



Republic of Kenya
Ministry of Public Health and Sanitation

WEEKLY EPIDEMIOLOGICAL BULLETIN

Week 15

Week ending 18th April 2010

Provincial & national surveillance indicators for week 15

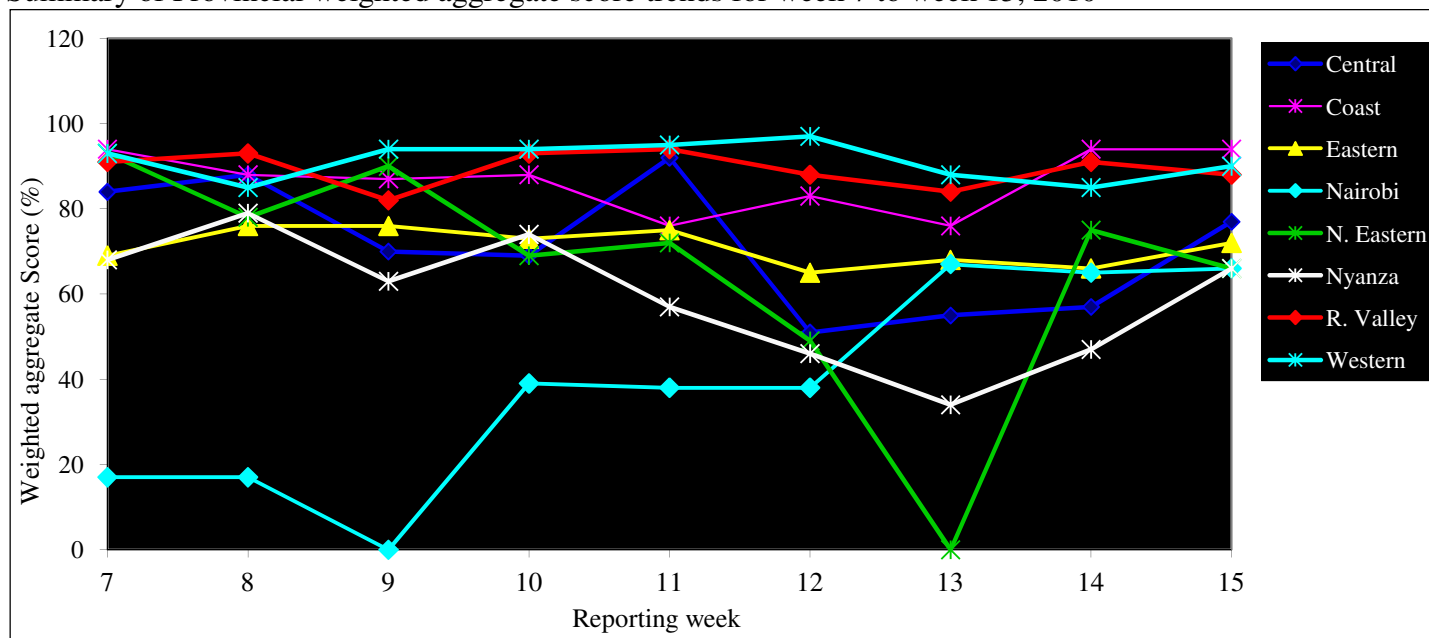
Province	No. of Districts	Reporting on time	Complete reports	Intra-district facility RR (%)	Timeliness (%)	Completeness of reports (%)	Weighted aggregate score (%)
Central	11	9	9	58	82	100	77
Coast	13	13	13	81	100	100	94
Eastern	28	21	21	53	75	100	72
Nairobi	3	2	2	46	67	100	66
N. Eastern	11	8	8	39	73	100	66
Nyanza	21	13	13	55	62	100	66
R. Valley	43	41	41	71	95	100	88
Western	19	17	17	87	89	100	90
National	149	124	124	63	83	100	79

✦ The national average district reporting rate rose from 79% to 84%

✦ The national weighted aggregate score rose from 75% to 80%

✦ Congratulations to Coast Province for attaining 100% district reporting

Summary of Provincial weighted aggregate score trends for week 7 to week 15, 2010



Reports not received from the following 25 Districts

Murang'a North, Thika, Chalbi, Igembe, Kangundo, Laisamis, Machakos, Marsabit, Tharaka, Nairobi East, Garissa, Ijara, Mandera East, Bondo, Borabu, Homa Bay, Kisii South, Kisumu West, Kuria West, Nyamira, South Gucha, Marakwet, Nakuru, Bunyala, Kakamega North (Malava)

