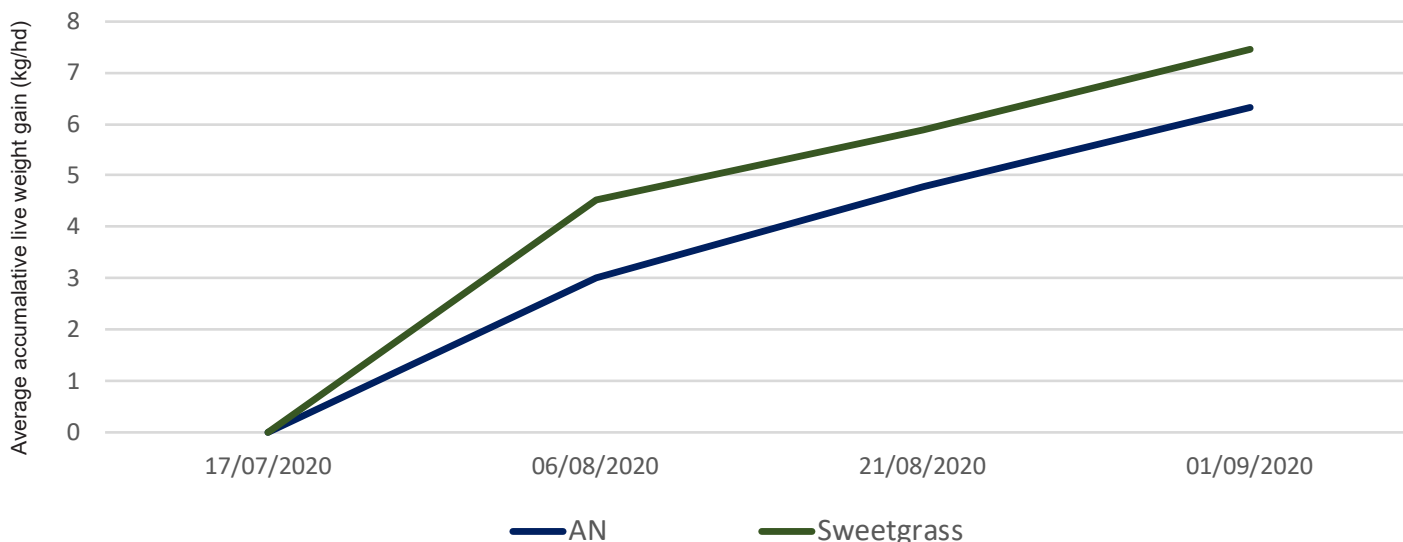
**Trial code:** 20004/NE/AK



## Fertiliser treatments:

Product applied June 27th	Application rate	Nutrients per ha	Number of lambs
Sweetgrass® 23-0-0 + 5Na + 5SO <sub>3</sub> + Se	200kg/ha	45kg N, 10kg Na, 10kg SO <sub>3</sub> , 40g Se	212 lambs (23.82/ha)
Ammonium Nitrate	133kg/ha	45kg N	166 lambs (23.82/ha)

## Results: Accumulative weight gain (assuming 50:50 split of ewe and ram lambs)



- Lambs grazing on grass treated with **Sweetgrass®** gave an accumulative weight gain of **17.6%** over those grazing on grass treated with Ammonium Nitrate
- **Sweetgrass®** gave an increased return of investment of £32.82/ha compared to AN