

## Introduction Spate Irrigation

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What is Spate Irrigation? What is SPATE IRRIGATION? What does SPATE IRRIGATION mean? SPATE IRRIGATION meaning \u0026amp; explanation

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Design of spate flow diversion and distribution structures

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Spate Irrigation in Somaliland **Spate Irrigation Ethiopia Spate Irrigation** ~~Irrigation Training With Waterpro Learn The Basics of Irrigation Ison's Nursery How to Setup a Drip Irrigation System~~ **Spate Irrigation Balochistan Lecture 9: Irrigation Scheduling**  
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*spotlight on Drip Applicators, Emitters, Bubblers, \u0026  
Microsprays*

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The Secret Life Of Leopards ~~Drip Irrigation for Olives Qila Saif  
Ullah Balochistan Installing a Drip Irrigation System for Raised  
Beds Conserve Water with Drip Tape Irrigation D.I.Y Gravity type  
Irrigation Small Farms Drip Irrigation - Installation in Field  
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Setting up a Drip Irrigation System (Start to Finish) Spate  
irrigation Potential \u0026 Challenges in Sindh Goals of  
Irrigation | Introduction Lesson 5 Water as Heritage: Spate  
Irrigation in Semi-Arid Areas (Karim Nawaz, Flood-based  
Livelihoods Network) Everything You Need to Know About Drip  
Irrigation! City Scripts 2016 | Gautam Bhan in conversation about~~

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his new book with Kalpana Sharma *Financing India's Infrastructure post Covid-19 Introduction Spate Irrigation*

Spate irrigation is the art and science of water management that is unique to semi-arid environments. It is found in the Middle East, North Africa, West Asia, East Africa and parts of Latin America. Flood water from mountain catchments is diverted from river beds (wadis) and spread over large areas. Spate systems are very risk-prone.

*Spate Irrigation Systems: Introduction to Spate Irrigation*

Spate irrigation is a crop irrigation technique consisting of diverting seasonal stormwater from valleys, rivers, riverbeds and gullies by gravity onto farmland situated at a lower elevation than the flood water. The flood water is then diverted to the fields. This may be

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done by free intakes, by diversion spurs or by bunds.

*Spate Irrigation | SSWM - Find tools for sustainable ...*

Spate irrigation (from the English word spate, meaning: a. a flood or inundation. b. a river flooding its banks) uses seasonal floods of rivers, streams, ponds and lakes to fill water storage canals. If irrigation is the manipulation of water for use in growing crops, spate irrigation is perhaps

*Spate irrigation - Wikipedia*

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*Course: Spate Irrigation Systems, Topic: 1. Introduction ...*

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*Spate Irrigation | SSWM*

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Flood water from mountain catchments is diverted from river beds (wadis) and spread over large areas.

*OCW\_SIS: What is Spate Irrigation? - click for more...*

Introduction to Spate Irrigation . What is Spate Irrigation? - click for more... ????; 1.1 Lecture - click for more... ????; 1.2 Reference Material - click for more ????; 2 2. Spate Hydrology. The design, use and performance of spate irrigation systems ????; 2.1 Lecture - click for more... ????; 2.2 Lecture - click for more ...

*OCW\_SIS: What is Spate Irrigation? - click for more...*

Topic: Spate Irrigation Systems 1 Introduction Spate irrigation is a unique and ancient form of wa-ter management typical for ephemeral river catchments (namely wadis) in arid climates. The

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technique is based on the diversion of seasonal wadi wash floods with the use of diversion bunds, built within the river bed during dry periods.

*Introduction Spate Irrigation - worker-front7-3.hipwee.com*

The largest area under spate irrigation is in Pakistan (1402000 ha).

