



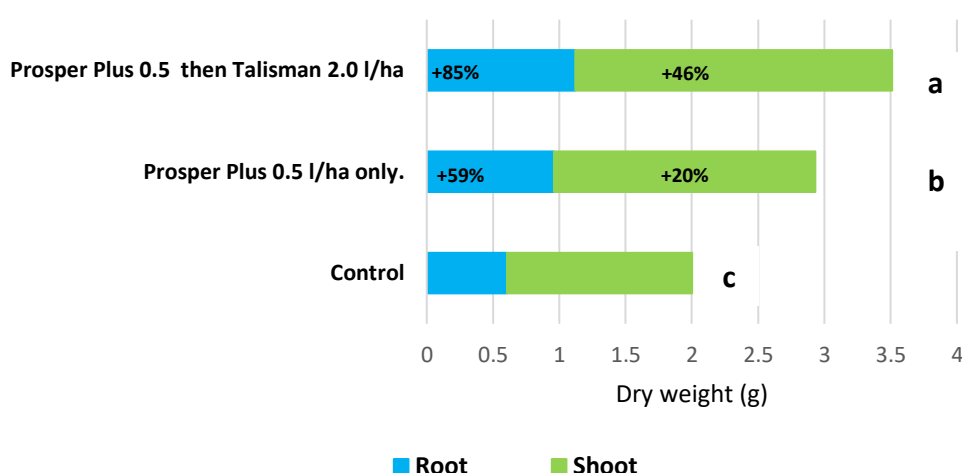
Spring Barley biostimulants update



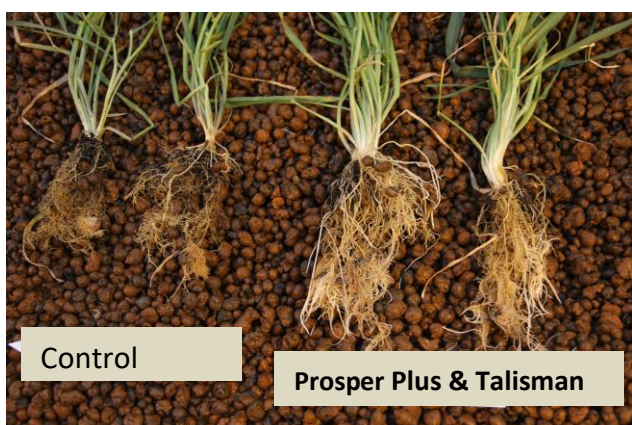
This study conducted by Dr Steve Rossall at the University of Nottingham, demonstrated that the Yieldbuilder sequence of Prosper Plus and Talisman significantly more effective than Prosper Plus alone in increasing root & shoot growth and chlorophyll concentration in spring barley.

Spring barley cv Concerto was sown in compost and transferred at GS12 into pots filled with 10 mm washed expanded clay pellets (Hydroleca) and maintained in a hydroponic system by daily irrigation with 20:8:20 NPK fertiliser, with trace elements. This system enables accurate assessment of root growth. Prosper Plus (0.5 l/ha) was applied at GS14. After 21 days Talisman 2.0 l/ha was applied and plants harvested after a further 21 days (42 days after Prosper Plus application). Control plots were sprayed with water only at each timing.

Effect of Prosper Plus & Talisman on spring barley growth



- **Prosper Plus applied at GS14** significantly increased **root growth** by 59% in comparison to the control, 42 days after application. The **sequence of Prosper Plus followed by Talisman** 21 days later was **more effective increasing root mass by 85%**.
- **Shoot growth** was also increased by 20% in comparison to the control when treated with Prosper Plus, again the **Prosper Plus / Talisman sequence was more effective** increasing shoot mass by 46%
- **Chlorophyll concentration** (assessed using a SPAD meter) **was significantly increased** (from 42.87 to 50.21%) following treatment with Prosper Plus & Talisman



Treatment	Chlorophyll concentration (SPAD)
Control	42.87
Prosper Plus 0.5 l/ha	46.26
Prosper Plus 0.5 l/ha Talisman 2.0 l/ha	50.21

Source: Dr S. Rossall, University of Nottingham 2020

