

Republic of South Sudan Ministry of Health



The 23rd International Review Meeting of Guinea Worm Eradication Program Managers

Atlanta – Georgia USA

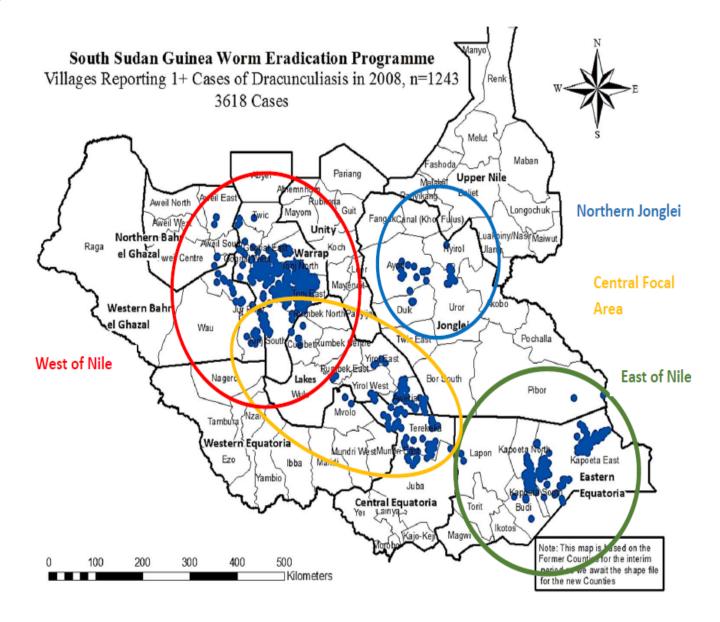
March 21st _ 22nd 2019

SECTION 1

Epidemiology

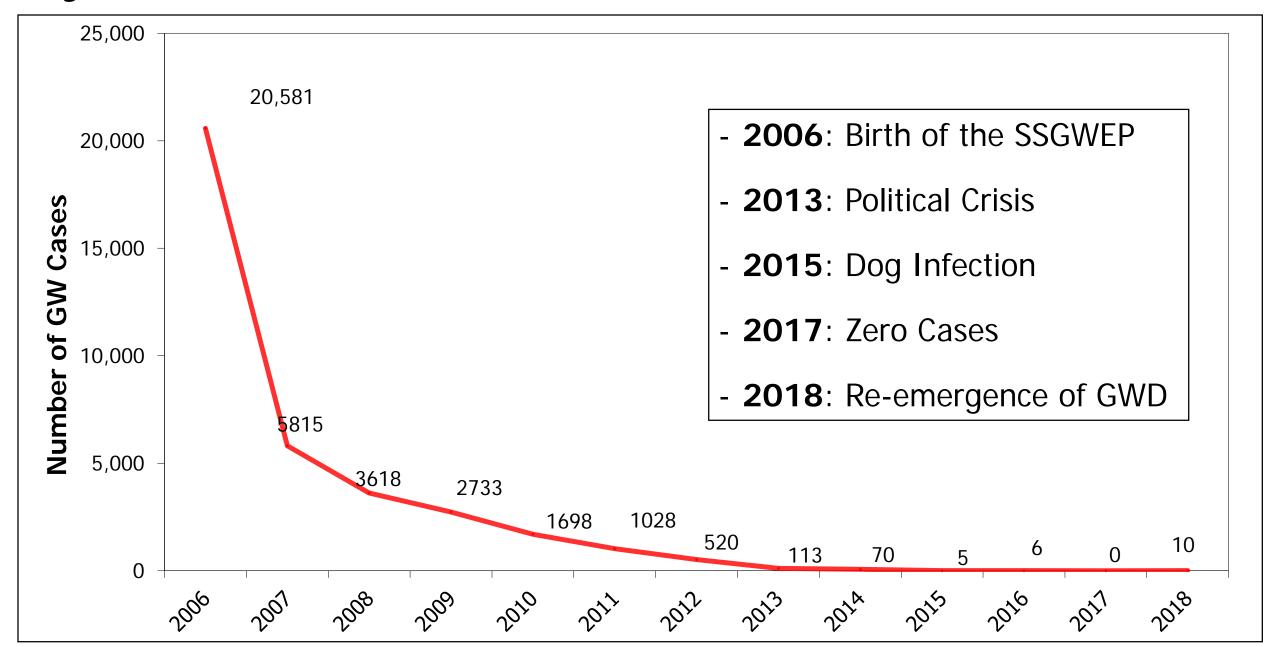
SSGWEP Background

- Historically, South Sudan has reported cases of Guinea worm in four focal areas:
 - 1. Central (Western & Central Equatoria, and Lakes States),
 - 2. East of Nile (former Eastern Equatoria and former Pibor County in former Jonglei State),
 - 3. Northern Jonglei and
 - 4. West of Nile (former Warrap, Northern Bahr el Ghazal, and Western Bahr el Ghazal).

