



Republic of Kenya
Ministry of Public Health and Sanitation

WEEKLY EPIDEMIOLOGICAL BULLETIN

Week 26

Week ending 4th July 2010

Provincial & national surveillance indicators for week 26

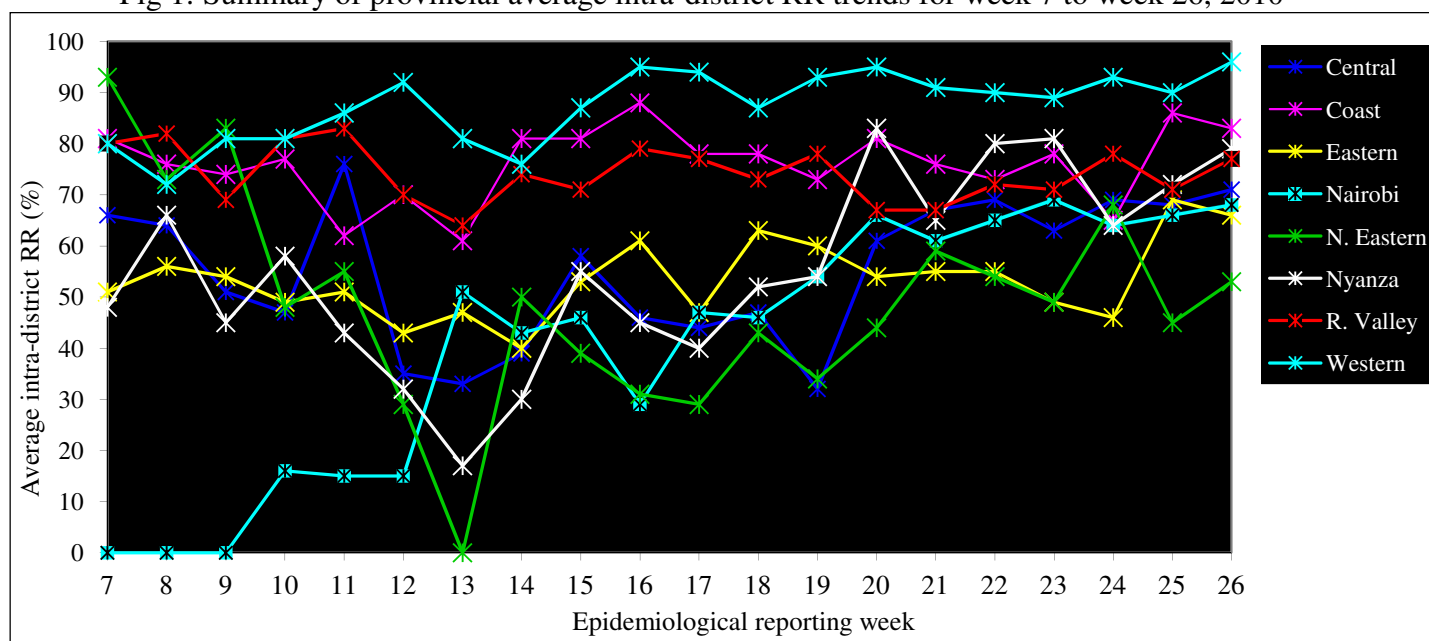
Province	No. of Districts	Reporting on time	Complete reports	Intra-district facility RR (%)	Timeliness (%)	Completeness of reports (%)	Weighted aggregate score (%)
Central	11	11	11	71	100	100	90
Coast	13	13	13	83	100	100	94
Eastern	28	28	28	66	100	100	89
Nairobi	3	3	3	68	100	100	89
N. Eastern	11	10	10	53	91	100	80
Nyanza	21	21	21	79	100	100	93
R. Valley	43	43	43	77	100	100	92
Western	19	19	19	96	100	100	99
National	149	148	148	75	99	100	91

✦ The national average district reporting rate rose markedly to 99%

✦ The national weighted aggregate score also rose to 91%

✦ All provinces except North Eastern attained 100% district reporting rate in week 26

