H2Flo®

Trial results

Potato
(Solanum tuberosum) on a sandy loam soil

H2Flo is a water conservation agent containing a blend of surfactants which can influence water movement in the soil.

Trials have shown that H2Flo application can improve water infiltration in the soil enhance water distribution within the soil increase water retention and reduce hydrophobicity.

Potato is the most commonly irrigated crop in the UK and Ireland. Irrigation is necessary to increase potato yields and quality therefore potato is a good target for improving the efficiency of water use in the UK through H2Flo application.

ICL

www.icl-growingsolutions.uk I @ICLplantnutriUK

When

2018

Where

Lancashire, UK

Crop

Potato
(*Solanum tuberosum*)

Soil type

Sandy loam soil

Measurements

- Yield
- Marketable yield
- Tuber numbers

Objective

To measure the effect of H2Flo on potato crop, on irrigated and non-irrigated crops and different soil types.

Specifically the effect on:

- Yield
- Marketable yield
- Tuber numbers

Treatments

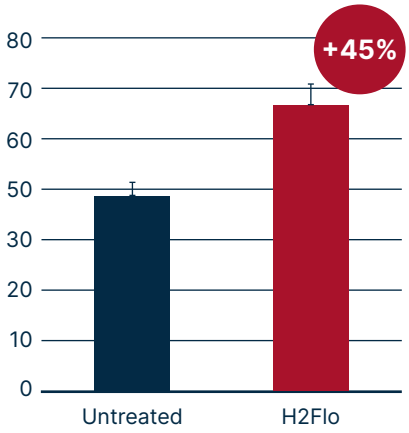
- 2.4l ha of H2flo plots
- 1.2l ha before emergence

All plots received the same irrigated water

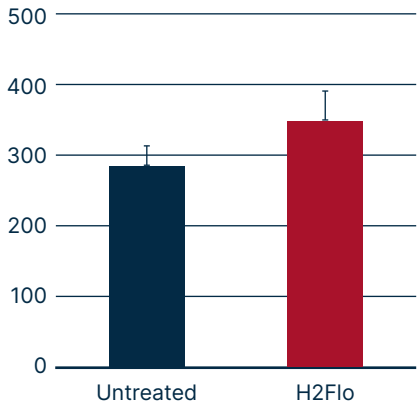
Results

- H2Flo boosted marketable yields by 20.27 t/ha (45% increase)
- Notably larger tubers in H2Flo-treated plots
- H2Flo plots had a majority in the 55-65mm category vs. untreated plots under 45mm

Mean marketable yield (t/ha)



Mean marketable tubers (th/ha)



Conclusions

- H2Flo Boosts Potato Yields and ROI!
- Trials show significant yield and tuber size increases
- More marketable tubers and larger sizes
- Works across various soil types and irrigation conditions
- First application before crop emergence crucial
- Benefits crop development throughout its lifespan

ICL UK Sales Limited
Boulby Mine, Loftus,
Saltburn-by-the-Sea,
Cleveland TS13 4UZ, UK
cpl.sales@icl-group.com