



# Ministry of Health Uganda

## Weekly Epidemiological Bulletin

### Highlights of the week

- Cholera outbreak in Kampala, Busia and Mbale Districts
- Ugandan WHO staff awarded medals in Sierra Leone in Ebola Fight

### Summary Table

Indicator	Week 50 2015	Week 51 2015
% Districts	100	100
Ave % HU	68.3	67.2
% Timely reports	*	*
AFP	4 (0)	4(0)
Animal bites	288 (0)	240(0)
Cholera	39 (1)	34 (0)
Dysentery	805 (0)	789 (2)
Guinea Worm	1 (0)	1(0)
Malaria	167,328 (26)	177460 (32)
Measles	101 (0)	111 (0)
Meningitis	4 (2)	3 (0)
NNT	2 (1)	0 (0)
Plague	0	(2) 0
Typhoid	1439 (0)	1537 (0)
MDR TB	4 (0)	9 (0)

\*Indicator not provided

### Completeness of Reporting

In week 51, 67.2% was the average completeness, compared to 68.3% in week 50. A total of 32 districts achieved the national target of  $\geq 80\%$  of the health facilities reporting rate. Six districts had 100% completeness namely; Amudat, Buliisa, Maracha, Serere, Yumbe and Zombo while Kampala (17.5) and Buvuma (9.1) districts had less than 20% reporting facilities. The regional level performance as well as the change in reporting rate over the weeks 40-51 shows improvement (**Figure 1 & Figure 2**).

### Epidemiological week 51 (14th - 20th Dec 2015)

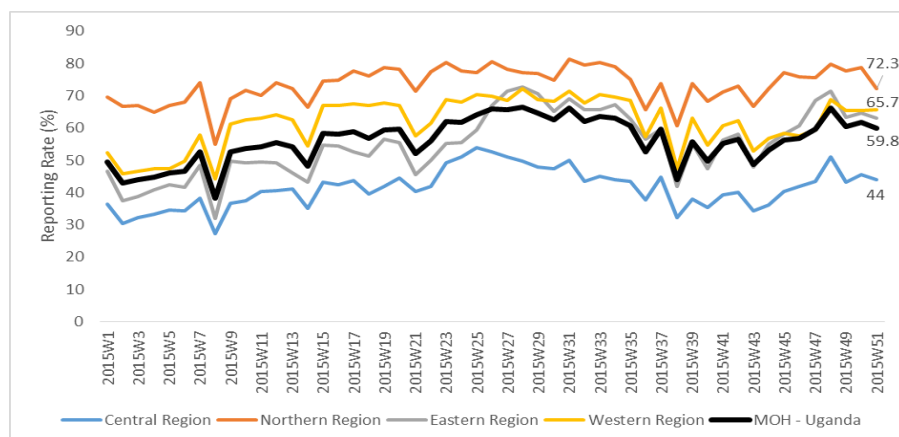


Figure 1: Average reporting level by region for weeks 1-51, 2015



Figure 2: Trend of number of top and bottom reporting districts by week. The number of districts with less than 30% reporting rate has reduced from 20 to five by week 51; showing a significant change in rates.

### Disease Outbreaks

#### Cholera outbreak in Busia District

By 25<sup>th</sup> December, a total of 239 cases (119 female, 120 male) were managed at Busia HC IV Cholera Treatment Centre. Up to 6 deaths have been registered (Case fatality rate 2.5%) and 4 of these were health facility deaths, 2 from the community. The cases are mainly from Busia Municipality (Marachi, Solo, Mugungu and Mawero villages – **Figure 3**). The number of cases is gradually decreasing, reflecting three peaks and eventual reduction by 25<sup>th</sup> December (**Figure 4**). The age range is from 1-65 years and 28 cases aged 0-4 years have been managed.

**Actions:** The national Rapid Response Team has been in the district training health workers on using the case definitions, identify cases and manage them appropriately. The District Task Force is actively engaged in control efforts.

