



Ministry of Health Uganda

Weekly Epidemiological Bulletin

Highlights of the week

- Cholera outbreak in Sironko district continues

Summary Table

Indicator	Week 3 2016	Week 4 2016
% Districts	100	100
Ave % HU	75	75
% Timely reports	*	*
AFP	6(0)	4(0)
Animal bites	256(1)	303(2)
Cholera	48(0)	61(2)
Dysentery	932(3)	935(1)
Guinea Worm	1(0)	0(0)
Malaria	226696 (64)	213308 (39)
Measles	92(0)	66
Meningitis	4(1)	6(0)
NNT	2(1)	1(1)
Plague	0(0)	5(0)
Typhoid	1688(3)	1931(0)
MDR TB	13(0)	7(0)

*Indicator not provided

Completeness of Reporting

All the 112 districts reported with average reporting rate of 75% in week 4 2016. 47 districts (42%) achieved the national target of $\geq 80\%$ of the health facilities reporting. 12 districts had all their facilities reporting. Kampala and Buvuma districts have continued to have reporting rates of less than 30%. The regional level performance as well as best districts and worst districts in week3 have been presented in **Figures 1, 2 & 3**. As shown in Figure 3, the number of districts with low reporting rates are on the decline whereas the number of top performing districts are significantly high.

Epidemiological Week 4 (18th – 24th Jan 2016)

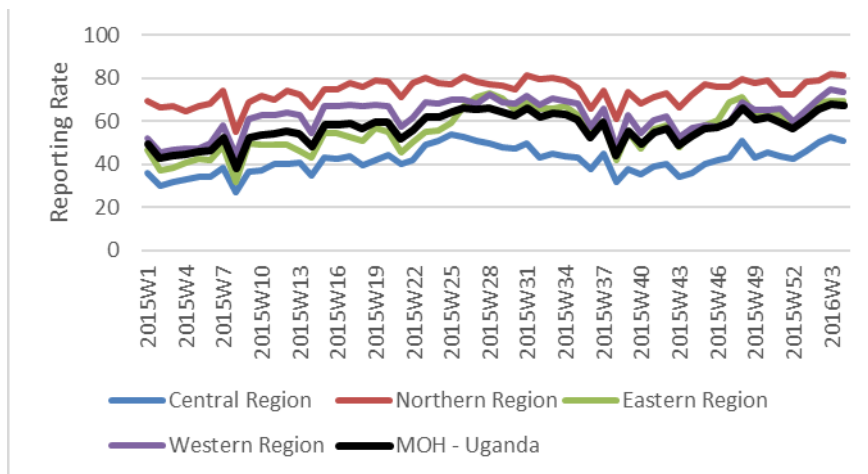


Figure 1: Average reporting level by region for weeks for Week 4 (18th-24th, Jan, 2016)