Spate irrigation systems are among the most fascinating and complex resource management systems. Knowledge of spate irrigation systems is extremely limited. 1. Introduction Spate irrigation is an ancient form of water harvesting and managing unpredictable and

## *INTRODUCTION TO SPATE IRRIGATION*

1. Introduction 1 Definitions and concepts 1 History of spate

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irrigation 3 Extent and distribution of spate irrigation schemes 5  
Classification of spate irrigation schemes 6 Purpose and scope: how  
to read these guidelines 9 2. The social setting 11 Summary 11  
Introduction 13 Land tenure 13 Tenancy and sharecropping 16  
Livelihood strategies 17

## *Guidelines on*

Spate irrigation: diversion, distribution and management of short  
duration flood flows from seasonal or ephemeral rivers Flood-  
spreading weirs: using a series of weirs to manage and spread  
floods for rehabilitating degraded land, enhancing ground water  
recharge Flood plain agriculture: cultivation of flood plains, using  
either

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*Africa to Asia and Back Again ... - [spate-irrigation.org](http://spate-irrigation.org)*

The Spate Irrigation Network aims to improve the livelihoods of those living in spate irrigated areas. It exchanges experiences and good practices, initiates and supports new programs and policies, and mainstreams education and training. It is supported by IFAD, World Bank/EKN, UNW-DPC, UNESCO-IHE/DUPC and FAO.

*Course: Spate Irrigation Systems*

**SPATE IRRIGATION LEADERSHIP COURSE** Protea Hotel  
Moshi 7th to 11th March 2016. Introduction of the Pangani Basin  
and the Makanya Flood Plains Henry Mahoo (PhD) Sokoine  
University of Agriculture. Map of Tanzania showing Pangani River  
Basin The Pangani River Basin Kenya Uganda

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## *SPATE IRRIGATION LEADERSHIP COURSE*

Crop production under spate irrigation in coastal areas of PDRY  
Ab.S. Mu' Allem El-Kod Agricultural Research Centre 1.

Introduction The need for irrigation in the coastal regions, either from floods or from pumped groundwater from the aquifer, is evident. The weather is hot and dry, with maximum and

*Crop production under spate irrigation in coastal areas of ...*

INTRODUCTION The Grant for the Project: Spate Irrigation for Rural Economic Growth and Poverty Alleviation was approved by IFAD in November 2010.

*SPATE IRRIGATION FOR RURAL ECONOMIC GROWTH AND POVERTY ...*

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Chapter 1. General Introduction 1 1.1. Spate irrigation 3 1.2. Why studying soil and water management? 4 1.3. Research objectives and questions 5 1.4. The systems approach 7 1.5. Outline of the thesis 9 1.6. References 10 Chapter 2. The Eritrean Spate Irrigation System 11 2.1. Introduction 13 2.2. Principles of spate irrigation in Eritrea 14 2.2.1.

## *Soil and Water Management in Spate Irrigation Systems in ...*

Spate irrigation is the art and science of water management that is unique to semi-arid environments. It is found in the Middle East, North Africa, West Asia, East Africa and parts of Latin America. Flood water from mountain catchments is diverted from river beds (wadis) and spread over large areas. Spate systems are very risk-prone.

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## *Topic: Spate Irrigation Systems*

Spate irrigation is a type of water management, unique to arid regions bordering highlands. It is a largely neglected and forgotten form of resource management, in spite of its potential to contribute to poverty alleviation, adaptation to climate change and local food security.

## *Spate Irrigation, Livelihood Improvement and Adaptation to ...*

TEXT #1 : Introduction Community Spate Irrigation In Raya Valley  
The Case Of Three Spate Irrigation Systems By Richard Scarry -  
Jun 28, 2020 ~ Community Spate Irrigation In Raya Valley The  
Case Of Three Spate Irrigation Systems ~, the study attempted to  
find out the spate irrigation management practice in

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Spate irrigation has been largely neglected in the technical literature.

An in-depth assessment of the century-old Wadi Laba indigenous spate irrigation system in Eritrea. This system has relied on earthen and brushwood structures and customary water rules to support subsistence livelihoods of the Wadi Laba communities for many years. This research analyses the effectiveness of the introduction of contemporary water laws and a new headwork which endeavour to increase production and standard of living. The lack of success of the new approach, compared with traditional methods of water

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management are discussed.

