

ZELP AND BRASSICAS (Apr, 2014)

(Roger Beattie)

PLANTING

A 3.64ha paddock (R & N Beattie's property – Back Middle at Ataahua) was cultivated with a grubber, harrowed and then rolled. The paddock was split into four 0.91ha sections. The same brassica seed mix (see table) was broadcast spread onto all four sections. Three sections were spread with Zelp (2kg, 10kg, 30kg) and one section was spread with seed only (control). After sowing the paddock was harrowed and rolled.

Brassica Seed Mix:

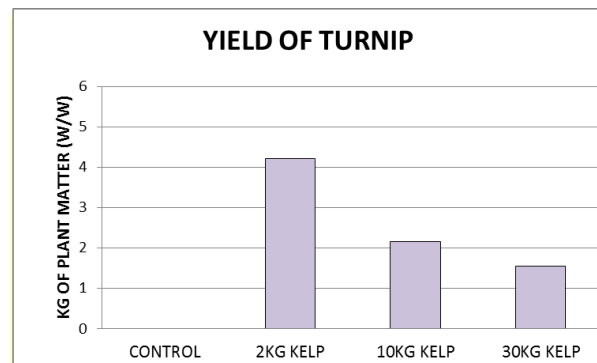
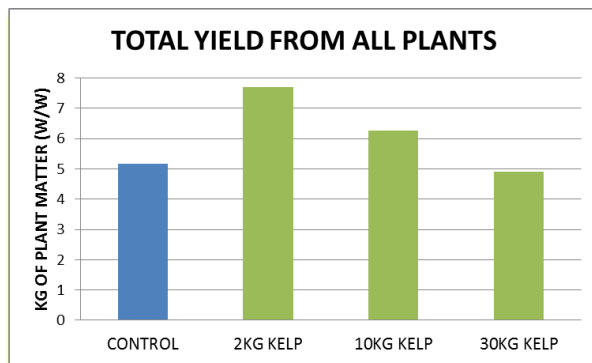
| Actual Seed Quantity in each section | Per hectare equivalent |
|---|------------------------|
| 1.75Kg Rape (Winfred) per section | 1.92kg/ha |
| 0.125Kg Turnip (York Globe) per section | 0.14kg/ha |
| 0.125Kg Mustard per section | 0.14kg/ha |

*25kg of Aglime was also added to both the control and the 2kg Zelp as a carrier.

12/02/14 – Sowing date

15/04/14 – Sampling Date

RESULTS



Each treatment was randomly sampled with 3 x 1m² samples.

The 2kg Zelp treatment resulted in the highest overall yield of 7.7kg, 49% higher than the control's 5.18kg. The yield from the 10kg Zelp treatment was 6.28kg, while the 30kg Zelp treatment was the lowest, 4.92kg. Nearly all of the plants in the control were rape, whereas all the Zelp groups contained rape, turnip and mustard. This demonstrates that the Zelp is assisting in the germination of turnip and mustard.

Probable explanations for the increase in productivity when Zelp is sown with seeds:

- **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

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Control Group – No Turnip Visible



2Kg Kelp/Ha Group – (7 turnip/sm)

