



Subsurface drainage and surface water management for salinity control

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The problem

Salinity, waterlogging and soil structure decline are major threats to maintaining agricultural productivity, water resources and biodiversity in the south-west agricultural region of Western Australia. Under the current land management practices soil and land degradation caused by these issues will affect the productivity of up to 30 per cent of the agricultural area by 2050. If we are to reduce the area impacted then management action needs to be taken now.

This Farmnote provides information on engineering options for salinity control. Information on vegetation options to control salinity, such as the use of perennial pastures and revegetation, is available from the Department of Agriculture.

Water management systems

Excess water in the landscape can be managed using engineering options such as shallow or deep drains and, in some situations, groundwater pumping or relief wells. These structures are designed to control run-off, to lower groundwater tables and reduce the effects of water erosion, waterlogging, flooding, groundwater recharge, groundwater discharge, high watertables and salinity. Effective water management can reduce productivity losses caused by excess water.

A system to manage excess water can include:

- **surface water management** options, through the construction of broad based channels, grade banks or shallow drains;
- **subsurface drainage or groundwater management** options, through deep drains, relief wells, siphons or pumping.

Management of excess water also includes methods for disposal of discharge, such as the development of on-farm water resources (dams, bores, water distribution systems) for fresh water, or detention storage and evaporation basins for low quality or saline water.

Water management systems are complex and need to be carefully planned and evaluated prior to construction to gauge their impact. Surface water management and subsurface drainage target quite different problems with different engineering techniques. Their impact both on- and off-site needs careful consideration, particularly in regard to neighbouring properties.

Subsurface drainage

Problems arising from groundwater recharge and high watertables can be tackled through deep drainage or pumping. Issues to consider when developing a drainage management plan include:

- the assessment of on-site characteristics (soils, geology, and gradient of slopes) to establish the potential for effective drainage. Deep drains constructed in heavy, clay soils in the lower landscape are generally not effective in lowering the watertables, while drains in coarse, sandy soils are often unstable and prone to erosion;
- determining the permeability or rate at which water will flow from the soil into a deep drain, or the rate at which it can be extracted using a pump. This will establish the area affected by the drain or pump and can be useful in estimating the amount of water likely to be discharged. For example, sandy, coarse soils have high permeability, whereas heavy, clay soils have low permeability;
- assessing the best areas for subsurface drainage. The greatest economic benefit can be achieved where high value crops are to be protected, such as the drainage system on the Swan Coastal Plain to establish the horticulture and dairy industries;



Using a combination of systems, such as drains, banks, roaded catchments and dams, is likely to produce the best results when trying to manage surface water and near surface recharge.

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Drainage And Salinity Control

**Symposium on Land Drainage for
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environmental and financial considerations and the water food energy nexus are an integral part of the drainage design process Controlled drainage i e the balance of removal and conservation of drainage water and minimising solute transport as low as reasonably achievable ALARA principle is extensively described This work is intended for use both as a university level textbook and as a professional handbook it is of particular value to professionals engaged in drainage development in the context of integrated water resources and river basin management civil and agricultural engineers government officials university students and libraries

Drainage System Design for Salinity Control Herman Bouwer,American Society of Agricultural Engineers,1972

Management of Agricultural Drainage Water Quality Food and Agriculture Organization of the United Nations,1997-01-01

Salinity Management for Sustainable Irrigation Daniel Hillel,2000-01-01 Irrigation has long played a key role in feeding expanding populations and is expected to play a still greater role in the future However is it sustainable Can it remain in existence and function continuously and indefinitely Some pessimists doubt that it is This volume presents a more positive approach with carefully conditional optimism It takes the diffuse voluminous and disparate facts and combines them in a unified exposition It merges physico chemical agronomic environmental and economic principles into practical recommendations to help ensure the long term viability and productivity of irrigated agriculture in arid and semiarid regions

Research Developments in Saline Agriculture Jagdish Chander Dagar,Rajender Kumar Yadav,Parbodh Chander Sharma,2019-06-21 Soil and water salinity is a major challenge for the agricultural community and policy makers in terms of meeting the burgeoning population s demand for food and other agricultural commodities In coastal regions climate change and sea level rise will aggravate the problem with more and more areas becoming saline due to intrusion of sea water As such there is a pressing need for modern tools and innovative techniques for the identification of salty soils and poor quality waters crop production soil reclamation and lowering the water table in waterlogged areas Tackling next generation problems such as contamination of soil and underground water due to fluoride and arsenic as well as developing multi stress tolerant crops is also a high priority Further techniques for domesticating halophytes mangrove based aquacultures using seaweed cultures as agricultural crops and integrated farming systems need to be perfected This book addresses all these aspects in detail highlighting the diverse solutions to tackle the complex problem of salinity and waterlogging and safer management of poor quality waters With chapters written by leading experts it is a valuable resource for researchers planning future investigations policy makers farmers and other stakeholders and for students wanting insights into vital issues of environment

Symposium on Land Drainage for Salinity Control in Arid and Semi-arid Regions, February 25th to March 2nd, 1990, Cairo, Egypt Egyptian Public Authority for Drainage Projects,Drainage Research Institute,International Institute for Land Reclamation and Improvement,1990

Agricultural Salinity and Drainage Blaine Hanson,Stephen R. Grattan,Allan Fulton,1993

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web do i have an emergency contact person who lives out of the area do my relatives or close friends know who this person is do i know my neighbors in case we need to help each other in an emergency if i'm receiving home health services have i discussed emergency procedures with the provider

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