## Zelp, Microgreens and Cottage Cheese (September 2018)



(Juliette Gautier, ESA University)

## <u>PLANTING</u>

This trial was conducted in a greenhouse on R & N Beattie's property at Lansdowne Valley.

There were 4 treatments and one control, and each trial had the same trays of microgreens radishes seeds. Seeds were planted at the top the soil (2g of seed on each). **The soil was homogenous and organic**. Treatments were Control, 0.25g/l Zelp, 0.5g/l Zelp, 1g/l Zelp and 2g/l. The Zelp was applied by being sprayed evenly on top of the seed each day.

Here, we just look the control and **0.5 g/l**.



0.5 g/l

Control



0.5 g/l

RESULTS

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Control

## <u>RESULTS</u>

- Microgreens radishes with Kelp were larger and much heavier, they are all better with Kelp
- **31.25%** increase in yield (weight of leaves and roots) when Zelp sprayed is 0.5g/l
- 22% increase in yield (weight of leaves) when Zelp sprayed is 0.5g/l
- **14.8%** increase of the length between control and 0.5g/l

Probable explanations for the increase in productivity when using Zelp:

The soil is like cottage cheese, clumpy, moist and feel alive
Spray microgreens without Kelp: light soil

Spray microgreens with Kelp: dark soil

- Spray microgreens without keip: light solf The soil is flat, not interconnected, loose, dry, feels lifeless, would blow away in the wind
- 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
- **Zelp is high in iodine** These is an important component of thyroid hormones that are essential for growth, the nervous system and metabolism