



Republic of Kenya
Ministry of Public Health and Sanitation

WEEKLY EPIDEMIOLOGICAL BULLETIN

Week 16

Week ending 25th April 2010

Provincial & national surveillance indicators for week 16

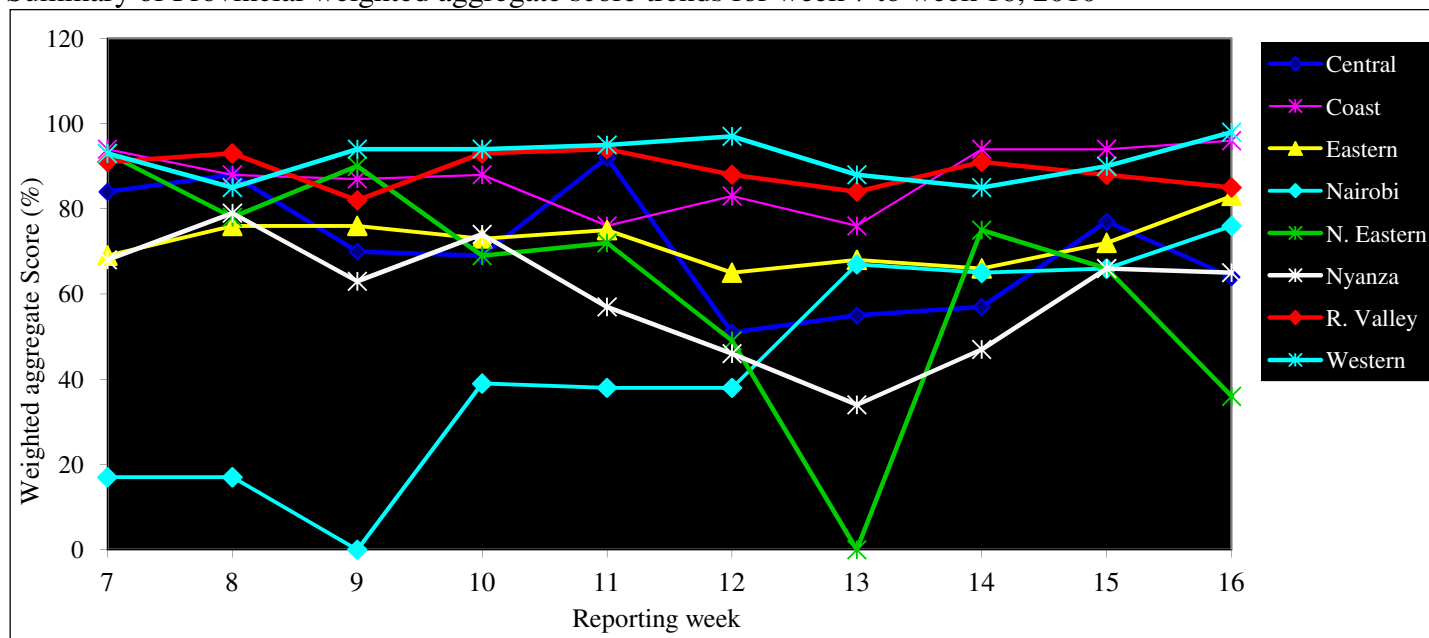
Province	No. of Districts	Reporting on time	Complete reports	Intra-district facility RR (%)	Timeliness (%)	Completeness of reports (%)	Weighted aggregate score (%)
Central	11	7	7	46	64	100	64
Coast	13	13	13	88	100	100	96
Eastern	28	26	26	61	93	100	83
Nairobi	3	3	3	29	100	100	76
N. Eastern	11	3	3	31	27	100	36
Nyanza	21	14	14	45	67	100	65
R. Valley	43	39	39	79	91	100	85
Western	19	19	19	95	100	100	98
National	149	124	124	61	83	100	79

✦ The national average district reporting rate remained at 83%

✦ The national weighted aggregate score remained at 79%

✦ Congratulations to Nairobi, Coast & Western for attaining 100% district reporting

Summary of Provincial weighted aggregate score trends for week 7 to week 16, 2010



Reports not received from the following 25 Districts

Gatundu, Murang'a North, Nyandarua North, Thika, Marsabit, Mwingi, Fafi, Lagdera, Mandera Central, Mandera East, Mandera West, Wajir West, Wajir East, Wajir South, Borabu, Kisii Central, Kisumu East, Kisumu West, Kuria East, Nyamira, South Gucha, Eldoret East, Molo, Samburu North, Turkana North