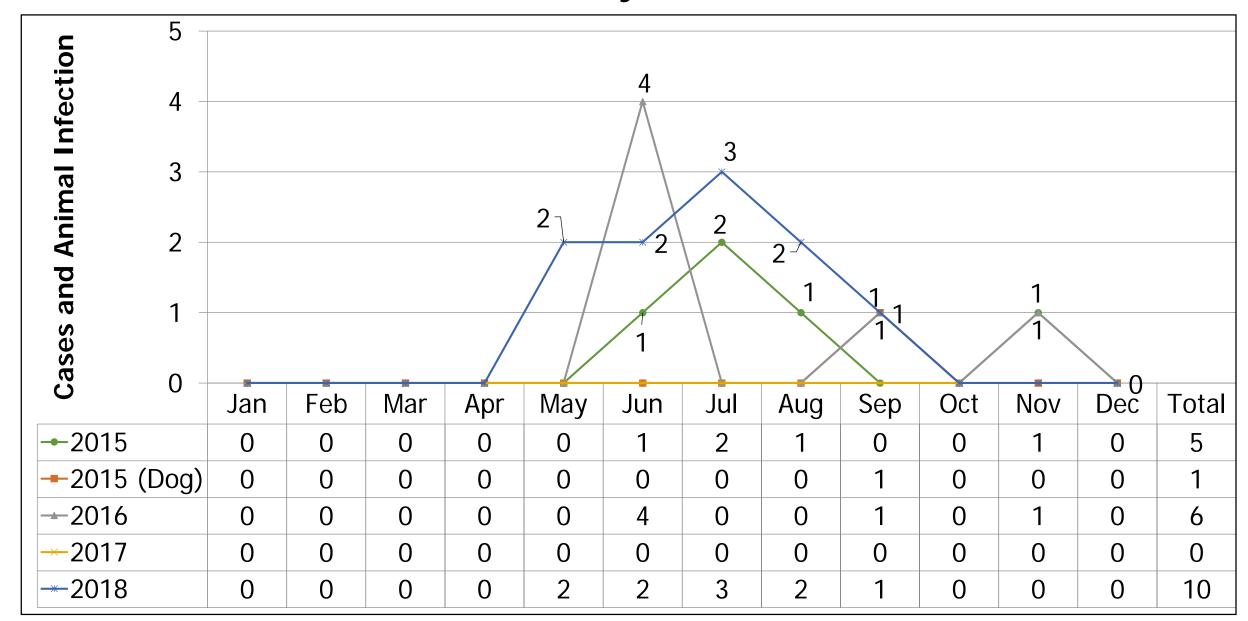


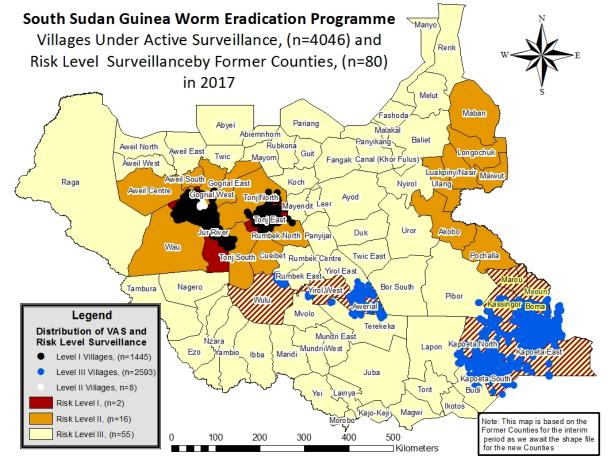
Due to transmission dynamics and migratory patterns, focal areas can overlap.

Key Milestones 2006 – 2018

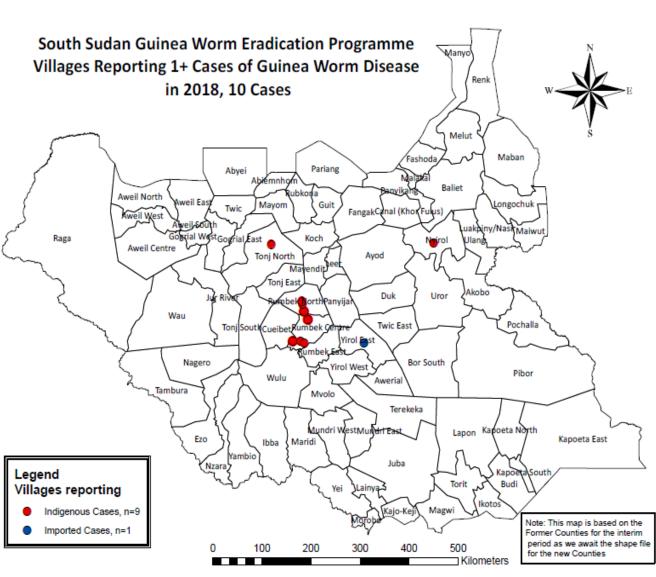


South Sudan Cases of Dracunculiasis and Animal Infection by Month 2015-2018

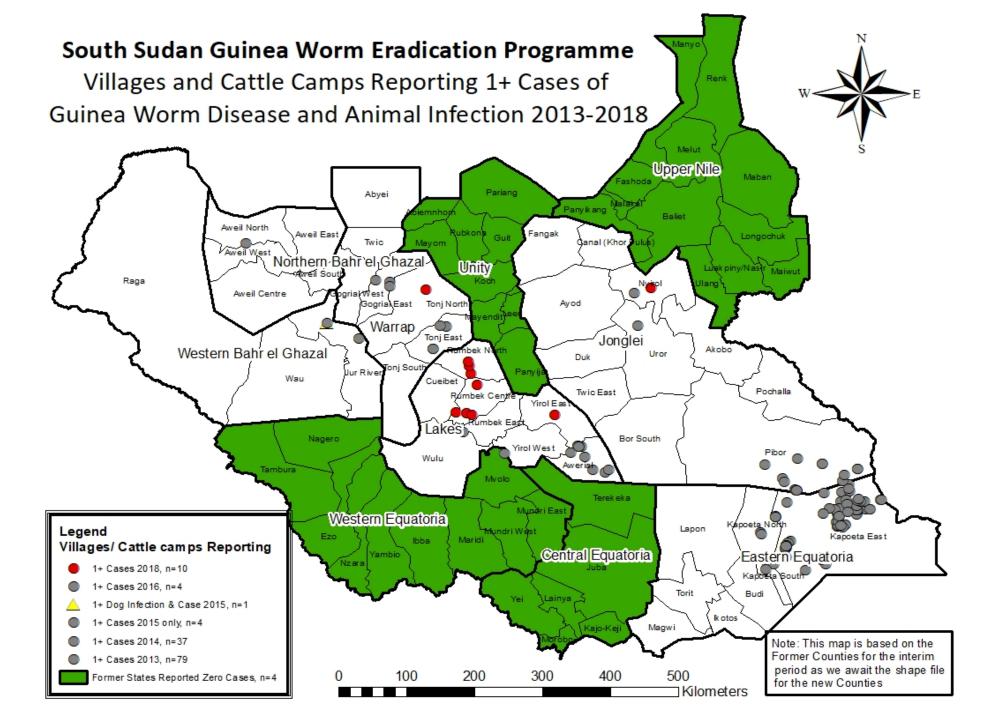


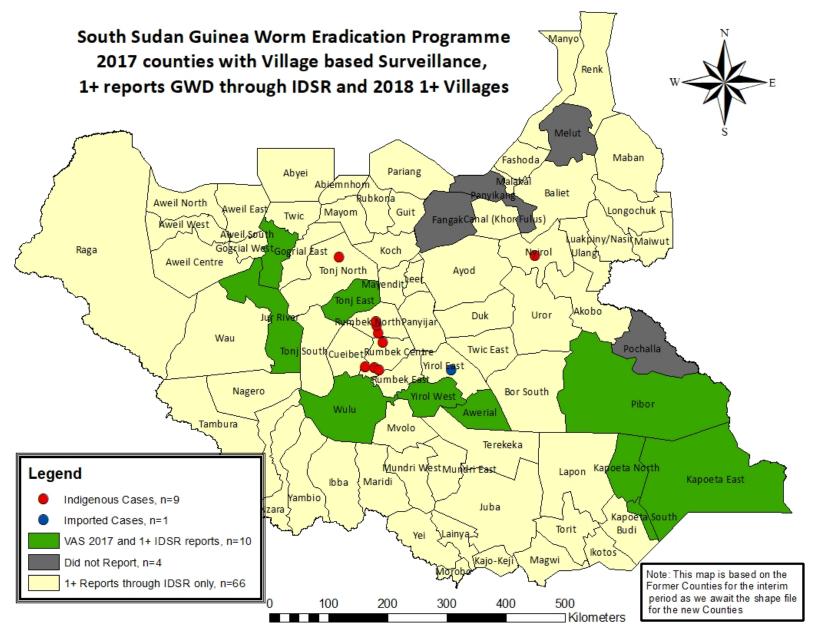


- In 2017, South Sudan reported zero cases of GWD.
- From May 2018, there was a resurgence of cases, overall 10 cases



