



A Study of The Emergence of White Algae Causes and Its Effect on The Properties of Falaj Water in Quraiyat Region

School: Umm Al Hakam bint Al Zubair School for Basic Education (1-10)

Supervised by: Shaikha Abdullah Mohamed Al Maawali

Done by: • Noof Ali Rashid Al Niri
• Ritaj Ahmed Abdullah Al Gassani
• Alathra Ahmed Juma Al Mawali



Sources

- 1- حداد، خالد. (2006). الموسوعة الثقافية للناشئة عالم النبات (ط.64). سوريا: دار الإرشاد للنشر.
 - 2- محمود، محمد، وفهمي. 2009. أساسيات علم النبات العام. مصر: دار الفكر العربي.
 - 3- السعدي، حسين، وسليمان، نضال. (2006). علم الطحالب. الأردن: دار الفكر العربي.
 - 4- بوني، أ.د. (1998). العوالق النباتية (ط.65). السعودية: مطابع جامعة الملك سعود.
 - 5- وزارة البلديات الإقليمية وموارد المياه. (2015). سد وادي ضيقة. دائرة التوعية والإعلام.
 - 6- كايا، زكريا. (2005). موسوعة مملكة النبات (ط.6). لبنان: دار الراتب الجامعية.
 - 7- البلوشي، يعقوب. (2016). شرح بروتوكولات الماء للبرنامج التدريبي لمعلمي برنامج GLOBE البيئي. مكتب البرامج التعليمية الدولية.
 - 8- وديان، محمد. (2000). دراسة تأثير الإجهاد الملحي على الطرز الوظيفية للطحلب الأخضر-المزرق (الأناثيا). الأردن: دار المنظومة.
- استرجعت في 2020/2/9 من
<https://search.mandumah.com/Record>

Research Questions

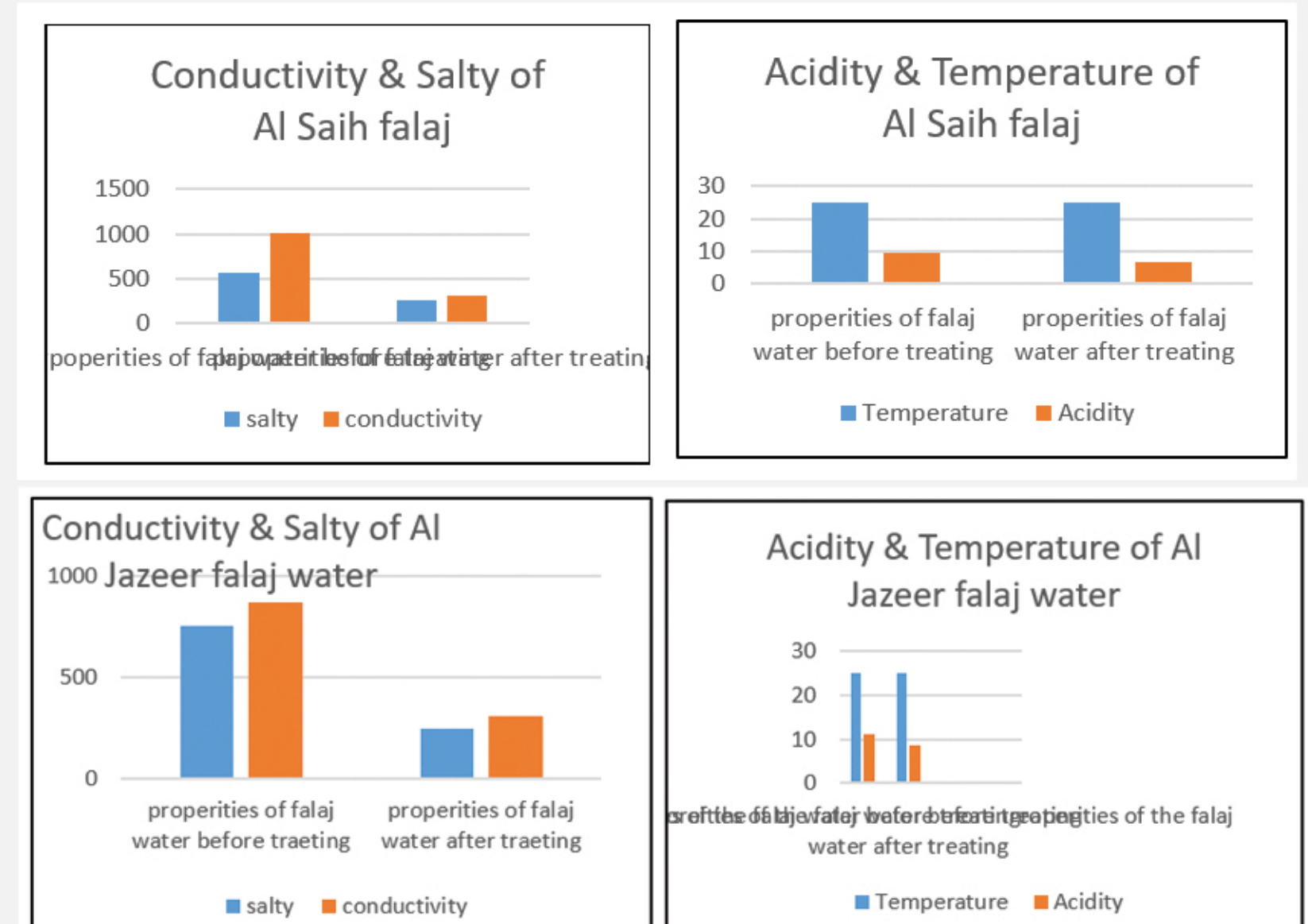
1. What are the reasons of the emergence of white algae in Al-Saih and Al-Jezeer falajes in Quraiyat?
2. What are the properties of water before and after treating white algae in the affected flajes?

Summary

This research aims to study the causes of the emergence of white algae and its effect on the properties of Quraiyat falajes.

Methodology

1. Selecting a research problem. It was identified by the students, then was discussed with the teacher and the supervisor.
2. Coordinating with Center for Marine Research and Fisheries of Muscat.
3. Interviewing Head of the operation and maintenance section of Wadi Deiqa Dam, Abdullah Al-Furi.
4. Applying water protocol and take measurements (salinity, conductivity, transparency, temperature and acidity).
5. Comparing the results, analyzing them graphically using Excel program and writing recommendations.



Results

properties of Al Saih falaj water before and after treating

properties of water after treating	properties of water before treating	Sample of Al Saih falaj
25	25	Temperature
6.48	9.49	(PH) Acidity
248ppm	565ppm	Salty
307us	1011us	Conductivity

properties of Al Jazeera falaj water before and after treating

properties of water after treating	properties of water before treating	Sample of Al Jazeera falaj
25	25	Temperature
8.61	11.2	(PH) Acidity
250ppm	751ppm	Salty
307us	870us	Conductivity

Conclusion

Through what has been reached in the study results: It turns out the presence of blue-green algae of the anabena type in very large quantities, and this type was the reason behind the algae being stained Which causes many bad effects to human beings.

