



Republic of Kenya
Ministry of Public Health and Sanitation

WEEKLY EPIDEMIOLOGICAL BULLETIN

Week 42

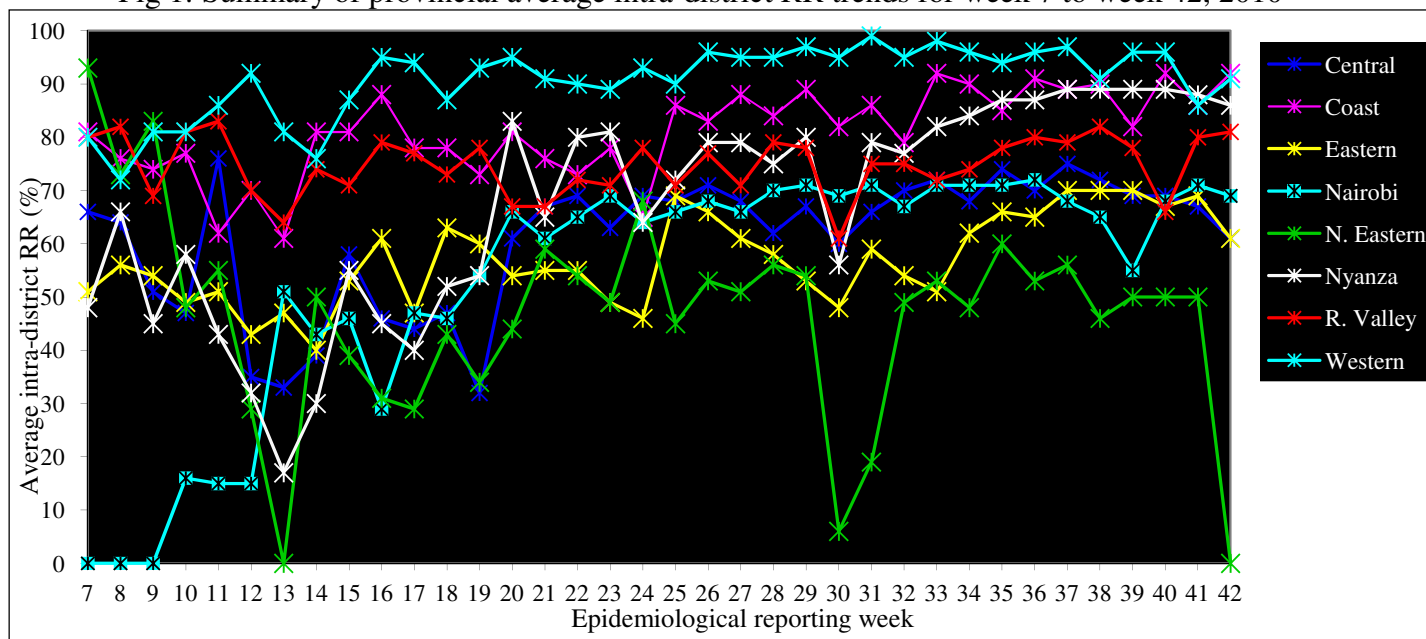
Week ending 24th October 2010

Provincial & national surveillance indicators for week 42

Province	No. of Districts	Reporting on time	Complete reports	Intra-district facility RR (%)	Timeliness (%)	Completeness of reports (%)	Weighted aggregate score (%)
Central	11	10	10	61	91	100	82
Coast	13	13	13	92	100	100	97
Eastern	28	25	25	61	89	100	82
Nairobi	3	3	3	69	100	100	90
N. Eastern	11	0	0	0	0	100	0
Nyanza	21	21	21	86	100	100	95
R. Valley	43	43	43	81	100	100	94
Western	19	17	17	91	89	100	92
National	149	132	132	74	89	100	86

