



Ministry of Health Uganda

Weekly Epidemiological Bulletin

Summary Table

Indicator	Week 16 2015	Week 17 2015
% Districts	100	100
Ave % HU	56	61
% Timely reports	81	76
AFP	13(0)	5(0)
Rabies	389(0)	434(1)
Cholera	6(0)	14(0)
Dysentery	1005(0)	1174(0)
Guinea Worm	0(0)	2(0)
Malaria	107028 (40)	132767 (42)
Measles	253(0)	270 (1)
Meningitis	4(0)	3(0)
NNT	0(0)	1(1)
Plague	0(0)	0(0)
Typhoid	1527(2)	2060(1)

Completeness of Reporting

All districts (100%) reported; improvement in completeness from 56% (week 16) to 61% was noted. **34 districts had 80% or more of the health units reporting** (highlighted in yellow in summary table). **Yumbe, Maracha, Moyo, Koboko, Napak and Nwoya** had **100%** completeness. Consistently, the districts in the northern region have better reporting rates compared to other regions. Kampala and Pader, had less than 9% of the units reporting; followed by Kaberamaido and Mubende with less than 20% (districts with <50% are highlighted in pink)

Timeliness

At national level, 76% (1819 out of 2397) health facilities submitted timely reports. Up to 51 districts had 80-100% of their facilities reporting timely.

Epidemiological week 17 Of 2015 [19-25 April 2015]

Disease Outbreaks

Typhoid fever: The typhoid fever outbreak started in week 48 of 2014. By 4th May, up to **12,858 typhoid** cases had been recorded at the six treatment centres in Kampala district. Cleaning and analysis of the entered data (up to 4th May) was done and **7426 cases (52% males) meet the case definition**. In week 17 (20-26th April), **25 districts** exceeded the epidemic threshold of 20 cases per week. Kampala, Wakiso, Luwero and Bukwo reported higher numbers. **Four teams**, each with an epidemiologist, clinician, biostatistician, environmental health and laboratory technologist went to eight districts in central, western, eastern and West Nile regions to further verify high number of typhoid cases reported in selected districts.

Cholera: **Kasese** and **Bundibugyo** Districts reported 10 and 4 cases respectively. The cholera outbreak started on **14/03/2015** and by **4th May, 81 cases (51% males), 1 death (CFR 1.2%)** had been reported. The cholera treatment center was established in Bwera Hospital and of the 42 stool samples collected and tested at Bwera Hospital laboratory, 38 were positive and *Vibrio cholera inaba* was isolated. Children 0-15 years of age (53%) were the most affected. **Mpondwe MLTC (Nyabugando Parish, 21), Karambi and Kitholho** were the most affected sub-counties. A support team is in the district to contribute to the control efforts.

Measles: Incidence rate of measles infection per 1,000,000 population is **2.25 and 28 districts** have an incidence rate of >1 per 1,000,000 total population; majority of which are in western Uganda. Since May 2014, OPD measles data shows that the number of cases reported increased and peaked in November 2014, and has exceeded this peak in March 2015 (**Figure 1**). This week, **45 districts** reported at least one case but **90%** of the samples submitted to UVRI were **Rubella positive**, only 10% were measles. The majority of the **Rubella** cases were >2 (**Figure 2**). Over 50% of lab confirmed measles cases are not vaccinated - this includes both zero **doses and unknown vaccination status**.

Other priority diseases

AFP: Mitooma, Butambala, Nwoya, Kapchorwa and Bundibugyo reported a case each. These districts have achieved a target of reporting at least two cases a year.

Rabies: There was 11.5% increase in number of cases reported. Out of 81 districts which reported at least one case of animal bites as a proxy for rabies, 11 districts had ten or more cases. Wakiso district (45) reported the highest number of cases Koboko reported one death. All these districts should **investigate the cases**, provide detailed **reports of animal bites without provocation**.

Dysentery: Although 97 districts reported at least a case of dysentery, 41 districts with 10 or more cases should conduct detailed **laboratory investigation** to rule out epidemic dysentery due to **Shigella**.