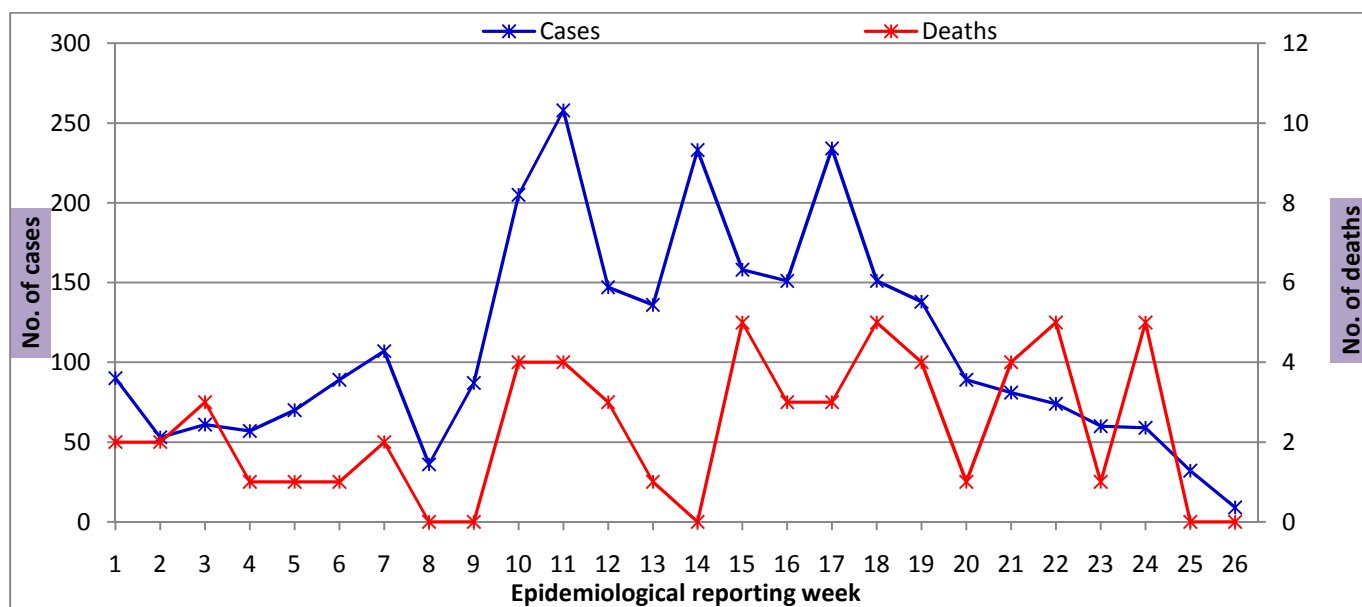
Fig 1: Summary of provincial average intra-district RR trends for week 7 to week 26, 2010



