



Republic of Kenya
Ministry of Public Health and Sanitation

WEEKLY EPIDEMIOLOGICAL BULLETIN

Week 17

Week ending 2nd May 2010

Provincial & national surveillance indicators for week 17

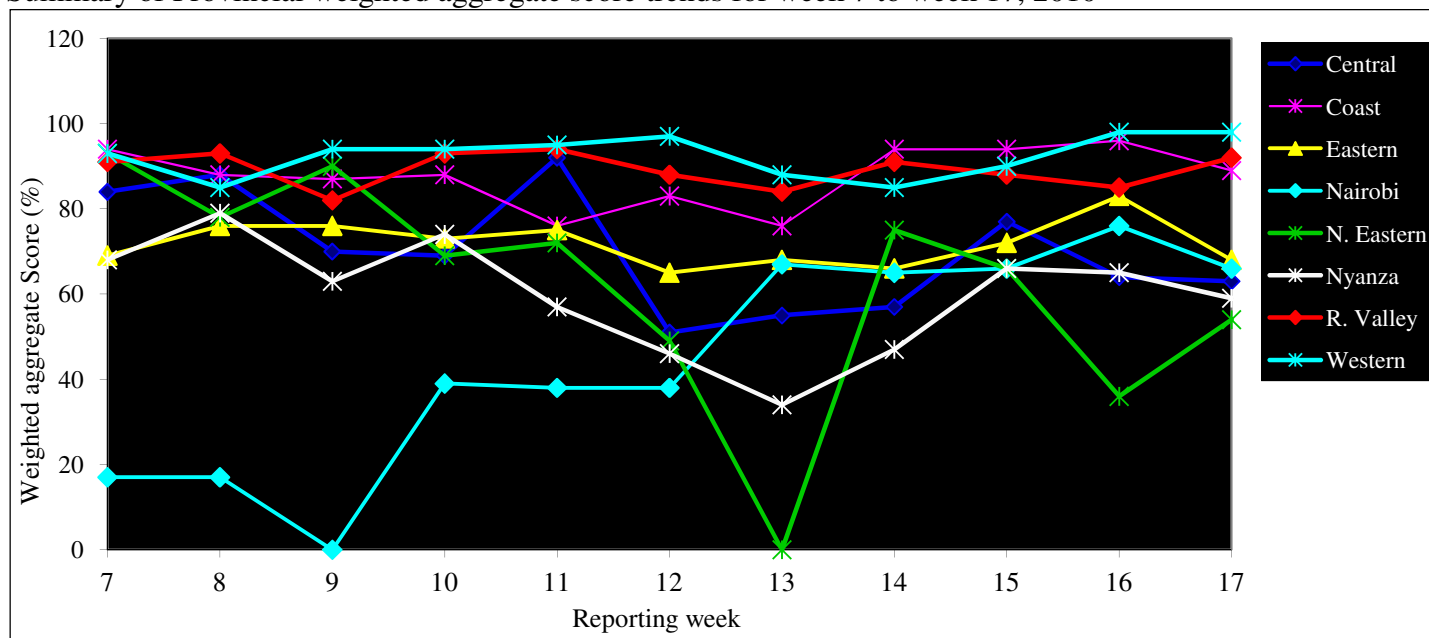
Province	No. of Districts	Reporting on time	Complete reports	Intra-district facility RR (%)	Timeliness (%)	Completeness of reports (%)	Weighted aggregate score (%)
Central	11	7	7	44	64	100	63
Coast	13	12	12	78	92	100	89
Eastern	28	20	20	47	71	100	68
Nairobi	3	2	2	47	67	100	66
N. Eastern	11	6	6	29	55	100	54
Nyanza	21	12	12	40	57	100	59
R. Valley	43	43	43	77	100	100	92
Western	19	19	19	94	100	100	98
National	149	121	121	59	81	100	77

✦ The national average district reporting rate declined to 81%

✦ The national weighted aggregate score declined to 77%

✦ Congratulations to Rift Valley & Western for attaining 100% district reporting

Summary of Provincial weighted aggregate score trends for week 7 to week 17, 2010



Reports not received from the following 28 Districts

Kiambu East, Nyandarua South, Nyeri South, Thika, Kwale, Garbatula, Igembe, Isiolo, Kibwezi, Laisamis, Marsabit, Moyale, Tharaka, Nairobi East, Fafi, Ijara, Mandera East, Wajir West, Wajir East, Bondo, Borabu, Homa Bay, Kisumu East, Kuria West, Manga, Migori, Nyamira, South Gucha