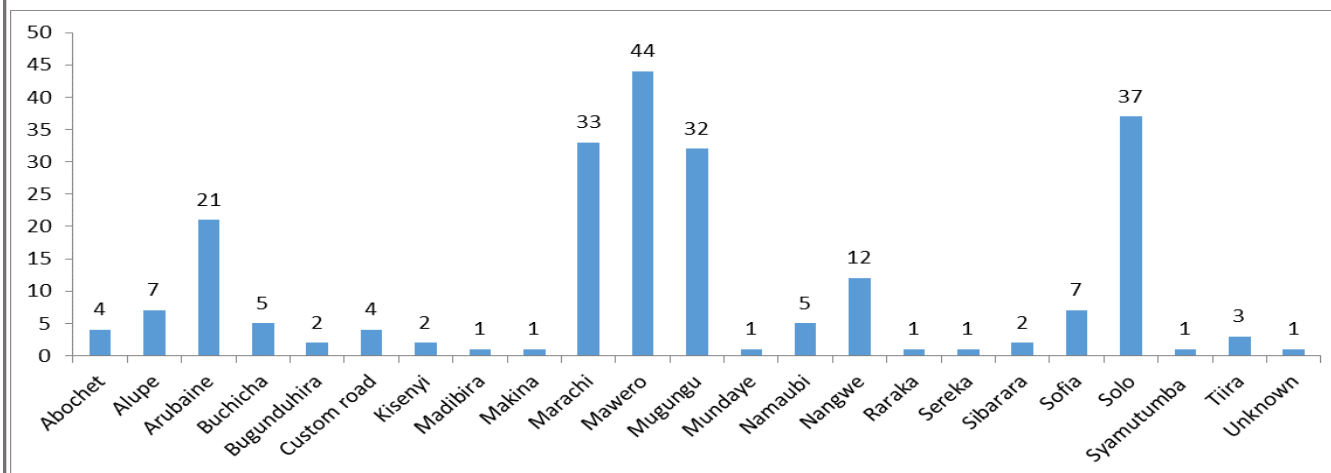


Figure 3: Number of cholera cases by village in Busia District, by 25th December 2015