Malaria: The increased cases reported matched the increase in reporting rates by health units. Districts with more than 3000 cases this week were: Arua (6194), Wakiso (4145), Kasese (4143), Nebbi (3586), Kamuli (3445) and Iganga (3155). Malaria testing and treatment analysis shows a wide gap between number of suspect and positive cases by RDT or microscopy (**Figure 3**). More ACTs were dispensed compared to the number of malaria cases treated (**Figure 4**).

Neonatal tetanus: Hoima district reported the one case and death.

Human Influenza: The UVRI National Influenza Centre data from sentinel surveillance sites for ILI shows that from the start of the year, only 3 out of 246 samples (average of 14 samples collected per week) were positive for Influenza B virus. In week 17, 17 suspect samples were collected but none was positive.

Guinea worm: One case each was reported in Amuria and Kitgum districts. The Guinea Worm control program was informed to investigate, but results are not yet available.

Maternal deaths: In week 17, 2309 out of 3823 (60.3%) health facilities reported about maternal deaths. A total of 15 maternal and 18 perinatal deaths were reported compared to 14 maternal, 29 perinatal deaths in week 16 and 9 maternal, 9 perinatal deaths in week 15. Hoima RRH, Jinja RRH and Kitayunjwa HC III reported two cases each this week.

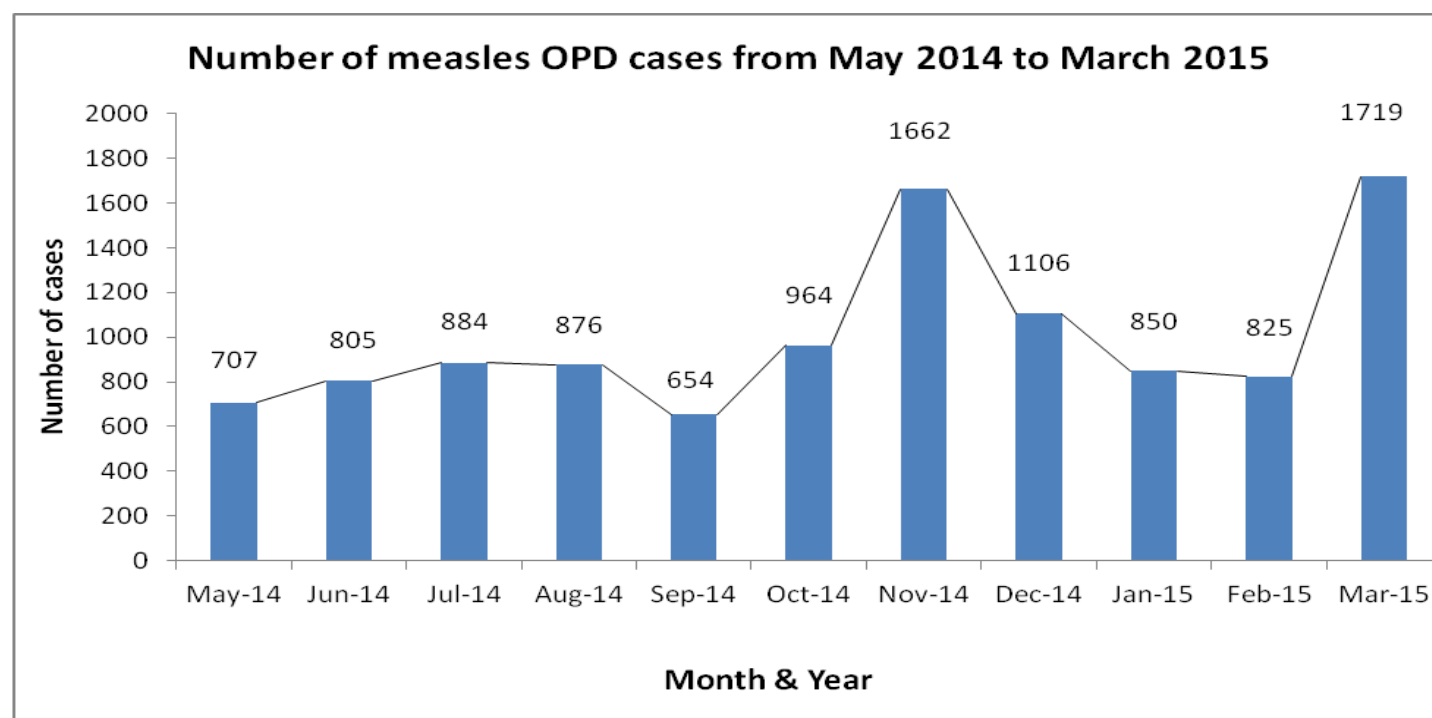


Figure 1: Trend of OPD measles monthly cases from May 2014 to March 2015

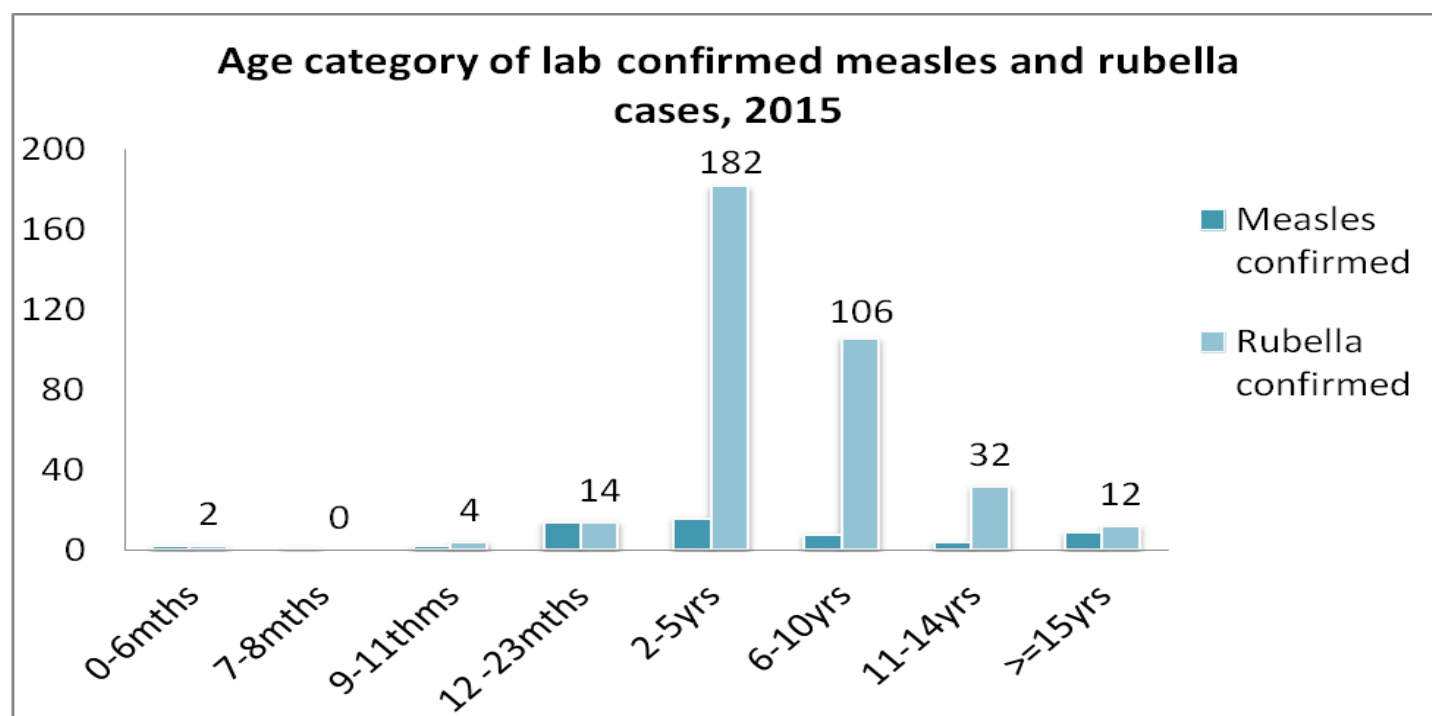


Figure 2: Age category of Measles and Rubella laboratory confirmed cases, 2015

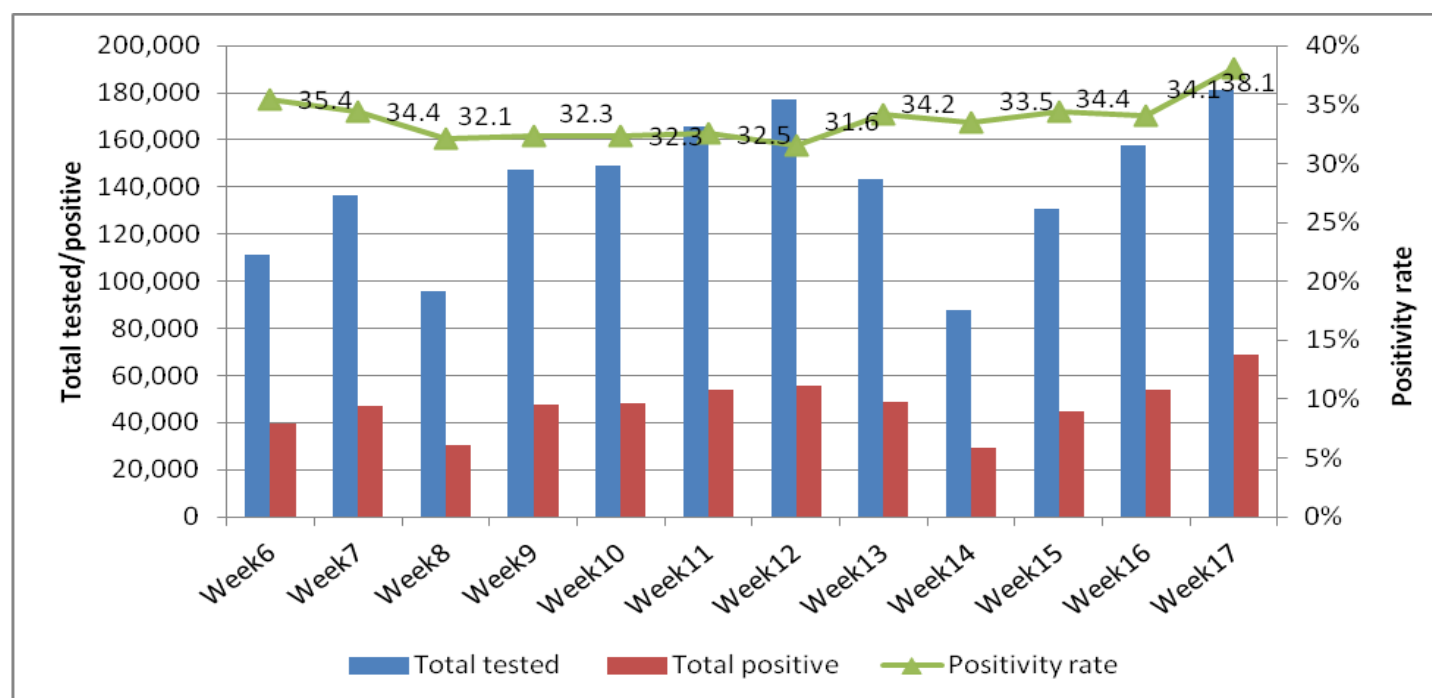


Figure 3: Comparison of malaria suspected cases, RDT positive and testing rate in week 17