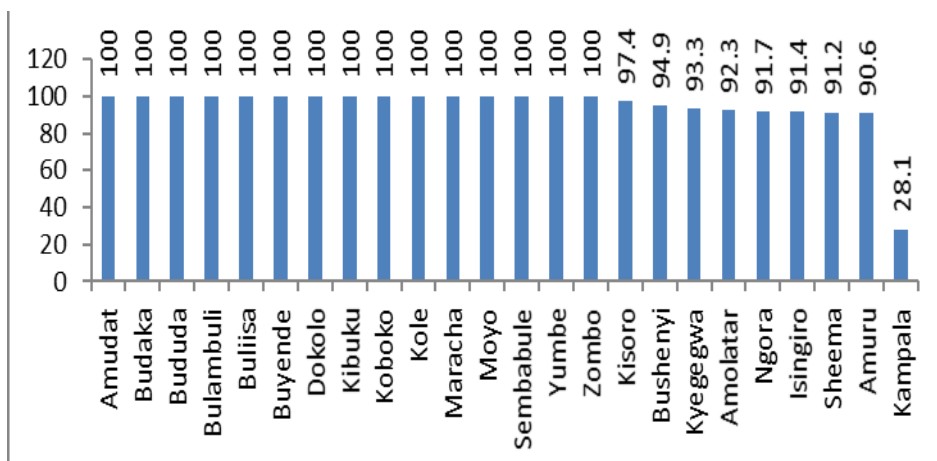


Figure 2: Top and Bottom districts reporting rates

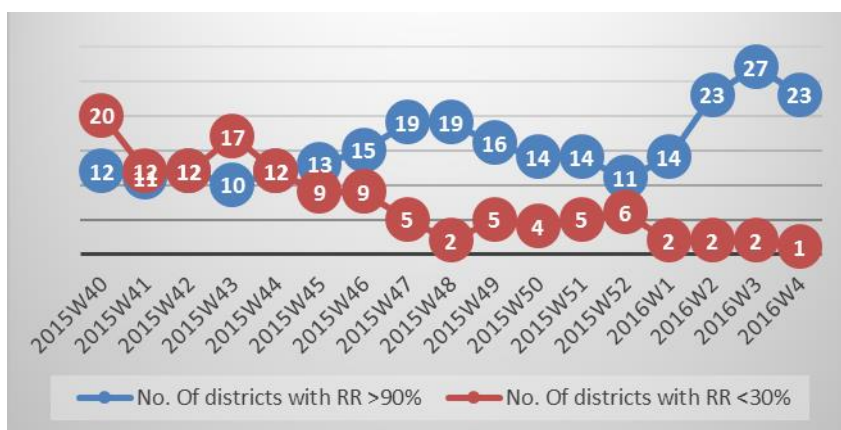


Figure 3: Trends of top and bottom reporting rate districts

Disease outbreaks:

Cholera: In week 4 data, 51 cases with one deaths were reported this week in Sironko district, in Eastern Uganda. By 29th January 2016, 74 cases had been reported in Sironko district with five deaths. Response efforts are ongoing in Sironko coordinated by the district rapid response team with support from MOH, Mbale district and partners. Buliisa district also reported one (1) case of laboratory confirmed cholera.

Malaria: A total of 159,448 malaria cases with 39 deaths were reported in week 4 of 2016. This is 6% drop from the number of cases reported in the previous week. The case fatality rate slightly reduced from 0.03% in the previous week to 0.02% in week 4 of 2016. All the epidemic districts in Northern Uganda have remained above the respective Malaria normal channels. **Kasese and Adjumani districts** have consistently reported very high malaria cases of over 3,500 since week 1 of 2016. Busia, Isingiro and Kiruhura districts also reported more than 4000 malaria cases in this week. Among the districts with confirmed malaria upsurge in Northern Uganda, Gulu district has continued to report the highest number of malaria cases, with two malaria related deaths in week 4 of 2016.

Other priority diseases

AFP: Four (4) cases of AFP with no AFP related deaths were reported from four districts of Butambala, Kabale, Mityana and Pader.

Typhoid fever: 1,931 cases of Typhoid fever were reported this week with no typhoid related death. Up to 30 districts reported 20 or more typhoid cases during this period.

