



Ministry of Health Uganda

Weekly Epidemiological Bulletin

Highlights of week 23

- 3 cases of Cholera in Kasese district; 157 total
- Upsurge of malaria cases in ten IRS project districts

Summary Table

Indicator	Week 22 2015	Week 23 2015
% Districts	100	100
Ave % HU	59	66
% Timely reports	75	78
AFP	1(0)	4(0)
Rabies	441 (2)	596 (2)
Cholera	0(0)	3(0)
Dysentery	1050 (0)	1138(0)
Guinea Worm	1(0)	1(0)
Malaria	208897 (54)	228179 (51)
Measles	145 (0)	162 (0)
Meningitis	10(3)	4 (0)
NNT	1(1)	1(0)
Plague	1(0)	0(0)
Typhoid	2283 (0)	2382(1)

Completeness of Reporting

All district submitted the weekly reports, with an overall reporting rate improving from 59% to 66%. Forty two (42) districts achieved the set target of 80% (highlighted in yellow), seven of which with a reporting rate of 100% i.e. **Amudat, Bukomansimbi, Dokolo, Koboko, Maracha, Yumbe and Zombo**. Districts with a reporting rate below 50% reporting (highlighted in pink) were 21, with 6% in **Gomba** and 3% in **Pader** districts.

Epidemiological week 23 of 2015 [31st May – 6th June 2015]

Timeliness of reporting

The timeliness improved from 75% in week 22 to 78% in week 23; and districts which achieved the target of 80-100% timeliness were 56 (50%).

Disease Outbreaks

Cholera: The currently ongoing cholera outbreak in Kasese district is under control. In week 23, 3 cholera cases and no death were reported. As of 12 June 2015, a total of 157 suspected/ confirmed cases with 2 deaths (CFR – 1.3%) have been reported. The district continues to mount control interventions.

Measles: The number of measles cases increased from 142 in week 22 to 162 in week 23; an increase of 12%. This may be due to improvement in the reporting rate from 59% to 66%. The number of districts that reported at least one case however has reduced from 46 to 39. Four districts reported 10 or more cases of measles i.e. Kampala (22), Wakiso (16), Kamwenge (12) and Buikwe (10) – **Figure 1**.

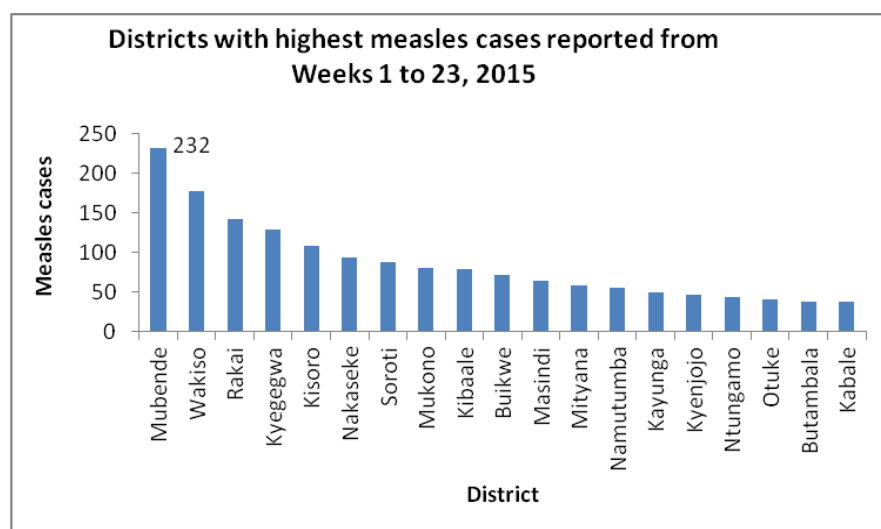


Figure 1: Measles cases from Weeks 1 to 23

Typhoid fever: The typhoid fever outbreak in Kampala City and the surrounding districts has been contained and was officially declared over on 11th June 2015. During the outbreak (that was declared on 19 February 2015), a total of 14,304 suspected cases were registered in six designated treatment centers, of which 10,230 met the case definition for typhoid fever. A total of 1,090 cases were laboratory confirmed; 52 cases by blood culture and 1,038 by Tubex. The most affected divisions were Makindye and Rubaga (**Figure 3**).