<p>⊕ Nationally:</p> <ul style="list-style-type: none"> • The surveillance weighted aggregate score marginally declined from 79% to 77% • The number of districts that submitted reports on time also declined from 124 (83%) to 121 (81%) • The intra-district average reporting rate dropped from 61% in week 16 to 59% <p>⊕ Best performing provinces:</p> <ul style="list-style-type: none"> • Western (98%) and Rift Valley (92%) Provinces had the highest weighted aggregate score while North Eastern (54% and Nyanza (59%) Provinces had the lowest score • Rift Valley and Western posted 100% district reporting rate while North Eastern had the lowest rate at 55% (rise from 27% in week 16) • Western (94%) Province had the highest intra-district facility reporting rate while North Eastern (29%) and Nyanza (40%) had the lowest rates <p>⊕ Most improved provinces:</p> <ul style="list-style-type: none"> • Intra-district facility RR: Nairobi (29% to 47%) improved the most while Eastern (61% to 47%) and Coast (88% to 78%) declined the most • District reporting rate: North Eastern (27% to 55%) and Rift Valley (91% to 100%) improved the most while Nairobi (100% to 67%) declined the most <p>⊕ Stability: Western and Rift Valley Provinces are the most consistent while North Eastern and Nyanza have fluctuated the most</p> <p>⊕ We recognize the 21 (14%) districts [up from 20 (13%) districts in week 16] that attained 100% intra-district reporting: Kilindini, Taita, Taveta, Gucha, Kisii South, Laikipia North, Pokot Central, Sotik, Trans Nzoia West, Wareng, Busia, Butere, East Bungoma, Emuhaya, Kakamega Central (Lurambi), Kakamega East (Shinyalu), Kakamega North (Malava), Kakamega South (Ikolomani), Lugari, Samia, South Bungoma</p>	<p style="text-align: center;">Disease specific reports</p> <p>Cholera</p> <ul style="list-style-type: none"> ⊕ 285 cases (a rise from 147 in week 16) were reported in week 17 with 3 death deaths ⊕ 243 (85%) cases and all the 3 (100%) deaths were reported from West Pokot District ⊕ Other cases were reported from Tharaka (18), Msambweni (15), Narok South (6), Nairobi North (2) and Marakwet (1) districts <p>Measles</p> <ul style="list-style-type: none"> ⊕ 6 suspected cases (same as in week 16) reported with no death ⊕ Cases reported form Molo (3), Mt. Elgon (2) and Loitokitok districts (1) ⊕ Laboratory surveillance results were available for only 10 case specimen from 7 districts Eight (80%) tested negative for measles IgM and were therefore classified as discarded while the results for the remaining 2 were indeterminate 3 (30%) tested positive for rubella IgM <p>Malaria</p> <ul style="list-style-type: none"> ⊕ Reported cases dropped from 148,713 in week 16 to 141,463 ⊕ Mortality also fell from 54 cases to 45 cases ⊕ Overall, 46,649 cases (33%) were laboratory tested, yielding a positivity rate of 43% (up from 40%) <p>Dysentery</p> <ul style="list-style-type: none"> ⊕ The number of reported cases fell from 1,539 in week 16 to 1,487 with 4 deaths all from Malindi district <p>Typhoid fever</p> <ul style="list-style-type: none"> ⊕ Reported cases increased from 3,962 in week 16 to 4,220 with no death reported <p>AFP</p> <ul style="list-style-type: none"> ⊕ There was no reported case <p>Meningococcal Meningitis</p> <ul style="list-style-type: none"> ⊕ There was no reported case
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Summary of Weekly Integrated Disease Surveillance and Response Report for week 17

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Province	District	Reports Expected	% RR	Cholera	Dysentery	Malaria	Malaria Tested	Malaria Positive	Measles	MM	Typhoid	NNT	AFP	VHF	Plague	Yellow Fever
Nairobi																
	Nairobi East	61	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Nairobi North	81	79	2(0)	60(0)	396(0)	0	0	0(0)	0(0)	196(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nairobi West	71	51	0(0)	47(0)	561(0)	913	276	0(0)	0(0)	74(0)	0(0)	0(0)	0(0)	0(0)	0(0)
North Eastern																
	Fafi	9	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Garissa	23	57	0(0)	0(0)	979(0)	586	734	0(0)	0(0)	30(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Ijara	6	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Lagdera	13	46	0(0)	0(0)	351(0)	140	41	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mandera Central	8	50	0(0)	0(0)	118(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mandera East	8	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Mandera West	8	88	0(0)	0(0)	481(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wajir West	11	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Wajir East	18	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Wajir North	8	25	0(0)	0(0)	43(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wajir South	13	31	0(0)	0(0)	136(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Nyanza																
	Bondo	23	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Borabu	14	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Gucha	35	100	0(0)	0(0)	2399(0)	0	0	0(0)	0(0)	43(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Homa Bay	40	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Kisii Central	42	64	0(0)	10(0)	1697(0)	791	63	0(0)	0(0)	57(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisii South	11	100	0(0)	6(0)	637(0)	299	68	0(0)	0(0)	11(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisumu East	55	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Kisumu West	18	61	0(0)	19(0)	1503(1)	0	0	0(0)	0(0)	22(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kuria East	13	54	0(0)	2(0)	270(0)	23	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kuria West	24	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Manga	14	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Masaba	31	90	0(0)	0(0)	1028(0)	423	57	0(0)	0(0)	30(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Migori	42	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Nyamira	45	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR

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Province	District	Reports Expected	% RR	Cholera	Dysentery	Malaria	Malaria Tested	Malaria Positive	Measles	MM	Typhoid	NNT	AFP	VHF	Plague	Yellow Fever
	Nandi East	32	81	0(0)	31(0)	DNR	0	0	0(0)	0(0)	14(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi North	20	85	0(0)	0(0)	621(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi South	16	81	0(0)	0(0)	965(0)	83	46	0(0)	0(0)	21(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Narok North	29	59	0(0)	0(0)	369(0)	160	52	0(0)	0(0)	11(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Narok South	30	50	6(0)	0(0)	341(0)	108	20	0(0)	0(0)	5(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	North Pokot	12	83	0(0)	15(0)	530(1)	219	71	0(0)	0(0)	22(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Pokot Central	18	100	0(0)	0(0)	783(0)	275	134	0(0)	0(0)	38(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu	12	58	0(0)	19(0)	290(0)	0	0	0(0)	0(0)	23(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu East	15	40	0(0)	0(0)	238(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu North	7	29	0(0)	14(0)	164(0)	0	0	0(0)	0(0)	18(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Sotik	28	100	0(0)	0(0)	1149(0)	158	13	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Tinderet	10	80	0(0)	0(0)	252(0)	213	22	0(0)	0(0)	19(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Trans Nzoia East	20	90	0(0)	0(0)	907(0)	669	332	0(0)	0(0)	111(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Trans Nzoia West	22	100	0(0)	11(0)	1426(1)	743	186	0(0)	0(0)	8(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Transmara	39	90	0(0)	0(0)	1053(0)	279	15	0(0)	0(0)	22(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana Central	32	63	0(0)	13(0)	1403(0)	413	235	0(0)	0(0)	41(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana North	21	76	0(0)	12(0)	840(0)	1147	366	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana South	20	30	0(0)	12(0)	349(1)	37	28	0(0)	0(0)	3(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wareng	37	100	0(0)	0(0)	1120(0)	762	271	0(0)	0(0)	23(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	West Pokot	26	81	243(3)	0(0)	982(0)	177	87	0(0)	0(0)	40(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Western																
	Bunyala	7	86	0(0)	0(0)	868(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Busia	27	100	0(0)	30(0)	4448(0)	1414	806	0(0)	0(0)	192(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Butere	16	100	0(0)	73(0)	3787(0)	605	294	0(0)	0(0)	91(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	East Bungoma	11	100	0(0)	0(0)	1521(0)	985	458	0(0)	0(0)	36(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Emuhaya	21	100	0(0)	0(0)	1355(0)	0	0	0(0)	0(0)	30(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Hamisi	13	85	0(0)	0(0)	952(0)	203	146	0(0)	0(0)	36(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega Central (Lurambi)	29	100	0(0)	0(0)	3354(0)	1463	609	0(0)	0(0)	75(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega East (Shinyalu)	12	100	0(0)	0(0)	1424(0)	552	99	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega North	16	100	0(0)	0(0)	1391(0)	466	218	0(0)	0(0)	56(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
	(Malava)															
	Kakamega South (Ikolomani)	10	100	0(0)	0(0)	909(0)	110	30	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Lugari	24	100	0(0)	7(0)	2437(0)	0	0	0(0)	0(0)	73(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mt Elgon	16	88	0(0)	23(0)	646(0)	490	294	2(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mumias	26	85	0(0)	10(0)	3303(0)	703	623	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	North Bungoma	13	46	0(0)	0(0)	605(0)	266	156	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samia	9	100	0(0)	2(0)	783(0)	41	51	0(0)	0(0)	5(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	South Bungoma	22	100	0(0)	5(0)	3059(22)	2467	1290	0(0)	0(0)	184(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Teso	20	90	0(0)	17(0)	2142(0)	213	108	0(0)	0(0)	110(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Vihiga	21	95	0(0)	0(0)	2431(0)	1092	598	0(0)	0(0)	137(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	West Bungoma	20	90	0(0)	105(0)	2108(0)	1301	958	0(0)	0(0)	91(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	285(3)	1487(4)	141463(45)	46649	19841	6(0)	0(0)	4220(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Years cumulative summary	1,319 (16)	19,227 (10)	2,538,431 (657)	346,534	137,442	246 (0)	48 (14)	55,848 (7)	0 (0)	17 (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

Completeness (Intra-district): Proportion of health facilities reporting in a district/province

Timeliness: Proportion of district 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