2018 1+ villages in relation to 1+ villages from 2013 – 2016





2017 Numbers

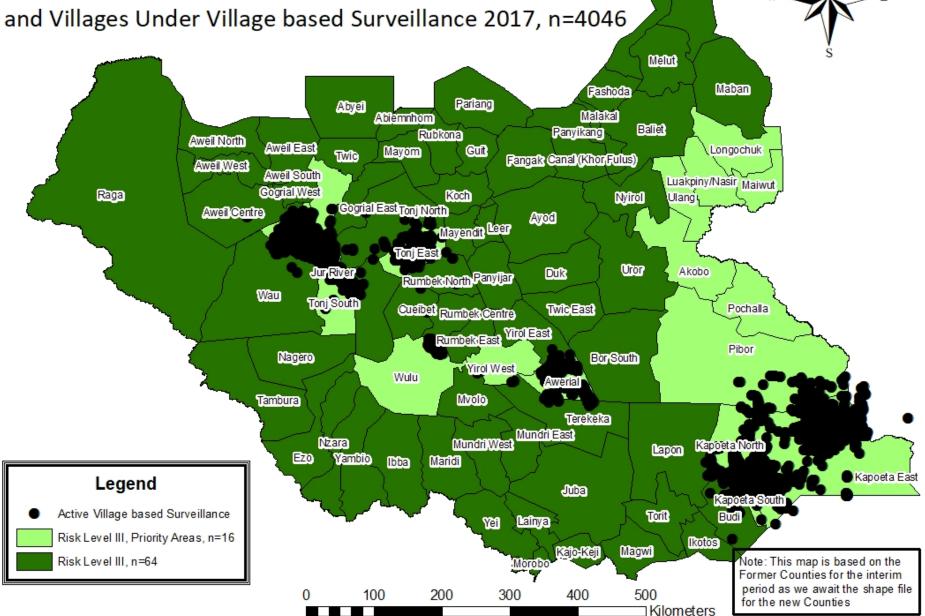
- No. of Rumors=25,188
- No. of Suspects=18,351
- Dog Rumors=7
- No. of IDSR GWD Alerts=93
- Specimens sent to CDC=**25**

SECTION 11

Surveillance

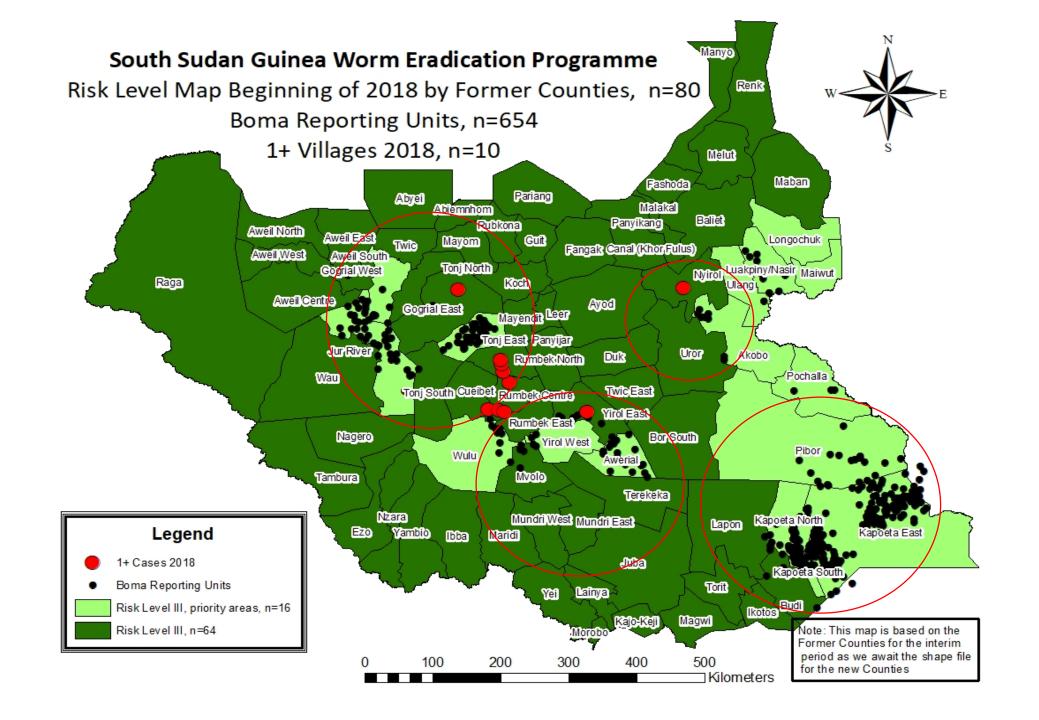
How did the Surveillance for Guinea Worm Disease look like in 2017 and 2018?

Manyo South Sudan Guinea Worm Eradication Programme Risk Level Map end of 2017 by Former Counties, n=80 Fashoda



Renk

Manyo **South Sudan Guinea Worm Eradication Programme** Renk Risk Level Map Beginning of 2018 by Former Counties, n=80 Boma Reporting Units, n=654 Melut Maban Fashoda Abyei Pariang Malakal Abiemnhom Ballet Panyikang Rubkona Aweil North Aweil East Mayom Guit Longochuk Twic Fangak Canal (Khor Fulus) Aweil West Aweil South Tonj North Luakpiny/Nasir Maiwut Gogrial West Raga Ulang Koch Aweil Centre Ayod Gogrial East Majendit Leer Tonj East Panyijar Jur River UM Akobo Fumbek North ΣΨk Wau Pochalla Tonf South Cueibet Ry bek Centre Twic East Yirol East Rumbek East Nagero Bor South Yirol West **Tambura** Myolo Terekeka Nzara Mundri West Mundri East Kapoeta North Lapon Ezo Yambio Ibba Mandi Legend Juba Boma Reporting Units Torit Lainya Yei (Rotos Budi Risk Level III, priority areas, n=16 Kajo-Keji Magwi Risk Level III, n=64 Note: This map is based on the Morobo Former Counties for the interim period as we await the shape file 200 300 400 500 for the new Counties ∃Kilometers



