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Actual Changes in the Irrigation Management with 30 Year Improvement Project: A Case of the Dakalt District in the Nile Delta

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Introduction

The main idea is:

- 1- to compare IIP in 1983 and 2013 (30 years difference). This comparison will show historical changes before and after IIP.
- 2- Effect of un-free (in 1983) and free (in 2013) cropping pattern in water management and performance been discussed. The implementation of IIP in Dakalt area were started in 1993.
- 3- However, the farmers changed some of featurus of implementation by themselves such as introducing electricity beside diesel pump units as per their experience.
- 4- Central management of the scheme with a top-down management approach were used in 1983. While, semi management approach after introducing Water User Associations (WUA) been used (in 2013 case).

Main Information's and map for Dakalt district area

Specification	Details information (in 2011)
Main Canal (water source)	Meet Yazied Canal (MY)
Total served area	2310 hectar
Length of the irrigation canal	11.3 km
Location of the intake	41 km RMY
Irrigation system	Rotation-Surface Irrigation
Drainage system	Open and subsurface systems
No. of Mesqas (sub-branch canal)	22
Total No of Users	4050
Population	21300
Mosques No.	30
Agriculture associations names	Eslah Dakalt, Eslah Edryga, Elwezaria, Abo raya and El sabet
Main boundaries	South: Meet Yazied Canal North: El Hamoul –El Ryiad Road East: Drain NO 7 + international road West: Dail El Kased canal + Drain NO 4
No of members of representative committees	48 member (40 from agriculture societies+ 8 from housing units)