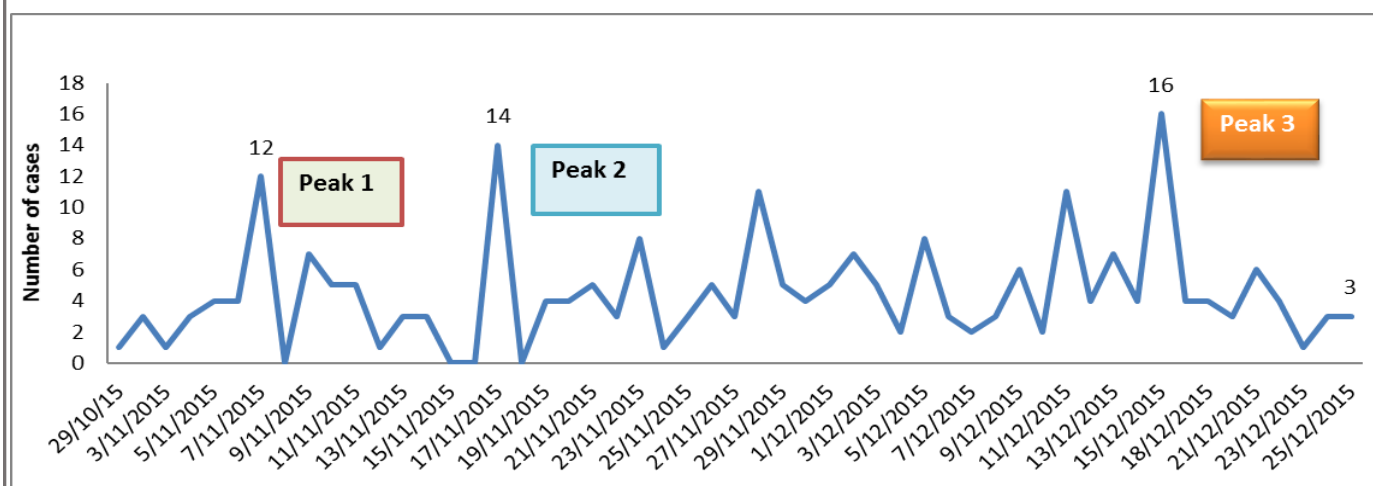


Figure 4: Epidemic curve of the cholera outbreak in Busia district from 29<sup>th</sup> October- 25<sup>th</sup> December 2015

### Cholera outbreak in Kampala District

The outbreak started on 20<sup>th</sup> October in Makindye Division (Bukasa, Kanyogoga zones) and later spread to Rubaga Division (Kisenyi zone). The number of cases in Kampala have continued, affecting mostly Makindye, Central and Rubaga divisions (**Figure 5**). A total of 267 cases and 5 deaths (CFR 1.9%) have been treated/recorded; and more males (145 – 54% are affected compared to 122 females (46%). Out of 153 samples collected from the patients, 52 were positive for *Vibrio cholerae* by culture and isolation.

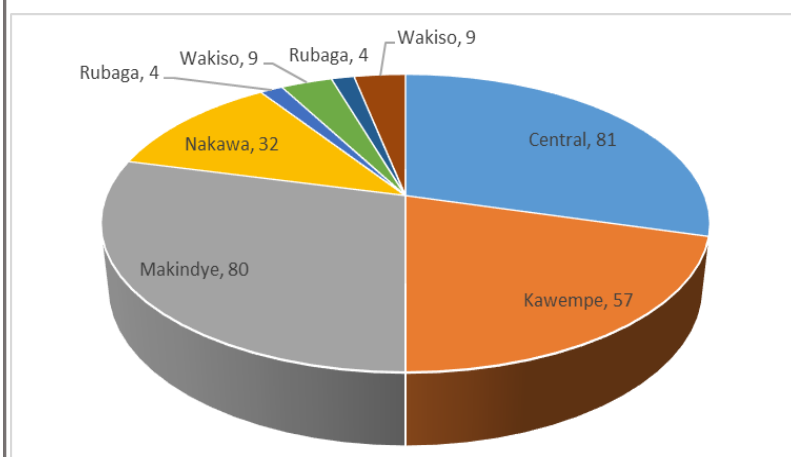


Figure 5: Number of cholera cases in five divisions of Kampala, and Wakiso districts by 25th December 2015

**Actions:** The National Task Force has been actively meeting thrice a week; and supporting Kampala Capital

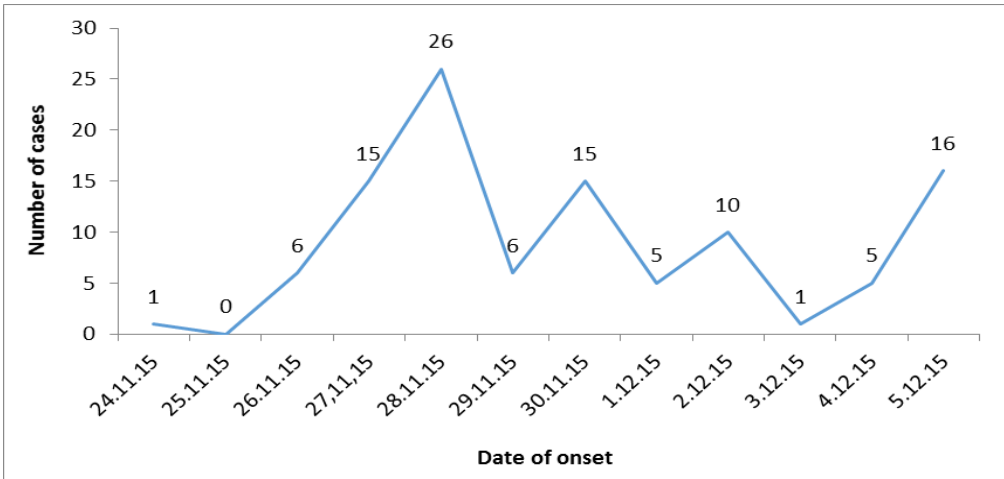
City Authority health division to control the outbreak. MOH and partners have supported water chlorination at household level using aquatablets; soap and water for hand washing in public places and in vulnerable communities in the affected zones, stand pipes with treated water and general patient care. The social mobilisation team deployed film vans which are providing health education to the affected communities.