Parameter	Surveillance Level	South Sudan		
	I	5,248		
Number of rumors? reported	ll l	11,653		
Number of rumors reported		19,338		
	TOTAL	36,239		
		5,200 (99.1%)		
Number and (%) of rumors, investigated within 24 hours		11,540 (99.0%)		
Number, and (%) of rumors investigated within 24 hours	III	19,174 (99.2%)		
	TOTAL	35,914 (99.1%)		
		5,248 (100%)		
Number, and (%) of rumors with reports submitted to the National		16,653 (100%)		
Secretariat		19,338 (100%)		
	TOTAL	36,239 (100%)		
Number, and (%) of rumors investigated within 24 hours and				
determined to be GWD	111	10 (100%)		
	TOTAL	10 (100%)		
Number of suspects (rumors^) seen at a fixed reporting unit (IDSR)		2		
and reported to the surveillance system: number of units reporting		6		
	III	16		
rumors and (%) of total rumors	TOTAL	24		
	I	1,324 (74.9%)		
Cash reward awareness*: number of respondents surveyed, and (%)		370 (61.4%)		
aware	III	NR		
	TOTAL	1,694 (72.0%)		
		1,324 (12.8%)		
Cash reward awareness* for dogs: number of respondents surveyed,		370 (6.5%)		
and (%) aware	111	NR		
	TOTAL	1,694 (11.4%)		

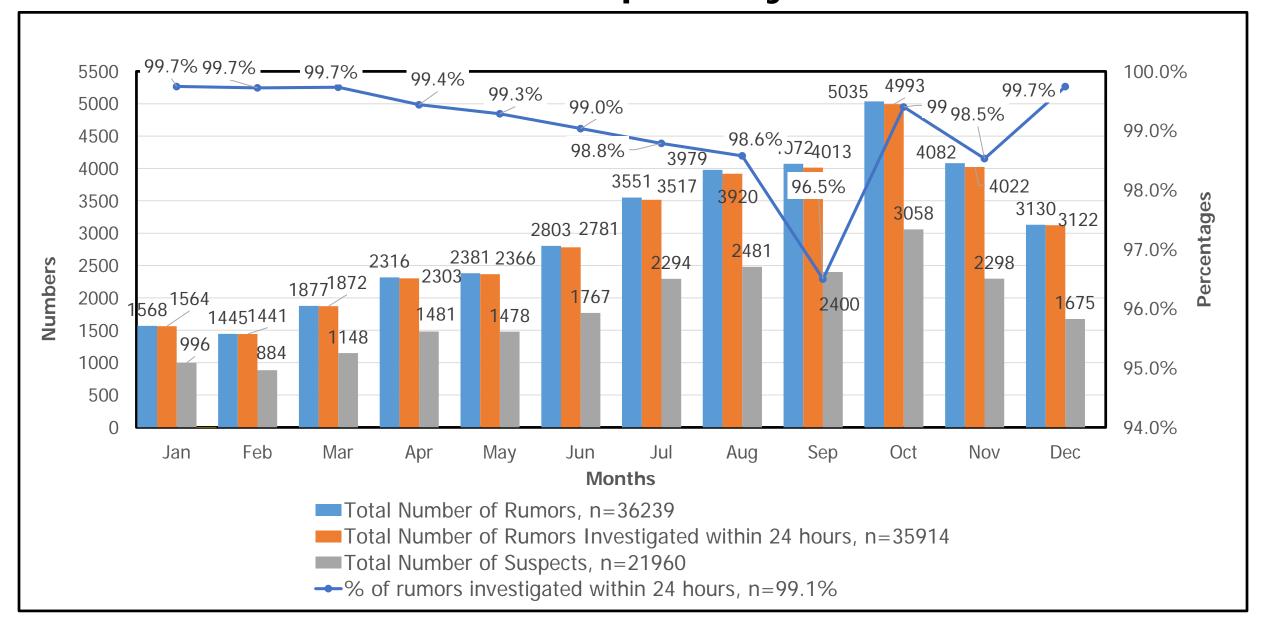
Surveillance and Cash Reward Awareness* Parameters in South Sudan 2018

36,239 Rumours Reported

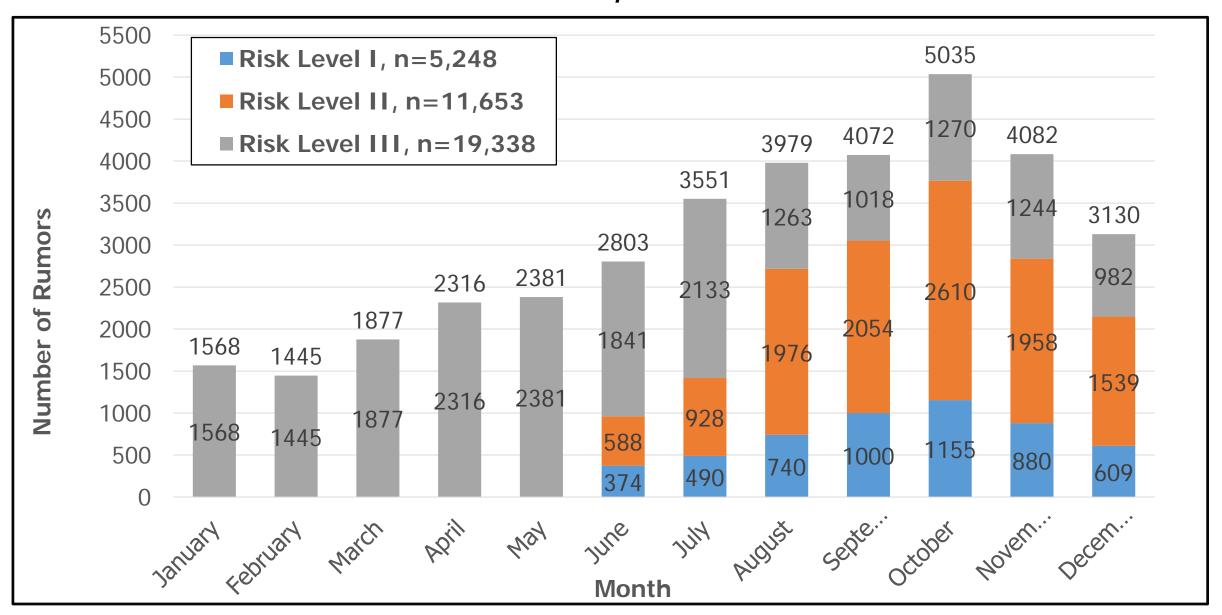
Cash Reward Awareness by County Reporting Less than 80% Awareness