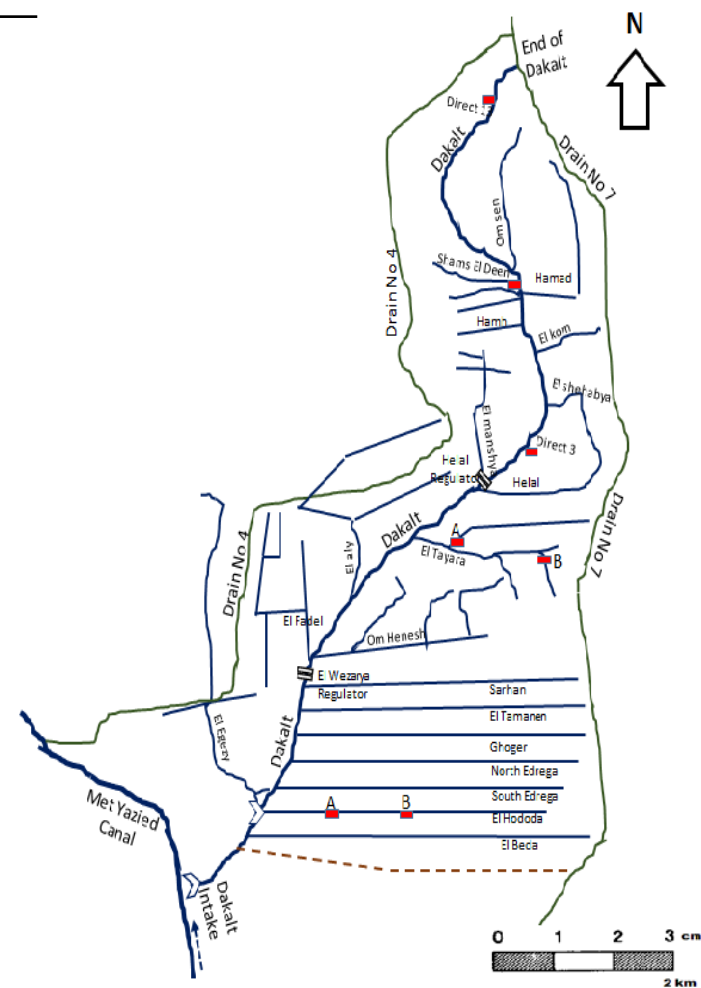
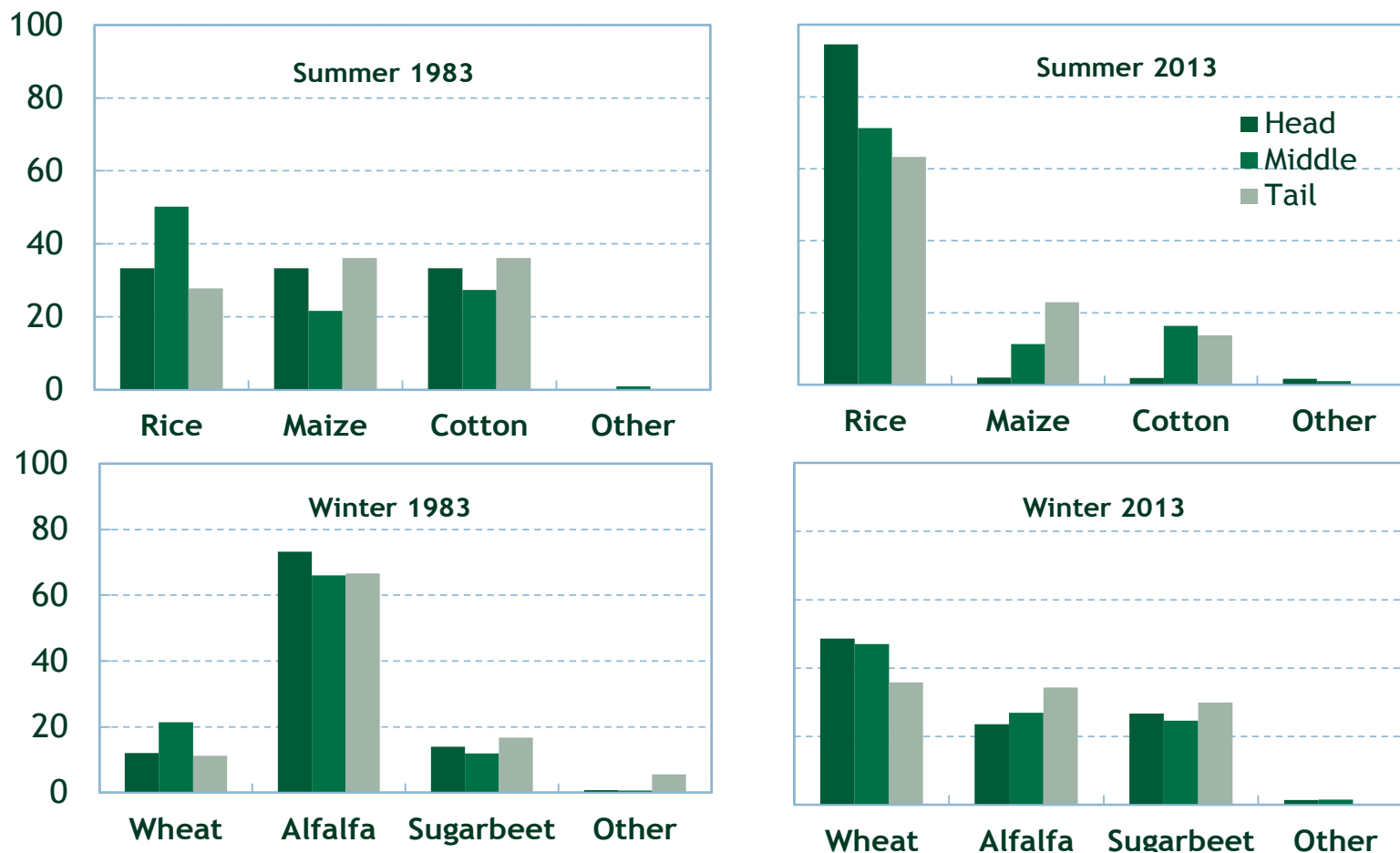




