

TRIAL DATA SHEET

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Koch Advanced Nitrogen[®] fertiliser vs ammonium nitrate

Objective: Crop yield comparison between different N sources

Crop: Winter Wheat (Leeds)

Location: Balgonie, Glenrothes

Date: 2015 Harvest

Researcher: Scottish Agronomy Limited

Trial code: RD99_003_WW_15

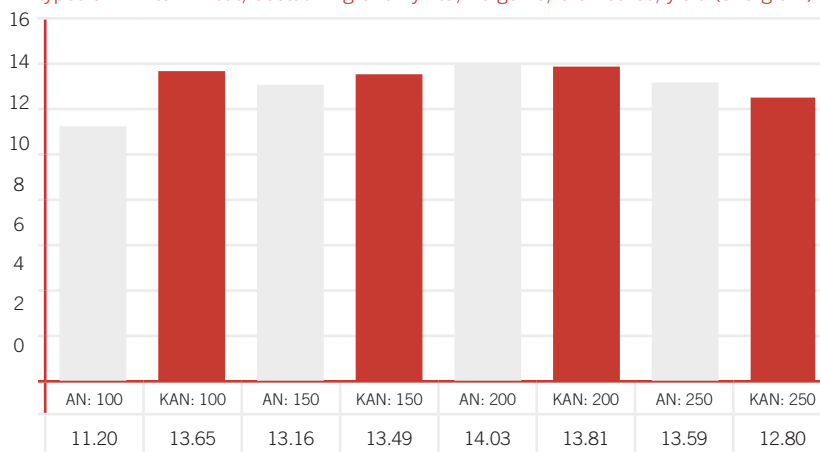


Nitrogen Rate (kg N/Ha)	Product Required (kg/Ha)	
	Ammonium Nitrate	Koch Advanced Nitrogen [®]
100	290	217
150	435	326
200	580	435
250	725	543

Application splits: 25% at GS 14-23. 50% at GS 30-32. 25% GS 37-45.

Results:

N-types on Winter Wheat, Scottish Agronomy Ltd, Balgonie, Glenrothes, yield (t/ha grain)



Conclusions:

- The trial showed using KAN would have increased profit by up to £56/ha⁽¹⁾.
- Koch Advanced Nitrogen[®] fertiliser gave a 3% increase in yield compared to ammonium nitrate when averaged across all treatments.
- At the 100kg N/Ha, Koch Advanced Nitrogen[®] fertiliser gave a 22% increase in yield compared to ammonium nitrate.
- High nitrogen content of Koch Advanced Nitrogen[®] fertiliser means 33% less product is required to supply equal nitrogen compared to ammonium nitrate.

(1) Based on averaged yields across all Nitrogen rates, AN priced at £250/tonne, KAN priced at £315/tonne and wheat priced at £110/tonne.

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