- ✦ There was a general decline in reporting rates in the week
- ✦ None of the districts in North Eastern Province reported
- ✦ The national average district reporting rate declined to 85%
- ✦ The national weighted aggregate score also declined to 86%

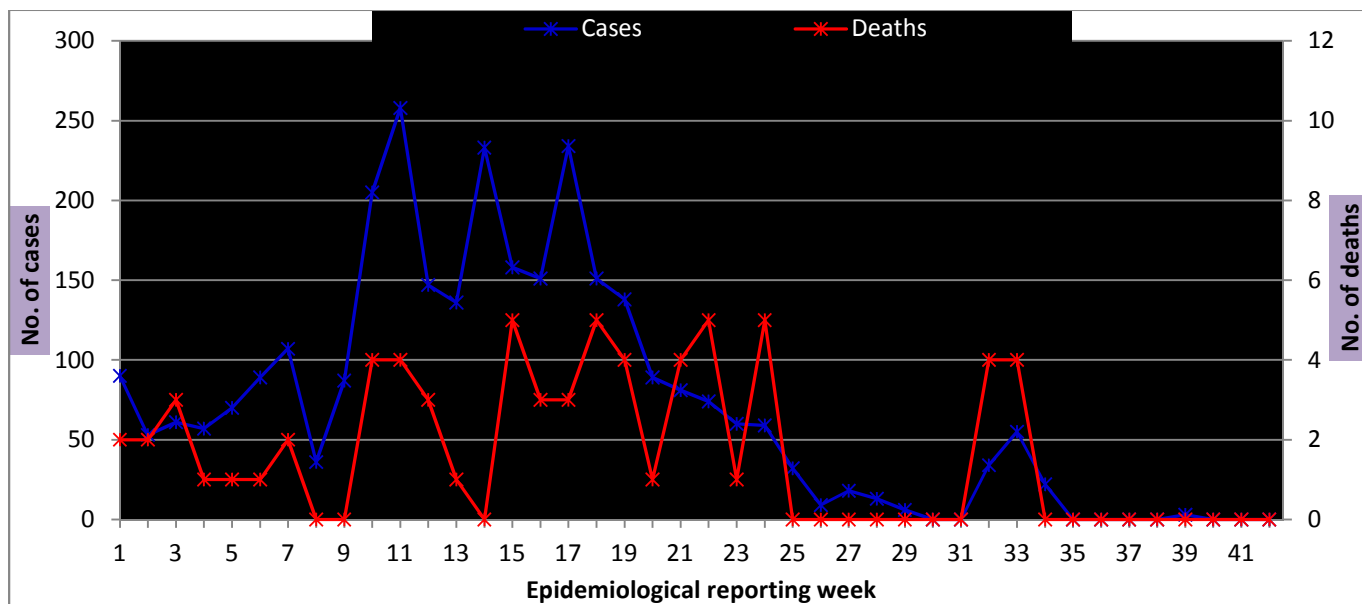
Fig 1: Summary of provincial average intra-district RR trends for week 7 to week 42, 2010