**Mbale District Cholera outbreak**

The outbreak started on 6<sup>th</sup> December and was reported on 10<sup>th</sup> December. By 25<sup>th</sup> December, there were 45 cases (21 female, 24 male) and 1 community death (CFR 2.2%). The patients’ ages ranged from 7 months to 70 years; and 7 were below 4 years. Although cholera treatment is in Mbale, five patients were from Kumi, Pallisa, Sironko, Busia and Manafwa districts. The contamination of the water channel from Busia is indicated as the source of the outbreak. Heavy rains, coupled with blocked drainage channels have been highlighted as the influencing factors.

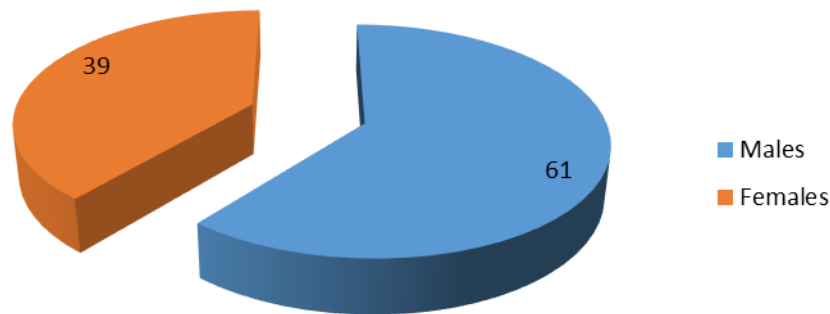
**Wakiso district cholera outbreak**

The outbreak started in November in Zzinga village, Bussi Sub-county, Wakiso district. By 5<sup>th</sup> December 106 cases had been treated at various centres. The epidemic curve showed an increase in cases, to possibly the next peak (**Figure 6**).



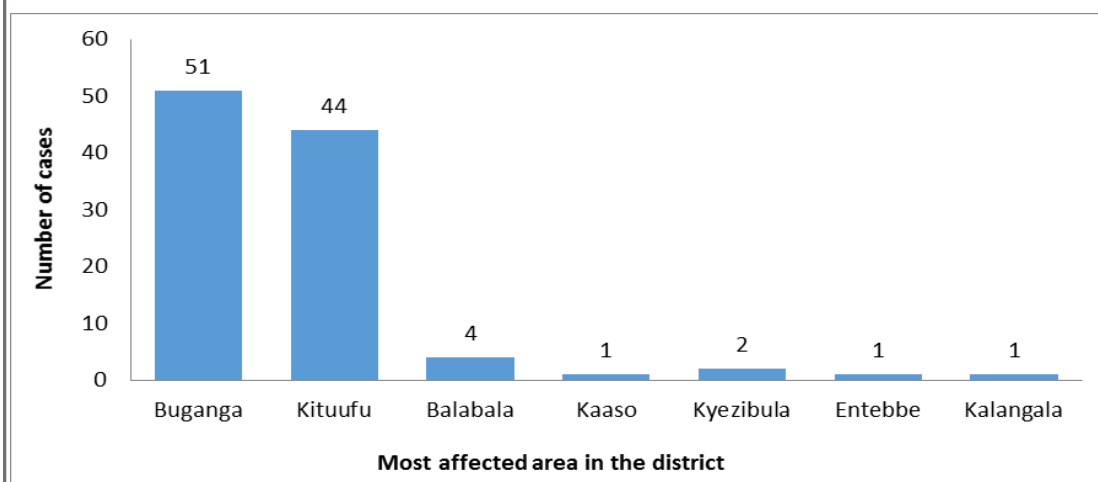
**Figure 6: Epidemic curve of the cholera outbreak in Wakiso District, December 5<sup>th</sup> 2015**

More males than females were affected as shown in Figure 7 below.