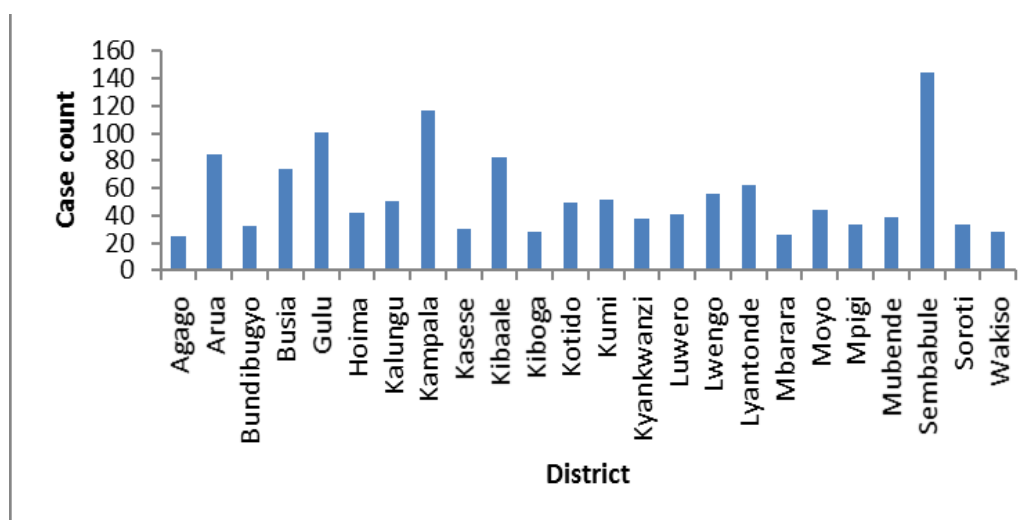


Figure 4: Districts reporting more than 25 typhoid fever cases in week 4 of 2016

Measles: In week 4, 66 cases of measles were reported during this week from 38 districts. No district reported 5 or more measles cases, meaning that all districts were below the alert threshold.

Neonatal Tetanus: One (1) case of neonatal tetanus (NNT) was reported in Busia district with no NNT related death.

Maternal and perinatal deaths: Three (3) maternal deaths were reported during week 4 of 2016. The cases were reported from Kagando Hospital in Kasese district, Kyazanga HC IV from Lwengo district and Kagadi hospital from Kibaale district. All health units submitted maternal audit forms. A total of 26 perinatal deaths were reported from 12 districts. Kabarole and Bushenyi districts reported 5 perinatal cases each whereas Kibaale district reported 4 cases as shown in the table below.

Table 2: Maternal and perinatal deaths reported in week 4

District	Facility	Maternal Deaths	Perinatal Deaths
Bududa	Bushika HC III	0	1
Mubende	Nabingoola HC III	0	1
Kabarole	Fort Portal Regional Referral Hospital	0	5
Bushenyi	Kiu Teaching Hospital	0	5
Moyo	Aliba HC III	0	1
Apac	Apac Hospital	0	1
Kasese	Mt. Rwenzori HC III	0	1
Kasese	Kagando Hospital	1	3
Lwengo	Kyazanga HC IV	1	0
Kibaale	Kagadi Hospital	1	4
Kampala	Mengo Hospital	0	1
Bushenyi	Comboni Hospital	0	2
Rubirizi	Rugazi HC IV	0	1
Total		3	26

Figure 4: Table of health facilities reporting maternal and perinatal deaths

International Health Events

Zika Virus outbreak is declared by WHO as a Public Health Emergency of International Concern.

On 1st February 2016, WHO declared a Public Health Emergency of International Concern after a substantial spike in cases of microcephaly and Guillain-Barré syndrome in the Americas. These cases are strongly suspected to be linked to Zika virus, a mosquito-transmitted disease that has spread to more than 25 countries and territories in the region. Zika virus was first identified in Uganda in 1947 in Rhesus monkeys through a monitoring network of sylvatic Yellow Fever, and was subsequently identified in humans in 1952 in Uganda and Tanzania. Outbreaks of Zika virus disease have been recorded in Africa, the Americas, Asia and the Pacific.

