



Master project: Investigation of Gerbera seed set and quality



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Place, date, unit, occasion etc. Slide 1

Introduction

- 'Sakata Ornamentals Europe' A/S was interested in better seed set and seed quality of Gerbera.
- Mineral soil solution and foliar Ca2+ application were identified as important factors as well as temperature.
- Gerbera can be regarded as a model for ornamental plants.





Investigate Gerbera seed set and seed quality by following factors:

- Different concentration of mineral nutrient sollution
- Foliar Ca2+ application
- Different temperature conditions (second experiment)



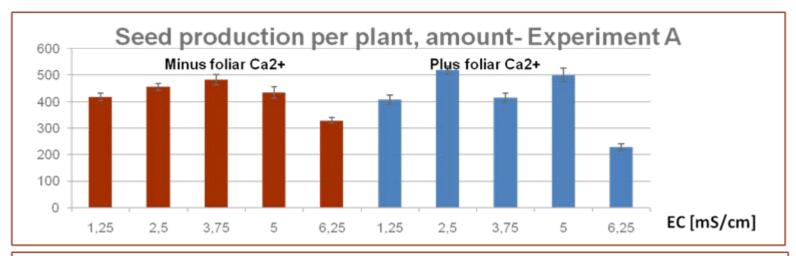


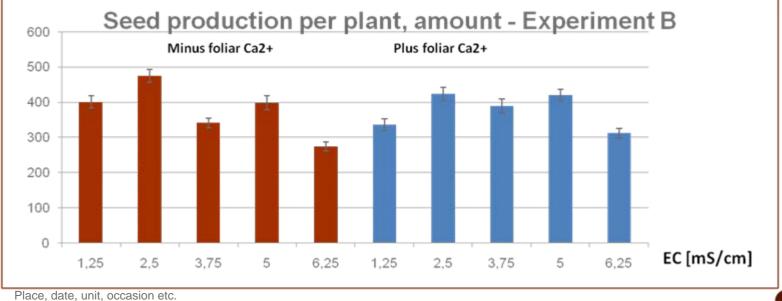
Materials & Methods

- Two independent experiments for the fertilizer experimental part were performed.
- Nutrient solution from 1,25 to 6,25 mS/cm (EC) were applied manually during the whole growth period.
- Three foliar applications of 0,5% Ca2+ were conducted.
- Flowers were pollinated.
- Seeds were harvested, dried, cleaned, counted and weighted.



Results I

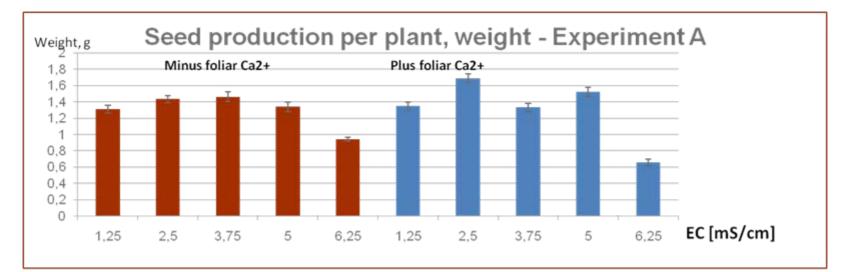


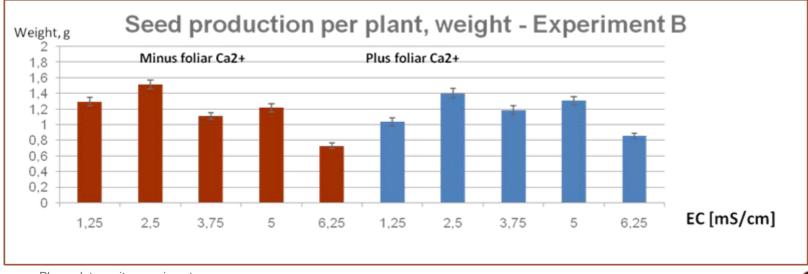


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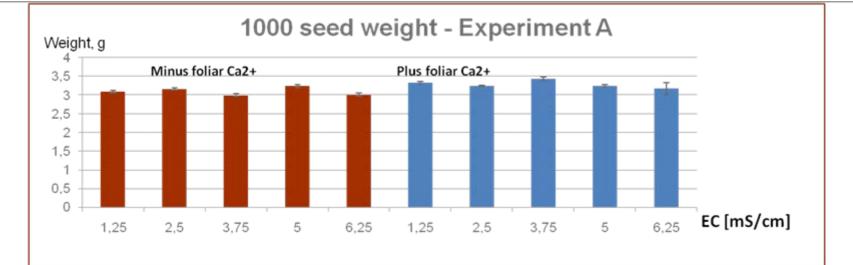
Results II

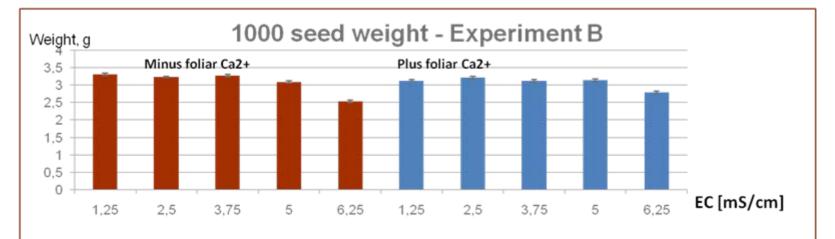




Place, date, unit, occasion etc. Slide 6

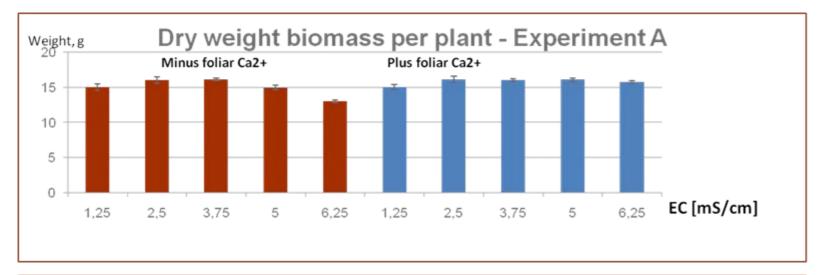
Results III

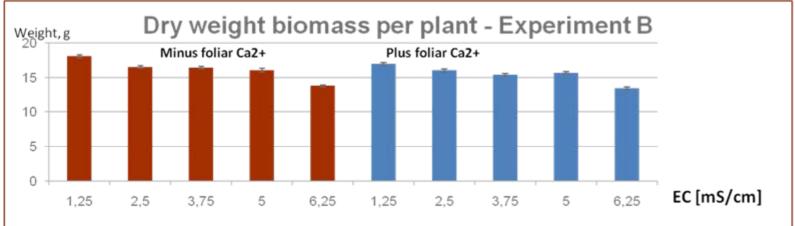




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Results IV







Place, date, unit, occasion etc. Slide 8

Results to be obtained

Germination test – a qualitative approach

- Ordinary germination test
- Germination speed test
- Hopefully clearer difference between the treatments



Concluding remarks

- Seed production was observed to be highest at EC 2,5 regardless of Ca2+.
- Seed production, 1000 seed weight and plant dry weight biomass was observed to be lowest at EC 6,25 regardless of Ca2+.
- Ca2+ foliar treatment did not seem to have a significant effect.