Figure 2: Crop pattern changes (1983 – 2013) in winter and summer seasons

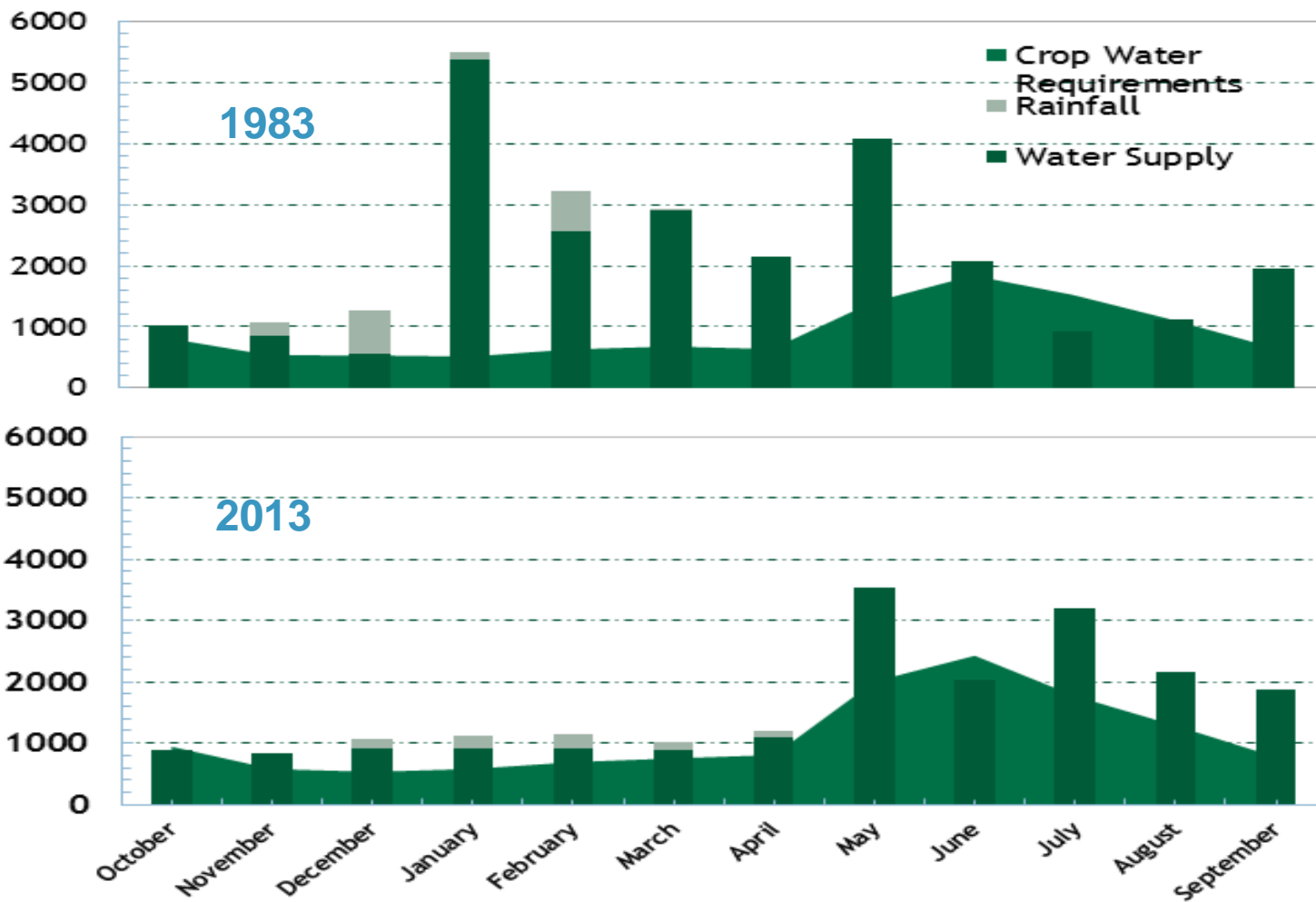




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Applied water and crop water requirements changes (1983-2013)

