



CRF-Potato trial data





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Crop/Cultivar	Potato cv. Chopin
Country/Location	UK/Lincolnshire
Soil texture	Silt
Objective	Test CRF (Agromaster and Agrocote) against standard farm practice at reduced and comparable nitrogen rates
ICL product tested	Agromaster start mini and Agrocote 44
Application method & dates	TBC
Treatments	<ul style="list-style-type: none"> • Standard practice (total 220kg N/ ha, P xx, K xx) • Agromaster start mini (total 168 N kg /ha, P xx, K xx) • Agrocote (total 220kg N/ha, P xx, K xx) • Agrocote & Agromaster start mini (total 228 kg N/ha, P xx, K xx)
Assessments	<ul style="list-style-type: none"> • Yield • Marketable yield • Tuber numbers

	Standard practice	CRF 1	CRF 2	CRF 3
Base fertiliser	1000kg of 16 15 15 (160kg N/ ha)	800kg of Agromaster start mini (168 kg N/ ha)	1000kg of 16 15 15 and 138kg Agrocote 44 (220 kg N/ha)	138 kg of Agrocote 44 and 800kg of Agromaster start mini
Additional applications	60 kg of N	N/A	N/A	N/A
Total N (kg/ ha)	220	168	220	228
% CR nitrogen	0	41	27	57
Estimated cost	£530	£880	£702	£988

