



# Initial Rapid Needs Assessment On flood Disaster in Twic East County, Jonglei State

July, 2019



## Situation Overview

Former Twic East County of Jonglei state composed of five Payams: Ajuong, Kongor, Lith, Nyuak, and Pakeer. According to the Fifth Population and Housing Census conducted in April 2008, Twic East County had a combined population of 8,5349 people, composed of 4,4039 males and 4,1310 female residents with 14326 Household (HHs)

In the month of June 2019, there was a flooding in the former Twic East County which has affected all the five Payams. Nyuak, Kongor and Lith Payams were highly affected while Pakeer and Ajuong Payam were partly flooded. The flooding was caused by erratic and heavy rainfall which happened in the month of June 2019. For the last three years, there has been heavy rainfall that causes flooding. The natural land scape of Twic East does not allow free water movement to downstream and the water accumulation has increased in villages, especially in agricultural and grazing/pasture land.

As rainy season is currently on its peak, flooding is expected to increase which might aggravate the situation before impact of the current flood is tackled and water level goes down. In addition, the rain condition in upper basin of Nile (from Central equatorial and Uganda) is expected to increase the river water level and water level in swampy area (Sudd part of Twic East), which will in turn causes breakage of primary dyke (which has already some weak points) and add more crises in the county.

With the knowledge and support of the United Nations Office for Coordination of Humanitarian Affairs (OCHA), and close engagement with South Sudan Relief and Rehabilitation Commission (RRC), humanitarian partners in Twic East conducted a one day joint assessment on the 11<sup>th</sup> July 2019 across several locations in the former Twic East County to assess the health, nutrition, education, protection and food security and livelihoods needs of the populations affected by the flooding in various locations in former Twic East County, with a particular concern for vulnerable groups including women, children and people with specific needs, and consideration to existing resources and capacities for response.

The following were the specific objectives:

- To understand the cause of flood in Kongor, Nyuak, Lith, Ajuong and Pakeer Payam of Twic East
- To understand and find out the humanitarian needs of affected population

### Map



Twic East County

### Affected population:

1547 HHS, total of 8722 people has been affected. Refer Annex 1 for details.

### Displaced population:

Over 1000 HHS have been displaced.)

### Key Priorities

- Urgent seed vegetable seeds supply for fresh food production
- Livestock disease surveillance and treatment
- Food Assistance
- Hygiene and Sanitation Intervention
- Awareness on cholera
- Mosquito nets and malaria drugs supply
- Improve inpatient rooms at health care centers
- Drugs supply to health care centers
- Protection awareness and mainstreaming
- School toilet building
- Emergency shelter item supply
- Support shelter (Tukul) renovations
- Renovation of primary and secondary dyke

## Humanitarian Access

- *The roads in all Twic East are so poor and highly affected by flood. Except the road the area is accessible for any humanitarian agency*

## Findings

### *Food Security and Livelihoods (FSL)*

- *There was a damage of planted farm plots in Nyuak, Kongor and Lith Payams. It is estimated that over 45% of planted crops were damaged.*
- *The flood destroyed remnant crops affected by pests*
- *There is also death of animal due to flood*
- *Animal body conditions (health) is so poor and weak, there is an expected animal disease outbreak, especially there are fears of goats and sheep disease outbreak.*
- *Reduction of milk production beyond expected level in rainy season*
- *The resilience of the farming population is deteriorating, this is seen in the frequent loss of crops, livestock and houses, and exhausted farming population ability to cope with the flood*



Pic1: Farm plots affected by Flood in Nyuak and Kongor Payam



Pic 2: crop infected by pests (army worm) in Pakeer Payam

### Health and Nutrition

In terms of health and Nutrition there were common challenges in all Payams visited. The following were the key findings:

- There was a rise in the number of malaria cases. For example, in Nyuak PHCC out of 36 cases recorded in the last two days, 20 cases were treated of malaria cases. Out of this number 12 cases were confirmed on RDT to be positive malaria and 8 were treated clinically. This was confirmed by PHCC register. In Pakeer Payam there were 376 malaria cases reported in the last 7 days (from assessment date), among these 172 were adults and 204 children.
- There were cases of water diarrhea. For example, in Nyuak PHCC, three cases of watery diarrhea and 6 cases of RTI were confirmed in the registers. In Pakeer Payam, 98 children were reported to be suffering from watery diarrhea cases in the last 7 days (from assessment date). In addition, one woman died of malaria case on 10th July 2019 in Ajuong Payam.
- In Pakeer and Ajuong Payams in particular and in Twic East in general, there were insufficient drugs in the facilities; in Pakeer and Ajuong last supply of drugs was on Feb 2019 of which they are lacking some medicines like anti malaria tab, antibiotics, quinine injection etc.
- The community is complaining of mosquito nets of which they said the distribution of mosquito nets was once done by the PSI in 2016 and these nets are now old so majority of them do not use mosquito nets which causes rise in the malaria cases.
- In June, one delivery complication which lead to the death of both mother and the child occurred in Ajuong Payam.
- Inpatients room {ward} was destroyed by the heavy rain and the wind of which there is no space for the admission of the patient in Ajuong Payam
- No referral of complicated cases to the main county hospital due to the poor roads caused by the floods
- TSFP AND OTP programmes are being implemented in two Health facilities visited in Kongor and Nyuak. The assessment team observed that the nutrition situation is likely to change because some families have been displaced to other areas and temporarily settling with their relatives; and currently they share household facilities such as bed rooms, latrines among others, and as a result the unhygienic condition may rise and the malaria and diarrhea cases may continue if intervention is not taken quickly.
- Towards end of lean season always, a drop in the malnutrition cases for under-five years' population is witnessed due to improvement in food security however, with the trend of the flood, the normal trend may be affected. There will be a rise in the number of cases of malnutrition in the under five years' children. There will also be a potential rise in the number of the PLW (Pregnant and Lactating Women) with cases of malnutrition among the affected population. These groups of people are



Pic 3: A patient admitted with malaria case in Ajuong Payam



Pic 4: Maar PHCC at Pakeer Payam

*always susceptible to high chances of getting malaria because of their immunity condition.*

*NFI & ES*

- *Heavy rainfall has caused much destructions and displacement of families in great Twic East, ranging from burning of houses by lightning strikes which took away lives of three Adults, and 12 goats in Ajuong. Two children were drawn in water as results of flood in Ajuong, and high death of livestock, as well as outbreak of diseases such as malaria and diarrhea.*
- *Over 1000 house affected by flood, filled with water and owners of these houses forced to move to relatives and neighbors. Hence this caused overcrowding of people in shelters in some homes which will lead to lack of privacies for Women and girls,*



*Pic 5: House surrounded by Flood in Ajuong Payam*



*Pic 6: House burnt by lightening in Nyuak Payam,*



*Pic 7: Collapsed HH due to flood in Nyuak Payam*

## WASH

WASH situation in the assessed Payams is at critical condition, the assessment found out the following key concerns

- There were over 10 diarrhea cases reported in Nyuak and Kongor Payams
- Significant number of school pit latrines collapsed. For example, in Ajuong Payam, three school latrines collapsed, and in Nyuak two school pit latrines collapsed. In addition, the schools were occupied by flood. This will have big consequence for possible diseases our break due to unhygienic environment which is providing mosquito breeding ground.
- Quite numbers of boreholes were flooded. For example, in Nyuak Payam, there were 35 functional Boreholes (hand pumps) flooded, and in Kongor over 20 Boreholes also flooded. This will likely bring disease due to the poor sanitation and hygiene caused by the by the flood.
- In some Payams like Nyuak, number of households in some isolated villages using pond water for drinking and cooking were flooded, this will likely cause disease outbreak.



Pic 8: Collapsed HH pit latrine in Nyuak Payam



Pic 9: Flooded hand pump in Nyuak Payam



Pic 8: Collapsed pit latrine in Ajuong Payam

**Protection**

- As a results of flood, there is risk associated with movement and travel outside of the residential areas like of firewood collection, cultivations, hunting, fishing, where by children get drown
- According to responders, every outdoor activities is very risk and life threatening due to flood
- Community in Nyuak, Kongor and Lith Payam accesses WFP food aid from Panyagor, the local transportation is not available and it takes two full days footing to go and back while the area is flooded.
- Access to bathing facilities and toilets among others is a challenge for women and girls in situation of flood.
- Lack of sleeping materials like mosquito net, blankets, mats and cooking set , expose children and women for disease
- Collapsed HHs latrines and school latrines will expose children, and women for possible accident of falling in the pit, exposure to diseases and GBV incidences
- Some shelters were overcrowded in some homes due to displaced HHS , this will lead to lack of privacies for Women and girls



