

# Republic of Kenya Ministry of Public Health and Sanitation

# WEEKLY EPIDEMIOLOGICAL BULLETIN

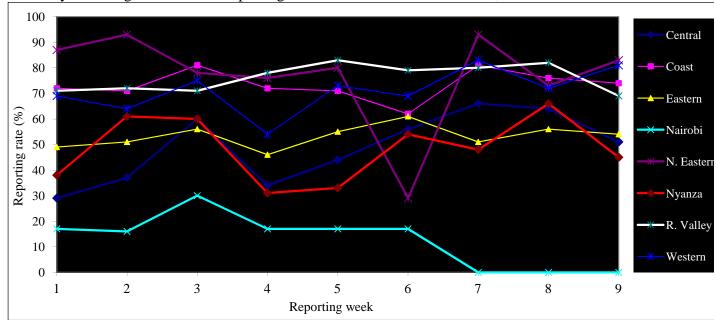
Week 9

Week ending 7<sup>th</sup> March 2010

Provincial & national surveillance indicators for week 9

Province	No. of Districts	Reporti ng on time	Complete reports	Intra-district facility RR (%)	Timel iness (%)	Completeness of reports (%)	Weighted aggregate score (%)	The National average district
Central	11	8	8	51	73	100	70	reporting rate
Coast	13	12	12	74	92	100	87	declined to 82% Congratulations
Eastern	28	23	23	54	82	100	76	to Western
Nairobi	3	0	0	0	0	0	0	Province for reclaiming top
N. Eastern	11	10	10	83	91	100	90	spot aggregate
Nyanza	21	13	13	45	62	100	63	score  No reports
R. Valley	43	36	36	69	84	100	82	received from Nairobi Province
Western	19	19	19	81	100	100	94	3 weeks running
National	149	121	121	61	81	100	78	

Summary of average intra-district reporting rate trends for week 1 to week 9, 2010



# Reports not received from the following Districts

Muranga North, Nyandarua North, Thika, Msambweni, Chalbi, Laisamis, Mwingi, Tharaka, Tigania, Nairobi East, Nairobi North, Nairobi West, Mandera Central, Bondo, Gucha, Kisumu West, Manga, Nyamira, Nyando, Rachuonyo, Siaya, East Pokot, Eldoret West, Kipkelion, Marakwet, Nakuru, Nandi North, Samburu East

# • Nationally:

- The surveillance weighted aggregate score dropped marginally from 81% to 78%
- The number of districts that submitted reports on time reduced from 130 (87%) to 121 (81%)
- The intra-district average reporting rate remained at 61%
- Best performing provinces:
  - Western Province had the highest weighted score at 94% while Nairobi province had the lowest score at 0%
  - All districts in Western Province reported (100% reporting rate) followed by Coast Province (92%) and North Eastern Province (91%).
  - None of the 3 Nairobi districts reported
- Most improved provinces:
  - Intra-district facility RR: North Eastern province improved the most from 73% to 83% while Nyanza, Central and Rift Valley dropped the most
  - Districts reporting rate: North Eastern (73% to 91%) and Western (89% to 100%) improved the most while Central (100% to 73%) and Nyanza (81% to 62%) declined the most
- The number of Districts from which reports were not received increased from 19 in week 8 to 28 in week 9
- Eighteen (12%) districts had 100% intra-district reporting rate: Kilindini, Taveta, Maara, Meru South, Borabu, Kisii Central, Kisii South, Suba, Sotik, Trans-Nzoia West, Busia, Butere, East Bungoma, Kakamega East, Kakamega North, Lugari, Mt. Elgon, Samia
  - A decline by one district

# Disease specific reports

## Cholera

- There were no cases of cholera reported in week 9 through the weekly IDSR system
- Msambweni District from the Coast Province and Tharaka District from Eastern Province that had a cholera outbreak at this time did not report for this week

#### Measles

- Ten suspected cases were reported from Loitoktok (3), Naivasha (2), Laikipia East (2), West Pokot (2) and Samburu (1)
- The laboratory surveillance system investigated 52 case specimen during the week. Four specimen (7.7%) (two from Garisa and two from Wajir East) tested positive for measles IgM while another 18 (34.6%) from Wajir South were finally classified as epidemiologically linked. The remaining were finally classified as discarded.

#### Malaria

- Properties Reported cases reduced by 24,522 to 151,542
- The reported deaths also dropped from 60 to 37

#### Dysentery

- There was a reduction in the number of reported cases from 1,306 to 1,107 in week 9
- One death was reported

#### *Typhoid fever*

- The number of reported cases reduced from 3,800 to 3245
- No deaths were reported

## AFP

One case of AFP was reported from Kinango
 District. It however tested negative for polio virus

#### Other diseases

• No cases of meningitis, NNT and VHF were reported in the week

For comments please contact: Head,

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# Summary of Weekly Integrated Disease Surveillance and Response Report for week 9