<p>⊕ Nationally:</p> <ul style="list-style-type: none"> • Week 15 was characterized by better overall performance than week 14 • The surveillance weighted aggregate score improved from 74% to 79% • The number of districts that submitted reports on time rose from 116 (78%) to 124 (83%) • The intra-district average reporting rate improved from 54% in week 14 to 63% in week 15 <p>⊕ Best performing provinces:</p> <ul style="list-style-type: none"> • Coast (94%) and Western (90%) Provinces had the highest weighted aggregate score while Nairobi, North Eastern and Nyanza Provinces tied at the lowest score of 66% • Coast maintained 100% district reporting rate while Nyanza Province had the lowest reporting rate at 62% (improvement from 33% of week 14) • Western (87%) and Coast (81%) Provinces had the highest intra-district facility reporting rates while North Eastern (39%) and Nairobi (46%) had the lowest intra-district reporting rates <p>⊕ Most improved provinces:</p> <ul style="list-style-type: none"> • Intra-district facility RR: Nyanza (30% to 55%) and Central (39% to 58%) provinces improved the most while North Eastern Province (50% to 39%) declined the most • District reporting rate: Nyanza (33% to 62%) and Central (55% to 82%) improved the most while North Eastern (82% to 73%) and Rift Valley (100% to 95%) Provinces declined in performance <p>⊕ Stability: Western, Rift Valley, and Eastern Provinces are the most consistent while North Eastern and Nairobi Provinces have fluctuated the most</p> <p>⊕ We recognize the 19 (13%) districts [up from 16 (11%) districts in week 14] that attained 100% intra-district reporting: Nyandarua South, Nyeri North, Kilindini, Maara, Meru South, Gucha, Rarienda, Laikipia North, Sotik, Trans Nzoia West, Busia, East Bungoma, Emuhaya, Kakamega East (Shinyalu), Lugari, Mt Elgon, Samia, South Bungoma, West Bungoma</p>	<p style="text-align: center;">Disease specific reports</p> <p><i>Cholera</i></p> <ul style="list-style-type: none"> ⊕ 121 cases (a rise from 76 in week 14) with 1 death (from Narok South) were reported in week 15 ⊕ Msambweni District reported 57 cases (47%) while Baringo North (25), Narok South (24), Kilindini (6), Malindi (4), Loitoktok (3) and Samia (2) reported the rest ⊕ Tharaka district which had an outbreak during this week did not submit its weekly report <p><i>Measles</i></p> <ul style="list-style-type: none"> ⊕ 18 (up from 14 in week 14) suspected cases reported with no death ⊕ Cases reported form Bomet (5), Mwingi (3), Nyandarua North (3), Kirinyaga (1), Malindi (1), Taveta (1), Imenti North (1), Narok North (1), Emuhaya (1) and Lugari (1) ⊕ The laboratory surveillance system investigated 17 case specimen (down from 19 in week 14). One (6%) specimen from Wajir South was finally classified as epidemiologically linked (not tested) while the rest from 12 other districts were finally classified as discarded (Measles IGM negative) <p><i>Malaria</i></p> <ul style="list-style-type: none"> ⊕ Reported cases increased from 124,178 in week 14 to 150,232 in week 15 ⊕ Mortality however fell from 42 cases to 27 cases ⊕ Overall, 48,009 cases (32%) were laboratory tested, yielding a positivity rate of 41% <p><i>Dysentery</i></p> <ul style="list-style-type: none"> ⊕ There was a rise in the number of reported cases from 953 in week 14 to 1,146 with 2 deaths <p><i>Typhoid fever</i></p> <ul style="list-style-type: none"> ⊕ Reported cases increased from 3,050 in week 14 to 3,327 with no death reported <p><i>AFP</i></p> <ul style="list-style-type: none"> ⊕ There was one case reported from Taita District that tested negative <p><i>Meningococcal Meningitis</i></p> <ul style="list-style-type: none"> ⊕ One case (down from 5 in week 14) was reported from Kisumu East district which recovered
--	---

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. 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 15

[illegible]

[illegible]

