

TRIAL DATA SHEET

SUSTAIN K^αN
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SUSTAIN[®], the new name for KAN fertiliser, vs ammonium nitrate

Objective:	Crop yield comparison between different N sources
Crop:	Sugar Beet (Cayman)
Location:	Kirton, Suffolk
Date:	2015 Harvest
Researcher:	Envirofields
Trial code:	RD99_005_SB_15



Total N rate (kg N/ha) programme*	Nutrient timing*	Product Required (kg/Ha)	
		Ammonium Nitrate	SUSTAIN(R)
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

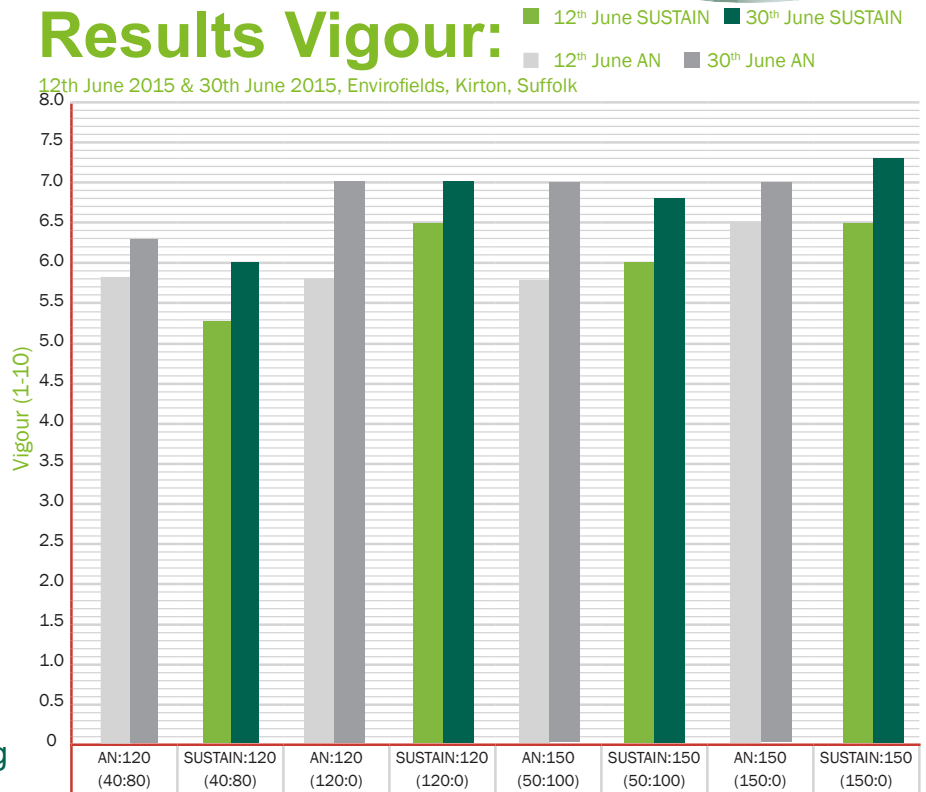
Canopy Development:

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.

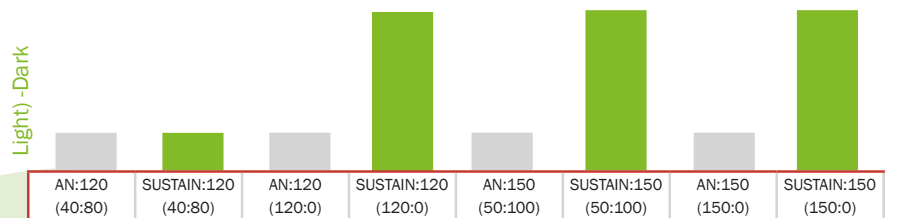
Results Vigour:

12th June 2015 & 30th June 2015, Envirofields, Kirton, Suffolk



Results Colour:

30th June 2015, Envirofields, Kirton, Suffolk



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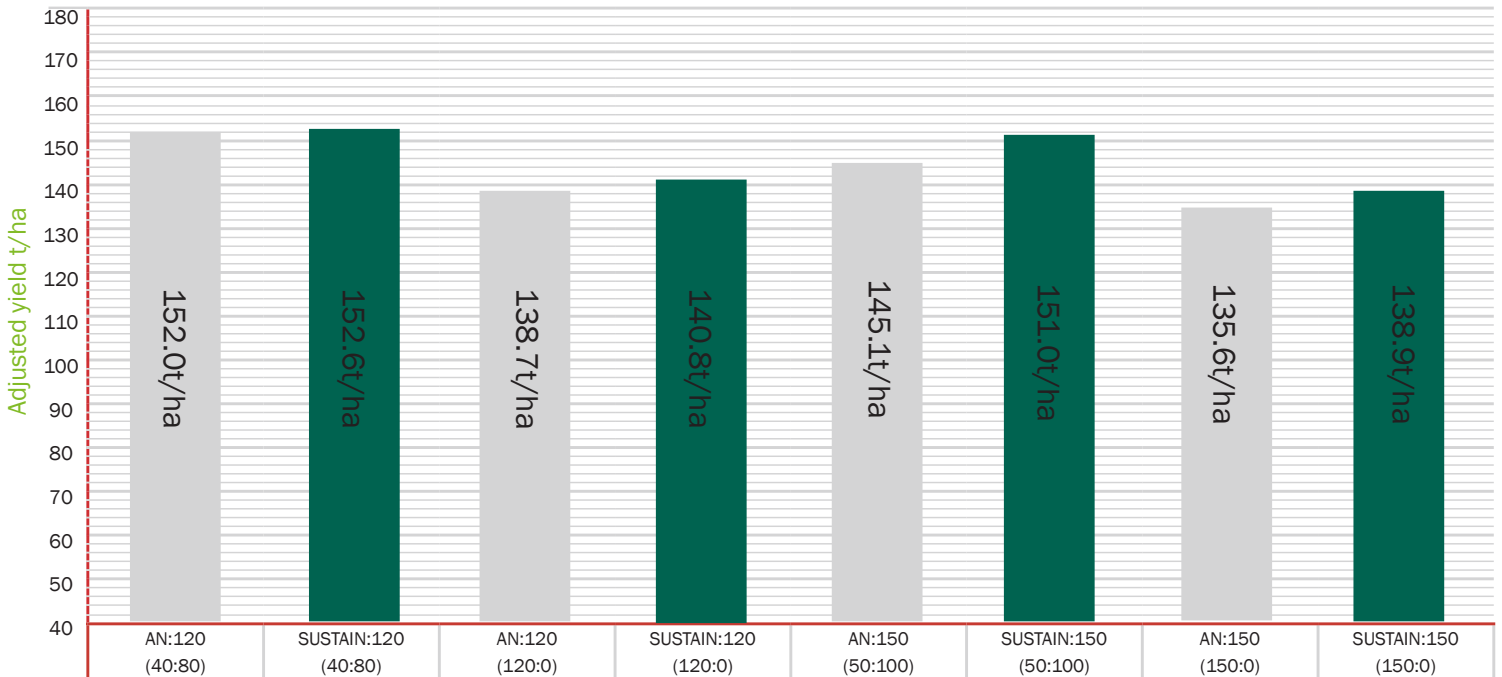
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Results adjusted yield:

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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