

TRIAL DATA SHEET

SUSTAIN®



Origin
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Objective: Crop yield comparison between ammonium nitrate and SUSTAIN®

Crop: Sugar Beet (Cayman)

Location: Kirton, Suffolk

Date: 2015 Harvest

Researcher: Envirofields

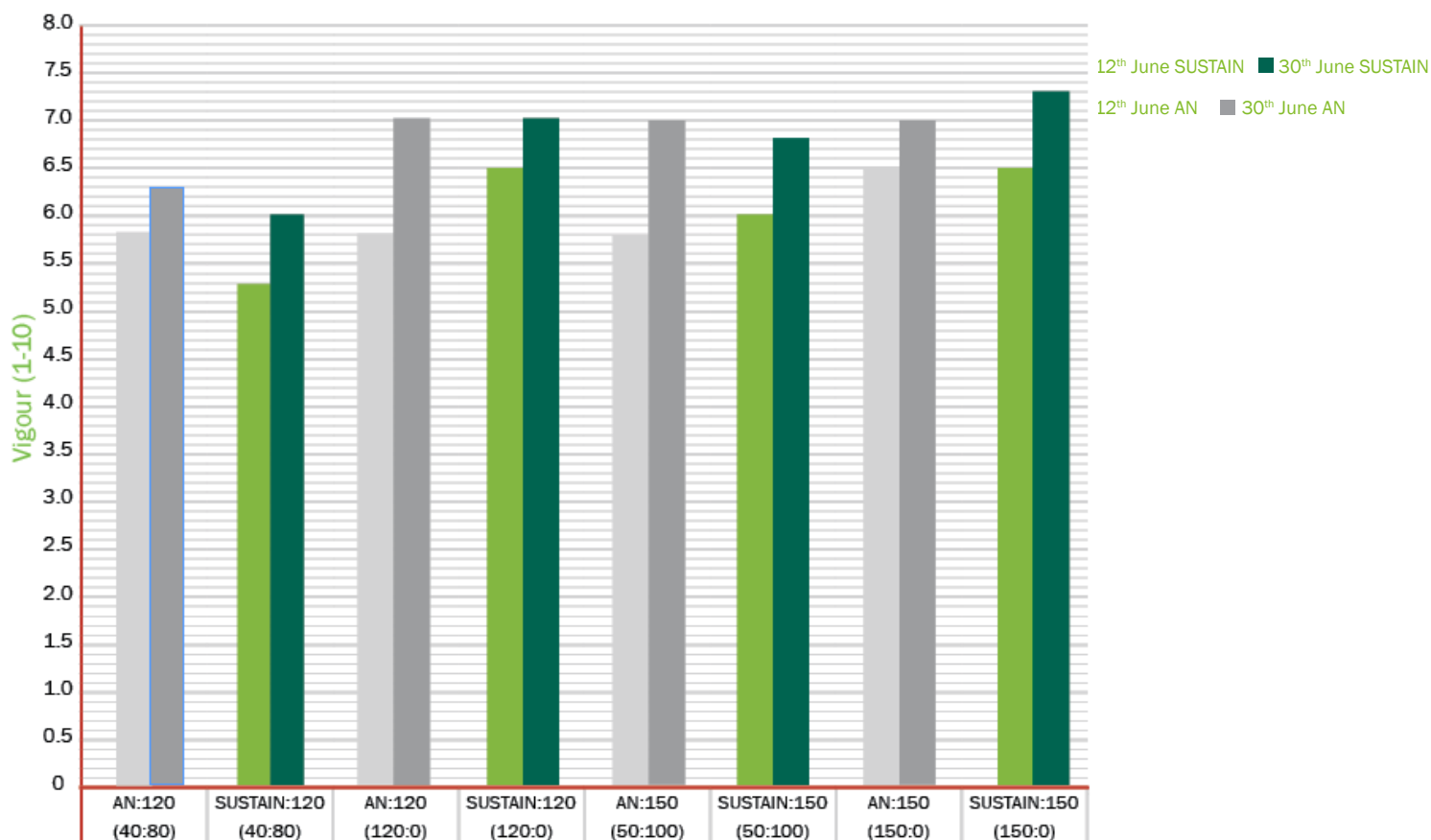
Trial code: RD99_005_SB_15

Treatments:

Total N rate (kg N/ha) programme*	Nutrient timing*	Product Required (kg/Ha)	
		Ammonium Nitrate	SUSTAIN®
120	40:80	348	261
120	120:0	348	261
150	50:100	435	326
150	150:0	435	326