**Figure 7: Cholera cases in Wakiso district by sex, December 5<sup>th</sup> 2015**

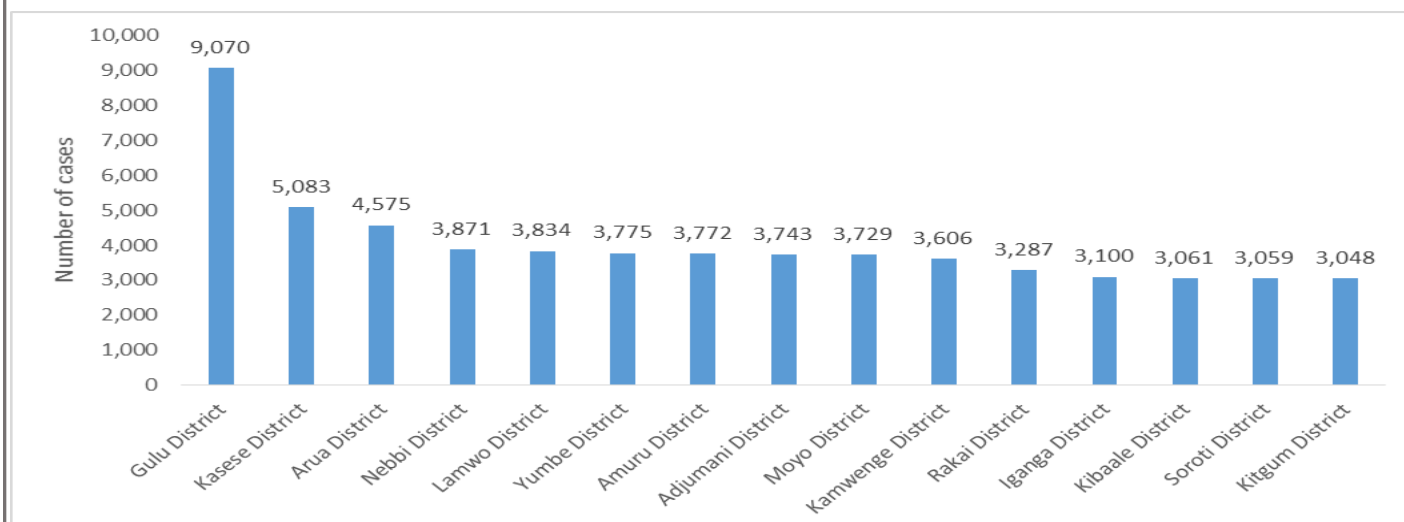
People most affected (52%) are between the age of 20 - 40 years (Figure 8) from Buganga and Kituufu (Figure 9).



**Figure 9: Cholera cases in Wakiso District by area of residence, December 5<sup>th</sup> 2015**

In Hoima Municipality, another outbreak of cholera has been confirmed, two months after an outbreak in rural Hoima. Similar efforts to control these outbreaks have been deployed.

**Malaria:** Reported malaria cases are still high, especially in some of the outbreak districts including Gulu, Kigum, Lamwo, Amuru, Arua (**Figure 10**). The total case reported were 177460 in week 51 compared to 167328 in week 50.



**Figure 10: Districts with malaria cases above 3000 in week 51, 2015**

### Other priority diseases

**AFP:** There were 4 cases of AFP reported this week with no death. These were from Aboke Mission HD II, Bukwo Hospital, Immaculate Nursing Home Tororo and Wakiso HC IV.