Key facts

- The Zika virus disease is caused by a virus transmitted by *Aedes* mosquitoes.
- People with Zika virus disease usually have a mild fever, skin rash (exanthema) and conjunctivitis. These symptoms normally last for 2-7 days.
- There is no specific treatment or vaccine currently available.
- The best form of prevention is protection against mosquito bites.
- The virus is known to circulate in Africa, the Americas, Asia and the Pacific

As a precautionary measure, the WHO Emergency Committee made the following additional recommendations:

Zika virus transmission

- Surveillance for Zika virus infection should be enhanced, with the dissemination of standard case definitions and diagnostics to at-risk areas.
- The development of new diagnostics for Zika virus infection should be prioritized to facilitate surveillance and control measures.
- Risk communications should be enhanced in countries with Zika virus transmission to address population concerns, enhance community engagement, improve reporting, and ensure application of vector control and personal protective measures.
- Vector control measures and appropriate personal protective measures should be aggressively promoted and implemented to reduce the risk of exposure to Zika virus.
- Attention should be given to ensuring women of childbearing age and particularly pregnant women have the necessary information and materials to reduce risk of exposure.
- Pregnant women who have been exposed to Zika virus should be counseled and followed for birth outcomes based on the best available information and national practice and policies.

Longer-term measures

- Appropriate research and development efforts should be intensified for Zika virus vaccines, therapeutics and diagnostics.

- In areas of known Zika virus transmission health services should be prepared for potential increases in neurological syndromes and/or congenital malformations.

Travel measures

- There should be no restrictions on travel or trade with countries, areas and/or territories with Zika virus transmission.
- Travelers to areas with Zika virus transmission should be provided with up to date advice on potential risks and appropriate measures to reduce the possibility of exposure to mosquito bites.
- Standard WHO recommendations regarding disinfection of aircraft and airports should be implemented.

Data sharing

- National authorities should ensure the rapid and timely reporting and sharing of information of public health importance relevant to this PHEIC.
- Clinical, virological and epidemiological data related to the increased rates of microcephaly and/or GBS, and Zika virus transmission, should be rapidly shared with WHO to facilitate international understanding of these events, to guide international support for control efforts, and to prioritize further research and product development.

Accessed on: <http://www.who.int/mediacentre/news/statements/2016/1st-emergency-committee-zika/en/>

More information about the Zika Virus can be found at: <http://www.who.int/mediacentre/factsheets/zika/en/>

Editorial: Mr. J. Kissa, Dr C.Kihembo, Joyce Nguna, Dr. B. Masiira, , Dr. M. Musenero, Mr. M. Mugagga, Dr. J. Wamala, Dr. I. Makumbi , Dr. R. Musoke, Dr. J. Sekajugo, Dr. F. Adatu, Dr. C. Okot, Dr. M. Nanyunja, Dr. I. Nabukenya

Founders: Dr. J. Kamugisha (RIP), Dr. J. Wanyana, Dr. M. Lamunu, Dr. C. Mugero, Dr. N Ndayimirigye, Mr. L. Luswa (RIP), Dr. N. Bakyaita, Mr. M. Mugagga

*For comments please contact: The Epidemiological Surveillance Division- M.O.H; P.O BOX 7272 Kampala, Tel: 0414-340874/0414-345108;
Email: esd@health.go.ug or esduganda@yahoo.co.uk*

Summary table for epidemiological reports of priority conditions received for Week 4, (18th -24th January 2016) (Numbers in brackets indicate deaths)