Pic 9: Flooded area in Kongor



Pic 10: Flooded Market area in Kongor

**Education**

- Twenty-two (22) schools affected by flood. The flooded schools include: Three schools in Pakeer Payam; Piol, Dhim-dhim and Pareu primary schools, Five schools in Ajuong Payam; Wunlir, Pagook, Paliau, Nyawai and Mayom primary schools, Eight schools in Nyuak Payam; Pathian, Baping, Matjak, Aborom, Aliet and Piombior primary schools, Four schools in Kongor Payam; Panyagor, Kiir Malei, Payom and Pamot primary schools and Two schools in Lith Payam; Kiir Akuch and Wernyol primary schools.
- Six classrooms collapsed in Pathian & Matjak Primary schools of Nyuak Payam
- Generally, in 22 schools, the attendance has reduced. Especially the attendance of learners in ECDs is low due to fear that children might drown on their way to school and vice versa.
- Significant number of school pit latrines collapsed. For example, in Ajuong Payams at three school (Paliau, Wutlir and Pagook schools) three latrines collapsed, in Nyuak Payams two school pit latrines collapsed
- There is high problem Sanitation and hygiene in affected schools



Pic 11: Panyagor Primary School Affected by Flood

**Logistics**

The road condition is very poor and access is highly affected.



Pic 12: road from Panyagor to Pakeer

**Flood Risk Reduction**

- There is expected rise in Nile water level and the swampy area , that need attention for renovation of primary dyke
- Secondary Dyke breakage in many spots



Pic 13: A little boy stands in front of their house protected with little dyke in Pamot Village of Kongor Payam

**Next Steps**

**Proposed Initial response**

Cluster	Priority actions	Human and material resources required	Responsible Entity	By when
FSL	Plan for food assistant in any form from the month of September 2019, due to expected poor harvested expected later			From September 2019
	Provision of veterinary support, drug and empowerment of Community Animal Health Work System (CAHWS).			From 20 <sup>th</sup> July up to end of September 2019
	Provision of vegetable seed for repeated planting with remaining months of rainy season and for possible use of ponds to grow vegetable		LWF	From 20 <sup>th</sup> July up to end of September 2019
NFI & ES	Support on renovation of Tukuls			From 20 <sup>th</sup> July up to end of September 2019
	Provision of temporary emergency shelter building materials			From 20 <sup>th</sup> July up to end of September 2019

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<b>HEALTH AND NUTRITION</b>	Response to Malaria outbreak through providing enough supply of drugs, mosquito nets			From 20 <sup>th</sup> July up to end of August 2019
	Renovation of inpatient rooms			From 20 <sup>th</sup> July up to end of August 2019
	Drugs supply for PHCCs			From 20 <sup>th</sup> July up to end of August 2019
	Support to health workers			From 20 <sup>th</sup> July up to end of August 2019
<b>WASH</b>	Chlorination of affected boreholes			From 20 <sup>th</sup> July up to end of August 2019
	Cholera response especially awareness on key messages			From 20 <sup>th</sup> July up to end of August 2019
	Massive hygiene promotion	Community mobilizers	CRR	From 20 <sup>th</sup> July up to end of August 2019
	Distribution of aqua tabs			From 20 <sup>th</sup> July up to end of August 2019
	Construction of HH latrine on higher ground and good lining materials			From 20 <sup>th</sup> July up to end of August 2019
<b>Education</b>	Construction of temporary pit latrines in most affected schools especially Pagook and Mark Nickel	-iron sheet -poles -nails -timbers -cement	NRC and CRS	Aug-Oct 2019
	Decommission of collapsed latrines	-Wash Assistant - PTA/Community	NRC	Aug-Oct 2019
	Construction of TLS in most affected school especially Pathian primary School	Construction materials and personnel	NRC	Aug-Oct 2019
<b>PROTECTION</b>	Community awareness raising on protection to prevent protection incidents from happening in such Flooding affected area	Protection technical staff, community based structure	CARE, LWF	From 20 <sup>th</sup> July up to end of August 2019
	GBV case management and psychosocial support for individual GBV survivors in flood affected areas		CARE	From 20 <sup>th</sup> July up to end of August 2019
	Support of CMR kits provision to health centres in Twic East			From 20 <sup>th</sup> July up to end of August 2019
	Recreational psychosocial support activities for women and girls in WGFSS especially in Nyuak WGFSS			From 20 <sup>th</sup> July up to end of August 2019
	Aware Parents to drop and pick/accompany their children to and from Schools during this time of flooding to			From 20 <sup>th</sup> July up to end of August 2019