**Typhoid fever:** The number of reported typhoid cases continues to be high. In week 51, 25 districts reported 20 or more cases; including Kampala (159 cases) and Kibaale (146 cases).

**Measles:** The reported cases reduced from to 111 in week 51. Mityana, Ibanda Nakaseke, Kamwenge, Kiboga and Kalungu reported five or more cases (above alert threshold).

**Maternal and perinatal deaths:** A total of 8 maternal deaths were reported from 6 health facilities (**Table 2**). This indicates a small decrease in the number of death as compared to the 13 cases in week 48. All facilities that reported deaths in week 49 have submitted the maternal audit forms, which are used to investigate the causes of death and in respective control interventions.

**Table 1: Reported maternal deaths in week 51**

Region	District	Sub county	Health facility	Maternal Deaths
Central	Kayunga	Kayunga Town Council	Kayunga Hospital	1
Central	Lyantonde	Lyantonde Town Council	Lyantonde Hospital	1
Central	Mpigi	Nkozi Subcounty	Nkozi Hospital	1
Eastern	Bududa	Bududa Town Council	Bududa Hospital	1
Northern	Arua	Arua Hill Division	Arua Regional Referral Hospital	1
Western	Kabarole	South Division	Fort Portal Regional Referral Hospital	2
Western	Hoima	Kahooro Division	Hoima Regional Referral Hospital	1

**Influenza in humans:** Three of the 18 samples collected from suspected Influenza patients and analysed by the weekly surveillance system at Makerere University Walter Reed Influenza Surveillance Project were positive for Influenza A (H1N1) and Influenza B.

### International events:

**Six World Health Organization staff in Sierra Leone honoured** for their ardent support to the fight against Ebola in 2014, 2015. All the three silver medalists are Ugandans: Dr. Zabuloni Yoti, Dr. Lamunu Margaret and Dr. Patrick Otim, who worked for different intervals in Sierra Leone during the longest Ebola outbreak the World has witnessed. (Get details on <http://www.afro.who.int/en/media-centre/pressreleases/item/8248-six-world-health-organization-staff-in-sierra-leone-honoured.html>)

**Editorial:** Mr. J. Kissa, Dr. B. Masiira, Dr C.Kihembo, Joyce Nguna, 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. Bakyaite, 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](mailto:esd@health.go.ug) or [esduganda@yahoo.co.uk](mailto:esduganda@yahoo.co.uk)*

# Summary table for epidemiological reports received for week 51 (14th - 20th Dec 2015)

(Numbers in brackets indicate deaths)

