



In a recent report on the humanitarian situation in West and Central Africa Region Weekly, the UN Office for the Coordination of Humanitarian Affairs (OCHA) said that 302,000 people in 10 Local Government Areas have been affected by flooding in the Nigerian state of Adamawa since 30 August 2015.

For the pre and post-flood impact analysis, three satellite images from Sentinel-1 was used. The following images were preprocessed including 15 July 2015, 13 and 25 September, 2015. Images were layerstacked to identify areas that are still inundated and receded for decision making process.

Red areas determines standing water between Sept 13 - 25 and areas either in dark blue or black are permanent since July 15. In total an area of 2,912 sq.km were inundated as viewed by Sentinel-1 satellite images taken on 25 September 2015. Agriculture extent was analysed using Global MERIS Land Cover Product. Approximately 1123sq.km of Agricultural fields were flooded. The impact of flooding on agriculture in divisions are Niger (795 sq.km), Sokoto (210 sq.km) and Kebbi (50 sq.km).

Before Flood

:15 July 2015

During Flood

:13 and 25 Sep 2015

Satellite Image

: SENTINEL-1

Flood Duration

13 September 2015

13 and 25 September 2015

Combined Image (Before Flood 13 July, 09 and 25 Sept 2015)

State Map

Road

Cities/Town

Map Prepared by:

Data Provided by:

Supported by:

IWMI

International Water Management Institute

esa

European Space Agency

FMARD

Federal Ministry of Agriculture

CGIAR

Consultative Group for International Agricultural Research

RESEARCH PROGRAM ON Water, Land and Ecosystems

The analysis excluded permanent water bodies including reservoir, tanks and ponds and this reflects only the inundation extent. Please note the surface water extent mapped has not yet been validated in the field.

The depiction and use of boundaries, geographic names and related data shown in these maps are based on the sources they have been drawn from and quoted. These are neither error-free nor do they imply official endorsement or the position of IWMI.

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Kilometers