Other priority diseases

AFP: One case of AFP was reported from Amuru district. The reported AFP case is being investigated.

Rabies: Eighty one districts reported one or more cases of animal bites as a proxy for rabies. The number of districts that reported 10 or more cases remained the same as that in week 22 i.e. 14 districts. However, there was a 34% increase in the number of animal bites in week 23 compared to week 22.

Dysentery: Up to 88% (n=98) of districts reported at least one case of dysentery with 50 districts reporting ≥ 10 cases (**Figure 2**). The highest number of reported cases was in Kabong (59), Kotido (52) and Bukwo (46).

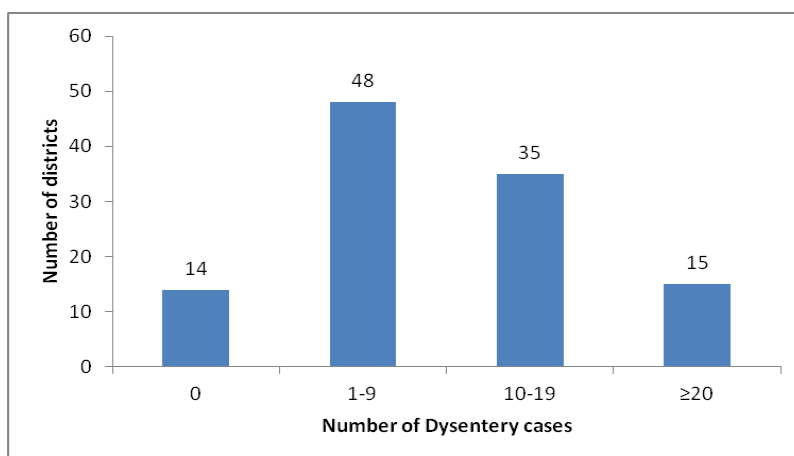


Figure 2: Number of dysentery cases by number of districts

Meningitis: Four cases of Meningitis were reported from two districts i.e. Kabarole and Hoima. Compared to week 22, there was a 60% reduction in the number of reported cases.