District	% HU reporting	Malaria	Dysentery	AFP	Animal Bites	Bacterial Meningitis	Cholera	Guinea Worm	Measles	NNT	Plague	Typhoid Fever
Abim	70	810	14	0	0	0	0	0	0	0	0	0
Adjumani	94	3743(2)	25	0	4	0	0	0	0	0	0	0
Agago	71	2,627	34	0	0	0	0	0	0	0	0	8
Alebtong	72	468	1	0	1	0	0	0	3	0	0	0
Amolatar	85	270	5	0	0	0	0	0	0	0	0	5
Amudat	100	442	5	0	0	0	0	0	0	0	0	6
Amuria	62	2,224	2	0	0	0	0	0	0	0	0	0
Amuru	81	3,772	20	0	0	0	0	0	0	0	0	0
Apac	46	1370(1)	0	0	7	0	0	0	0	0	0	0
Arua	63	4,575	32	0	7	0	0	0	0	0	0	38
Budaka	81	598	2	0	4	0	0	0	0	0	0	2
Bududa	93	502	4	0	3	0	0	0	0	0	0	1
Bugiri	66	1,710	6	0	2	0	0	0	0	0	0	9
Buhweju	82	148	0	0	0	0	0	0	1	0	0	0
Buikwe	53	1,799	4	0	12	0	0	0	1	0	0	38
Bukedea	75	435	0	0	1	0	0	0	0	0	0	2
Bukomansimbi	77	441(1)	0	0	0	0	0	0	0	0	0	2
Bukwo	94	561	12	0	3	0	0	0	1	0	0	20
Bulambuli	90	507	0	0	0	0	0	0	0	0	0	0
Buliisa	100	713(1)	3	0	0	0	0	0	0	0	0	2
Bundibugyo	93	1,989	13	0	0	0	0	0	0	0	0	25
Bushenyi	80	1,070	2	0	0	0	0	0	0	0	0	13
Busia	76	1,452	3	0	0	0	36	0	0	0	0	3
Butaleja	54	681(1)	2	0	0	0	0	0	0	0	0	14
Butambala	65	585	1	1	0	0	0	0	1	0	0	3
Buvuma	9	85	0	0	2	0	0	0	0	0	0	0
Buyende	77	1,916	2	0	0	0	0	0	0	0	0	0
Dokolo	81	669	2	0	0	0	0	0	0	0	0	0
Gomba	84	1,059	1	0	0	0	0	0	0	0	0	5
Gulu	71	9,070	53	0	2	2	0	0	0	0	0	52
Hoima	44	904(3)	5	0	0	0	0	0	3	0	0	14
Ibanda	62	2,477	0	0	7	0	0	0	5	0	0	2
Iganga	57	3100(2)	2	0	4	0	0	0	0	0	0	0
Isingiro	79	2,653	4	0	0	0	0	0	0	0	0	10
Jinja	41	1,307	2	0	0	0	0	0	0	0	0	15
Kaabong	67	768	11	0	0	0	0	0	0	0	0	0
Kabale	75	572	0		7	0	0	0	0	0	0	1
Kabarole	49	1325(4)	2	0	0	0	0	0	1	0	0	4
Kaberamaido	80	841(1)	10	1	5	0	0	0	0	0	0	1
Kalangala	65	309	8	0	0	0	0	0	1	0	0	6
Kaliro	43	1,058	0	0	0	0	0	0	0	0	0	0
Kalungu	28	376	4		1	0	0	0	5	0	0	8