Reports not received from the following 17 Districts

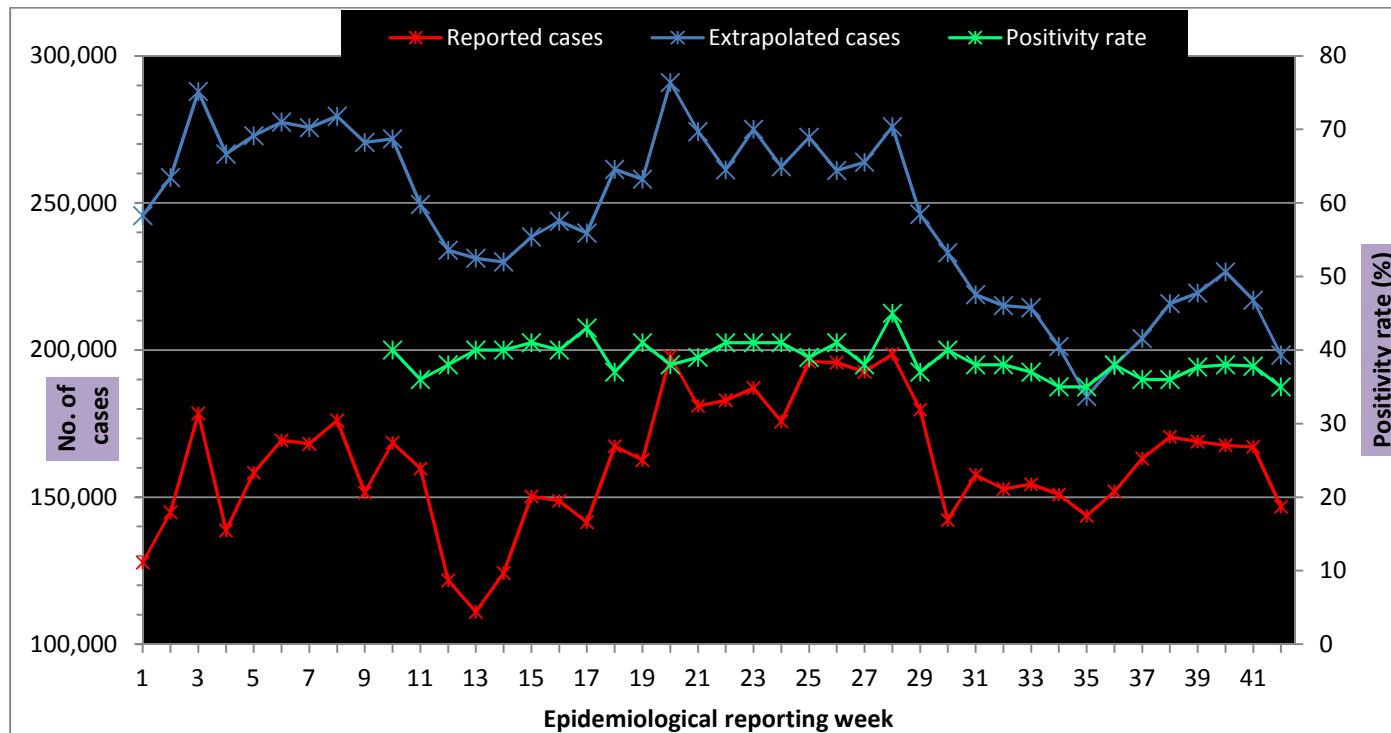
Thika, Imenti South, Kitui, Moyale, Fafi, Garissa, Ijara, Lagdera, Mandera Central, Mandera East, Mandera West, Wajir West, Wajir East, Wajir North, Wajir South, North Bungoma, West Bungoma

Fig. 2: Cholera** cases and deaths from week 1 to week 42



** Derived from daily updates (line-lists and active DDSR inquiry). A national DDSR officer calls districts in cholera outbreak every morning to get updates. Therefore figures might not be same as those from routine weekly data reports

Fig. 3: Malaria cases (reported* and extrapolated**) and positivity rate, week 1 to week 42