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	78	0(0)	52(0)	690(0)	0	0	0(0)	0(0)	114(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nairobi West	71	48	0(0)	48(0)	516(0)	941	298	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
North Eastern																
	Fafi	9	56	0(0)	0(0)	278(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Garissa	18	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Ijara	6	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Lagdera	10	54	0(0)	0(0)	366(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mandera Central	11	67	0(0)	0(0)	425(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	5	75	0(0)	0(0)	419(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wajir West	11	50	0(0)	0(0)	143(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wajir East	18	54	0(0)	6(0)	244(0)	0	0	0(0)	0(0)	21(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wajir North	10	50	0(0)	0(0)	140(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wajir South	12	36	0(0)	DNR	134(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)	2596(0)	0	0	0(0)	0(0)	44(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	71	0(0)	7(0)	1990(0)	895	59	0(0)	0(0)	98(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisii South	11	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Kisumu East	55	80	0(0)	4(0)	4192(0)	2080	984	0(0)	1(0)	10(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kisumu West	17	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Kuria East	12	46	0(0)	1(1)	538(0)	32	16	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	94	0(0)	0(0)	447(0)	196	56	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Masaba	30	87	0(0)	0(0)	1410(0)	118	33	0(0)	0(0)	7(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Migori	42	55	0(0)	21(0)	1455(0)	80	50	0(0)	0(0)	21(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

[illegible]

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)	37(1)	847(5)	441	69	0(0)	0(0)	14(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi North	20	80	0(0)	0(0)	518(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Nandi South	16	75	0(0)	0(0)	740(0)	27	9	0(0)	0(0)	25(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Narok North	29	69	0(0)	0(0)	455(0)	222	46	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Narok South	30	67	24(1)	66(0)	361(0)	120	12	0(0)	0(0)	25(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	North Pokot	12	75	0(0)	7(0)	498(0)	222	56	0(0)	0(0)	12(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Pokot Central	18	94	0(0)	0(0)	613(1)	255	105	0(0)	0(0)	43(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu	12	20	0(0)	4(0)	187(0)	0	0	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samburu East	15	33	0(0)	0(0)	345(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)	0(0)	176(0)	0	0	0(0)	0(0)	20(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Sotik	29	100	0(0)	0(0)	1211(0)	284	13	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Tinderet	10	80	0(0)	0(0)	218(0)	171	17	0(0)	0(0)	16(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Trans Nzoia East	30	85	0(0)	0(0)	948(0)	737	348	0(0)	0(0)	105(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Trans Nzoia West	22	100	0(0)	15(0)	1586(0)	724	179	0(0)	0(0)	8(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Transmara	37	97	0(0)	9(0)	1220(0)	285	21	0(0)	0(0)	18(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana Central	32	31	0(0)	0(0)	810(0)	365	241	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana North	21	86	0(0)	4(0)	769(1)	757	277	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Turkana South	20	70	0(0)	8(0)	581(0)	62	24	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Wareng	37	97	0(0)	0(0)	1032(0)	435	256	0(0)	0(0)	15(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	West Pokot	26	88	0(0)	7(0)	1464(1)	591	234	0(0)	0(0)	71(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Western																
	Bunyala	7	0	DNR	DNR	DNR	0	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Busia	27	100	0(0)	16(0)	4313(0)	715	686	0(0)	0(0)	228(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Butere	16	94	0(0)	71(0)	2988(0)	817	363	0(0)	0(0)	39(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	East Bungoma	11	100	0(0)	0(0)	1783(3)	1046	441	0(0)	0(0)	52(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Emuhaya	19	100	0(0)	3(0)	1444(0)	121	84	1(0)	0(0)	20(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Hamisi	13	92	0(0)	0(0)	985(0)	233	103	0(0)	0(0)	24(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega Central (Lurambi)	29	93	0(0)	0(0)	3320(0)	1655	776	0(0)	0(0)	104(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega East (Shinyalu)	12	100	0(0)	0(0)	1075(0)	461	83	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Kakamega North	7	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
	(Malava)															
	Kakamega South (Ikolomani)	10	90	0(0)	0(0)	2702(0)	78	58	0(0)	0(0)	6(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Lugari	24	100	0(0)	8(0)	1586(0)	0	0	1(0)	0(0)	67(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mt Elgon	16	100	0(0)	0(0)	509(0)	0	0	0(0)	0(0)	37(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Mumias	26	77	0(0)	22(0)	3158(0)	893	221	0(0)	0(0)	10(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	North Bungoma	11	82	0(0)	0(0)	1027(0)	488	323	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Samia	9	100	2(0)	0(0)	884(0)	73	30	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	South Bungoma	22	100	0(0)	15(0)	2148(1)	1078	562	0(0)	0(0)	75(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Teso	20	65	0(0)	3(0)	2335(2)	185	135	0(0)	0(0)	28(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	Vihiga	21	71	0(0)	0(0)	2149(0)	721	482	0(0)	0(0)	83(0)	0(0)	0(0)	0(0)	0(0)	0(0)
	West Bungoma	20	100	0(0)	0(0)	2135(0)	1327	975	0(0)	0(0)	77(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
				121(1)	1146(2)	150232(27)	48009	19542	18(0)	1(0)	3327(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