Kampala	18	1,333	7	0	5	0	0	0	4	0	0	159
Kamuli	41	2428(3)	3	0	0	0	0	0	1	0	0	0
Kamwenge	67	3,606	8	0	6	0	0	0	6	0	0	12
Kanungu	67	897	2	0	0	0	0	0	1	0	0	35
Kapchorwa	85	541	7	0	1	0	0	0	0	0	0	0
Kasese	85	5,083	15	0	3	0	0	0	2	0	0	25
Katakwi	73	1,722	0	0	5	0	0	0	0	0	0	1
Kayunga	46	1,399	10	0	0	0	0	0	0	0	0	3
Kibaale	68	3061(1)	11	0	8	0	0	0	2	0	0	146
Kiboga	63	888	3	0	3	0	0	0	5	0	0	43
Kibuku	73	266	0	0	1	0	0	0	0	0	0	1
Kiruhura	70	1,684	0	0	0	0	0	0	0	0	0	7
Kiryandongo	69	1513(1)	4	0	3	0	0	0	4	0	0	18
Kisoro	76	189	2	0	0	0	0	0	0	0	0	3
Kitgum	57	3,048	18	0	1	0	0	0	0	0	0	36
Koboko	94	1,855	6	0	2	0	0	0	0	0	0	3
Kole	91	1,484	1	0	3	0	0	0	0	0	0	0
Kotido	37	597	32	0	2	0	0	0	0	0	0	70
Kumi	56	871	3	0	2	0	0	0	0	0	0	20
Kween	71	448	0	0	0	0	0	0	1	0	0	14
Kyankwanzi	80	1,058	1	0	0	0	0	0	2	0	0	42
Kyegegwa	87	2,791	0	0	1	0	0	0	3	0	0	3
Kyenjojo	49	572	2	0	2	0	0	0	0	0	0	10
Lamwo	81	3834(1)	3	0	0	0	0	0	0	0	0	0
Lira	72	1,443	13	0	4	0	0	0	4	0	0	26
Luuka	48	1,038	0	0	0	0	0	0	0	0	0	0
Luwero	57	1650(2)	7	0	0	0	0	0	2	0	0	31
Lwengo	74	1,609	3	0	1	0	0	0	2	0	0	32
Lyantonde	60	1,422	6	0	1	0	0	0	2	0	0	32
Manafwa	83	944(2)	5	0	0	0	0	0	0	0	0	2
Maracha	100	2,636	12	0	3	0	0	0	0	0	0	30
Masaka	44	1,197	4	0	0	0	0	0	2	0	0	6
Masindi	58	994	4	0	7	0	0	0	0	0	0	3
Mayuge	54	2,204	6	0	0	0	0	0	0	0	0	1
Mbale	53	904	10	0	1	0	3	0	0	0	0	5
Mbarara	61	1,210	6	0	7	2	0	0	3	0	0	13
Mitooma	58	1,226	1	0	4	0	0	0	0	0	0	2
Mityana	49	2411(1)	3	0	6	0	0	0	11	0	0	1
Moroto	33	778	11	0	6	0	0	0	0	0	0	2
Moyo	98	3,729	30	0	1	0	0	0	0	0	0	25
Mpigi	88	953	0	0	0	0	0	0	0	0	0	3
Mubende	29	2,170	7	0	1	1	0	0	0	0	0	17
Mukono	61	2,336	12	1	4	0	0	0	0	0	0	8
Nakapiripirit	47	906	20	0	1	0	0	0	0	0	0	0
Nakaseke	75	1,604	24	0	5	0	0	0	9	0	0	84
Nakasongola	60	1,315	8	0	4	0	0	0	1	0	0	13
Namayingo	56	1,870	7	0	3	0	0	0	4	0	0	2
Namutumba	56	1,656	1	0	0	0	0	0	2	0	0	3
Napak	79	976(1)	14	0	5	0	0	0	0	0	0	0

Nebbi	84	3,871	15	0	5	0	0	0	2	0	0	7
Ngora	75	673	0	0	0	0	0	0	1	0	0	0
Ntoroko	44	37	0	0	0	0	0	0	0	0	0	0
Ntungamo	25	220	0	0	9	0	0	0	1	0	0	11
Nwoya	78	1,722	2	0	1	0	0	0	0	0	0	0
Otuke	80	428	9	0	2	0	0	0	0	0	0	0
Oyam	61	1,908	1	0	0	0	0	0	0	0	0	0
Pader	41	2,106	22	1	0	0	0	0	0	0	0	5
Pallisa	58	865(1)	4	0	2	0	0	0	0	0	0	10
Rakai	43	3,287	13	0	0	0	0	0	2	0	0	32
Rubirizi	79	583	1	0	0	0	0	0	0	0	0	0
Rukungiri	52	1,291	1	0	6	0	0	0	0	0	0	0
Sembabule	92	2,679	4	0	5	0	0	0	3	0	0	80
Serere	100	1878(2)	11	0	0	1(1)	0	0	0	0	0	4
Sheema	82	902	0	0	0	0	0	0	1	0	0	0
Sironko	77	1,051	5	0	2	0	0	0	0	0	0	0
Soroti	58	3,059	6	0	8	0	0	0	1	0	0	33
Tororo	69	917	5	0	9	0	0	0	0	0	0	1
Wakiso	40	2,483	15	0	4	0	0	0	4	0	0	42
Yumbe	100	3775(1)	9	0	3	0	0	0	0	0	0	9
Zombo	100	1,395	18	0	0	0	0	0	1	0	0	2
<b>National</b>	<b>67.2</b>	<b>177460 (32)</b>	<b>789 (2)</b>	<b>4 (0)</b>	<b>240 (0)</b>	<b>3 (0)</b>	<b>34 (0)</b>	<b>1 (0)</b>	<b>111 (0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>1537 (0)</b>

**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**