* 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 declined to 86% in week 42 The number of districts that submitted reports on time declined to 132 (89%) The intra-district average reporting rate declined from 77% in week 41 to 74% 	<p>Cholera</p> <p>⊕ Zero cholera cases were reported</p>
<p>⊕ Best performing provinces in week 42:</p> <ul style="list-style-type: none"> All districts in Coast, Nairobi, Nyanza and Rift Valley provinces reported during the week Intra-district facility reporting rate: Coast (92%), Western (91%) Nyanza (86%) and R. Valley (81%) provinces had the highest rates while no facility from North Eastern (0%) reported Weighted Aggregate Score: Coast (97%), Nyanza (95%), Rift Valley (94%) and Western (92%) provinces had the highest score while North Eastern (0%) province had the lowest score 	<p>Measles</p> <p>⊕ 68 suspected cases (a rise from 21 cases in week 41) were reported with no death</p> <p>⊕ The cases were reported from South Bungoma (36), Kajiado (14), Taita (2), Imenti North (2), Bondo (2), Nakuru North (2), Butere (2), Meru Central (1), Meru South (1), Tharaka (1), Loitokitok (1), Naivasha (1), Narok North (1), Transmara (1) and East Bungoma (1) districts</p> <p>⊕ The lab surveillance system investigated 44 case specimen from 23 districts</p> <ul style="list-style-type: none"> None of the specimen tested positive for measles IgM Twenty four (55%) specimen tested positive for rubella
<p>⊕ Most improved provinces in week 42:</p> <ul style="list-style-type: none"> Intra-district facility RR: Coast (86% to 92%) and Western (86% to 91%) provinces improved the most while North Eastern (50% to 0%) province declined the most District reporting rate: Only Coast (92% to 100%) province improved while North Eastern (91% to 0%) and Eastern (93% to 89%) are the only provinces that posted a decline 	<p>Malaria</p> <p>⊕ Reported cases declined from 167,086 cases in week 41 to 146,753 in week 42</p> <p>⊕ Mortality however rose from 22 cases to 23 cases</p> <p>⊕ Overall, 58,472 (40%) cases were laboratory tested, yielding a positivity rate of 35%</p>
<p>⊕ Stability: All provinces, except Nyanza have demonstrated fluctuations though North Eastern remains the most unstable province</p>	<p>Dysentery</p> <p>⊕ Reported cases rose from 1,225 in week 41 to 1,453 in week 42 with no death</p>
<p>⊕ Thirty eight (26%) districts [up from 32 (21%) districts in week 41] attained 100% intra-district reporting rate</p>	<p>Typhoid fever</p> <p>⊕ Reported cases declined from 4,489 cases in week 41 to 4,234 cases in week 42 with no death</p>
	<p>AFP</p> <p>⊕ Zero cases were reported in the week</p>
	<p>Meningococcal Meningitis</p> <p>⊕ One case was reported from Siaya district with no death</p>
	<p>NNT</p> <p>⊕ Zero cases were reported in the week</p>
	<p>Influenza (Walter Reed Influenza Surveillance)</p> <p>⊕ 51 specimen were processed by the National Influenza Centre</p> <p>⊕ Six (12%) tested positive for influenza A (H3)</p> <p>⊕ None tested positive for Influenza A (H1), A (H5), B and Pandemic A (H1N1)</p>

For comments please contact:

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Summary of Weekly Integrated Disease Surveillance and Response Report for week 42

[illegible]