	20	2018 Cash Reward Awareness							
County		Level 1	Level 2						
	# Respondents Surveyed	Number Aware (% Aware)	Number Aware (% Aware)						
Tonj North	722	521 (72.2%)	N/A						
Rumbek Centre	602	471 (78.2%)	N/A						
Yirol East	370	N/A	227 (61.4%)						
TOTAL	1,694	1,219 (72.0%)							

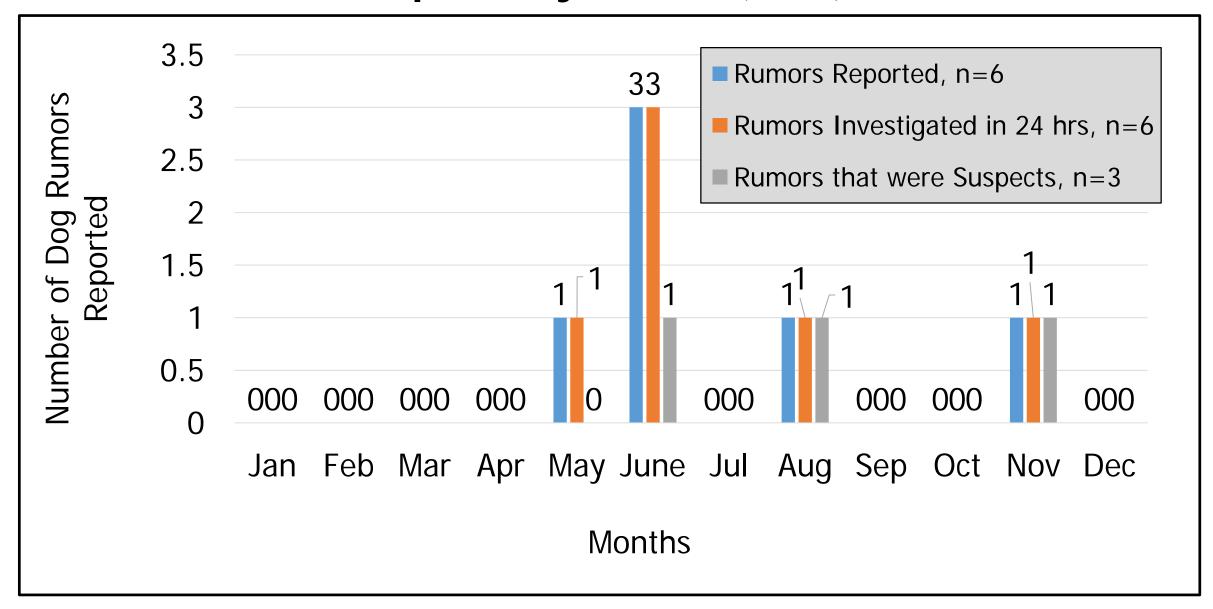
Total Number of Rumors Reported, Investigated within 24 hours and Suspects by Month



Number of Rumors Reported by Month by Surveillance Level N=36,239



Number of Dog Rumors Reported, Investigated in 24 hrs. and Suspects by Month (n=6) 2018



Number of Volunteers and a Breakdown by Male/ Female in 2017 and 2018

County	Supe	teers and Area rvisors)17	Grand Total	Village Voluntee Supervi 2018	Grand Total	
	Male	Female		Male	Female	
Gogrial West	17	0	17	15	0	15
Jur River	833	28	861	780	118	898
Yirol West	13	10	23	209	72	281
Awerial	222	179	401	245	183	428
Wulu	31	18	49	65	16	81
Kapoeta East	726	961	1687	873	974	1847
Kapoeta North	227	144	371	264	74	338
Kapoeta South	185	43	228	85	15	100
Pibor	8 0		8	6	3	9
Tonj East	745	580	1325	1145	170	1315
Rumbek North	0	0	0	368	151	519
Rumbek Centre	0	0	0	335	76	411
Cueibet	0	0	0	583	167	750
Rumbek East	0	0	0	73	39	112
Yirol East	0	0	0	431	71	502
Tonj North	0	0	0	789	75	864
Boarder Areas	0	0	0	788	0	788
Grand Total	3007	1963	4970	7034	2204	9238

Integrated Cash Reward Activities, including MDAs and Cash Reward events (May-March'19)



Timing	Reach
Oct Nov 2019	265,662
OCT-INOV ZOTO	980
Apr-Jul 2018	434,900
Aug 2018	11,061
May, Sept and Nov 2018	17,613
	730,216
	Oct-Nov 2018 Apr-Jul 2018 Aug 2018 May, Sept and

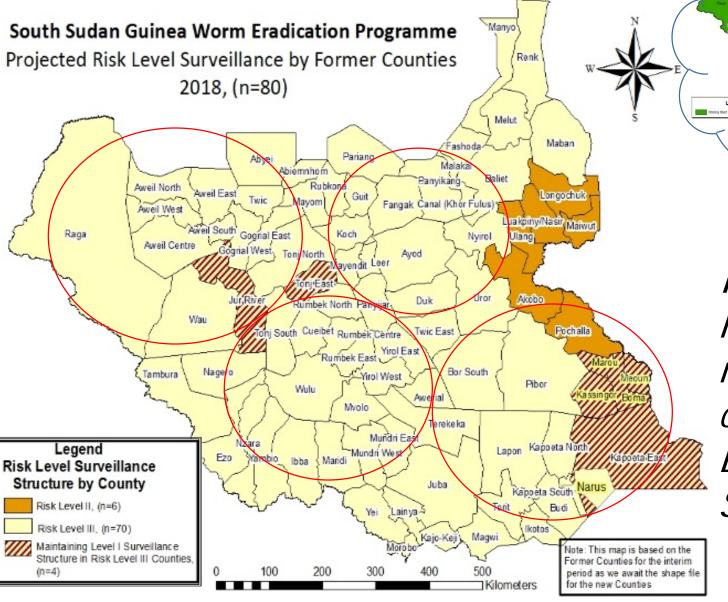


Surveillance Issues in 2017/2018

- 1. What is Unique about the current (2018) transmission dynamics?
- 2. Why were cases not detected previously in the current endemic areas?

At the End of 2017, We asked Ourselves these Questions:

Are we Missing cases in Areas affected by the Conflict? Or from the 4 focal Areas?

