

# TRIAL DATA SHEET

**K<sup>α</sup>N**  
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## Koch Advanced Nitrogen<sup>®</sup> 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



### Treatments:

Total N Rate (kg N/ha)	Nutrient timing*	Product Required (kg/Ha)	
		Ammonium Nitrate	Koch Advanced Nitrogen <sup>®</sup>
120	40:80	348	261
120	80:40	348	261
120	120:0	348	261
150	50:100	435	326
150	100:50	435	326
150	150:0	435	326

\*Application splits; at planting and shortly after emergence

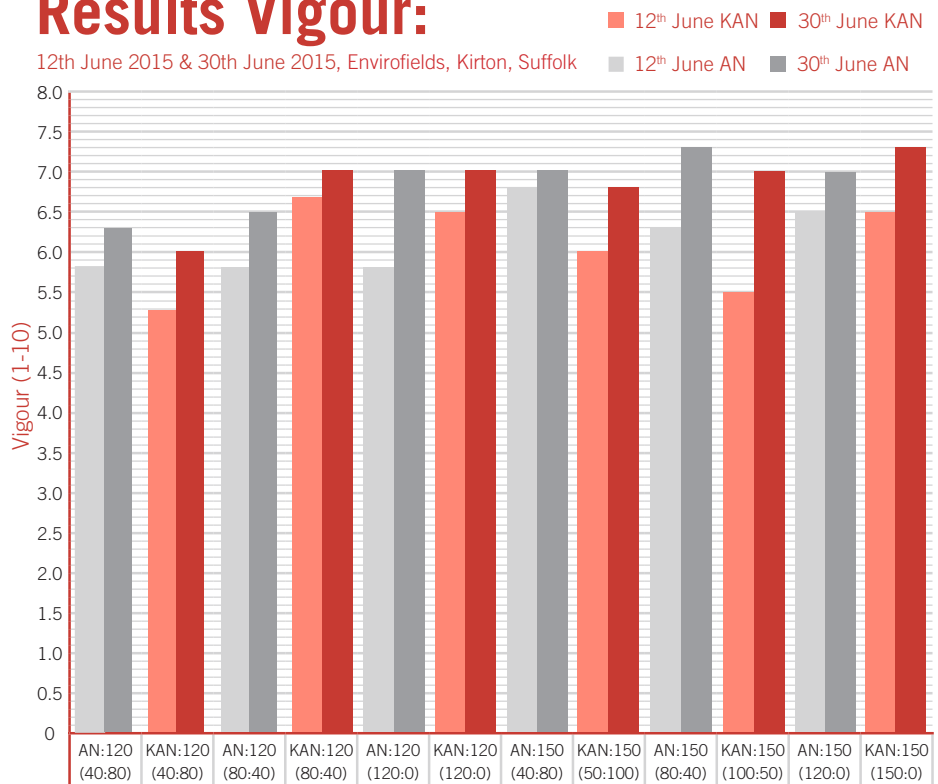
### Canopy Development:

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

The Koch Advanced Nitrogen<sup>®</sup> fertiliser programme produced early crop vigour and colour equivalent to ammonium nitrate.

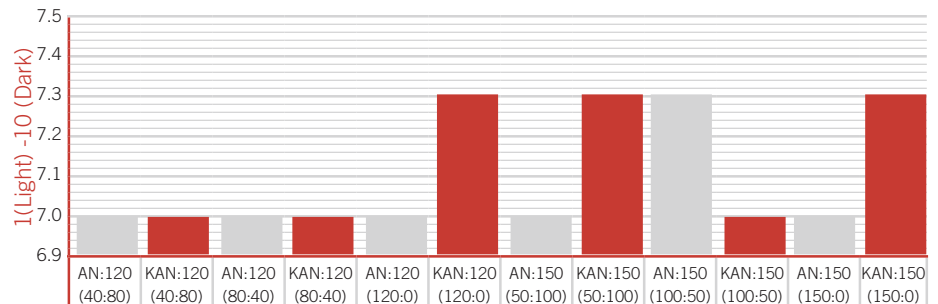
### Results Vigour:

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



### Results Colour:

30th June 2015, Envirofields, Kirton, Suffolk

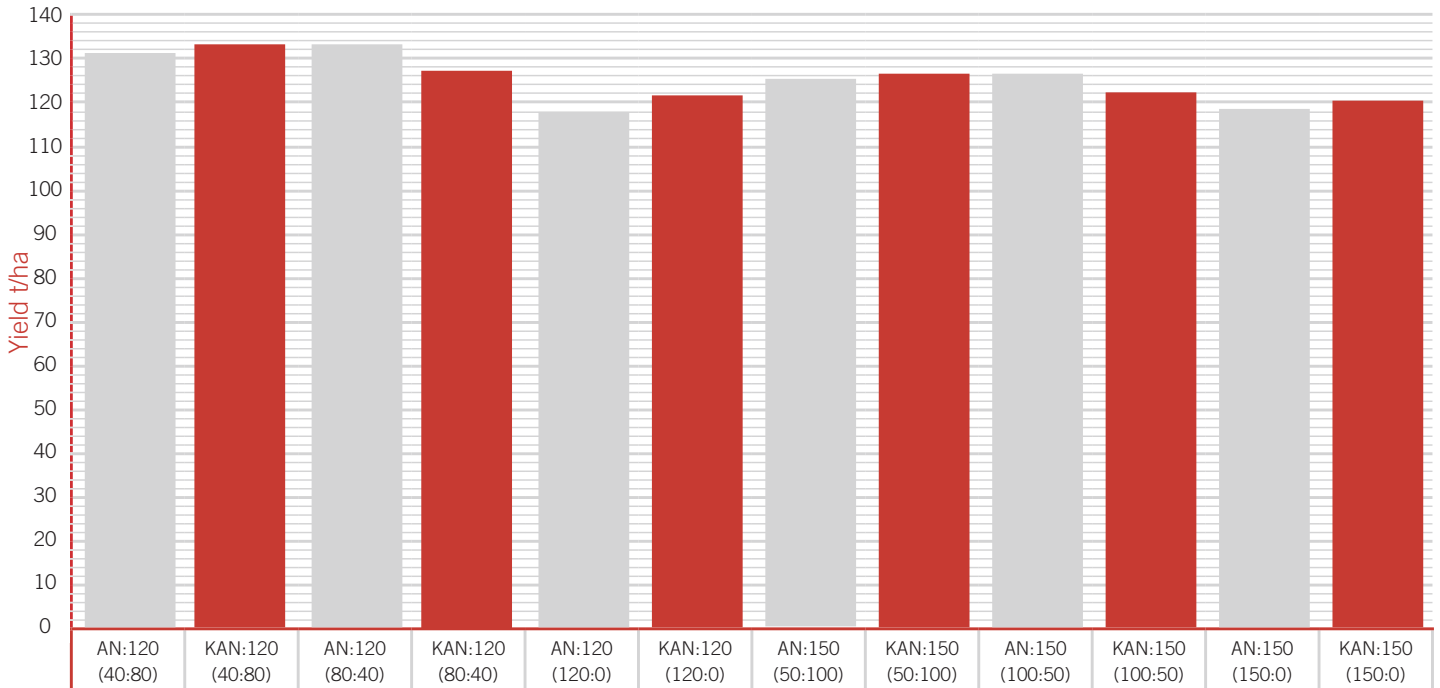


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## Results Yield:

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



## Conclusions:

- KAN gave equal plant vigour and leaf colour compared to AN throughout the trial (including early season crop response).
- There was no statistical difference between the KAN and AN nitrogen programme for total yield of sugar beet.
- When applied at 120kg N/ha in a 40/80 split, KAN gave a 2% yield increase over AN.
- High nitrogen content of KAN means 33% less product is required to supply equal nitrogen compared to AN.

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