Province	District	Reports Expected	% RR	Cholera	Dysentery	Malaria	Malaria Tested	Malaria Positive	Measles	MM	Typhoid	NNT	AFP	VHF	Plague	Yellow Fever
North Eastern																
	Fafi	9	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Garissa	18	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Ijara	9	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Lagdera	13	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Mandera Central	11	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Mandera East	8	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Mandera West	8	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Wajir West	11	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Wajir East	11	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Wajir North	8	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Wajir South	11	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
Nyanza																
	Bondo	26	100	0(0)	40(0)	1941(2)	704	356	2(0)	0(0)	94(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Borabu	27	85	0(0)	3(0)	1260(0)	450	29	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Gucha	35	91	0(0)	0(0)	1713(0)	414	64	0(0)	0(0)	2(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Homa Bay	42	88	0(0)	0(0)	1092(0)	662	165	0(0)	0(0)	6(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisii Central	42	93	0(0)	7(0)	2091(0)	1013	78	0(0)	0(0)	58(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisii South	11	100	0(0)	14(0)	496(0)	330	67	0(0)	0(0)	12(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisumu East	54	89	0(0)	3(0)	4866(0)	1737	972	0(0)	0(0)	17(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisumu West	22	100	0(0)	34(0)	1437(0)	682	304	0(0)	0(0)	45(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kuria East	13	46	0(0)	7(0)	211(0)	0	0	0(0)	0(0)	6(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kuria West	24	96	0(0)	0(0)	1031(0)	50	12	0(0)	0(0)	2(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Manga	16	94	0(0)	0(0)	172(0)	154	25	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Masaba	32	94	0(0)	0(0)	811(0)	0	0	0(0)	0(0)	97(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Migori	52	100	0(0)	64(0)	2460(0)	826	466	0(0)	0(0)	33(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nyamira	48	96	0(0)	0(0)	1092(0)	455	21	0(0)	0(0)	13(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nyando	42	76	0(0)	2(0)	2146(0)	895	596	0(0)	0(0)	6(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Rachuonyo	56	48	0(0)	8(0)	1709(0)	450	165	0(0)	0(0)	31(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Rarienda	22	91	0(0)	1(0)	1413(1)	424	228	0(0)	0(0)	31(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Rongo	32	97	0(0)	18(0)	1390(0)	455	123	0(0)	0(0)	79(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	65	0(0)	66(0)	4360(0)	559	258	0(0)	1(0)	110(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	South Gucha	19	89	0(0)	0(0)	797(0)	318	34	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Suba	41	100	0(0)	71(0)	1696(1)	280	98	0(0)	0(0)	53(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Rift Valley																
	Baringo	50	66	0(0)	0(0)	558(0)	298	68	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Baringo North	36	58	0(0)	0(0)	637(0)	0	0	0(0)	0(0)	11(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Bomet	38	97	0(0)	2(0)	1790(0)	494	54	0(0)	0(0)	23(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Bureti	32	84	0(0)	0(0)	1286(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	East Pokot	9	44	0(0)	0(0)	341(0)	0	0	0(0)	0(0)	3(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Eldoret East	36	100	0(0)	0(0)	1323(0)	579	136	0(0)	0(0)	52(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Eldoret West	40	83	0(0)	4(0)	1397(0)	470	91	0(0)	0(0)	87(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kajiado	35	89	0(0)	14(0)	1028(0)	162	72	14(0)	0(0)	77(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Keiyo	45	82	0(0)	6(0)	1036(0)	223	57	0(0)	0(0)	81(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kericho	30	90	0(0)	0(0)	975(0)	225	18	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kipkelion	38	87	0(0)	0(0)	518(0)	0	0	0(0)	0(0)	5(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Koibatek	32	91	0(0)	1(0)	915(0)	375	100	0(0)	0(0)	26(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kwanza	17	76	0(0)	0(0)	860(0)	414	204	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Laikipia East	14	86	0(0)	0(0)	243(0)	0	0	0(0)	0(0)	14(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Laikipia North	9	89	0(0)	0(0)	169(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)	875(0)	0	0	0(0)	0(0)	23(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Loitoktok	24	75	0(0)	86(0)	668(0)	0	0	1(0)	0(0)	131(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Marakwet	58	78	0(0)	17(0)	878(0)	233	183	0(0)	0(0)	32(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Molo	35	89	0(0)	0(0)	320(1)	0	0	0(0)	0(0)	