

Study of Water Resources Characteristics and Their Suitability for Agriculture in Al-Dreiz Village

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Objectives

- To study groundwater and freshwater characteristics and their suitability for agriculture, and compare both types due to high groundwater salinity.

Research Questions

- 1. What are the reasons for the high salinity of groundwater in Al-Dreiz?
- 2. What is the difference between salinity and acidity of groundwater and Al-Masarat water? Which is more suitable for agriculture?

Methodology

- Field visits, interviews with farmers, water sampling, laboratory analysis using Water Protocol, and data comparison.

Results

- Groundwater salinity: 716 ppm
- Al-Masarat water salinity: 515 ppm
- Acidity: Both types moderate (8.0 - 8.8 pH).

Discussion

- Groundwater salinity is significantly higher than Al-Masarat water. External factors such as overuse, harmful weeds, and traditional irrigation methods contribute to this issue.

Recommendations

- 1. Monitor groundwater characteristics regularly.
- 2. Promote modern irrigation methods.
- 3. Conduct further research in other areas.

Acknowledgment

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