District	% HU Reporting	Malaria	Dysentery	AFP	AEFI	Animal Bites	Bacterial Meningitis	Cholera	Guinea Worm	Measles	NNT	Other VHFs	Plague	Typhoid Fever	Yellow Fever	Multi-Drug Resistance (MDR)
Abim	85	609(1)	7	0	0	2	0	0	0	0	0	0	0	0	0	0
Adjumani	88.6	3,680	25	0	0	1	0	0	0	0	0	0	0	0	0	1(0)
Agago	87.9	2,021	22	0	0	9	1(0)	0	0	0	0	0	0	25	0	0
Alebtong	72.2	430	5	0	0	4	0	0	0	0	0	0	0	0	0	0
Amolatar	92.3	332	2	0	0	1	0	0	0	0	0	0	0	3	0	0
Amudat	100	202	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Amuria	74.4	3,296	5	0	0	6	0	0	0	2(0)	0	0	0	1	0	0
Amuru	90.6	2,399	15	0	0	1	0	0	0	0	0	0	0	2	0	0
Apac	75.7	3,487	2	0	0	7	0	0	0	0	0	0	0	1	0	0
Arua	71.2	4,136	30	0	0	1	0	0	0	0	0	0	0	85	0	0
Budaka	100	546	3	0	0	0	0	0	0	0	0	0	0	6	0	0
Bududa	100	1,031	6	0	0	0	0	0	0	0	0	0	0	1	0	0
Bugiri	66	1,774	17	0	0	1	0	0	0	0	0	0	0	23	0	0
Buhweju	88.2	364		0	0	0	0	0	0	1(0)	0	0	0	1	0	0
Buikwe	62.3	2424(1)	9	0	0	2	0	0	0	3(0)	0	0	0	19	0	0
Bukedea	81.3	898	6	0	0	1	0	0	0	0	0	0	0	5	0	0
Bukomansimbi	88.2	928	2	0	0	0	0	0	0	0	0	0	0	13	0	0
Bukwo	87.5	495	19	0	0	13	0	0	0	0	0	0	0	12	0	0
Bulambuli	100	929		0	0	0	0	0	0	0	0	0	0	0	0	0
Buliisa	100	407	4	0	0	1	0	1(0)	0	0	0	0	0	13	0	0
Bundibugyo	73.3	1,682	10	0	0	2	0	0	0	0	0	0	0	32	0	0
Bushenyi	94.9	2,055	3	0	0	3	0	0	0	2(0)	0	0	0	23	0	0
Busia	82.8	4,057	13(1)	0	0	9	0	2(0)	0	0	1(0)	0	0	74	0	0
Butaleja	70.8	787	9	0	0	0	0	0	0	0	0	0	0	1	0	0
Butambala	60.9	615		1(0)	0	0	0	0	0	1(0)	0	0	0	3	0	0
Buvuma	63.6	498	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Buyende	100	1,971	3	0	0	0	0	0	0	0	0	0	0	1	0	0
Dokolo	100	1,060	4	0	0	1	0	0	0	1(0)	0	0	0	8	0	0
Gomba	68.4	1,159	1	0	0	0	0	0	0	0	0	0	0	4	0	0
Gulu	77.9	8431(2)	53	0	0	13	0	0	0	0	0	0	2(0)	101	0	0
Hoima	52.9	3,498	32	0	0	2	0	0	0	2(0)	0	0	0	42	0	0
Ibanda	74	3,237	1	0	0	1	0	0	0	0	0	0	0	2	0	0
Iganga	57.1	3,430		0	0	3	0	0	0	0	0	0	0	4	0	0
Isingiro	91.4	4986(1)	1	0	0	1	0	0	0	0	0	0	0	24	0	0
Jinja	47.4	3224(3)	17	0	0	9	0	0	0	2(0)	0	0	0	13	0	0
Kaabong	74.1	744	13	0	0	1	0	0	0	0	0	0	0	17	0	0
Kabale	77.1	458(6)	1	1(0)	0	5	0	0	0	0	0	0	0	0	0	0
Kabarole	64.8	2572(3)	8	0	1	12	0	0	0	1(0)	0	0	0	21	0	0