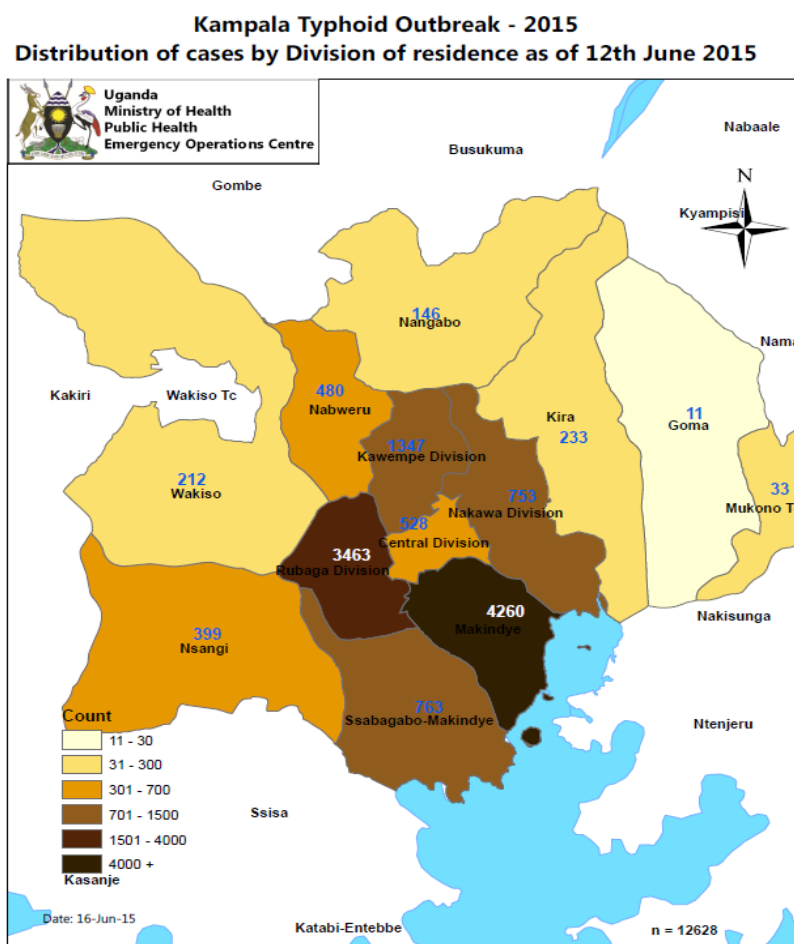


Figure 3: Typhoid cases treated by 12th June 2015 in Kampala by area of residence

Malaria: The number of reported malaria cases in the country increased by 9% as compared to week 22. This may be a reflection in the increase in the proportion of health units reporting from 59% in week 22 to 66% in week 23. The number of districts that reported more than 3,000 malaria cases increased from 18 in week 22 to 26 in week 23, an increase of 44%. The highest number of cases was registered in Arua (6,715), Gulu (5,853) and Kasese (5,471). Gulu and nine other former IRS project districts are reporting an upsurge of cases ([Figure 4 below](#)); although Amuru and Pader have very low reporting levels, <10% which is not representative.