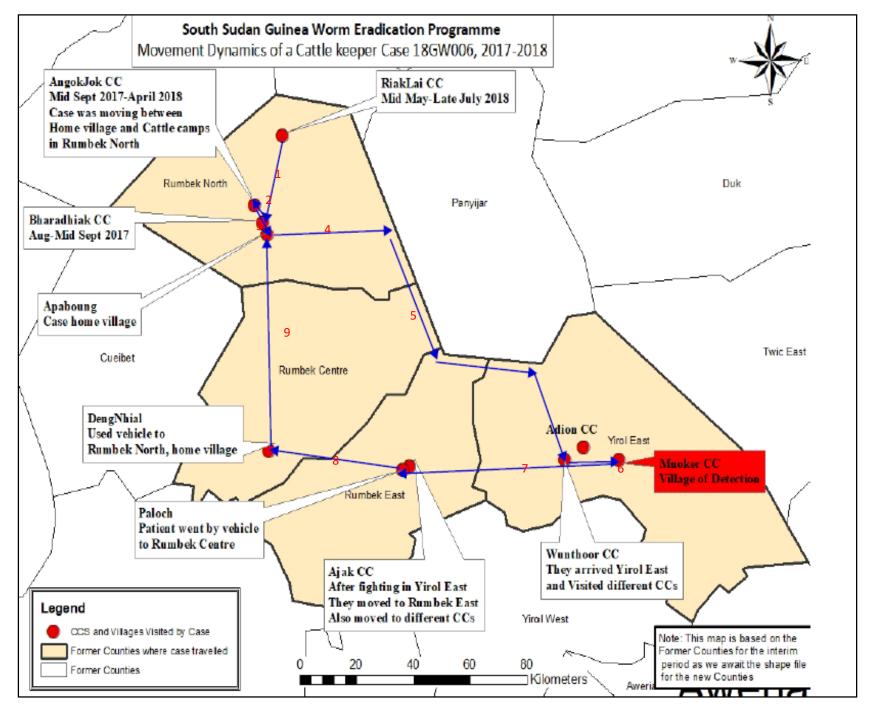


Is there a
High risk of
importation of
cases from
Ethiopia into
South Sudan?

Beporting 1+ Cases of Guinea Worm Disease in 2017, n=0

Migratory Pattern/ Cattle Camp Movements





2018 Case: Case 18GW006

Date of Detection: **7/25/2018**

Date worm emerged: **7/25/2018**

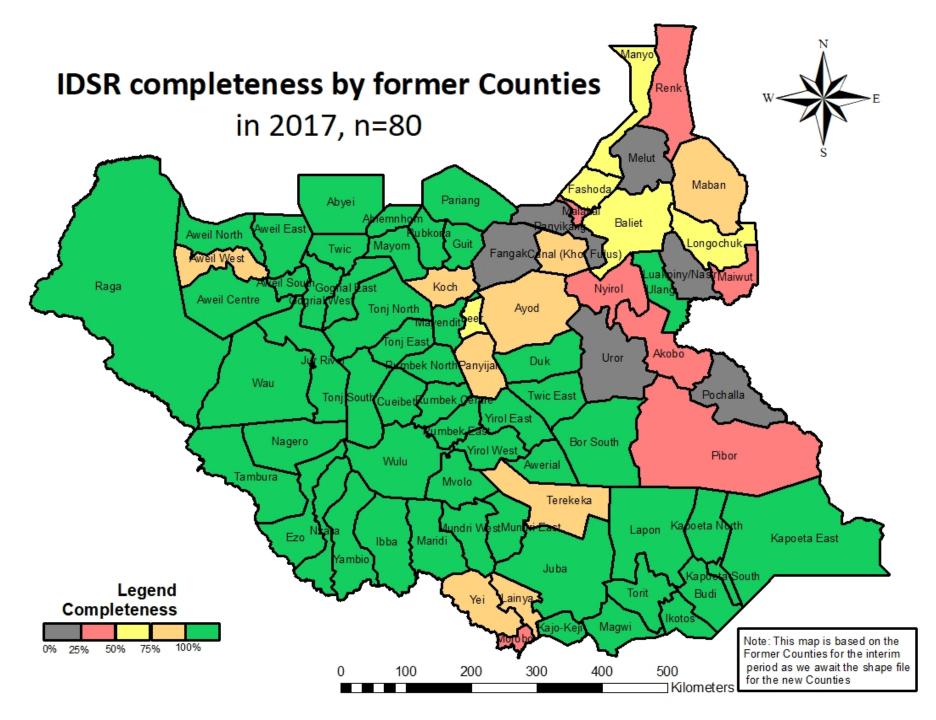
Place of Detection : Muoker Cattle Camp (Yirol East)

Home village : **Apabuong** (**Rumbek North**)

Number of Cattle Camp Visited During period of infection: >7 with repeated visits

Duration of Travel : > 4
Months

Poor surveillance in 2017 in Risk Level II and III areas not having Community-based surveillance structures.



SECTION 3

Interventions

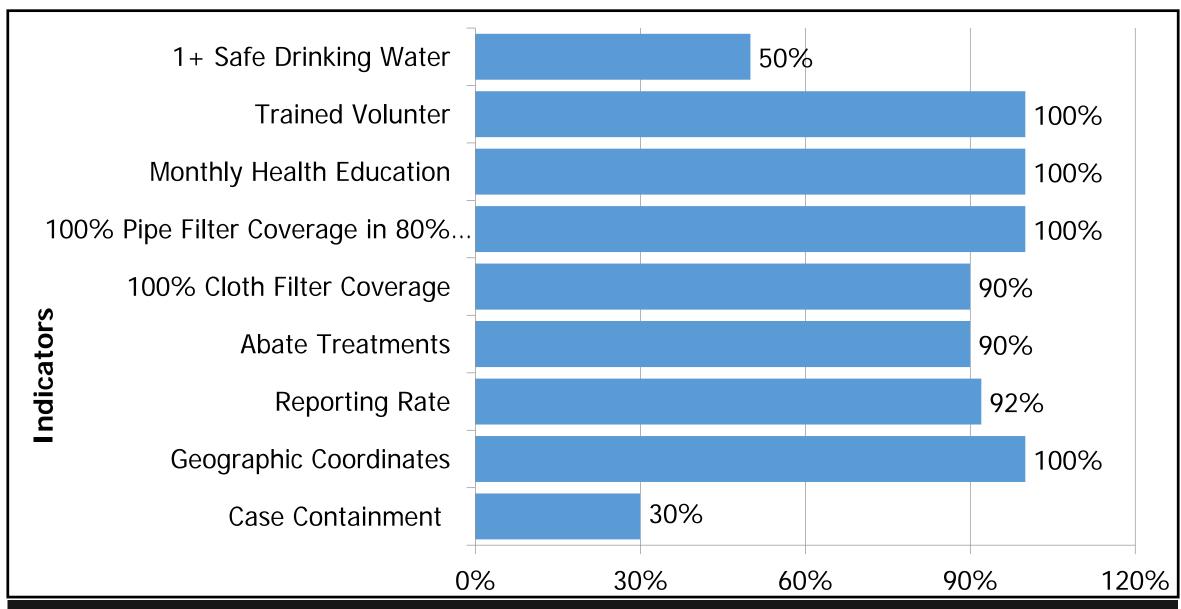
Number of Guinea Worms Contained (N=14) per Total Emerged (N=22) by Month