2(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Naivasha	35	91	0(0)	19(0)	1551(0)	506	302	1(0)	0(0)	171(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nakuru	22	36	0(0)	0(0)	369(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nakuru North	33	94	0(0)	0(0)	1102(0)	394	238	2(0)	0(0)	112(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi Central	22	36	0(0)	0(0)	369(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi East	32	72	0(0)	30(0)	892(1)	346	51	0(0)	0(0)	10(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi North	20	85	0(0)	0(0)	786(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi South	18	89	0(0)	0(0)	824(0)	47	34	0(0)	0(0)	19(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Narok North	29	93	0(0)	8(0)	546(0)	259	46	1(0)	0(0)	16(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
	Narok South	30	60	0(0)	27(0)	334(0)	79	13	0(0)	0(0)	10(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	North Pokot	12	100	0(0)	0(0)	967(0)	480	165	0(0)	0(0)	37(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Pokot Central	18	100	0(0)	3(0)	1052(0)	243	97	0(0)	0(0)	8(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu	19	58	0(0)	0(0)	504(0)	0	0	0(0)	0(0)	13(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu East	15	27	0(0)	1(0)	113(0)	0	0	0(0)	0(0)	10(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu North	9	33	0(0)	8(0)	108(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Sotik	29	100	0(0)	5(0)	1391(0)	262	37	0(0)	0(0)	5(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Tinderet	10	90	0(0)	0(0)	333(0)	198	25	0(0)	0(0)	14(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Trans Nzoia East	20	100	0(0)	0(0)	927(0)	806	294	0(0)	0(0)	110(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Trans Nzoia West	22	100	0(0)	15(0)	1597(0)	564	158	0(0)	0(0)	8(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Transmara	48	85	0(0)	8(0)	1673(0)	292	9	1(0)	0(0)	23(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana Central	33	64	0(0)	12(0)	2245(0)	547	240	0(0)	0(0)	43(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana North	21	90	0(0)	12(0)	480(0)	694	106	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana South	18	44	0(0)	17(0)	638(0)	116	71	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wareng	38	100	0(0)	0(0)	1028(0)	632	179	0(0)	0(0)	33(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	West Pokot	24	100	0(0)	1(0)	1336(0)	715	161	0(0)	0(0)	62(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Western															
	Bunyala	7	100	0(0)	0(0)	1148(0)	786	211	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Busia	28	100	0(0)	36(0)	3398(0)	1704	973	0(0)	0(0)	185(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Butere	18	100	0(0)	11(0)	2271(0)	482	211	2(0)	0(0)	20(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	East Bungoma	13	100	0(0)	0(0)	1255(0)	1373	760	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Emuhaya	22	100	0(0)	2(0)	988(0)	316	166	0(0)	0(0)	50(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Hamisi	13	85	0(0)	0(0)	585(0)	379	208	0(0)	0(0)	24(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega Central (Lurambi)	29	100	0(0)	0(0)	3770(0)	1842	761	0(0)	0(0)	144(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega East (Shinyalu)	14	100	0(0)	0(0)	940(0)	487	108	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega North (Malava)	18	100	0(0)	0(0)	1000(0)	455	316	0(0)	0(0)	49(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega South (Ikolomani)	11	100	0(0)	0(0)	1002(0)	274	48	0(0)	0(0)	5(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Lugari	24	96	0(0)	12(0)	1966(0)	227	31	0(0)	0(0)	90(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mt Elgon	16	94	0(0)	13(0)	1002(0)	0	0	0(0)	0(0)	31(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mumias	26	100	0(0)	6(0)	2643(0)	1131	572	0(0)	0(0)	24(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	North Bungoma	6	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR

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)	25(0)	806(0)	101	49	0(0)	0(0)	20(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	South Bungoma	22	100	0(0)	134(0)	3851(3)	1234	396	36(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Teso	21	100	0(0)	23(0)	2978(1)	326	181	0(0)	0(0)	80(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Vihiga	21	95	0(0)	0(0)	2540(0)	1215	555	0(0)	0(0)	123(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	West Bungoma	19	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR

	Cholera	Dysentery	Malaria	Malaria Tested*	Malaria Positive*	Measles	MM	Typhoid	NNT	AFP	VHF	Plague	Yellow Fever
Week 42 summary	0 (0)	1,453 (0)	146,753 (23)	58,472	20,178	68 (0)	1 (0)	4,234 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Years cumulative summary	1,786 (27)	50,932 (25)	6,792,865 (1,451)	1,836,423	708,923	849 (0)	106 (17)	161,686 (15)	7 (2)	36 (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

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