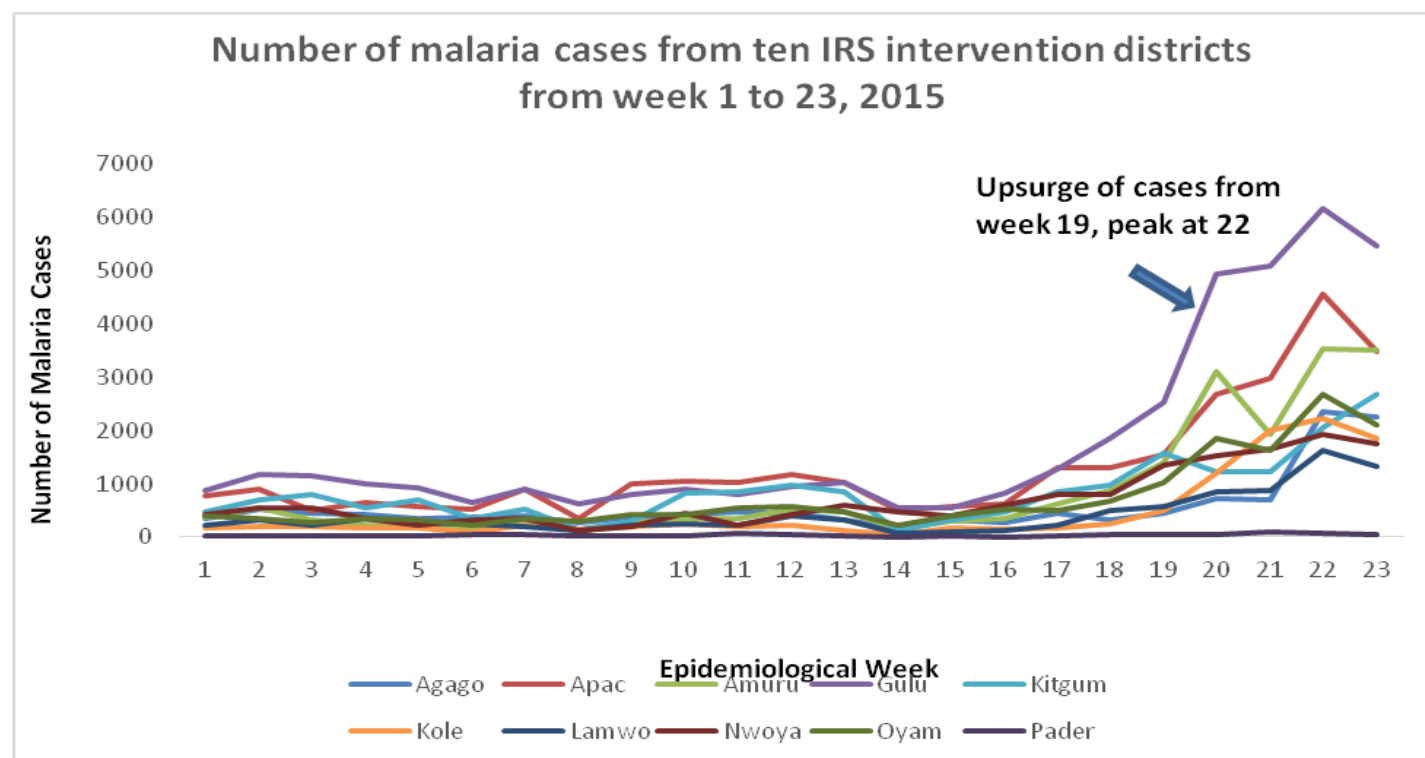


Figure 4: Upsurge of malaria cases in ten IRS districts from week19 to week 22

Neonatal tetanus: One case of neonatal tetanus was reported from Gulu district. The N-STOP team presented the findings of the investigations of the cases of NNT reported in the first five months of 2015 and more than 80% of such cases were falsely categorized as such. Additional efforts to verify all cases reported after this exercise are again underway.

Human Influenza: From the 17 samples collected by the Makerere University Walter Reed Influenza Surveillance Project from sentinel surveillance sites for ILI, none was positive. Since the year started, 343 samples have been collected and only 3 (0.9%) Influenza B viruses have been isolated.

Guinea worm: One case was reported in Hoima District, not a known endemic district. The GWEP is investigating the reported case.

Maternal deaths: In week 23, 66% of health facilities reported about maternal deaths. Seven maternal deaths were reported (details in **Table 1**). There have been challenges with the data entry of maternal deaths at several facilities which have been shared with the respective DHOs and district biostatisticians for verification.

Table 1: Maternal and perinatal deaths reported in different health facilities in week 23, 2015

District	Facility	Maternal Deaths	Perinatal Deaths
Nakapiripirit	Tokora HC IV	1	2
Kasese	Nyamirami HC IV	1	0
Kabarole	Bukuku HC IV	1	0
Sironko	Budadiri HC IV	1	2
Mubende	Mubende Regional Referral Hospital	2	0
Zombo	Nyapea General Hospital	1	0

Ongoing and Upcoming Events

Developing Surveillance System for Hepatitis B: Uganda has received several reports of increased incidence of Hepatitis B virus disease. Funding has been allocated to a comprehensive response plan and setting up systems to control the disease. The surveillance Technical Working Group has embarked on this assignment. The planned activities will be shared in due course.

Monitoring Refugee Health: In response to the on-going civil unrest in Burundi, an influx of refugees into Isingiro district, Uganda was noted and a team was sent to assess the rapid public health needs in the camps. Recommendations have been shared with top management MOH and OPM but surveillance for health events

IDSR Training in Eastern Uganda Districts: From 22 – 26th June, health workers from twelve districts will be trained in IDSR and there will be orientation of the District Rapid Response Teams and the District Task Forces. The districts are: Mbale, Bukwo, Kapchorwa, Butaleja, Busia, Kween, Budaka, Bududa, Sironko, Pallisa, Tororo and Kibuku.

