

Flood Based Farming Systems In East Africa Spate Irrigation

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Flood Based Farming Systems In

Four main types of flood-based farming systems have been identified: Floodplain agriculture, which is the most common type of flood-based farming in sub-Saharan Africa, and where either receding or rising floodwaters provide water for crop cultivation. Spate irrigation, in which floodwater from mountain...

Six ways to increase productivity of flood-based farming ...

Flood-based farming systems (FBFS) are extensively used throughout Sub-Saharan Africa. Consisting of spate irrigation, flood recession and flood rise farming, inundation canals and depression agriculture, it is estimated that these farming systems cover close to 25 million hectares in this region alone.

The Promise of Flood-Based Farming Systems in Arid and ...

IWMI is coordinating a project to investigate flood-based farming systems in Myanmar, as part of an international program on Flood Based Farming Systems (FBFS) funded by the International Fund for Agricultural Development (IFAD). The project aims to enhance capacity of decision makers, extension officers and local communities to improve productivity... Continue reading

Project Overview - Supporting Flood-Based Farming Systems ...

Flood-based farming systems (FBFS) rely on seasonal floods that provide beneficial water and nutrients, but also pose many risks and uncertainties for agricultural production. FBFS are extensive in East Africa, particularly in Kenya and Ethiopia,

Modelling Risk and Uncertainty in Flood-based Farming ...

Flood based farming systems • Deep water rice (floating rice) grown under deep water conditions where typical rice varieties do not survive • Quick adaptation to flooding conditions (stem elongation at rates of up to 20-25 cm/day) • Environmentally friendly...

Characterizing flood based farming systems in the ...

Level of uncertainty related to floods, the hydraulic challenge of guiding flood flows, the heavy sediment loads, the exceptional nature of the water rights, or the management and maintenance needs. Publication: Design Guidelines on Flood-based Farming Systems - Status August, 2013: Funding secured from IFAD and DUPC

Design Guidelines for Flood-Based Farming Systems

Flood-based farming systems (FBFS) rely on seasonal floods that provide beneficial water and nutrients, but also pose many risks and uncertainties for agricultural production. FBFS are extensive in East Africa, particularly in Kenya and Ethiopia,...

Modelling Risk and Uncertainty in Flood-based Farming ...

Assessing potential locations for flood-based farming using satellite imagery: a case study of Afar region, Ethiopia Murali Krishna Gumma (a1) (a2) , Tilahun Amede (a1) , Mezegebu Getnet (a1) , Bhavani Pinjarla (a2) , Pranay Panjala (a2) , Gizachew Legesse (a1) , Gebeyaw Tilahun (a3) , Elisabeth Van den Akker (a4) , Wolf Berdel (a4) , Christina Keller (a4) , Moses Siambi (a1) and Anthony M. Whitbread (a5) ...

Assessing potential locations for flood-based farming ...

Flood-based farming systems accounts for over 30 and 15 million hectares across the world and Sub-Saharan Africa respectively. It also supports around 75 million most vulnerable segments of society across the world. Flood based farming practices is found in the Middle East, North Africa, West Asia, East Africa and parts of Latin America.

Potential Bright Spots for Flood-based Farming Systems in ...

This book is mainly based on the extensive field research conducted in a number of flood- based farming systems in the arid lowlands of Ethiopia. The field research was carried-out in the last quarter of 2012 by a multidisciplinary and multinational team of young and senior water professionals.

Flood-Based Farming for Livelihoods in Ethiopia Lowlands

Flood based farming systems in Africa. 22 On the other hand dambos are of great potential for small-scale agriculture with high fertility properties compared to surrounding interfluves. Dry season cultivation of vegetables and maize in small garden plots have been reported in Malawi18 (Russel 1971).

spate-irrigation.org

The current floods in the Midwest have delayed the planting of many crops, and may also impact the types of crops that can be planted. These types of storms and flood events are projected to ...

Floods, Droughts and Agriculture | NRDC

Flood-based farming is among the potential options in ensuring access to water for crop and livestock production for small-scale farmers in the arid and semiarid lowlands of sub-Saharan Africa, and Ethiopia in particular.

Constraints to the Development, Operation and Maintenance ...

Flood-based farming systems (FBFS) are the only option to transform such seasonal floods from forces of destruction to sources of livelihood for the most vulnerable ASAL

Integrated Watershed Management and Flood-based Farming ...

FLOOD-BASED FARMING; Flood-based farming involves dams and harvesting and diverting floodwater. Image: COURTESY: Turkana county government will use flood-based farming for crop production and make ...

Flood-based farming system to curb Turkana hunger

in particular and flood-based farming in general constitute the process of utilizing excess runoff (floods) in areas where no other options are possible (Mehari et al. 2005a). In Tigray,

Spate Irrigation in Tigray: The Challenges and Suggested ...

Flood-based farming is a means of improving crop production in rain-deficit lowlands. Such spate irrigation systems are growing in importance, although the effects of headwater hydrological deficit on downstream flood farming are lacking evidence.

IMPACT OF HEADWATER HYDROLOGICAL DEFICIT ON THE DOWNSTREAM ...

OVER COMING DRY SPELLS WITH FLOOD BASED FARMING SYSTEMS Field Day and Farmer Exchange Visit on Rainwater Harvesting and Flood Based Farming Systems Flood Based Livelihood Network – Malawi Chapter Rainwater Harvesting Association of Malawi Ministry of Agriculture, Irrigation and Water Development JANUARY 2018

OVER COMING DRY SPELLS WITH FLOOD BASED FARMING SYSTEMS

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