

# Zelp and Barley, Testimonial

(Nigel Greenwood, 5/1/15)

## PLANTING



This trial was conducted on Nigel Greenwood's property in Leeston. Malting barley was used. There was one control group (3.8 ha) and one Zelp Group (1 ha) – given 10kg/ha of Zelp. The yield per hectare was measured for each group.

The Zelp was simply added to the seed box – a layer of seed, zelp, seed then zelp again. It was then mixed a little and spread on the paddock – “very quick and easy”. There were no issues with the Zelp going through the machine faster than the seed.

Planting date – 16/5/14

Harvest date – 5/1/15 (234 days after planting)



Bare Roots,  
no exudate

Plant exudates – sugars, enzymes, carbon. A sign of healthy plant-microbe relationships

## RESULTS

- 14% greater yield – an extra 1.23 ton per hectare!
- An extra \$348.90 *profit* per hectare
- Plants matured 7 days later (see right).
- Larger grains in test done by malting company
- Tissue sample showed higher levels of nutrients in plants given Kelp
- Better condition plants



Control = 8.91 ton/ha



10kg/ha Zelp = 10.14 ton/ha

14% Greater Yield!

Probable explanations for the increase in productivity with Zelp:

- **Zelp has extremely high antimicrobial properties** – Planted within the immediate vicinity of the seed, Zelp acts as a protective barrier to fight off harmful bacteria and fungi giving the plant a more resistant & resilient start.
- **Zelp is high in plant growth hormones** – Auxins, Cytokinins, Giberellins. These hormones help regulate cell mitosis (more, bigger, faster).
- **Zelp has a large number of bioavailable micronutrients** – These encourage plant growth and the growth of beneficial soil microbes, helping to establish crucial root symbioses
- **Zelp is high in complex polysaccharides (sugars)** – These help soil life and plant life