International Health Events:

Human influenza:

Incidence of influenza had reduced globally. Data from National Influenza Centres (NICs) and other national influenza laboratories in 83 countries, and WHO GISRS laboratories from 3 to 16 May 2015 tested more than 39,635 specimens. 2980 were positive for influenza viruses, of which 1044 (35 percent) were typed as influenza A and 1936 (65 percent) as influenza B. Of the sub-typed influenza A viruses, 359 (47%) were influenza A(H1N1) and 412 (53%) were influenza A(H3N2). Of the characterized B viruses, 155 (95%) belonged to the B-Yamagata lineage and 8 (5%) to the B-Victoria lineage. **Sources:** Promed mail &

http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/

Highly Pathogenic Influenza A H1N1 in Poultry:

Reported on 12th June in Nogardan, Mazandaran province, Iran among free range birds; 17 deaths out of 19 cases, while 8 susceptible ones have been destroyed. No spread to humans yet.

Influenza A H3N7:

In China, 15 cases and 3 deaths have occurred. WHO notes that illness-onset dates range from 19 Apr-22 May 2015, and all of the cases involved exposure to poultry environments. The ages of patients range from 3 to 77 years, and 8 of the people are male. the cases were from Anhui (4), Zhejiang (4), Jiangsu (3), Beijing (1), Fujian (1), Hubei (1), and Jiangxi (1).

Middle East Respiratory Syndrome Coronavirus (MERS-CoV):

South Korea: total of 162 cases: 8 new cases; 0 deaths. 124 currently receiving treatment (77%), 19 discharged (12%), 19 dead (12%). - Of the 124 receiving treatment: 106 (85%), in stable condition and 18 (15 %) reportedly unstable. – Nosocomial virus transmission among 76 and 58 had in-facility contact while visiting family, and 28 are of hospital personnel.

Saudi Arabia: 0 new cases, 1 new death

UAE: 1 new case – WHO report of 16 Jun 2015

Recommended action: Healthcare workers are urged to look out for cases of SARI or severe pneumonia requiring hospitalization especially among international travelers from the Middle East. These cases should be isolated immediately and reported to NIC-UVRI [0752650251 or 0772477016] for immediate investigation.

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Summary table for epidemiological reports received for week ending 6th June 2015

(Numbers in brackets indicate deaths)