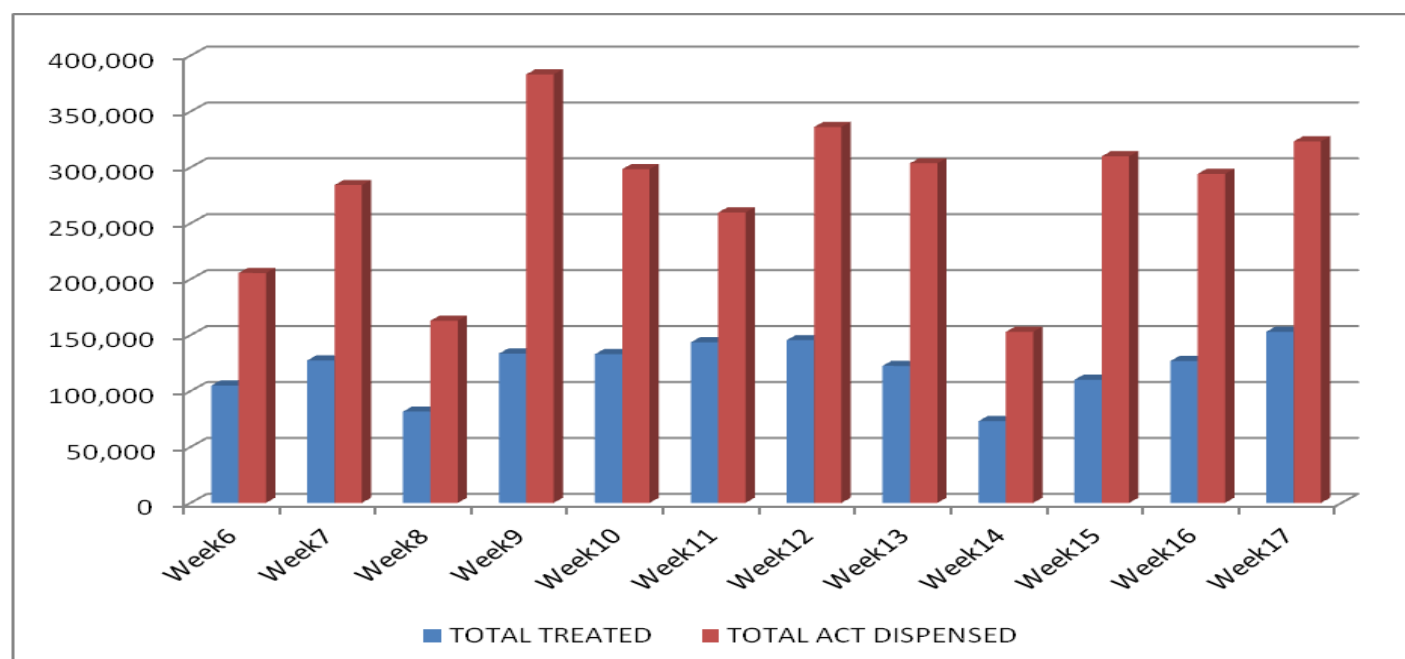


Figure 4: Comparison of malaria cases treated and total Artemisinin Combination Therapy (ACTs) dispensed

