

Objective: Crop yield comparison between ammonium nitrate and SUSTAIN®

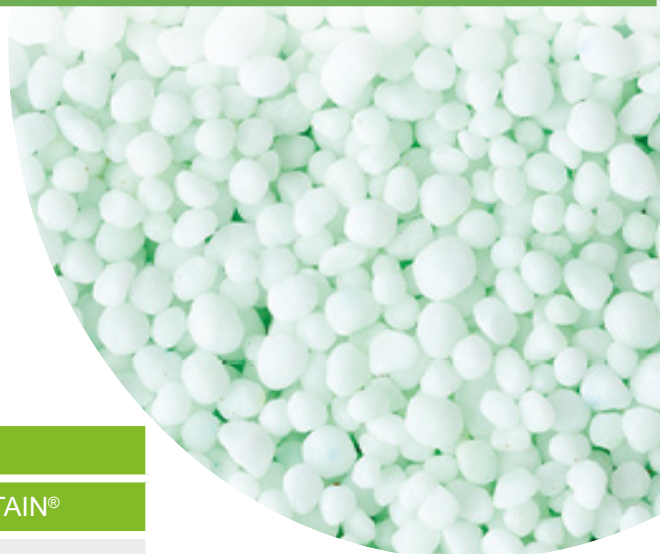
Crop: Spring Barley (Concerto)

Location: Balgonie, Glenrothes

Date: 2015 Harvest

Researcher: Scottish Agronomy Limited

Trial code: RD99_002_SB_15

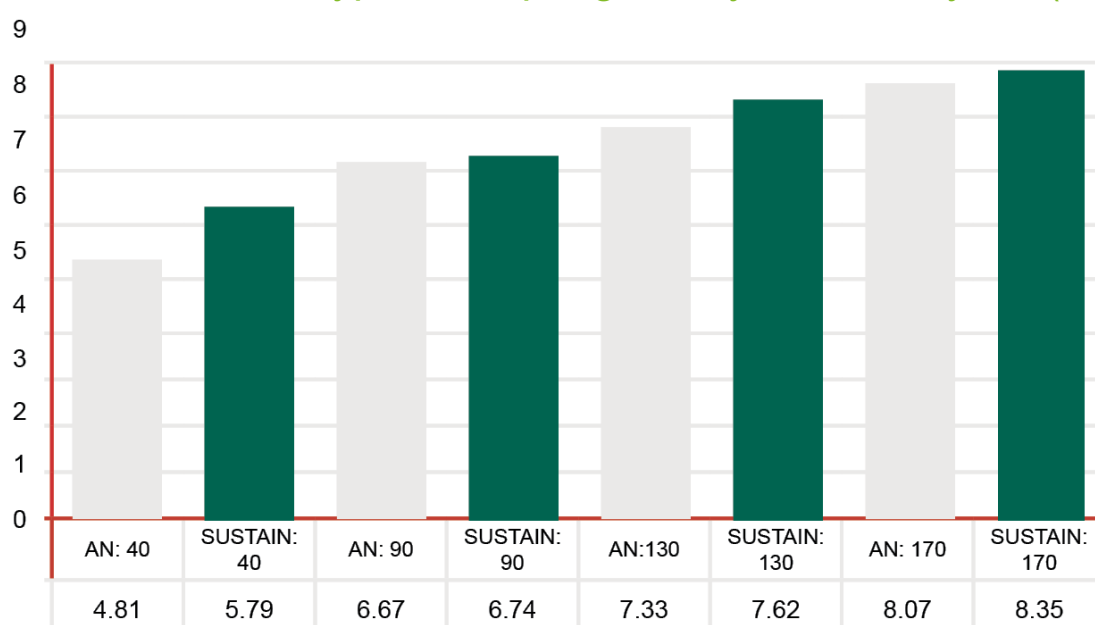


Treatments:

Nitrogen Rate (kg N/Ha)	Product Required (kg/Ha)	
	Ammonium Nitrate	SUSTAIN®
40	116	87
90	261	196
130	377	283
170	493	370

Application split: 50% at Pre-Em. 50% at GS 12-13

Results: N-types on Spring Barley Concerto yield (t/ha grain)



Means followed by same letter do not significantly differ (P= 0.05, Duncan's New MRT)

Conclusions:

- SUSTAIN® fertiliser gave a 6% increase in yield compared to ammonium nitrate when averaged across all treatments.
- At 40kg N/Ha, SUSTAIN® fertiliser gave a 20% increase in yield compared to ammonium nitrate.
- High nitrogen content of SUSTAIN® fertiliser means 33% less product is required to supply equal nitrogen compared to ammonium nitrate.