			May		ıne	J	uly	Au	ıgust	Septo	ember	Gran	d Total
State	County	No. of Worms Emerged	No. of Worms Contained										
Eastern Lakes	Yirol East	0	0	0	0	1	0	0	0	0	0	1	0
Eastern La	kes Total	0	0	0	0	1	0	0	0	0	0	1	0
Western Lakes	Rumbek Centre	2	0	2	2	2	1	2	2	1	1	9	6
	Rumbek North	0	0	3	1	3	3	0	0	0	0	6	4
Western La	akes Total	2	0	5	3	5	4	2	2	1	1	15	10
Tonj	Tonj North	0	0	0	0	2	1	3	3	0	0	5	4
Tonj Total		0	0	0	0	2	1	3	3	0	0	5	4
Nyirol	Nyirol	0	0	0	0	0	0	1	0	0	0	1	0
Eastern Bie	eh Total	0	0	0	0	0	0	1	0	0	0	1	0
Grand tota	ıl	2	0	5	3	8	5	6	5	1	1	22	14

Line Listing of Villages with Contamination Events in 2018

			Contami	(%) of contamination	
	Former	Former			events with abate
Village name	Payam	County	Date of contamination	Date abate started	application within 7 days
		Rumbek	Unknown (worm emerged	20/July/2018 (Water Sources Had	
War Makoi	Mayom	Centre	around Mid May)	dried up at the time of detection)	0%
		Rumbek	Between 27/May-28/ May		
Malek	Malek	Centre	2018	29/May/2018	100%
		Rumbek	Between 5/July-9/July when		
Cuei-adukan	Amonypiny	Centre	the thread appeared	11/July/2018	100%
	Mayen	Rumbek			
Anyanyom	(Meen)	North	Between June 1-June 2	7/June/2018	100%
		Rumbek			
Aliet	Malueth	North	Between June 6-June 7	7/June/2018	100%
Wundiu	Akop	Tonj North	13/ July/2018	19/July/2018	100%
Mouker Cattle			Detected with open wound on		
Camp	Malek	Yirol East	13.July.2018 as a rumor	6/August/2018	0%
·				Water source had dried at the	
Lankien	Thol	Nyirol	22/August/2018	time of detection- Pending	0%

Status of Interventions in 1+ Villages/ Cattle Camps in 2018, (n=10)



• Out of the 10 1+ villages, 1 is a cattle camp

Number of Guinea Worm Cash Rewards Given in 2018

		Total	Pending to	Patient Reward		Informer	Health Worker	
		Number of	be Paid:		•	10,000SSP		
State	County	Cases	Case	(\$330)	(\$165)	(\$66)	(\$66)	Grand Total
Eastern lakes	Yirol East	1	1	0	0	0	0	0.00 SSP
Eastern Lal	kes Total	1	1	0	0	0	0	0.00 SSP
	Rumbek							
	Centre	4	2	0	2	2	0	70,000 SSP
	Rumbek							
Western Lakes	North	3	0	1	2	3	0	130,000 SSP
Western La	kes Total	7	2	1	4	5	0	200, 000 SSP
Tonj	Tonj North	1	0	0	1	0	1	35,000 SSP
Tonj To	otal	1	0	0	1	0	1	35,000 SSP
Bieh	Nyirol	1	0	0	1	1	0	35,000 SSP
Bieh T	Bieh Total		0	0		1	0	35,000 SSP
								270,000 SSP
Grand ¹	Total	10	3	1	6	6	1	(\$1777)