Summary table for epidemiological reports received for week ending 25th April 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	68	0	5	0	11	0	574	0	0	0	0	0
Adjumani	86	0	1	0	21	0	1987(2)	0	0	0	0	0
Agago	79	0	2	0	28	0	439	0	0	0	0	0
Alebtong	57	0	5	0	0	0	371	0	0	0	0	2
Amolatar	92	0	0	0	5	0	471	0	0	0	0	2
Amudat	88	0	2	0	27	0	346	0	0	0	0	3
Amuria	65	0	1	0	1	1	1428	0	0	0	0	0
Amuru	55	0	5	0	8	0	619	0	0	0	0	6
Apac	84	0	14	0	2	0	1296	0	0	0	0	0
Arua	97	0	2	0	52	0	6194(3)	4	0	0	0	98
Budaka	44	0	4	0	3	0	604	0	0	0	0	1
Bududa	87	0	0	0	11	0	1030(1)	0	0	0	0	5
Bugiri	23	0	4	0	4	0	1035	0	0	0	0	11
Buhweju	47	0	6	0	0	0	162	0	0	0	0	0
Buikwe	34	0	9	0	10	0	751	0	0	0	0	21
Bukedea	46	0	17	0	2	0	152	0	0	0	0	0
Bukomansimbi	82	0	1	0	2	0	405	10	0	0	0	5
Bukwo	87	0	0	0	28	0	356	0	0	0	0	51
Bulambuli	75	0	0	0	0	0	669	0	0	0	0	0
Buliisa	90	0	3	0	6	0	518	0	0	0	0	4
Bundibugyo	86	1	7	4	40	0	2174	0	0	0	0	17
Bushenyi	49	0	3	0	0	0	898(1)	1	0	0	0	17
Busia	54	0	1	0	9	0	2409	3	0	0	0	42
Butaleja	63	0	2	0	4	0	1873(1)	0	0	0	0	1
Butambala	96	1	8	0	8	0	863	2	0	0	0	21
Buvuma	82	0	3	0	9	0	238	3	1	0	0	5
Buyende	70	0	2	0	5	0	680	0	0	0	0	0
Dokolo	94	0	6	0	5	0	872	0	0	0	0	5
Gomba	83	0	5	0	10	0	568	0	0	0	0	1
Gulu	77	0	0	0	62	0	1270	0	0	0	0	94
Hoima	78	0	0	0	55	0	2567(4)	4	0	1	0	61
Ibanda	50	0	3	0	0	0	2038	0	0	0	0	3
Iganga	57	0	2	0	6	0	3155	0	0	0	0	0
Isingiro	78	0	3	0	0	0	2188(1)	0	0	0	0	23
Jinja	34	0	8	0	26	0	2099(3)	2	0	0	0	13
Kaabong	52	0	9(1)	0	15	0	984	0	0	0	0	0
Kabale	88	0	0	0	2	0	255	0	0	0	0	0
Kabarole	84	0	1	0	3	0	2658(3)	8	1	0	0	18
Kaberamaido	19	0	0	0	0	0	306	0	0	0	0	1
Kalangala	64	0	0	0	4	0	178	0	0	0	0	3
Kaliro	25	0	0	0	0	0	338	0	0	0	0	0
Kalungu	55	0	2	0	1	0	359	5	0	0	0	6
Kampala	7	0	3	0	5	0	718	14	0	0	0	359
Kamuli	51	0	3	0	5	0	3445	1	0	0	0	1
Kamwenge	58	0	1	0	6	0	1747	7	0	0	0	4
Kanungu	65	0	0	0	6	0	774	11	0	0	0	58
Kapchorwa	94	1	9	0	29	0	918	0	0	0	0	2

