

ZELP AND CARROTS (Feb, 2011)

(Roger Beattie)

PLANTING

This experiment was conducted in the Vege Garden at R & N Beattie's property in Lansdowne Valley. A quantity of carrots seeds was split into 5 equal amounts. Each of the 5 lots of seed represents a different treatment - One control and four different kelp concentrations. The seed was mixed into 50g of soil and either 0.25g kelp, 0.5g kelp, 2.5g kelp or 5g kelp (or no kelp for the control). This seed, soil, kelp mixture was spread evenly into 5 x 4m rows. The final 1m in each row was harvested, the number that germinated and the total weight was recorded.

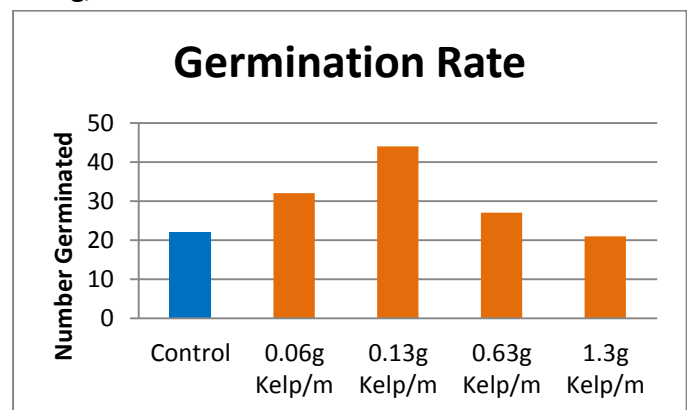
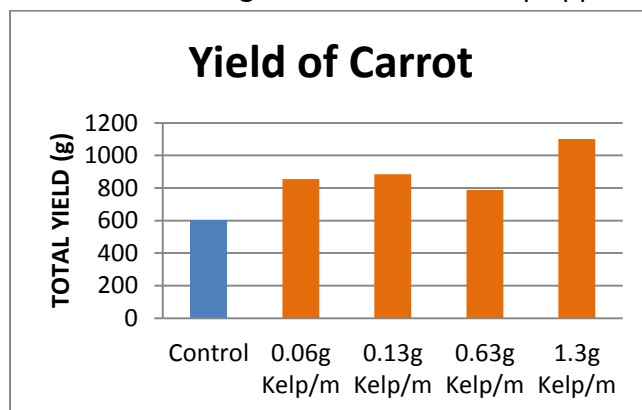


November 2010 – Sowing Date

February 2011 – Harvest Date

RESULTS

- 1.8 x greater yield of carrots when kelp applied at 1.3g/m of row
- 1.5 x greater yield of carrots when kelp applied at 0.13g/m of row
- 2 x better germination when kelp applied at 0.13g/m of row



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