Patient Reward





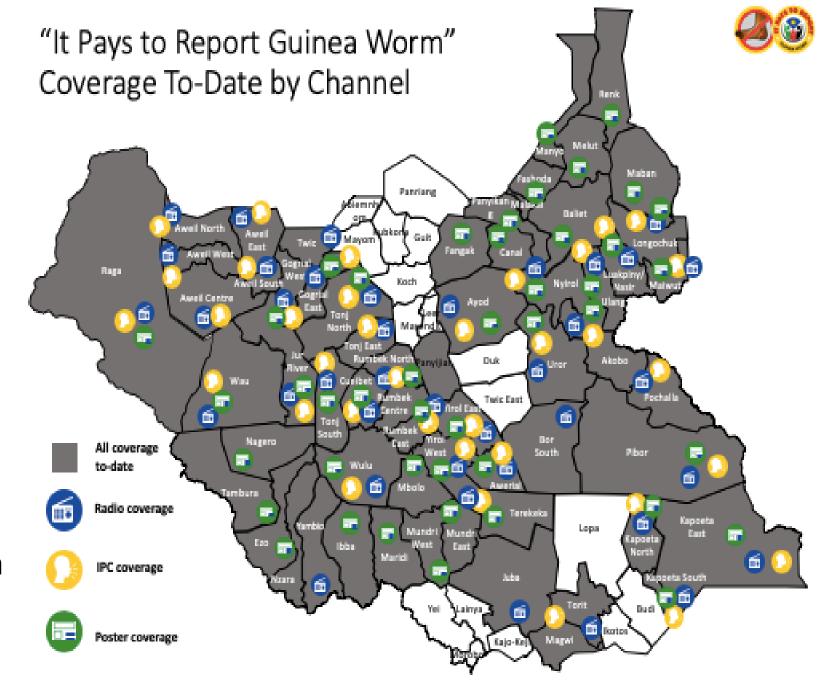


Informer Reward



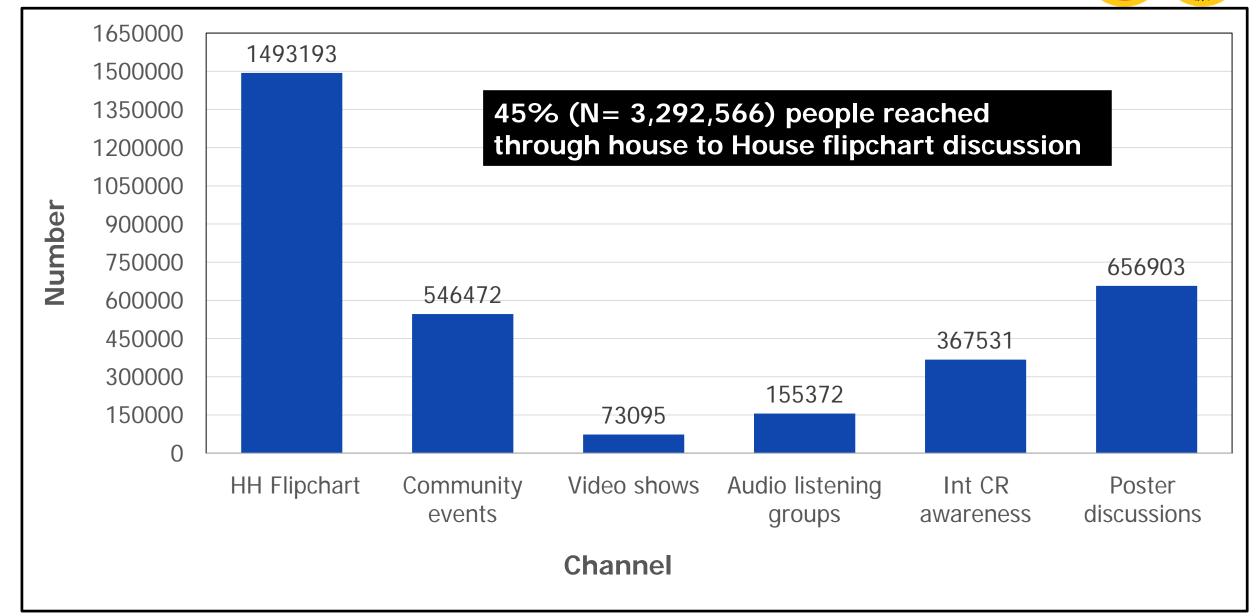


- 7/10 former states through radio broadcast
- 63/80 former counties reached
- 3,292,566 through CR community engagement
- 1,212,738 through CR/MDA integration

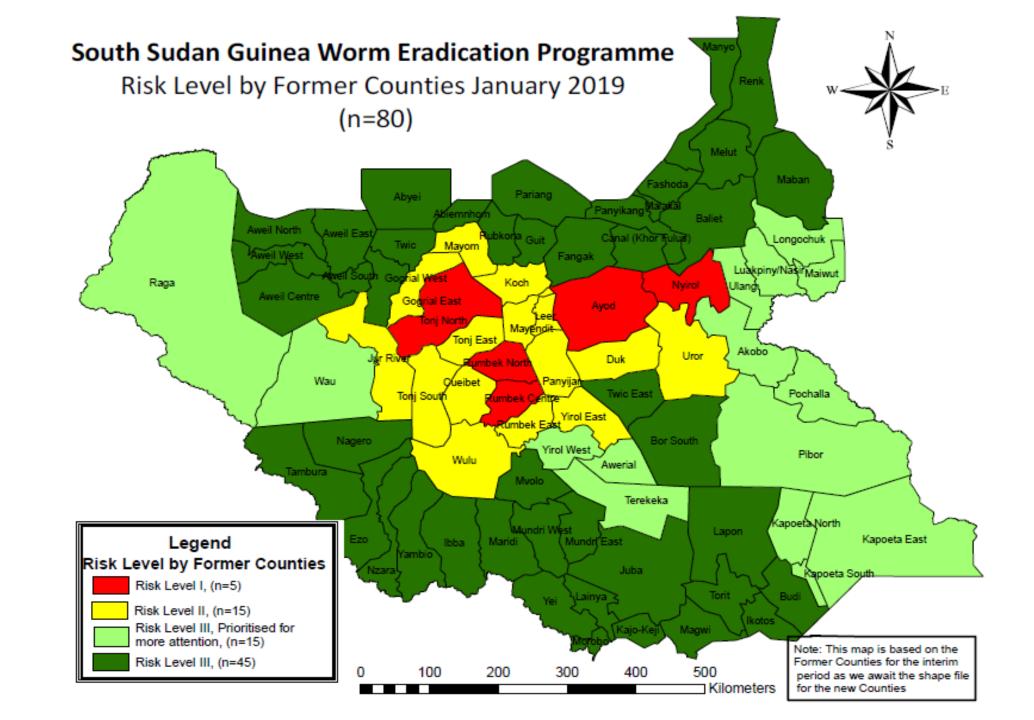


Number of People Reached by Cash Reward Awareness Activities within SSGWEP areas by Channel (May- Oct'18)





When and Where does the SSGWEP expect GW cases/animal infections in 2019? Why?



SECTION 4

Administration

Major Meetings 2018:

- Training of Trainers National Workshop (March)
- Raga Case Sweep and State Level Workshops (March April)
- GW Task Force Meeting (May)
- Inaugural Meeting of the SSNCDDE (May)
- Rumbek Center and Rumbek North Cash Reward Event (August)
- SSGWEP Annual Review Meeting (December)

SSNCDDE Established on April 10th, 2018

- Inaugural Meeting of the SSNCDDE (May 23rd, 2018)
- 2nd Meeting of the SSNCDDE (July 13th, 2018)
- Induction Workshop (August 22-23rd, 2018)
- Members of Committee attended the National Minister's visit to former Rumbek North and Rumbek Center (August 2nd- 3rd, 2018)
- Attendance of available members at weekly SSGWEP Secretariat Meetings



SSGWEP Staffing

	Expatriate Staff		National			(Directly	ity & Pay y Suppoi SGWEP)	rted by		
Technical Advisor (TAs and Ops Mgr)	Secretariat (Country Rep & Deputy)	Secretariat (Director)	Programme Officers	Data	Field Officers	Volunteers	State Surveillance Officers	County Surveillance Officers	Payam Supervisors	Total
6	2	1	33	4	228	9238	8	25	118	9389

Way Forward for 2019



Strengthen Community-based Surveillance and Intervention Structures in endemic counties (Surveillance Level I Area):

- Maintain active, village based surveillance in all villages and cattle Camps.
- Ensure all rumors/suspects investigated within 24 hours of reporting and 100% follow up of all 2019 cases and their households on weekly basis
- Engender at least 80% national awareness of the cash reward motivate self reporting.
- Enhance collaboration with other health programmes such as NIDs, IDSR, to integrate active case searches for GWD and Cash Reward awareness.
- Continue engaging partners (UNICEF, MEDIWR) in the water sector to provide access to safe drinking water for communities at higher risk of GWD.

Way Forward for 2019



Strengthen Surveillance in Guinea Worm non-endemic counties (level II and III areas):

- Strengthen surveillance capacity at the state, county, payam and village levels to ensure timely detection and reporting systems within the context of the Boma Health Initiative (BHI)
- Ensure collection of quality GWD data and enhance 100% investigation of rumours within 24 hours and follow up of all suspects reported.
- Increase collaboration with partners to create/raise awareness of the communities on Guinea-worm disease and on the cash reward system (>80% of population).
- Enhance collaboration with other health programmes such as NIDs, IDSR, to integrate active case searches for GWD and Cash Reward awareness.
- Continue engaging partners (UNICEF, MWRI) in the water sector to provide access to safe drinking water for communities at higher risk of GWD.

Acknowledgement

The Carter Center

WHO

UNICEF

Ministry of Water Resources and Irrigation – South Sudan

The Guinea Worm Warriors

DONORS