Reports not received from the following District

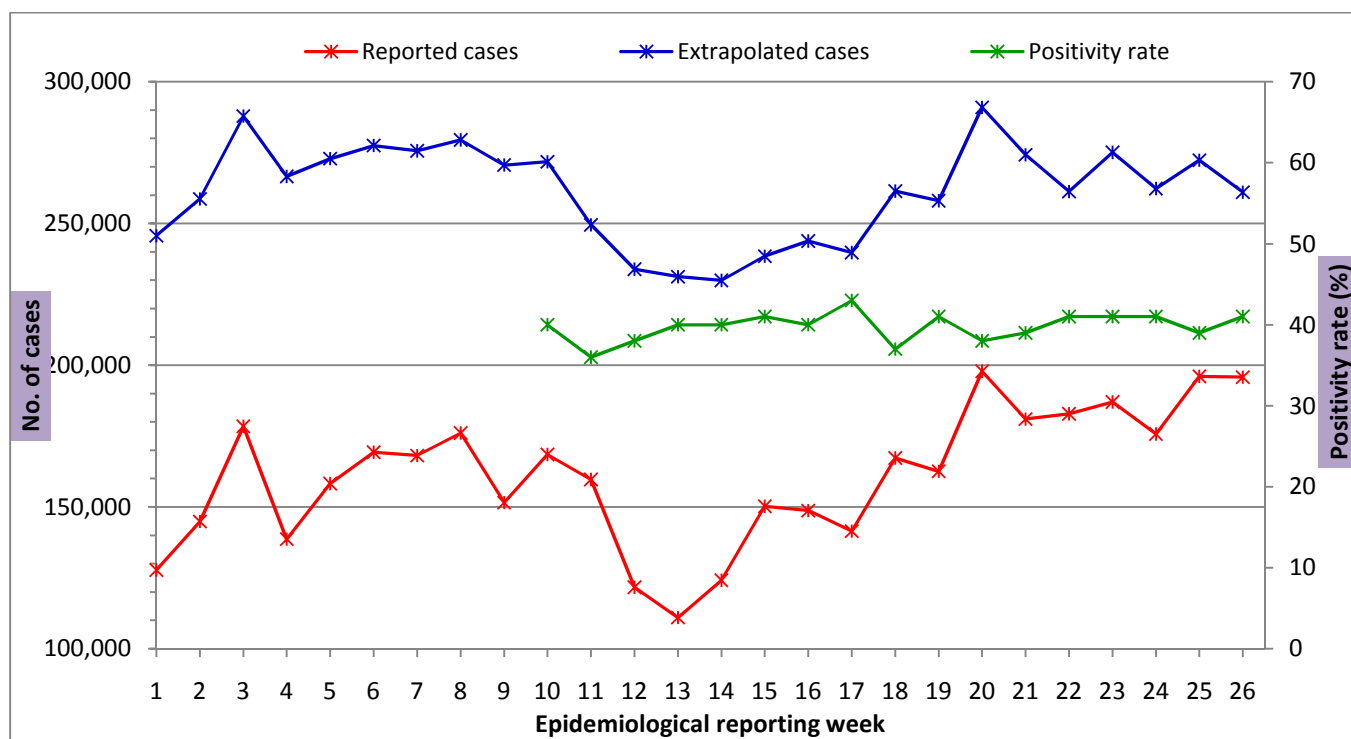
Wajir West

Fig. 2: Cholera** cases and deaths from week 1 to week 26



** Derived from daily updates (line-lists and active DDSR inquiry). A national DDSR officer calls districts in cholera outbreak every morning to get updates

Fig. 3: Malaria cases (reported* and extrapolated**) and positivity rate, week 1 to week 26



* Cases reported by health facilities that submitted weekly reports during the reporting week

** Extrapolated from reported cases considering the intra-district reporting rate for the week

Highlights for the week

	Disease specific reports
<p>✚ Nationally:</p> <ul style="list-style-type: none"> The surveillance weighted aggregate score rose from 88% in week 25 to 91% in week 26 The number of districts that submitted reports on time rose markedly from 142 (95%) in week 25 to 148 (99%) The intra-district average reporting rate rose 72% to 75% 	<p>Cholera</p> <ul style="list-style-type: none"> ✚ Only 5 cases (down from 9 in week 25) were reported in week 26 with no death ✚ Four (80%) cases were reported from Turkana Central District ✚ One case was reported from Turkana South district
<p>✚ Best performing provinces:</p> <ul style="list-style-type: none"> Western (99%), Coast (94%) and Nyanza (93%) provinces had the highest surveillance weighted aggregate score while North Eastern (80%) province had the lowest score, though improved All provinces except North Eastern (91%) had 100% district reporting rate Western (96%) Province had the highest intra-district facility reporting rate while North Eastern (53%) had the lowest rate 	<p>Measles</p> <ul style="list-style-type: none"> ✚ 12 suspected cases (a fall from 19 in week 25) were reported with no death ✚ The cases were reported from Kipkelion (6), Kiambu West (4), Kitui (1) and Trans-Nzoia (1) districts ✚ The lab surveillance system investigated 32 case specimen from 14 districts <ul style="list-style-type: none"> ○ None of the specimen tested positive for measles though 10 (31%) tested positive for rubella
<p>✚ Most improved provinces:</p> <ul style="list-style-type: none"> Intra-district facility RR: North Eastern (45% to 53%) and Nyanza (72% to 79%) improved the most while Coast (86% to 83%) and Eastern (69% to 66%) declined the most District reporting rate: North eastern (82% to 91%) and Rift Valley (93% to 100%) provinces improved the most <ul style="list-style-type: none"> ○ No province declined in performance 	<p>Malaria</p> <ul style="list-style-type: none"> ✚ Reported cases declined from 196,077 in week 25 to 195,785 in week 26 ✚ Mortality however rose from 38 to 48 ✚ Overall, 63,699 cases (33%) were laboratory tested, yielding a positivity rate of 41%
<p>✚ Stability: Western remains the most stable province while North Eastern province is still fluctuating</p>	<p>Dysentery</p> <ul style="list-style-type: none"> ✚ The number of reported cases declined from 1,564 in week 25 to 1,100 in week 26 ✚ Four deaths were reported, 2 each from Nairobi West and South Bungoma Districts
<p>✚ The following 28 (19%) districts (same as in week 25) attained 100% intra-district reporting rate: Nyeri South, Kilindini, Taita, Taveta, Imenti South, Maara, Meru South, Gucha, Kisii South, Kisumu West, Masaba, Nyamira, South Gucha, Eldoret East, Sotik, Trans Nzoia West, Bunyala, Busia, Butere, East Bungoma, Emuhaya, Kakamega East, Kakamega North, Lugari, Mt Elgon, North Bungoma, Samia, South Bungoma</p>	<p>Typhoid fever</p> <ul style="list-style-type: none"> ✚ Reported cases declined from 5,416 in week 25 to 4,448 with no death <p>AFP</p> <ul style="list-style-type: none"> ✚ No cases were reported in the week <p>Meningococcal Meningitis</p> <ul style="list-style-type: none"> ✚ Six cases were reported up from one in week 25 ✚ Reported from Laikipia East (5) and Kuria West (1) <p>NNT</p> <ul style="list-style-type: none"> ✚ One case was reported from Migori district ✚ The case died