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	avoid children drown in water.			
	Protection main streaming in there sectorial project by all partners in the county			From 20 <sup>th</sup> July up to end of August 2019
<b>LOGISTIC</b>	Road renovation for humanitarian access		Government	
<b>DRR</b>	Support renovation of primary and secondary dyke and Construction of water drainage	-Gunny bags & Tools	CARE and LWF will provide gunny bags; /CARE will engage communities through Participatory Rural Appraisals	From 20 <sup>th</sup> July up to end of August 2019

**Assessment information**

**Geographical areas visited**

The area of Assessment was Twic East County, Kongor, Nyuak , Pakeer, Ajuong and Lith Payams

- Kongor Payam : N07.092456 ,E031.1211390
- Nyuak Payam: N7.08682, E31.37952
- Pakeer Payam; N07'652'21.6, E31'22'43.8
- Ajuong Payam; Longitude: N07'657'31.7, E31'22'23.7
- Lith Payam:

**Type of key informants interviewed (male/female, boys/girls)**

The team have conducted Key informant interview with County Commissioners (note that all 5 Payams are counties with new administrative structures), Head government sector such as Agriculture, Education, Health, Women leader and Chiefs representative and Observation in both Fives Payam of Twic East Flood affected area as primary methodology of the assessment. In addition, 10 focus group discussion conducted in five Payams, two FGDs in each location. The field team made physical observation on flooded areas, such as houses, schools and health centers.

**Assessment Teams details**

A team of 16 individuals from eleven International and National NGOs, namely CARE International, Lutheran World Federation(LWF), Norwegian Refugee Counsel (NRC), Tearfund, CRS, Health link, CINA, C&D, MTT, Nile Hope, and CAS, have conducted an assessment.

**1.Field Team**

<b>S/N</b>	<b>Name</b>	<b>Organization</b>	<b>Position</b>
1.	Yaak Michael Kuer	CRS	Senior Livelihood Officer
2.	Matiop John Anyang	CRS	WASH Program Officer
3.	Chol Yak	LWF	Assistant FSL Officer
4.	Deng John	NRC	Education Project Officer
5.	Deng Kuch	NRC	Protection Officer
6.	Thon Abraham Alier	CARE	Gender & Protection Project Officer
7.	Adiit Wath	MTT	Assistant Officer
8.	John Mojok Kuereng	Tear Fund	Health and Nutrition Officer
9.	Aguer Bior	Tear Fund	WASH Project Officer
10.	John Marial Dau	CAS	Project Officer
11.	Biar Deng	CAS	Assistant Officer
12.	Gabriel Manyoun	Nile Hope	Education Officer
13.	Mabior William Deng	C&D	Assistant Officer
14.	Deng Lual	Health Link	Assistant Officer

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15.	<i>Yol Awan Yol</i>	<i>CINA</i>	<i>PSS Officer</i>
16.	<i>Mamuor Jacob Jok</i>	<i>CINA</i>	<i>Child Protection Case</i>

**2. Organizers:**

- 1) *Mawa Seme, CARE, Program Officer– Addressing Root Causes of Conflict (ARC)*
- 2) *Belachew Deneke, LWF, Area Coordinator*
- 3) *Rueben Maker, RRC, Coordinator Twic East*
- 4) *Deng John, RRC, Officer, Twic East*

**Annex 1: Affected Population**

S/n	Payam	Boma/village	Number of HHs	Individual
1	Nyuak	Aliet	89	442
		Alual	72	359
		Mat-Jaak	61	305
		Pongbongrong	49	249
		Wutkoro	76	379
		Baping	53	266
		Patoor	57	283
		Kuach-thoor	73	354
		<b>Sub total</b>		<b>530</b>
2	Lith	Wernyol	293	1758
		Dong	131	786
		<b>Sub total</b>	<b>424</b>	<b>2544</b>
3	Kongoor	Pawel	65	390
		Thananyier	37	221
		Piomawan	54	322
		Pakuor	47	283
		Mission	33	196
		pamote	43	255
		Agom	29	170
		Agerrot	31	188
		Piombior	54	325
		Panyagor	97	584
		<b>Sub total</b>		<b>490</b>
4	Pakeer	Patiou	25	150

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		Marial	12	72
		<b>Sub total</b>	<b>37</b>	<b>222</b>
5	Ajoung	Wutlir	8	32
		Makiir	25	155
		Ngawai	5	30
		Pagook	3	18
		Pawel/Mayom	25	150
		<b>Sub total</b>	<b>66</b>	<b>385</b>
<b>Total</b>			<b>1547</b>	<b>8722</b>