

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... Spate irrigation, in which floodwater from mountain catchments is diverted from normally dry riverbeds and ...

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 ...

IWM 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 and identify the full benefits of flood-based farming systems (FBFS).

Supporting Flood-Based Farming Systems (FBFS) in the ...

Flood recession farming is a form of flood-based agriculture (Table 2.1). Flood- based agriculture can also include spate irrigation or other water management systems that guides or stores water for irrigation. Flood recession agriculture uses the residual moisture of seasonally flooded lands when the floods recede.

Flood Recession Farming: An Overview and Case Study from ...

Flood-based farming is a means of improving crop production in rain-deficit lowlands. Such spate irrigation systems grow in importance; though effects of headwater hydrological deficit on downstream flood-farming are lacking evidence. This study investigates the impacts of

IMPACT OF HEADWATER HYDROLOGICAL DEFICIT ON THE DOWNSTREAM ...

These floods are often unpredictable and can be destructive, if not managed properly, leading to eroded and degraded river valleys, loss in arable and pasture land, and depletion of soils. C Flood-based farming systems (FBFS) are the only option to transform such seasonal floods from forces of destruction to

Integrated Watershed Management and Flood-based Farming ...

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. Flood-based irrigation while inexpensive is rooted in

Flood-based Farming for Food Security and

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 ...

In the North of Ethiopia flood based farming is practiced on the shores of Lake Tana as well as along some of the tributaries feeding the Lake. Approximately 15000 ha is affected by annual flooding. Since the installation of the Chara-Chara areas adjacent to the flooded fields.

Flood Based Farming Practices in Ethiopia: Status and ...

based farming system in seasonal deep waterlogged areas 6.2 Volume of harvested water in different ponds 6.3 Growing of rice after receding flood water 6.4 Growing of extra early rice variety for contingency planning 6.5 On-farm trials of vegetable crops during rabi season 6.6 Enhancing water productivity through pond based farming system

Deep Water Rice and Pond Based Farming System for ...

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

Turkana county government will use flood-based farming for crop production and make good use of floodwaters. The county has faced floods, drought and hunger for many years. Deputy Governor Peter...

Flood-based farming system to curb Turkana hunger

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 ...

Presented by Lisa-Maria Rebele at Asia Water Forum, Manila, Philippines International Water Management Institute(IWM) October 4, 2018

Characterizing flood based farming systems in the ...

In Tigray, particularly in the Raya Valley, there is a potential of 80,000 ha of land to be irrigated by flood-farming by the total runoff of about 170 Mm3yr-1generated from the highland catchments (Eyasu et al. 2012).

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

Early State of Flood-based Farming Systems in Myanmar. Like; Share; Report; Prev; Next: 1432 views. Created on 29 August 2017 . 3393 likes. Related Bunds in Pakistan (Media / Bunds in Pakistan)

Early State of Flood-based Farming Systems in Myanmar

Flood-based farming is a means of improving crop production in rain-de ficit lowlands. Such spate irrigation systems are grow- ing in importance, although the effects of headwater hydrological de...

(PDF) Impact of headwater hydrological deficit on the ...

The Farming Systems Trial is located on 12 acres at our main campus in Kutztown, Pennsylvania. It is divided into 3 overarching systems: organic manure, organic legume, and conventional. Each system is further divided into two: tillage and no-till, for a total of 6 systems. There are a total of 72 experimental plots.

Farming Systems Trial - Rodale Institute

Flood Based Livelihood Network - Myanmar. 135 likes. A network of scientists, practitioners, policymakers, and farmers exchanging knowledge on flood-based livelihood systems (FBLS), contributing to...