For comments please contact:

Head, Division of Disease Surveillance and Response
Ministry of Health
P.O. Box 20781 - 00202
Tel. 2718292
Fax: 0202720533
Email: dcde@health.go.ke; or idsr@health.go.ke
Web site: <http://www.health.go.ke>

Editorial: Dr. D. Mutonga, Dr. C. Nzioka, Dr. M. Ope, Dr. D. Langat, Dr. P. Muthoka, Dr. O. Shikanga, C. Njuguna, J. Njau, J. Njoroge, H. Limo, Z. Irura, M. Badel, C. Maina, E. Kathini, R. Kalani, D. Mwangi, A. Muange, J. Ayaga, P. Njiru

Summary of Weekly Integrated Disease Surveillance and Response Report for week 26

[illegible]

[illegible]

Province	District	Reports Expected	% RR	Cholera	Dysentery	Malaria	Malaria Tested	Malaria Positive	Measles	MM	Typhoid	NNT	AFP	VHF	Plague	Yellow Fever
Eastern																
	Fafi	4	50	0(0)	0(0)	119(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Garissa	23	57	0(0)	0(0)	939(0)	1517	717	0(0)	0(0)	53(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Ijara	9	56	0(0)	0(0)	272(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Lagdera	13	54	0(0)	4(0)	212(0)	128	9	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mandera Central	9	78	0(0)	0(0)	307(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mandera East	8	63	0(0)	0(0)	204(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mandera West	8	75	0(0)	0(0)	537(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wajir West	8	38	0(0)	0(0)	207(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wajir East	9	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Wajir North	8	50	0(0)	0(0)	192(0)	0	0	0(0)	0(0)	7(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wajir South	9	56	0(0)	0(0)	322(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Nyanza																
	Bondo	25	92	0(0)	95(0)	3053(0)	510	285	0(0)	0(0)	67(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Borabu	27	52	0(0)	0(0)	1224(0)	885	646	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Gucha	35	100	0(0)	0(0)	2454(0)	1298	128	0(0)	0(0)	10(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Homa Bay	42	71	0(0)	3(0)	3044(3)	1255	361	0(0)	0(0)	63(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisii Central	42	90	0(0)	0(0)	2026(0)	1000	74	0(0)	0(0)	55(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisii South	11	100	0(0)	5(0)	692(0)	327	77	0(0)	0(0)	4(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisumu East	55	82	0(0)	3(0)	4162(0)	0	0	0(0)	0(0)	13(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisumu West	18	100	0(0)	0(0)	3344(0)	0	0	0(0)	0(0)	19(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kuria East	13	85	0(0)	4(0)	434(0)	0	0	0(0)	0(0)	12(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kuria West	24	83	0(0)	1(0)	1364(0)	112	27	0(0)	1(0)	3(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Manga	17	94	0(0)	0(0)	377(2)	167	27	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Masaba	32	100	0(0)	0(0)	1025(0)	388	33	0(0)	0(0)	19(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Migori	42	64	0(0)	5(0)	1185(0)	217	67	0(0)	0(0)	7(0)	1(1)	0(0)	0(0)	0(0)	0(0)
	Nyamira	45	100	0(0)	1(0)	1226(1)	0	0	0(0)	0(0)	24(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nyando	42	83	0(0)	5(0)	2003(0)	458	310	0(0)	0(0)	13(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Rachuonyo	34	85	0(0)	2(0)	1954(0)	0	0	0(0)	0(0)	23(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Rarienda	18	89	0(0)	4(0)	2824(0)	885	364	0(0)	0(0)	35(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Rongo	32	50	0(0)	29(0)	1941(0)	0	0	0(0)	0(0)	75(0)	0(0)	0(0)	0(0)	0(0)	0(0)

