

Flood Based Farming Systems In East Africa Spate Irrigation

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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 system has been considered as a multi – purpose solutions for flood plain preservation, protection and restoration. However, due to the complexity of social – ecological systems of the flood plain areas such as water modification (dikes), social – economic development (e.g. agricultural intensification focusing on multiple rice cropping systems) in the upper Mekong delta, so implementing the flood-based farming system is challenging, which requires an action ...

~~Flood-based farming systems for enhancing livelihood ...~~

Flood-based farming systems (FBFS) are rainfed farming systems that occur in dryland areas and rely on supplementary water derived from various types of floods. Herein, floods are understood in terms of natural variability such as the rise of water in reservoirs (e.g., rivers, lakes, or dry wadis) during the periods of high water [1, 2].

~~Mapping Flood-Based Farming Systems with Bayesian Networks~~

Flood-based farming is an important form of agricultural production employed in regions with seasonal water surplus, which can be harvested and used to irrigate crops. Geographic settings for FBFS vary widely in terms of hydrology, vegetation, and local practices of agronomic flooding.

~~Mapping Flood-Based Farming Systems with Bayesian Networks~~

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~~

Many actors in agricultural research, development, and policy arenas require accurate information on the spatial extents of cropping and farming practices. While remote sensing provides ways for obtaining such information, it is often difficult to distinguish between different types of agricultural practices or identify particular farming systems.

~~Mapping Flood-Based Farming Systems with Bayesian Networks ...~~

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 ...~~

Flood-based farming systems (spate irrigation, flood recession and inundation, flood-spreading weirs) account for over 30 million hectares across the world. They represent a unique option for the management of scarce water resources in support of agricultural production and livelihoods of marginalized populations in many arid regions.

~~Flood-Based Farming for Livelihoods in Ethiopia Lowlands~~

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 ...~~

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 ...~~

In an attempt to convert water from storm generated floods into productive use, this study proposes a methodology using remote sensing

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data and geographical information system tools to identify potential sites where flood spreading weirs may be installed and farming systems developed which produce food and fodder for poor rural communities.

~~Assessing potential locations for flood-based farming...~~

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6. Other flood based farming systems; Inundation canals and dug outs 7. Overview of livelihood systems 237.1 Adapted crop agronomy 7.2 Pastoralism in floodplains 7.3 Other floodplain resources, timber 25 and non-timber products 8. Fishing and Aquaculture in floodplains 8.1 27 Riverine and floodplain fishing 288.2 Fingerponds 9.

~~Flood based farming systems in Africa~~

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The training and this Manual were financed by the European Union through IFAD under the Testing Flood-Based Farming Systems Project (FBFS), and the CGIAR Water, Land and Ecosystems Research Program, both managed by IWMI. The training and this Manual are intended to provide a foundation to enable the DoA use basic geo-spatial data collection and analysis in future land use planning initiatives, that underpin the implementation of the current Agriculture Development Strategy, and the ...

~~Introduction to QGIS and Kobotoolbox for Mapping Flood...~~

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...~~

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