*Application splits; at planting and shortly after emergence

Results: Vigour 12th June 2015 & 30th June 2015, Envirofields, Kirton, Suffolk



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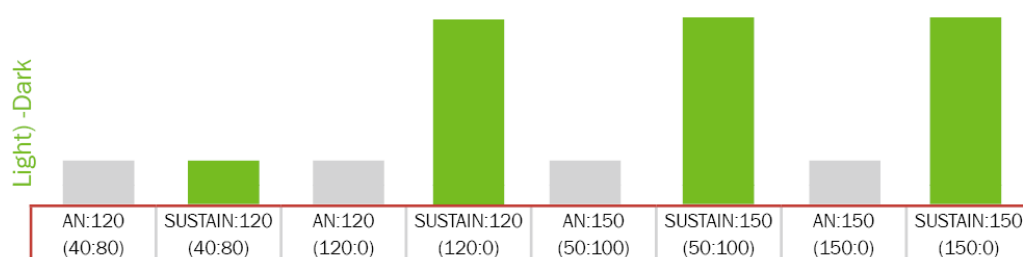
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Canopy development:

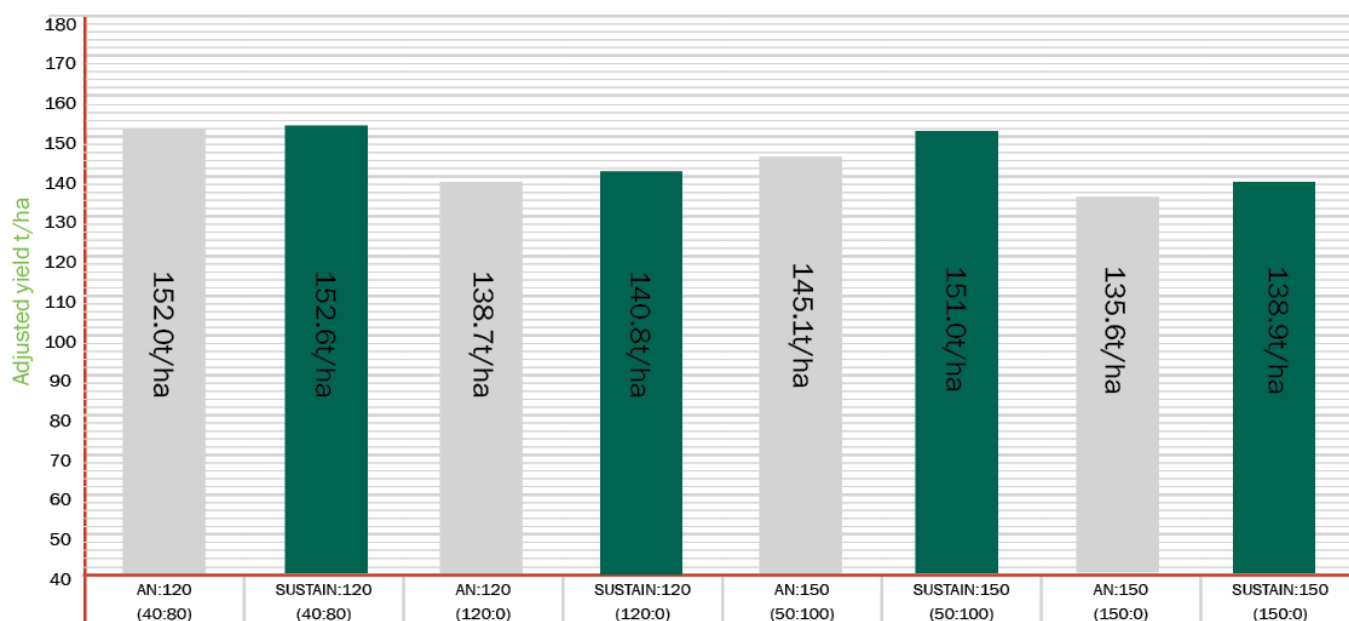
Early canopy development in the spring is essential for the sugar beet crop to optimise its solar radiation interception (and therefore sugar production).

The SUSTAIN® fertiliser programme produced early crop vigour and colour equivalent to ammonium nitrate.

Results colour: 30th June 2015, Envirofields, Kirton, Suffolk



Results adjusted yield: N-types on Sugar Beet, Envirofields, Kirton, Suffolk, yield (t/ha)



Conclusions:

- SUSTAIN® gave equal plant vigour and leaf colour compared to AN throughout the trial (including early season crop response).
- Averaged across all nitrogen rates and application regimes, SUSTAIN® gave adjusted yields 3 tonnes/ha greater than AN.
- The higher nitrogen content of SUSTAIN® means 33% less product is required to supply equal nitrogen compared to AN.

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