	Disease specific reports
<p>⊕ Nationally:</p> <ul style="list-style-type: none"> • The surveillance weighted aggregate score remained at 79% • The number of districts that submitted reports on time also remained at 124 (83%) • The intra-district average reporting rate however marginally dropped from 63% in week 15 to 61% <p>⊕ Best performing provinces:</p> <ul style="list-style-type: none"> • Western (98%) and Coast (96%) Provinces had the highest weighted aggregate score while North Eastern Province had the lowest score of 36% • Coast, Nairobi and Western posted 100% district reporting rate while North Eastern had the lowest rate at 27% (drop from 73% of week 15) • Western (95%) and Coast (88%) Provinces had the highest intra-district facility reporting rates while Nairobi (29%) and North Eastern (31%) had the lowest rates <p>⊕ Most improved provinces:</p> <ul style="list-style-type: none"> • Intra-district facility RR: Eastern (53% to 61%), Rift Valley (71% to 79%) and Western (87% to 95%) improved the most while Nairobi (46% to 29%) and Central (58% to 46%) declined the most • District reporting rate: Nairobi (67% to 100%) and Eastern (75% to 93%) improved the most while North Eastern (73% to 27%) further declined in performance <p>⊕ Stability: Western, Rift Valley, and Eastern Provinces are the most consistent while North Eastern has fluctuated the most</p> <p>⊕ We recognize the 20 (13.4%) districts [up from 19 (12.7%) districts in week 15] that attained 100% intra-district reporting: Nyandarua South, Kilindini, Malindi, Taita, Taveta, Maara, Meru South, Kisii South, Sotik, Trans Nzoia West, Bunyala, Butere, East Bungoma, Kakamega East (Shinyalu), Kakamega North (Malava), Kakamega South (Ikolomani), Lugari, Mt Elgon, Samia, South Bungoma</p>	<p>Cholera</p> <p>⊕ 147 cases (a rise from 121 in week 15) were reported in week 16 with no death</p> <p>⊕ Narok North reported 53 cases (36%) while Tharaka (38), Msambweni (20), West Pokot (20), Marakwet (9), Nairobi West (6) and Samia (1) reported the rest</p> <p>⊕ Congratulations to Tharaka District which resumed reporting again</p> <p>Measles</p> <p>⊕ 6 suspected cases (down from 18 in week 15) reported with no death</p> <p>⊕ Cases reported form Laikipia East (2), Laikipia North (1), West Pokot (1), Kirinyaga (1) and Kinango (1)</p> <p>⊕ The laboratory surveillance system investigated 6 case specimen (down from 17 in week 15) from 6 districts.</p> <p>All (100%) tested negative for measles IgM and were therefore classified as discarded.</p> <p>3 (50%) tested positive for rubella IgM</p> <p>The districts were Kinango, Kitui, Msambweni, Muranga South, Nairobi East and Nakuru</p> <p>Malaria</p> <p>⊕ Reported cases marginally dropped from 150,232 in week 15 to 148,713 in week 16</p> <p>⊕ Mortality however rose from 27 cases to 54 cases</p> <p>⊕ Overall, 48,620 cases (33%) were laboratory tested, yielding a positivity rate of 40%</p> <p>Dysentery</p> <p>⊕ There was a rise in the number of reported cases from 1,146 in week 15 to 1,539 with no deaths</p> <p>Typhoid fever</p> <p>⊕ Reported cases increased from 3,327 in week 15 to 3,962 in week 16 with no death reported</p> <p>AFP</p> <p>⊕ One case reported from Suba District tested negative</p> <p>Meningococcal Meningitis</p> <p>⊕ There was no reported case (down from 1 in week 15)</p>

For comments please contact:

Head,
Division of Disease Surveillance and Response
Ministry of Health
P.O. Box 20781 - 00202
Tel. 2718292
Fax: 0202720533
Email: cdc@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, E. Kathini, A. Muange, H. Limo, R. Kalani, P. Njiru, D. Mwangi, Z. Irura

Summary of Weekly Integrated Disease Surveillance and Response Report for week 16