District	% of H/U reporting	AFP	Animal bite (Suspected Rabies)	Cholera	Dysentery	Guinea Worm	Malaria	Measles	Meningitis	NNT	Plague	Typhoid Fever
Abim	84	0	3	0	22	0	1571	0	0	0	0	2
Adjumani	89	0	3	0	37	0	4547(2)	0	0	0	0	1
Agago	94	0	4	0	25	0	2254	0	0	0	0	9
Alebtong	64	0	3	0	4	0	721	0	0	0	0	2
Amolatar	92	0	1	0	5	0	895	0	0	0	0	5
Amudat	100	0	0	0	11	0	870	0	0	0	0	5
Amuria	79	0	7	0	6	0	4035(2)	2	0	0	0	3
Amuru	81	1	0	0	15	0	3502(1)	0	0	0	0	8
Apac	88	0	1	0	0	0	3481	0	0	0	0	1
Arua	97	0	20(1)	0	25	0	6715(11)	1	0	0	0	70
Budaka	38	0	0	0	3	0	617	0	0	0	0	0
Bududa	67	0	4	0	3	0	1120(1)	0	0	0	0	4
Bugiri	33	0	3	0	7	0	956	1	0	0	0	3
Buhweju	60	0	0	0	0	0	188	0	0	0	0	1
Buikwe	76	0	10	0	22	0	3631	10	0	0	0	50
Bukedea	36	0	1	0	2	0	670	0	0	0	0	4
Bukomansimbi	100	0	0	0	4	0	1104	1	0	0	0	7
Bukwo	88	0	11	0	46	0	500	0	0	0	0	51
Bulambuli	75	0	1	0	0	0	1041	0	0	0	0	0
Buliisa	90	0	0	0	13	0	1195	0	0	0	0	15
Bundibugyo	90	1	4	0	17	0	2949(1)	0	0	0	0	35
Bushenyi	49	0	8	0	1	0	823	0	0	0	0	14
Busia	50	0	3(1)	0	6	0	2294	0	0	0	0	1
Butaleja	71	0	3	0	12	0	2089(1)	0	0	0	0	10
Butambala	96	0	2	0	5	0	1589	3	0	0	0	21
Buvuma	73	0	2	0	14	0	625	2	0	0	0	1
Buyende	80	0	2	0	0	0	1642	0	0	0	0	0
Dokolo	100	0	2	0	1	0	2058	0	0	0	0	6
Gomba	6	0	0	0	0	0	49	0	0	0	0	0
Gulu	94	0	5	0	34	0	5471	2	0	1	0	70
Hoima	91	0	8	0	34	1	5239(1)	1	1	0	0	67
Ibanda	54	0	4	0	1	0	2391	0	0	0	0	1
Iganga	64	0	1	0	1	0	4776(3)	0	0	0	0	0
Isingiro	81	0	1	0	7	0	3107	0	0	0	0	37
Jinja	23	0	3	0	6	0	1957	0	0	0	0	14
Kaabong	89	0	12	0	59	0	3485	1	0	0	0	15
Kabale	82	0	3	0	0	0	374	0	0	0	0	0
Kabarole	82	0	14	0	12	0	3313	3	2	0	0	42
Kaberamaido	33	0	2	0	3	0	1362	0	0	0	0	1
Kalangala	77	0	0	0	21	0	416	1	0	0	0	8
Kaliro	55	0	2	0	2	0	1864(1)	0	0	0	0	16
Kalungu	60	0	0	0	4	0	1307	4	0	0	0	34
Kampala	58	0	12	0	29	0	3572	22	0	0	0	310
Kamuli	53	0	4	0	8	0	3279	0	0	0	0	9
Kamwenge	81	0	0	0	7	0	3552(1)	12	0	0	0	0
Kanungu	61	0	0	0	2	0	1243	0	0	0	0	57
Kapchorwa	88	0	13	0	19	0	903	0	0	0	0	6

