ICL Specialty Fertilizers

Where needs take us

H2Flo-Potato trial data

2017 independent potato trials

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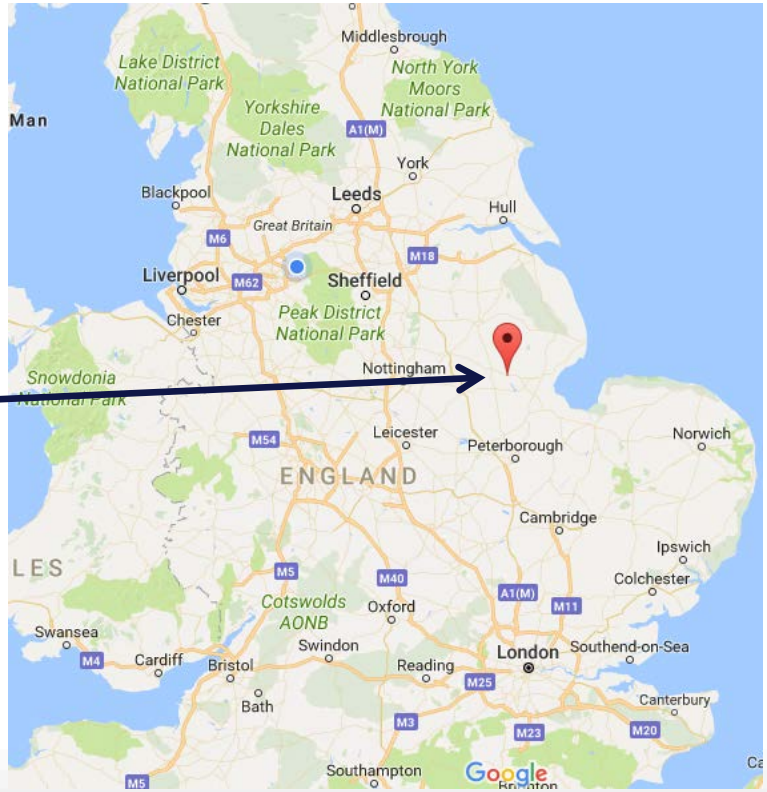
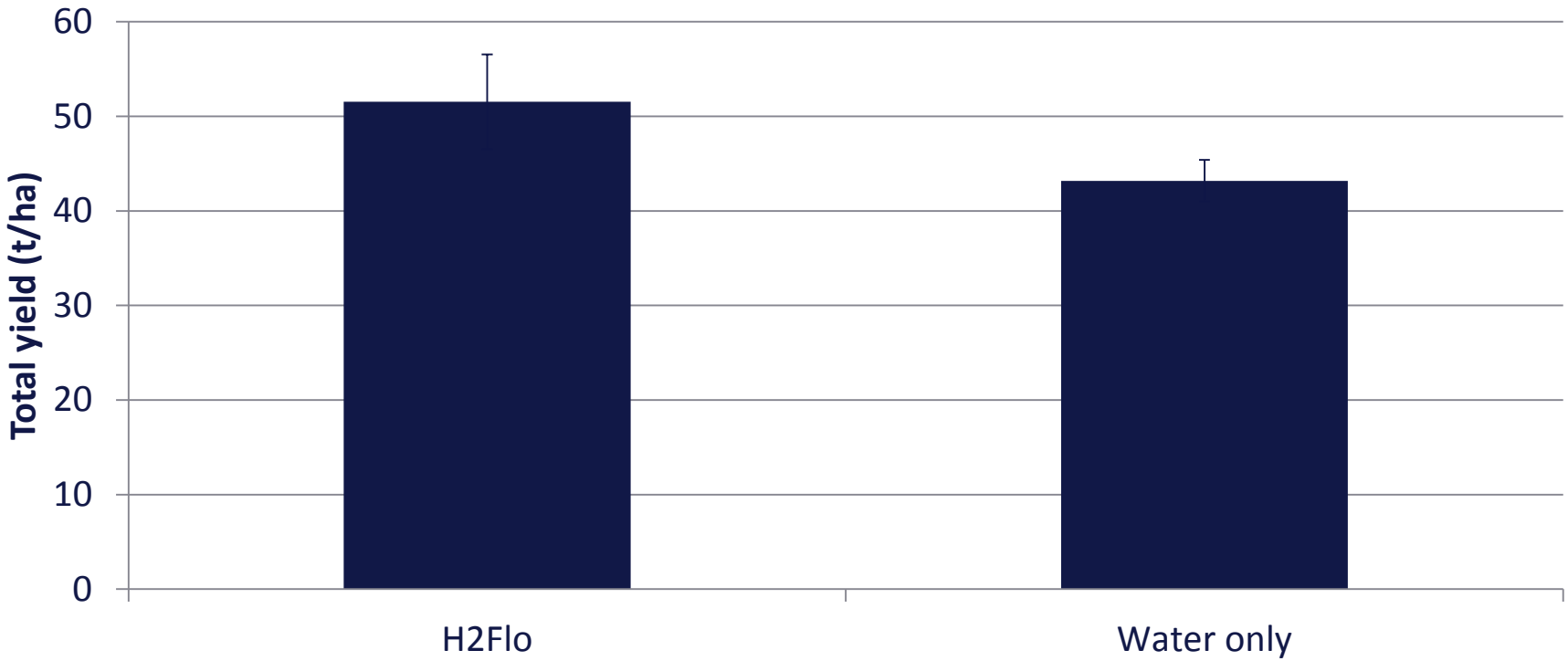