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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	31	0(0)	3(0)	483(0)	114	110	0(0)	0(0)	8(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nairobi North	97	14	0(0)	20(0)	435(0)	210	85	0(0)	0(0)	166(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nairobi West	71	49	6(0)	60(0)	547(0)	910	278	0(0)	0(0)	86(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)	1364(0)	1120	505	0(0)	0(0)	27(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Ijara	9	44	0(0)	0(0)	303(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	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	25	0(0)	0(0)	68(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wajir South	11	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
Nyanza																
	Bondo	25	68	0(0)	56(0)	1914(0)	478	245	0(0)	0(0)	50(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Borabu	14	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Gucha	15	87	0(0)	0(0)	749(0)	329	37	0(0)	0(0)	6(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Homa Bay	22	77	0(0)	0(0)	631(11)	445	79	0(0)	0(0)	7(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisii Central	42	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Kisii South	11	100	0(0)	6(0)	569(0)	284	65	0(0)	0(0)	3(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisumu East	54	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Kisumu West	17	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Kuria East	12	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Kuria West	24	58	0(0)	0(0)	755(0)	0	0	0(0)	0(0)	10(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Manga	17	94	0(0)	0(0)	426(0)	186	45	0(0)	0(0)	3(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Masaba	30	33	0(0)	0(0)	345(0)	80	20	0(0)	0(0)	4(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Migori	60	45	0(0)	13(0)	1864(0)	132	29	0(0)	0(0)	26(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	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	78	0(0)	26(0)	840(2)	414	71	0(0)	0(0)	30(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi North	20	70	0(0)	0(0)	506(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)	788(0)	130	58	0(0)	0(0)	24(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Narok North	29	59	0(0)	0(0)	416(0)	244	68	0(0)	0(0)	94(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Narok South	30	60	53(0)	16(0)	339(0)	41	7	0(0)	0(0)	22(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	North Pokot	12	75	0(0)	12(0)	634(0)	150	31	0(0)	0(0)	14(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Pokot Central	18	89	0(0)	0(0)	591(0)	334	138	0(0)	0(0)	26(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu	12	50	0(0)	9(0)	300(0)	0	0	0(0)	0(0)	18(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu East	15	40	0(0)	0(0)	219(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu North	9	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Sotik	29	100	0(0)	0(0)	1194(0)	140	8	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Tinderet	10	80	0(0)	0(0)	236(0)	192	25	0(0)	0(0)	12(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Trans Nzoia East	20	75	0(0)	0(0)	753(0)	646	340	0(0)	0(0)	82(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Trans Nzoia West	22	100	0(0)	11(0)	1499(0)	715	175	0(0)	0(0)	5(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Transmara	39	82	0(0)	40(0)	1158(0)	600	22	0(0)	0(0)	30(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana Central	32	31	0(0)	0(0)	984(0)	236	101	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana North	21	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Turkana South	20	60	0(0)	9(0)	490(0)	72	46	0(0)	0(0)	3(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wareng	37	95	0(0)	0(0)	1148(0)	814	281	0(0)	0(0)	41(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	West Pokot	26	77	20(0)	4(0)	1487(0)	655	97	1(0)	0(0)	123(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Western																
	Bunyala	7	100	0(0)	0(0)	727(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Busia	27	96	0(0)	27(0)	4407(0)	1448	763	0(0)	0(0)	208(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Butere	16	100	0(0)	68(0)	3397(0)	874	361	0(0)	0(0)	81(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	East Bungoma	11	100	0(0)	0(0)	1831(9)	0	0	0(0)	0(0)	63(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Emuhaya	21	95	0(0)	0(0)	1403(0)	113	64	0(0)	0(0)	29(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Hamisi	13	77	0(0)	0(0)	899(0)	190	93	0(0)	0(0)	25(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega Central (Lurambi)	29	97	0(0)	2(0)	3564(0)	1664	735	0(0)	0(0)	61(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega East (Shinyalu)	12	100	0(0)	0(0)	1354(0)	574	97	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega North	16	100	0(0)	0(0)	1350(0)	489	227	0(0)	0(0)	49(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)	1084(0)	100	51	0(0)	0(0)	4(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Lugari	24	100	0(0)	16(0)	2307(0)	0	0	0(0)	0(0)	73(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mt Elgon	16	100	0(0)	3(0)	490(0)	373	194	0(0)	0(0)	57(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mumias	26	81	0(0)	34(0)	3553(0)	1420	635	0(0)	0(0)	32(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	North Bungoma	11	82	0(0)	0(0)	1043(0)	545	336	0(0)	0(0)	3(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samia	9	100	1(0)	6(0)	761(0)	86	29	0(0)	0(0)	7(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	South Bungoma	22	100	0(0)	57(0)	1626(4)	680	312	0(0)	0(0)	62(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Teso	20	75	0(0)	11(0)	2521(1)	269	134	0(0)	0(0)	43(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Vihiga	12	142	0(0)	0(0)	2311(0)	967	572	0(0)	0(0)	171(0)	DNR	0(0)	0(0)	0(0)	0(0)
	West Bungoma	20	80	0(0)	71(0)	1900(0)	1166	759	0(0)	0(0)	54(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
147(0)	1539(0)	148713(54)	48620	19370	6(0)	0(0)	3962(0)	0(0)	1(0)	0(0)	0(0)	0(0)

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