



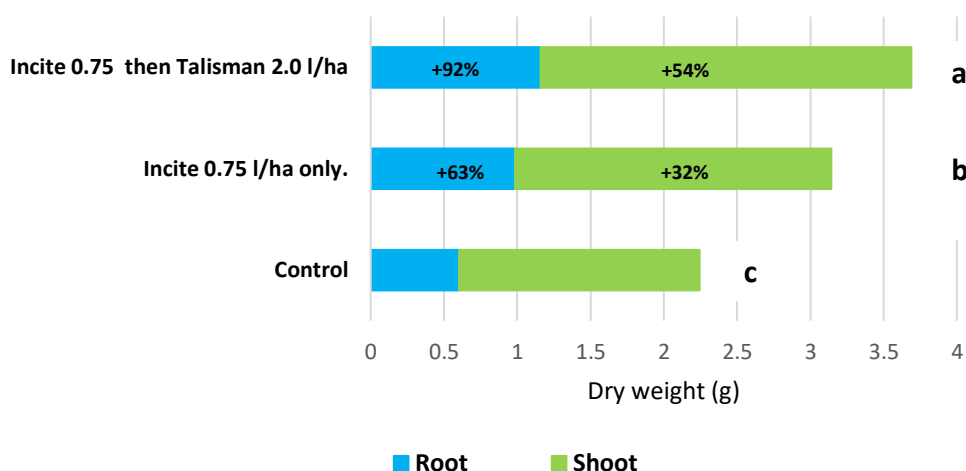
Spring Barley biostimulant sequence



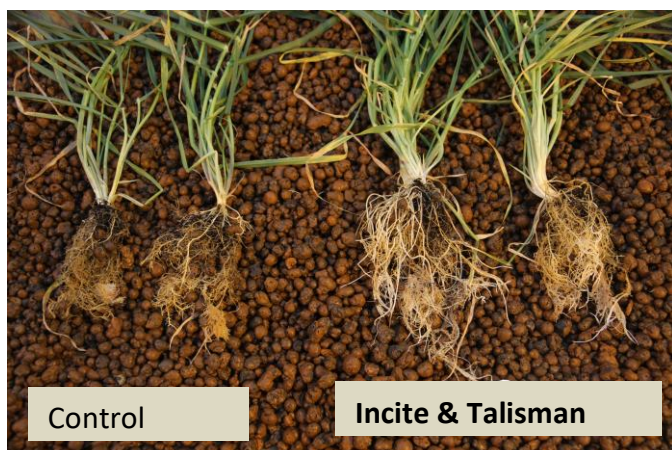
This study conducted by Dr Steve Rossall at the University of Nottingham, demonstrated that the Yieldbuilder sequence of Incite and Talisman was even more effective than Incite alone in increasing root and shoot growth and chlorophyll concentration in spring barley.

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. Incite (0.75 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 Incite application). Control plots were sprayed with water only at each timing.

Effect of Incite & Talisman on spring barley growth



- **Incite applied at GS14** significantly increased **root growth** by **63%** in comparison to the control, 42 days after application. The **sequence of Incite followed by Talisman** 21 days later was **more effective increasing root mass by 92%**.
- **Shoot growth** was also significantly increased by **32%** in comparison to the control when treated with Incite, again the **Incite / Talisman sequence was more effective** increasing shoot mass by **54%**
- **Chlorophyll concentration** (assessed using a SPAD meter) **was significantly increased** (from 42.9 to 52%) following treatment with Incite & Talisman



Treatment	Chlorophyll concentration (SPAD)
Control	42.9
Incite 0.75 l/ha	49.0
Incite 0.75 l/ha Talisman 2.0 l/ha	52.0

Source: Dr S. Rossall, University of Nottingham 2020.