



Soil salinity and its effect on some physical and chemical properties of Omani lemon

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References

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- *Cerde, A. , M. Caro ,F. G. Fernandez and M. G. Guillen. (1986). Effects of irrigation Water quality on Verna Lemon Response and Soil Salinity. Agrochimica, 30(3), 207-217
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Research questions

- 1-What is the effect of high soil salinity on the size of Omani lemon ?
- 2-How does soil salinity affect the volume of lemon juice ?
- 3-What is the relationship between soil salinity and the acidity of lemon juice?

Summary

The objective of this study is to study the effect of soil salinity differences in some physical and chemical properties of Omani lemons. Salinity of the soil significantly affected the size of the lemon and lemon juice where it decreased significantly, while the high salinity of the soil leads to high acidity of the lemon juice .

Data collection methods :

Practical experimentation -Interviews - Application of Soil and water protocols

Research question	Application Method	Date
Question 1	Measuring the weight of each fruit in grams for each location separately using the electronic weight scale	19/2/2019 21/2/2019
Question 2	Squeezing each fruit using the electric juicer and taking the weight of the juice of each fruit using the electronic weight scale	22/2/2019 23/2/2019
Question 3	Using a PH sensor probe to determine the PH of the juice of each fruit.	22/2/2019 23/2/2019

Research Methods

Table (1): Research time plan.

Month	Target
Formulating the research problem	October 2018
Determination of the study sites	
Gather information from scientific sources and references	December 2018
Data collection and analysis	
Reach conclusions and recommendations and write research	February 2019
Design the research poster and submitting the research	March 2019



Results

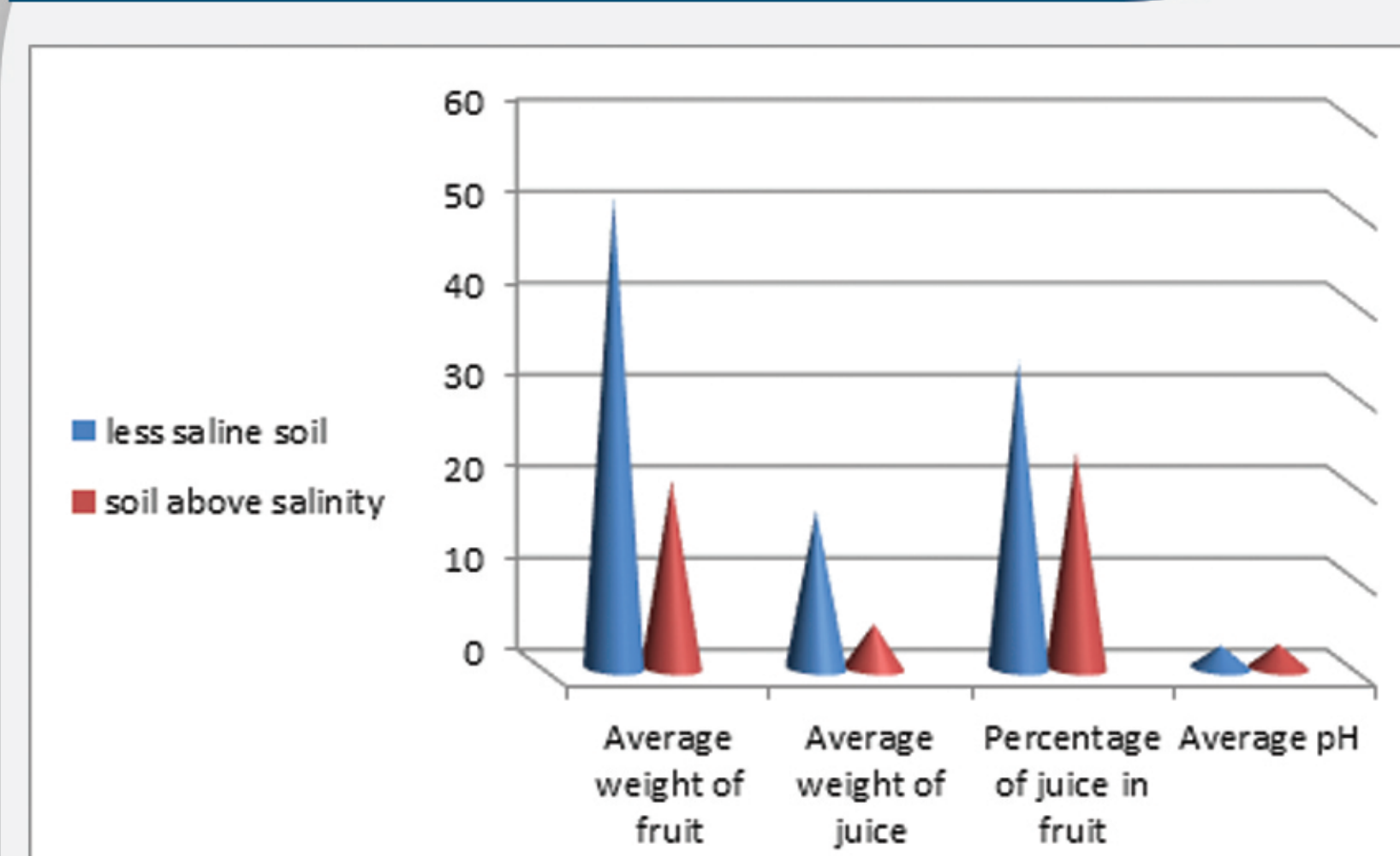


Chart: Comparison of physical and chemical properties of Omani lemon

Conclusion

high salinity of the soil greatly affects the size of the Omani lemon and lemon juice and the percentage of juice in the lemon, which decreased significantly. In addition, results showed that the high salinity of the soil leads to high acidity lemon juice .