Province	District	Reports Expected	% RR	Cholera	Dysentery	Malaria	Malaria Tested	Malaria Positive	Measles	MM	Typhoid	NNT	AFP	VHF	Plague	Yellow Fever
	Siaya	72	53	0(0)	11(0)	2944(0)	0	0	0(0)	0(0)	20(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	South Gucha	13	100	0(0)	0(0)	835(0)	263	41	0(0)	0(0)	8(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Suba	58	67	0(0)	41(0)	1576(0)	187	60	0(0)	0(0)	18(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Rift Valley																
	Baringo	50	60	0(0)	0(0)	662(0)	0	0	0(0)	0(0)	12(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Baringo North	33	64	0(0)	1(0)	501(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Bomet	38	97	0(0)	1(0)	1978(0)	481	87	0(0)	0(0)	58(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Bureti	32	88	0(0)	0(0)	1252(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	East Pokot	9	33	0(0)	0(0)	650(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Eldoret East	36	100	0(0)	0(0)	1618(0)	800	271	0(0)	0(0)	25(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Eldoret West	40	90	0(0)	5(0)	2407(0)	890	285	0(0)	0(0)	126(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kajiado	35	49	0(0)	34(0)	1053(0)	112	48	0(0)	0(0)	36(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Keiyo	36	92	0(0)	22(0)	917(0)	193	32	0(0)	0(0)	68(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kericho	30	93	0(0)	0(0)	1147(0)	194	17	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kipkelion	38	79	0(0)	0(0)	559(0)	0	0	6(0)	0(0)	6(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Koibatek	31	87	0(0)	1(0)	905(0)	399	110	0(0)	0(0)	28(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kwanza	17	88	0(0)	0(0)	1377(0)	482	203	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Laikipia East	14	86	0(0)	0(0)	484(0)	0	0	0(0)	5(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Laikipia North	9	89	0(0)	0(0)	108(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Laikipia West	25	92	0(0)	0(0)	834(0)	0	0	0(0)	0(0)	20(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Loitoktok	23	74	0(0)	149(0)	667(0)	0	0	0(0)	0(0)	217(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Marakwet	54	81	0(0)	67(0)	1043(0)	437	335	0(0)	0(0)	69(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Molo	34	53	0(0)	0(0)	527(0)	0	0	0(0)	0(0)	6(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Naivasha	35	77	0(0)	18(0)	1133(0)	0	0	0(0)	0(0)	74(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nakuru	45	93	0(0)	0(0)	591(2)	882	50	0(0)	0(0)	123(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nakuru North	29	72	0(0)	0(0)	411(0)	183	57	0(0)	0(0)	77(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi Central	22	50	0(0)	0(0)	788(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi East	32	78	0(0)	28(0)	948(1)	381	89	0(0)	0(0)	17(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi North	20	75	0(0)	0(0)	893(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi South	16	88	0(0)	0(0)	1519(0)	132	70	0(0)	0(0)	20(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Narok North	29	55	0(0)	1(0)	521(0)	172	47	0(0)	0(0)	8(0)	0(0)	0(0)	0(0)	0(0)	0(0)

Province	District	Reports Expected	% RR	Cholera	Dysentery	Malaria	Malaria Tested	Malaria Positive	Measles	MM	Typhoid	NNT	AFP	VHF	Plague	Yellow Fever
	Samia	9	100	0(0)	4(0)	568(0)	84	46	0(0)	0(0)	9(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	South Bungoma	22	100	0(0)	30(2)	4459(20)	1283	586	0(0)	0(0)	100(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Teso	20	85	0(0)	0(0)	3337(0)	307	115	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Vihiga	21	95	0(0)	0(0)	3055(0)	1708	889	0(0)	0(0)	136(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	West Bungoma	20	80	0(0)	58(0)	1805(0)	1070	718	0(0)	0(0)	75(0)	0(0)	0(0)	0(0)	0(0)	0(0)

	Cholera	Dysentery	Malaria	Malaria Tested	Malaria Positive	Measles	MM	Typhoid	NNT	AFP	VHF	Plague	Yellow Fever
Weeks summary	5 (0)	1,100 (4)	195,785 (48)	63,699	25,986	12 (0)	6 (0)	4,448 (0)	1 (1)	0 (0)	0 (0)	0 (0)	0 (0)
Years cumulative summary	1,760 (27)	32,335 (16)	4,184,742 (1,004)	863,854	343,355	375 (0)	84 (15)	95,507 (9)	2 (1)	21 (0)	0 (0)	0 (0)	0 (0)

* From week 10 of 2010 (Excludes week 1 up to week 9)

Key:

DNR: District did not report for this disease

AFP: Acute Flaccid Paralysis

NNT: Neonatal Tetanus

HF: Health Facilities

Timely reports: Reports received before Wednesday

Intra-district: Proportion of health facilities reporting in a district

Timeliness: Proportion of districts in a province/country reporting on time

Weighted Aggregate Score: Composite Surveillance Score (3 for Timeliness, 2 for Completeness and 1 for Complete reports)

MM: Meningococcal Meningitis

VHF: Viral Hemorrhagic Fever

NEP: North Eastern Province

% RR: Health Facility reporting rate for this week