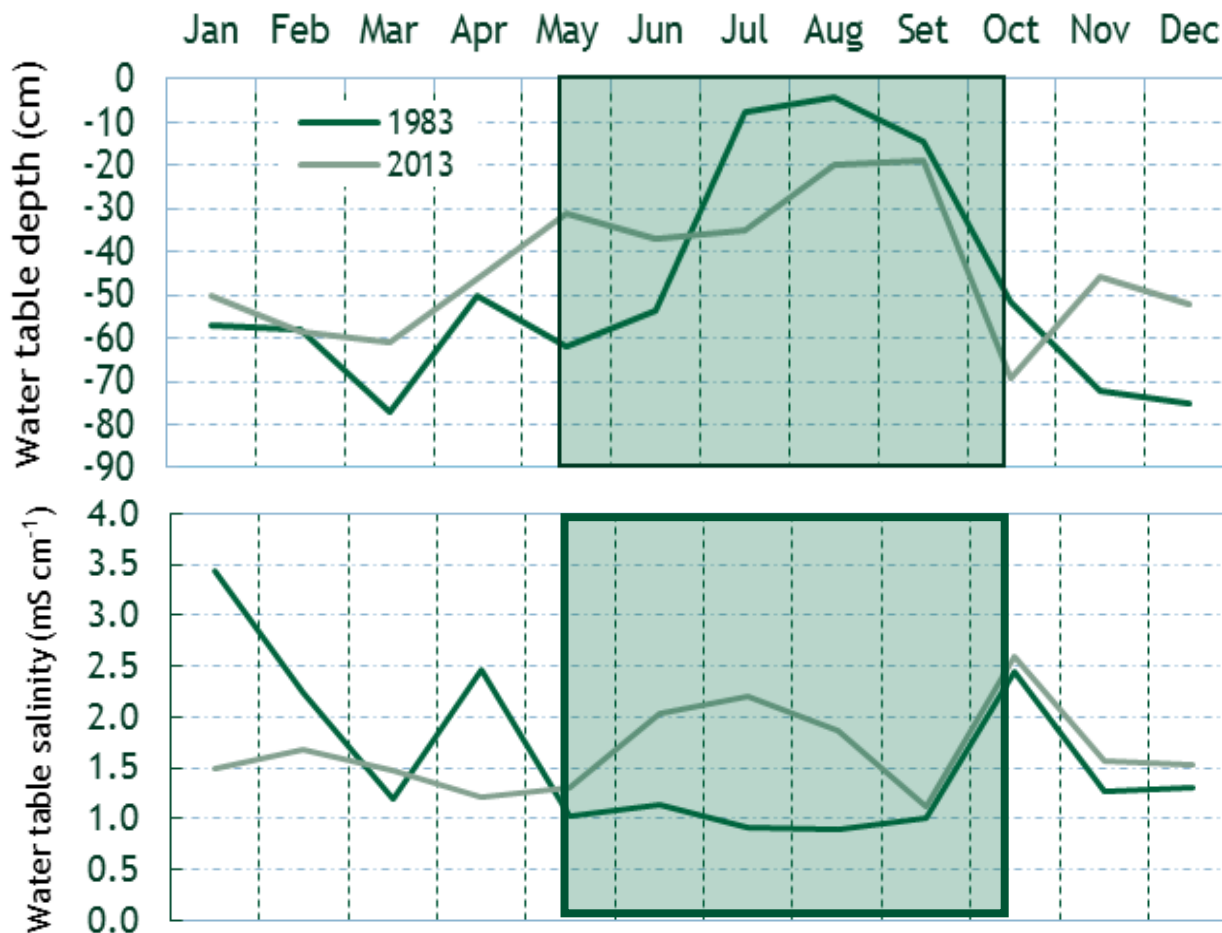




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Water table depth and salinity fluctuation (1983 – 2013)



THANK YOU

