



Effectiveness of Surge Flow Irrigation in Egypt

Water use efficiency in field crop production



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Effectiveness of Surge Flow Irrigation in Egypt Şâlih Maḥmūd Ismā'īl Ibrāhīm, Saleh Mahmoud Ismail, 2004

Effectiveness of Surge Flow Irrigation in Egypt Ismael Mahmoud, 2003-01-01 This study has been carried out to demonstrate the applicability of surge flow irrigation for water saving under the short field conditions that prevail in Egypt. The results indicate that surge flow irrigation is an effective irrigation method to save water and to increase crop production.

Effectiveness of Surge Flow Irrigation in Egypt Ismael Mahmoud, 2017-09 Egypt is a country of tremendous land resources but limited water resources. The area of cultivated land is only 3.2 per cent of the gross area. The river Nile is the main source of water. In the recent years, the Government established large scale agricultural projects in light of food security related to the population growth. Expansion of irrigated agriculture has to be predominantly realized by increasing the water use efficiency. In Egypt, the dominant irrigation method is surface irrigation, which covers approximately 83 per cent of the irrigated areas. Surface irrigation or gravity methods are generally characterized by a low efficiency. One opportunity to increase the efficiency is to convert surface irrigation to modern irrigation systems, which are generally highly expensive for a country like Egypt. Another option to increase the efficiency of surface irrigation systems is to convert the traditional irrigation method based on continuous flow to surge flow irrigation. Surge flow irrigation is the intermittent application of water to furrows in a series of relatively short on and off time periods. *Technological and Modern Irrigation Environment in Egypt* El-Sayed E. Omran, Abdelazim M. Negm, 2020-03-26 This book gathers contributions on modern irrigation environments in Egypt from an environmental and agricultural perspective. Written by leading experts in the field, it discusses a wide variety of modern irrigation problems. In the context of water resources management in Egypt, one fundamental problem is the gap between growing water demand and limited supply. As such, improving irrigation systems and providing farmers with better control over water are crucial to increasing productivity. The book presents state-of-the-art technologies and techniques that can be effectively used to address a range of problems in modern irrigation, as well as the latest research advances. Focusing on water sensing and information technologies, automated irrigation technologies, and improved irrigation efficiency, it brings together a team of experts who share their personal experiences, describe the various applications, present recent advances, and discuss possibilities for interdisciplinary collaboration and implementing the techniques covered.

Irrigated Agriculture in Egypt Masayoshi Satoh, Samir Aboulroos, 2017-03-17 This book targets the issue of water scarcity in Egypt as a typical example of the world water crisis. Today, the available water resource is facing its limit because of rapid increase in water demand as a result of population growth and changes in people's life style. The basic idea to solve the problem of water scarcity is that the irrigation sector, the biggest user of water, should increase water use efficiency. However, the real problem is how this can be achieved in view of the crucial need for water in this sector. This book addresses this challenge through case studies from the Nile delta in Egypt. The water problem in the Nile delta, the major source for

water in Egypt is discussed in this book from all its various aspects This book covers the situation before and after the advent of the Aswan High Dam so that the reader understands the entire development Another special feature are the extensive and scientific descriptions of contemporary topics in water and agriculture especially from the viewpoint of water saving and sustainability These descriptions are based on field experiments and surveys in a six year international research project Topics of this book are local but their implications are global Deficit Irrigation Samiha Ouda, Abd El-Hafeez Zohry, Tahany Noreldin, 2020-01-22 This book focuses on proving that deficit irrigation could play an important role in increasing food production in times of water scarcity Although the application of deficit irrigation can involve loss in crop productivity it still secures water to be use in cultivating more lands and producing more food The following questions are discussed and the authors offer solutions to these problems Will the production on a national level resulting from these new added areas compensate yield losses attained by application of deficit irrigation Is it possible to use deficit irrigation practice to reduce the applied irrigation water to certain crops that have a surplus in their production and direct this saved water to cultivate new areas with crops have low self sufficiency ratios Under climate change in 2030 would deficit irrigation practice have the same role it plays under the current conditions This book will appeal to students and researchers involved with water scarcity and food security *Irrigation Efficiency* Water Resources Scientific Information Center, 1973 **Major Crops and Water Scarcity in Egypt** Samiha Ouda, 2015-08-24 This book includes multi disciplinary quantifications of the effect of climate change on water requirements of wheat maize rice and sugarcane Furthermore it provides on farm management that faces water scarcity under current situation and under climate change Changing cultivation method raised beds instead of furrows or basins or increasing irrigation application efficiency sprinkler or drip systems instead of surface irrigation can reduce the applied water Irrigated agriculture although profitable it endures wasteful use of valuable water resources Taking into account the risk of climate change developing countries like Egypt will highly suffer Furthermore the effect of intercropping two crops use the applied water to one of them and or using crop rotations arrange crops to reduce the applied water increase water productivity and sustain soil fertility on production and consumed irrigation water by crops were comprehensively analyzed *Water Harvesting and Supplemental Irrigation for Improved Water Use Efficiency in Dry Areas* Theib Oweis, Ahmed Hachum, Jacob Kijne, 1999 With reference to West Asia and North Africa **Improving Surge Flow Irrigation Efficiency Based on Analysis of Infiltration and Hydrodynamic Effects** Ernest T. Smerdon, Allie William Blair, 1985 Irrigation Management in Egypt Kenichi Yoshida, 2000 **Irrigation Water Management** Mulubrehn Kifle, 2012-06 Surge flow irrigation is the intermittent application of water to furrows in a series of relatively short on and off time periods The study was conducted to evaluate the effect of cycle ratio and discharge on application efficiency uniformity and yield under continuous and surge irrigation Four treatment combinations of surge flow irrigation SF having a single cycle time CT of 10 minute and two discharge of 2 l s Q1 and 1 l s Q2 and two different cycle ratios of 1 3 CR1 and 1 2 CR2

were evaluated with two control continuous flow applications 1 C The results showed that the interaction effects were significantly different in influencing application efficiency and storage efficiency while the interaction effect was not significant different on distribution uniformity Similarly the tail water loss deep percolation loss and onion yield were also significantly affected by the interaction Better application efficiency and uniformity were achieved for surge flow with less water than continuous that saves water and increases the crop yield Therefore this book is important for irrigation managers to have some insights on using irrigation water in optimum way Surge Flow Irrigation Field Guide ,1986

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