Kaberaido	80	1,224	9	0	0	4	0	0	0	1(0)	0	0	0	10	0	0
Kalangala	70.6	366	15	0	0	0	0	0	0	1(0)	0	0	0	5	0	0
Kaliro	52.4	809		0	0	0	0	0	0	0	0	0	0	0	0	0
Kalungu	69	1,051	2	0	0	1	0	0	0	0	0	0	0	50	0	1(0)
Kampala	27.8	2,356	6	0	0	22	0	0	0	3(0)	0	0	0	117	0	0
Kamuli	50.8	2829(1)		0	0	3	0	0	0	1(0)	0	0	0	7	0	0
Kamwenge	63	3,115	3	0	0	1	1	0	0	2(0)	0	0	0	6	0	0
Kanungu	75	772	5	0	0	1	0	0	0	0	0	0	0	13	0	0
Kapchorwa	85	795	8	0	0	0	0	0	0	0	0	0	0	0	0	0
Kasese	86.7	5730(5)	24	0	0	2	0	0	0	0	0	0	0	30	0	0
Katakwi	76.9	1,954	2	0	0	1	0	0	0	0	0	0	0	5	0	0
Kayunga	53.6	1,832	9	0	0	1	0	0	0	0	0	0	0	8	0	0
Kibaale	59.2	2950(4)	6	0	0	4	0	0	0	3(0)	0	0	0	82	0	0
Kiboga	73.3	1,450	4	0	0	0	0	0	0	2(0)	0	0	0	28	0	0
Kibuku	100	459	3	0	0	0	0	0	0	0	0	0	0	1	0	0
Kiruhura	76.7	4,202		0	0	4	0	0	0	2(0)	0	0	0	12	0	0
Kiryandongo	69.2	1,670	3	0	0	0	0	0	0	3(0)	0	0	0	9	0	0
Kisoro	97.4	299	6	0	0	1	0	0	0	0	0	0	0	2	0	0
Kitgum	60.7	2,622	19	0	0	1	0	0	0	0	0	0	0	14	0	0
Koboko	100	1562(1)	1	0	0	1	0	0	0	0	0	0	0	0	0	0
Kole	100	866		0	0	3	0	0	0	0	0	0	0	0	0	0
Kotido	31.6	672	32	0	0	1	0	0	0	0	0	0	0	49	0	0
Kumi	77.8	2,947	8	0	0	4	0	0	0	0	0	0	0	51	0	0
Kween	62.5	382		0	0	2	0	0	0	3(0)	0	0	0	2	0	0
Kyankwanzi	80	1,507		0	0	0	0	0	0	2(0)	0	0	0	38	0	0
Kyegegwa	93.3	1650(1)	2	0	0	0	0	0	0	1(0)	0	0	0	11	0	0
Kyenjojo	63.8	2,288	1	0	0	4	0	0	0	0	0	0	0	12	0	0
Lamwo	85.7	1,605	2	0	0	2	0	0	0	0	0	0	0	0	0	0
Lira	75	1,737	14	0	0	3	1	0	0	3(0)	0	0	0	18	0	0
Luuka	64.5	2,099		0	0	0	0	0	0	0	0	0	0	0	0	0
Luwero	73	2,861	9	0	0	3	0	0	0	0	0	0	0	41	0	0
Lwengo	80.6	2480(1)		0	0	0	0	0	0	1(0)	0	0	0	56	0	0
Lyantonde	76.7	2,116	2	0	0	0	0	0	0	2(0)	0	0	0	62	0	0
Manafwa	70.8	2,128	10	0	0	2	0	0	0	0	0	0	0	13	0	0
Maracha	100	1,496	6	0	0	2	0	0	0	0	0	0	0	24	0	0
Masaka	66.7	1,672	4	0	0	0	0	0	0	1(0)	0	0	0	10	0	0
Masindi	67.4	2,182	2	0	0	2	0	0	0	0	0	0	0	16	0	0
Mayuge	41.3	2,027	5	0	0	1	0	0	0	1(0)	0	0	0	1	0	0
Mbale	70.9	1,900	5	0	0	1	0	1(0)	0	0	0	0	0	1	0	0
Mbarara	76.5	2,015	78	0	1(0)	7	1(0)	0	0	1(0)	0	0	3(0)	26	0	0
Mitooma	62.5	1,148		0	0	1	0	0	0	0	0	0	0	6	0	1(0)
Mityana	39	2,611	4	1(0)	0	11	0	0	0	2(0)	0	0	0	1	0	0
Moroto	46.7	436	3	0	0	1(1)	0	6(1)	0	0	0	0	0	5	0	0
Moyo	100	3,671	23	0	0	3	0	0	0	0	0	0	0	44	0	0
Mpigi	85	1702(1)	1	0	0	0	0	0	0	1(0)	0	0	0	33	0	0
Mubende	32.5	2,668	14	0	0	6	0	0	0	1(0)	0	0	0	39	0	0
Mukono	57.1	2,274	10	0	0	3	0	0	0	0	0	0	0	13	0	0
Nakapiripirit	76.5	1,061	20	0	0	2	0	0	0	0	0	0	0	12	0	0