Flood based irrigation in particular spate irrigation relies on variable flood scenarios occurring every year. Management of spate flood for spate irrigation must cope with the variability and uncertainty of water supply. Coping with water supply risks is often the only way to harness the opportunities for a productive use of water in arid environment. Integrating and strengthening community responses into irrigation policies and improvement plans could ensure sustainable and productive spate irrigated systems that can achieve food security for the poor population. This research analyses and evaluates risks and coping strategies developed by farming communities in the Gash spate irrigation system in Sudan, Eastern Africa. The research has synthesized different coping strategies

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developed by farmers, water user associations and water managers to cope with low, high and untimely flood risks. The research provide different frameworks that can assist with the identification of risk sources, pathways and propagation as well as evaluation of locally developed strategies at field, secondary and intake systems. The findings of this study contribute to scarce knowledge on spate irrigation system and provide scientifically sound and evidence-based insights to aid informed policy and decision making to improve productivity and sustainability of the spate irrigation systems.

The management of irrigation systems is context-dependent, socially constructed, and technically uncertain. An example of complex social-ecological systems, irrigation deals with both the

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ecosystem uncertainty and the implementation of new technological systems and water management options. Issues to be addressed by irrigation systems at the global scale include: water productivity and food security, field operation and maintenance, spate irrigation in climate change scenarios, and vulnerability of environmental resources. This book provides examples of some of the current challenges faced by irrigation systems from technical and social perspectives. The book offers an easy-to-follow format focused on different case studies combining evidence-based solutions for increasing resilience and reducing vulnerability of irrigation systems in semi-arid and arid regions across the world.

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This book is intended as both an introduction to the discipline for students of landscape architecture, architecture, and planning, and a source of continuing interest for more experienced environmental designers. The book offers various materials for landscape architects and other planning professionals. The book is divided into 4 parts and 17 chapters. Part I "Introduction to the Landscape Architecture Theme" is general reading on landscape architecture. Part II "Art's Replica and Landscape Architecture Model" includes three chapters. This part represents a theoretical and sensitive visual interpretation of landscape architecture. Part III "Sustainable Prototypes of a Contemporary Landscape Architecture" includes four chapters, with sustainability as a concept and guiding thought. Part IV "Landscape Architecture Around the World (Study Cases)" includes 9 chapters with many examples from different

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geographical practical cases.

Spate irrigation has been practised over 100 years in the Red Sea coastal zone of Eritrea such as the Sheeb area. Main problem of the spate irrigation system is water shortage caused by irregular rainfall in the highlands of Eritrea and breaching of the irrigation structures by destructive big floods. Annually, a tremendous amount of soil with nutrients is eroded from the adjacent highlands, transported by seasonal streams (wadis) and deposited on the lowlands in the irrigated fields. The dominant types of soils of Sheeb area are the Fluvisols, which have good physical and chemical properties. The annual sedimentation on the spate fields enables the farmers to harvest a crop without application of fertilisers. A nutrient balance study revealed no soil mining in the spate fields. Farmers in Sheeb

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could obtain a more uniform water distribution over their fields with better levelling. Of the total area of Sheeb (8,000 ha), about 3,160 ha of land was classified as highly and moderately suitable for spate irrigation. When the flood diversion structures (at wadis Laba and Maiule) are made more permanent, an additional 2, 000 ha of land can be irrigated. In general, spate irrigation production system is a 'cost effective' system if the irrigation structures are properly maintained at low cost and if the fields receive enough water and nutrients.

An introduction to runoff agriculture - a form of agricultural irrigation - this text describes how the use of surface and subsurface water, often overlooked and wasted, enables both small farmers and commercial agriculturists to improve yields and the security of

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harvest, even in harsh and remote environments. The text introduces the techniques and strategies, as well as the challenges and the potential of the crucial approach, which can contribute so much to reducing land degradation and improving conservation and sustainability.

This thesis is the outcome of a field research conducted in Wadi Siham, Yemen, in collaboration with the NGO TriangleGH. This research contributes to both the unravelling the various components of the wadi s water management and the enriching of the scant body of knowledge on current organisational and operational practices in spate irrigation context after the introduction of controlled irrigation systems. Hence, this work sets out to trace changes in water control and access with a particular focus on the role that the recent

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irrigation interventions (1995-still in progress) played in this processes of change. Furthermore, it highlights constraints and opportunities of - and drafts recommendations for - a sustainable and more equitable water management.

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