District	% of H/U reporting	AFP	Animal bite (Suspected Rabies)	Cholera	Dysentery	Guinea Worm	Malaria	Measles	Meningitis	NNT	Plague	Typhoid Fever
Kasese	69	0	3	3(0)	11	0	5853	2	0	0	0	31
Katakwi	36	0	0	0	4	0	1589	0	0	0	0	0
Kayunga	71	0	3	0	8	0	2595(4)	0	0	0	0	3
Kibaale	78	0	4	0	18	0	4470	3	0	0	0	164
Kiboga	67	0	0	0	0	0	802	0	0	0	0	23
Kibuku	62	0	1	0	0	0	575	0	0	0	0	7
Kiruhura	68	0	5	0	1	0	1631	6	0	0	0	3
Kiryandongo	72	2	0	0	3	0	2440(1)	2	0	0	0	9
Kisoro	97	0	1	0	1	0	259	2	0	0	0	4
Kitgum	57	0	7	0	15	0	2694(3)	0	0	0	0	26
Koboko	100	0	1	0	1	0	2578	0	0	0	0	4
Kole	92	0	2	0	1	0	1859	0	0	0	0	0
Kotido	29	0	1	0	52	0	813	0	0	0	0	65
Kumi	52	0	5	0	10	0	2523	0	1	0	0	28
Kween	88	0	2	0	10	0	693	0	0	0	0	4
Kyankwanzi	67	0	0	0	1	0	1538(1)	0	0	0	0	18
Kyegegwa	93	0	0	0	1	0	3019	2	0	0	0	3
Kyenjojo	65	0	6	0	12	0	2670	6	0	0	0	22
Lamwo	80	0	1	0	0	0	1340	0	0	0	0	0
Lira	48	0	0	0	7	0	1715(2)	0	0	0	0	8
Luuka	43	0	0	0	0	0	1207	0	0	0	0	0
Luwero	73	0	6	0	16	0	3092	5	0	0	0	98
Lwengo	26	0	0	0	0	0	363	1	0	0	0	21
Lyantonde	41	0	0	0	1	0	660	2	0	0	0	87
Manafwa	83	0	0	0	10	0	2016(2)	0	0	0	0	35(1)
Maracha	100	0	1	0	14	0	2397	0	0	0	0	25
Masaka	71	0	0	0	2	0	1315(2)	3	0	0	0	9
Masindi	92	0	17	0	13	0	3094	0	0	0	0	8
Mayuge	43	0	2	0	15	0	1542	3	0	0	0	2
Mbale	69	0	0	0	6	0	2376	0	0	0	0	10
Mbarara	74	0	9	0	5	0	1298	2	0	0	0	44
Mitooma	72	0	3	0	1	0	1116	0	0	0	0	0
Mityana	64	0	6	0	8	0	3474(1)	3	0	0	0	6
Moroto	93	0	14	0	28	0	1705(1)	0	0	0	0	23
Moyo	98	0	4	0	19	0	4505	0	0	0	0	51
Mpigi	81	0	1	0	2	0	1872	0	0	0	0	6
Mubende	14	0	14	0	5	0	644	4	0	0	0	47
Mukono	77	0	4	0	13	0	2640	2	0	0	0	31
Nakapiripirit	77	0	6	0	24	0	1641	0	0	0	0	19
Nakaseke	70	0	1	0	12	0	1320	8	0	0	0	14
Nakasongola	46	0	0	0	11	0	869	2	0	0	0	36
Namayingo	14	0	0	0	10	0	248	0	0	0	0	0
Namutumba	82	0	1	0	18	0	2781	3	0	0	0	12
Napak	75	0	6	0	20	0	1089	0	0	0	0	0
Nebbi	89	0	10	0	29	0	3924(1)	0	0	0	0	18
Ngora	50	0	0	0	2	0	1325	0	0	0	0	0
Ntoroko	78	0	0	0	3	0	471	6	0	0	0	6
Ntungamo	37	0	7	0	1	0	407	0	0	0	0	5

District	% of H/U reporting	AFP	Animal bite (Suspected Rabies)	Cholera	Dysentery	Guinea Worm	Malaria	Measles	Meningitis	NNT	Plague	Typhoid Fever
Nwoya	95	0	3	0	1	0	1765	0	0	0	0	0
Otuke	92	0	1	0	2	0	1426(1)	0	0	0	0	8
Oyam	68	0	12	0	6	0	2115(3)	0	0	0	0	4
Pader	3	0	0	0	0	0	54	0	0	0	0	0
Pallisa	63	0	1	0	11	0	2253(3)	0	0	0	0	15
Rakai	34	0	0	0	15	0	2897	4	0	0	0	7
Rubirizi	88	0	0	0	2	0	1207	0	0	0	0	10
Rukungiri	59	0	7	0	4	0	1195	5	0	0	0	4
Sembabule	63	0	1	0	10	0	1585	0	0	0	0	59
Serere	64	0	1	0	12	0	1690	0	0	0	0	0
Sheema	53	0	2	0	0	0	1074	0	0	0	0	5
Sironko	59	0	0	0	0	0	2012	0	0	0	0	0
Soroti	45	0	12	0	19	0	3606	0	0	0	0	33
Tororo	52	0	10	0	10	0	2923	0	0	0	0	22
Wakiso	53	0	7	0	18	0	4645	16	0	0	0	154
Yumbe	100	0	2	0	14	0	4011(1)	0	0	0	0	6
Zombo	100	0	1	0	15	0	1332	4	0	0	0	4
National	66	4(0)	596(2)	3(0)	1138 (0)	1(0)	228179 (51)	162 (0)	4 (0)	1(0)	0	2382 (1)

HU= Health Units, AFP=Acute Flaccid Paralysis, NNT=Neonatal Tetanus
Compiled by the Epidemiological Surveillance Division, Ministry of Health