District	% of H/U reporting	AFP	Animal bite (Suspected Rabies)	Cholera	Dysentery	Guinea Worm	Malaria	Measles	Meningitis	NNT	Plague	Typhoid Fever
Kasese	79	0	0	10	11	0	4153(1)	26	0	0	0	8
Katakwi	55	0	2	0	3	0	1155	0	0	0	0	0
Kayunga	88	0	0	0	19	0	1831(2)	1	0	0	0	8
Kibaale	66	0	3	0	21	0	1438	14	0	0	0	70(1)
Kiboga	71	0	0	0	3	0	356	3	0	0	0	7
Kibuku	46	0	17	0	2	0	309	0	0	0	0	0
Kiruhura	82	0	1	0	0	0	1888	5	0	0	0	3
Kiryandongo	60	0	14	0	7	0	809	3	0	0	0	18
Kisoro	92	0	14	0	1	0	296(1)	0	0	0	0	6
Kitgum	57	0	1	0	18	1	852	0	0	0	0	19
Koboko	100	0	9	0	9	0	2065	1	0	0	0	7
Kole	83	0	10	0	1	0	178	0	0	0	0	0
Kotido	41	0	1	0	50	0	759	0	0	0	0	71
Kumi	64	0	1	0	3	0	1225	0	0	0	0	23
Kween	88	0	5	0	10	0	478	0	0	0	0	8
Kyankwanzi	29	0	10	0	1	0	208	0	0	0	0	7
Kyegegwa	67	0	5	0	1	0	978	4	0	0	0	3
Kyenjojo	50	0	8	0	5	0	634	1	0	0	0	4
Lamwo	90	0	1	0	0	0	234	0	0	0	0	0
Lira	63	0	0	0	11	0	779(1)	0	0	0	0	15
Luuka	32	0	0	0	0	0	531	0	0	0	0	0
Luwero	55	0	5	0	12	0	1072	4	1	0	0	61
Lwengo	26	0	18	0	0	0	200	2	0	0	0	13
Lyantonde	56	0	0	0	1	0	635	5	0	0	0	93
Manafwa	70	0	1	0	24	0	1372(2)	0	0	0	0	24
Maracha	100	0	9	0	19	0	2845(1)	0	0	0	0	25
Masaka	65	0	1	0	1	0	689(5)	7	0	0	0	7
Masindi	74	0	1	0	22	0	1434	2	0	0	0	0
Mayuge	31	0	5	0	11	0	921	0	0	0	0	1
Mbale	71	0	0	0	7	0	1563	1	0	0	0	8
Mbarara	83	0	5	0	13	0	1366	5	0	0	0	31
Mitooma	64	1	0	0	1	0	1096	15	0	0	0	2
Mityana	51	0	0	0	10	0	1638	12	0	0	0	9
Moroto	64	0	4	0	30	0	949	0	0	0	0	5
Moyo	100	0	1	0	13	0	2741	0	0	0	0	21
Mpigi	78	0	1	0	2	0	1004	0	0	0	0	20
Mubende	13	0	1	0	9	0	336	9(1)	0	0	0	32
Mukono	67	0	0	0	16	0	1868	2	0	0	0	19
Nakapiripirit	71	0	4	0	27	0	699	0	0	0	0	8
Nakaseke	70	0	8	0	14	0	704	17	0	0	0	28
Nakasongola	27	0	45	0	13	0	359	2	0	0	0	10
Namayingo	24	0	9	0	8	0	845	0	0	0	0	7
Namutumba	21	0	1	0	2	0	392	1	0	0	0	0
Napak	100	0	5	0	20	0	960	0	0	0	0	0
Nebbi	86	0	1	0	44	0	3586(2)	2	0	0	0	28
Ngora	33	0	2	0	1	0	405	0	0	0	0	1
Ntoroko	67	0	5	0	8	0	261	6	0	0	0	8
Ntungamo	54	0	0	0	4	0	705(1)	7	0	0	0	3

District	% of H/U reporting	AFP	Animal bite (Suspected Rabies)	Cholera	Dysentery	Guinea Worm	Malaria	Measles	Meningitis	NNT	Plague	Typhoid Fever
Nwoya	100	1	2	0	5	0	814	0	0	0	0	0
Otuke	92	0	1	0	0	0	289(1)	0	0	0	0	7
Oyam	72	0	5	0	10	0	501(1)	0	0	0	0	8
Pader	6	0	14	0	0	0	16	0	0	0	0	0
Pallisa	57	0	2	0	8	0	1806(1)	0	0	0	0	25
Rakai	37	0	4	0	9	0	1717	11	0	0	0	31
Rubirizi	94	0	0	0	0	0	761	0	0	0	0	7
Rukungiri	67	0	4	0	1	0	1386	4	0	0	0	2
Sembabule	75	0	6	0	7	0	1207	0	0	0	0	57
Serere	68	0	9	0	6	0	998	0	1	0	0	0
Sheema	53	0	17	0	0	0	758	0	0	0	0	0
Sironko	79	0	1	0	1	0	2231	0	0	0	0	0
Soroti	74	0	0	0	9	0	1958(2)	1	0	0	0	16
Tororo	53	0	0	0	1	0	1984	0	0	0	0	18
Wakiso	64	0	3	0	29	0	4545	31	0	0	0	168
Yumbe	100	0	7	0	29	0	2619	0	0	0	0	14
Zombo	95	0	3	0	15	0	1397(2)	0	0	0	0	2
National	61	5(0)	434(0)	14(0)	1174(0)	2(0)	132767 (42)	270(1)	3(0)	1(1)	0(0)	2060(1)

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