Trial info

Crop/Cultivar	Potato cv. Eurostar
Country/Location	UK/Lincolnshire
Soil texture	Sandy loam
Objective	Analyse yields and tuber disease prevalence on potato crops treated with H2Flo and standard irrigation
ICL product tested	H2Flo
Application method	Irrigation with drip tape
Planting date	12th May 2017
Treatments	H2Flo applied: • 27th May • 12th June • 25th June • 18th July
Assessments	• Yield • Marketable yield • Tuber numbers • Tuber diseases

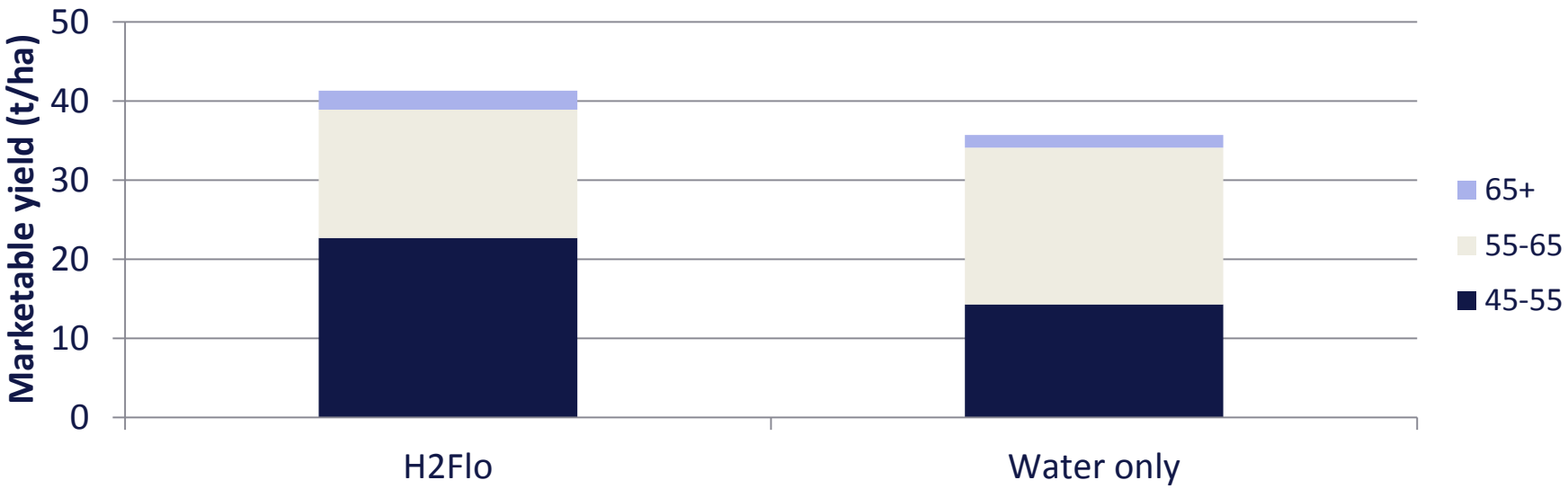
4 replicates per treatment

Total yield



8.35 t/ha increase in total yield with H2Flo application

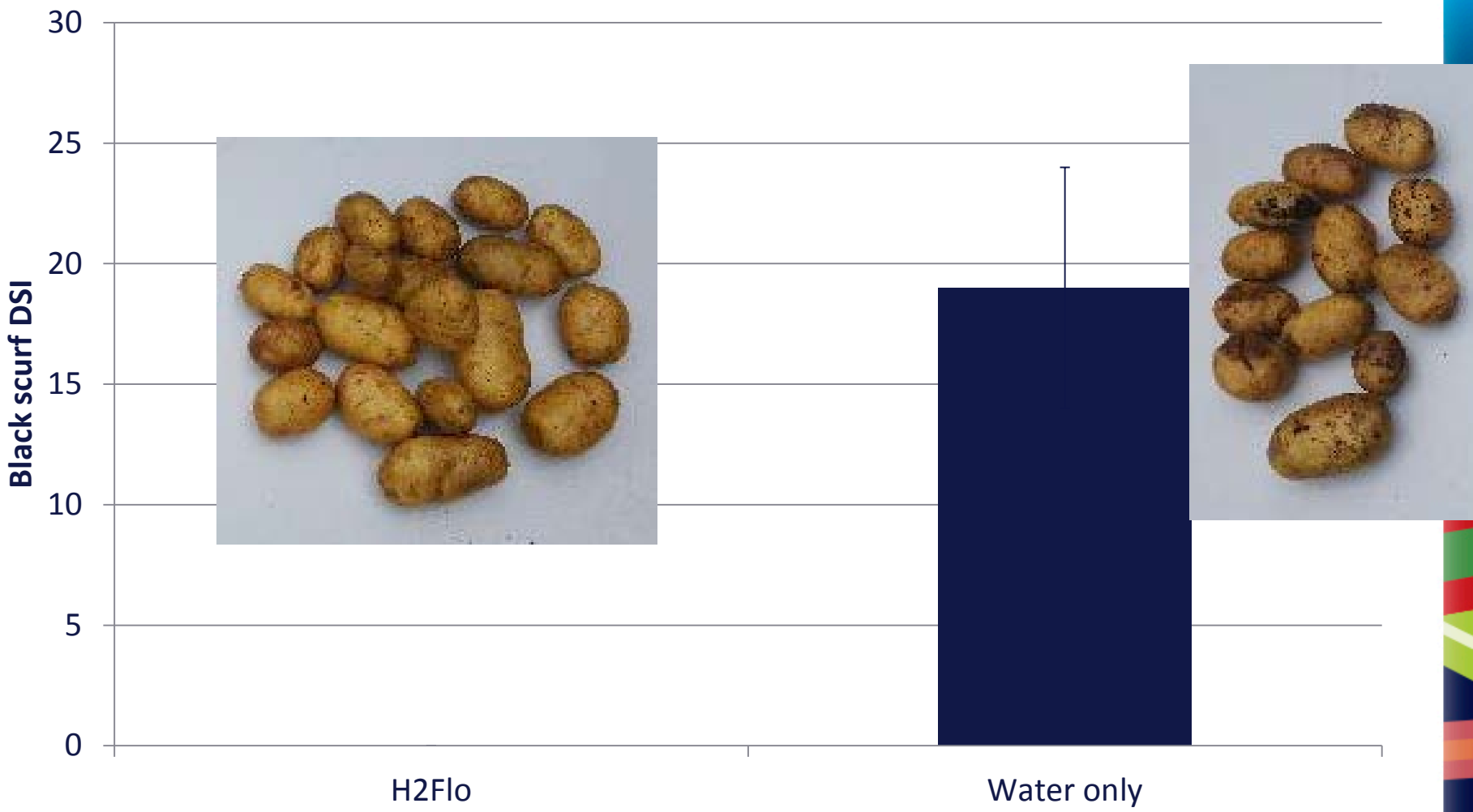
Tuber number and total yields



Yield difference	+5.6t/ha
Output change	+£560/ha
GM change	+£515/ha

Increased number of tuber/ ha with H2Flo treatment (approx. 70 per ha)

Black scurf (Rhizoctonia) prevalence



Additional potato yield trial data

Variety	Irrigation	Type of trial	Yield difference (t/ha)
Maris Piper	No	Replicated plots	+9.9
Maris Piper	No	Replicated plots	+8.9

£15/l
2.4l/ha (3apps)
+£36/ha

+£857/ha

+8.93 t/ha
£100/t
+£893/ha

Key conclusions

Consistently increased potato yields with H2Flo treatment

Very positive benefits to potato gross margins

Supports 2017 on-farm trial data

Significant reductions in black scurf incidence

Likely to be due to even soil moisture distribution

Future work

Comparison of H2Flo and water controls on aspects of potato growth throughout season (e.g. canopy cover, chlorophyll levels)

Detailed analysis of the possible effects of H2Flo on tuber disease incidence

Follow up initial reports of an increase on the efficacy of nemathorin and Ecospray with H2Flo on PCN control