Nakaseke	66.7	1,552	7	0	0	0	0	0	0	1(0)	0	0	0	23	0	0
Nakasongola	54.3	1,242	4	0	0	5	0	0	0	1(0)	0	0	0	12	0	0
Namayingo	53.1	2,237	10	0	0	3	0	0	0	3(0)	0	0	0	5	0	0
Namutumba	55.9	1,180	4	0	0	0	0	0	0	0	0	0	0	0	0	1(0)
Napak	78.6	975	9	0	0	4	0	0	0	0	0	0	0	0	0	1(0)
Nebbi	86	2,791	18	0	0	11	1(0)	0	0	0	0	0	0	8	0	0
Ngora	91.7	830	5	0	0	2	0	0	0	0	0	0	0	4	0	1(0)
Ntoroko	77.8	324	3	0	0	1	0	0	0	0	0	0	0	1	0	0
Ntungamo	50	1680(1)		0	0	7	0	0	0	0	0	0	0	11	0	0
Nwoya	83.3	1,547		0	0	0	0	0	0	0	0	0	0	0	0	0
Otuke	86.7	687	13	0	0	5	0	0	0	1(0)	0	0	0	15	0	0
Oyam	80.6	2805(1)	7	0	0	1	0	0	0	0	0	0	0	2	0	0
Pader	64.1	3,355	34	1(0)	0	5	0	0	0	0	0	0	0	10	0	0
Pallisa	75.8	1169(2)	4	0	0	1	0	0	0	0	0	0	0	18	0	0
Rakai	56.1	3,753	9	0	0	2	0	0	0	1(0)	0	0	0	18	0	0
Rubirizi	89.5	1,568		0	0	0	0	0	0	0	0	0	0	0	0	0
Rukungiri	64	1,340	4	0	0	1	0	0	0	0	0	0	0	2	0	0
Sembabule	100	3,597	5	0	0	0	0	0	0	0	0	0	0	144	0	1(0)
Serere	81	1,371	4	0	0	0	0	0	0	0	0	3(0)	0	0	0	0
Sheema	91.2	1420(1)		0	0	1	0	0	0	0	0	0	0	0	0	0
Sironko	90	1,980	8	0	0	2	0	51(1)	0	0	0	0	0	0	0	0
Soroti	61.1	2894(2)	2	0	0	11	0	0	0	0	0	0	0	33	0	0
Tororo	75	1,600	12	0	0	6	0	0	0	2(0)	0	0	0	15	0	0
Wakiso	36.2	2,803	9	0	0	0	1(0)	0	0	4(0)	0	0	0	28	0	0
Yumbe	100	2285(1)	16	0	0	9(1)	0	0	0	0	0	0	0	7	0	0
Zombo	100	1,223	13	0	0	3	0	0	0	1(0)	0	0	0	12	0	0
National	74.79	159448 (39)	935 (0)	4 (0)	0 (0)	303 (0)	6 (0)	61 (2)	0 (0)	66 (0)	1 (0)	3 (0)	5(0)	1931 (0)	0(0)	7 (0)

Key: Yellow: 100% reporting, Green: 80-99% reporting, Red: Below 80% reporting

HU= Health Units, AFP=Acute Flaccid Paralysis, NNT=Neonatal Tetanus, NR =Not Reported

Compiled by the Epidemiological Surveillance Division, Ministry of Health