Agrocote = £785/t

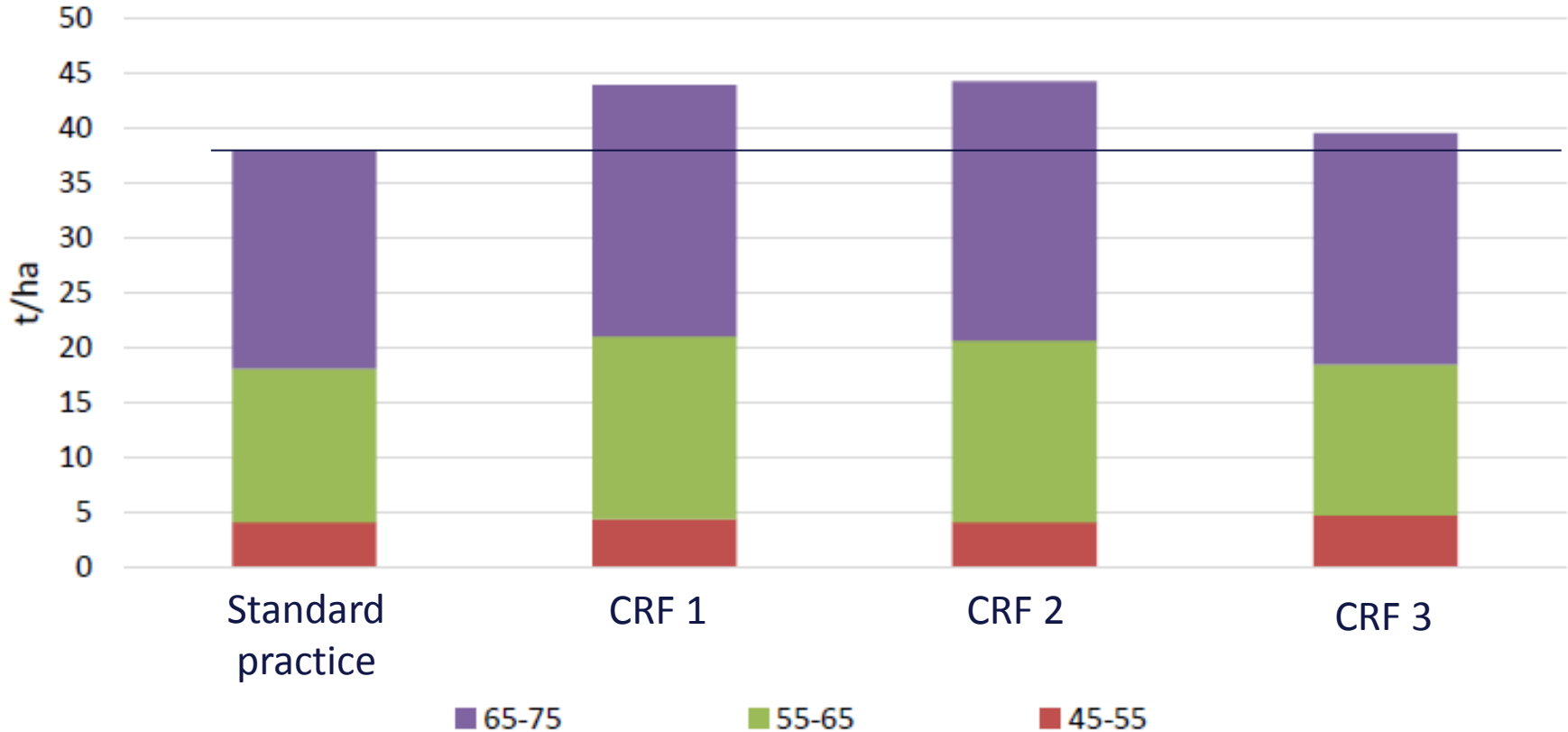
£530

£880

£172 plus £530 =
£702

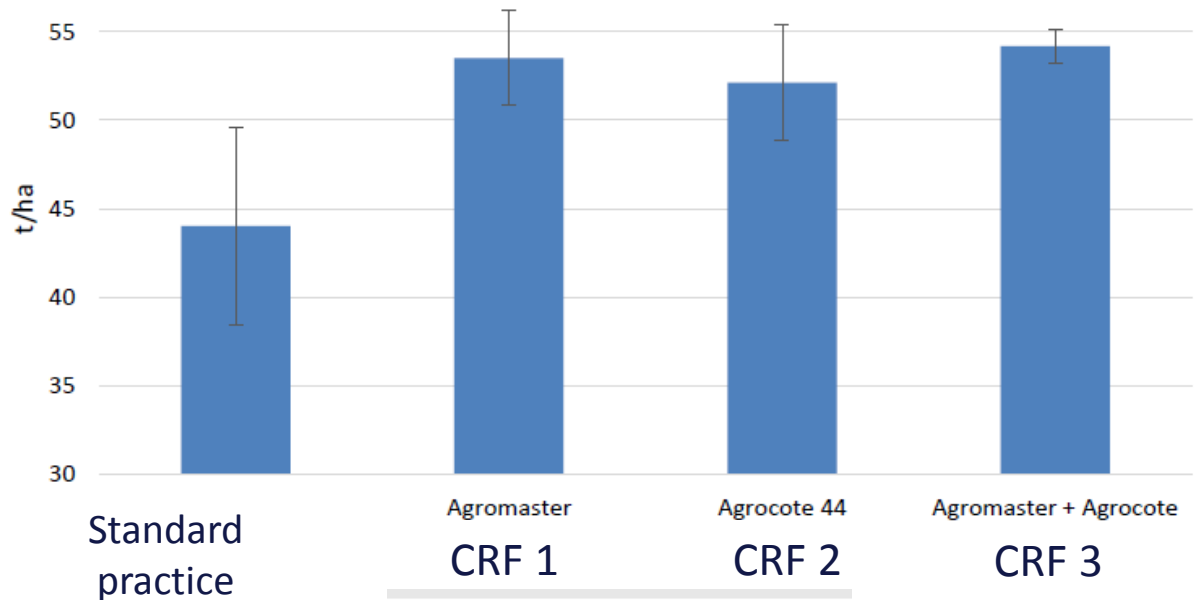
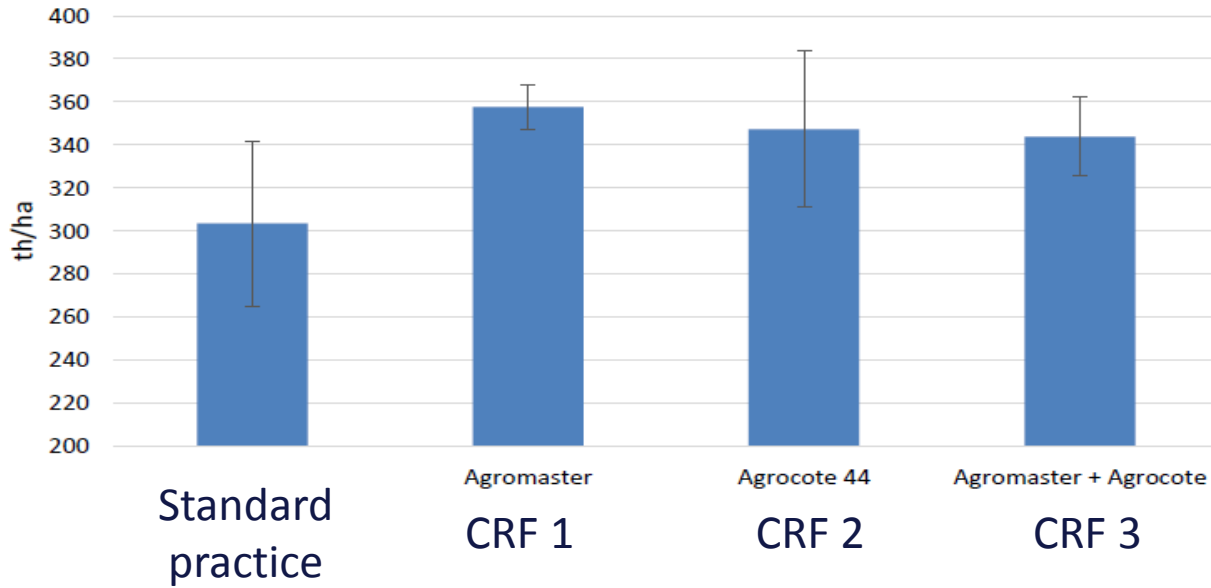
£880 plus £108 =
£988

Marketable graded yield



Yield difference	+7t/ha	+7.5t/ha	+2.5t/ha
Output change	+£700/ha	+£750/ha	+£250/ha
GM change	+£350/ha	+£578/ha	-£208/ha

Tuber number and total yields



Increased NUE with CRF applications

Applying CRF at similar N rates to standard practice increased yields by up to 7.5t/ha (CRF 2 and CRF 3)

CRF 1 suggests that it is possible to increase yields whilst reducing N rates to 76% of standard practice

Economic benefit

Increased uptake by plants and probable reduced loss of N from the soil with CRF application