		Donort	%										
Province	Districts	Report Expected	RR	Cholera	Dysentery	Malaria	Measles	Meningitis	Typhoid	AFP	NNT	VHF	Others
Central		LAPCCICU	IXIX										
Contrai	Gatundu	43	86	0(0)	0(0)	249(0)	0(0)	0(0)	9(0)	0(0)	0(0)	0(0)	DNR
	Kiambu East			0(0)					155(0)	0(0)	0(0)		DNR
	Kiambu West			0(0)					83(0)	0(0)	0(0)		DNR
	Kirinyaga			0(0)	0(0)				0(0)	0(0)	0(0)		DNR
	Murang'a												
	North	41	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Murang'a				- 4-1					- 4-5		>	
	South	40	53	0(0)	0(0)	1065(0)	0(0)	0(0)	50(0)	0(0)	0(0)	0(0)	DNR
	Nyandarua		_										
	North	27	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Nyandarua			- (-)	- (-)	(.)	- (-)	. (2)	(-)	- (-)	- (-)	- (-)	
	South	22	91	0(0)	0(0)	195(0)	0(0)	0(0)	25(0)	0(0)	0(0)	0(0)	DNR
	Nyeri North	70	79	0(0)	0(0)	837(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Nyeri South		53	0(0)		306(0)		1 1	0(0)	0(0)	0(0)		DNR
	Thika			DNR		DNR			DNR	DNR	DNR	DNR	DNR
Coast													
	Kaloleni		61	0(0)	43(0)	1442(0)			7(0)	0(0)	0(0)	0(0)	DNR
	Kilifi		95	0(0)	82(0)	2619(0)			0(0)	0(0)	0(0)	0(0)	DNR
	Kilindini		100	0(0)	8(0)	1968(0)			0(0)	0(0)	0(0)	0(0)	DNR
	Kinango		75	0(0)	23(0)	2183(4)	0(0)	0(0)	3(0)	0(0)	0(0)	0(0)	DNR
	Kwale		85	0(0)	5(0)	998(0)	0(0)	0(0)	4(0)	0(0)	0(0)	0(0)	DNR
	Lamu		70	0(0)	0(0)	768(0)			0(0)	0(0)	0(0)	0(0)	DNR
	Malindi		57	0(0)	33(0)				0(0)	0(0)	0(0)		DNR
	Mombasa		63	0(0)	0(0)				5(0)	0(0)	0(0)		DNR
	Msambweni			DNR		DNR			DNR	DNR	DNR		DNR
	Taita		91	0(0)	0(0)				0(0)	0(0)	0(0)		DNR
	Tana Delta			0(0)		979(0)			0(0)	0(0)	0(0)		DNR
	Tana River			0(0)		632(1)		1 1	12(0)	0(0)	0(0)		DNR
	Taveta	10	100	0(0)	5(0)	990(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
Eastern													
	Chalbi		0	DNR		DNR			DNR	DNR			DNR
	Embu			0(0)					35(0)	0(0)	0(0)		DNR
	Garbatula								0(0)	0(0)			DNR
	lgembe			0(0)					0(0)	0(0)			DNR
	lmenti North			0(0)					DNR	0(0)	0(0)		DNR
	Imenti Souith			0(0)					100(0)	0(0)	0(0)		DNR
	Isiolo			0(0)		659(0)			0(0)	0(0)	0(0)		DNR
	Kangundo			0(0)		779(0)			0(0)	0(0)	0(0)		DNR
	Kibwezi			0(0)	1(0)				126(0)	0(0)	0(0)		DNR
	Kitui			0(0)					22(0)	0(0)	0(0)		DNR
	Kyuso			0(0)		821(0)			0(0)	0(0)	0(0)		DNR
	Laisamis			DNR		DNR			DNR	DNR			DNR
	Maara			0(0)	0(0)			0(0)	13(0)	0(0)	0(0)		DNR
	Machakos			0(0)		559(0)			25(0)	0(0)	0(0)		DNR
	Makueni			0(0)	0(0)				0(0)	0(0)	0(0)		DNR
	Marsabit			0(0)		302(0)			0(0)	0(0)	0(0)		DNR
	Mbeere								21(0)	0(0)	0(0)		DNR
	Mbooni			0(0)		731(0)			7(0)	0(0)	0(0)		DNR
	Meru Central			0(0)		962(0)			20(0)	0(0)	0(0)		DNR
	Meru South	20	100	0(0)	0(0)	1466(0)	0(0)	0(0)	15(0)	0(0)	0(0)	0(0)	DNR

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Province	Districts	Report Expected	% RR	Cholera	Dysentery	Malaria	Measles	Meningitis	Typhoid	AFP	NNT		Others
	Moyale	15	73		8(0)	480(0)		0(0)	7(0)	0(0)			DNR
	Mutomo	16	69		8(0)	762(0)			5(0)	0(0)			DNR
	Mwala	33	82	0(0)	0(0)	1222(0)	0(0)	0(0)	36(0)	0(0)	0(0)	0(0)	DNR
	Mwingi	45	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Nzaui	43	30	0(0)	0(0)	947(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Tharaka	17	0	DNR		DNR		DNR		DNR			DNR
	Tigania	28	0	DNR		DNR		DNR		DNR			DNR
	Yatta	43	53	0(0)	22(0)	1431(0)		0(0)		0(0)			DNR
Nairobi					(0)	( . )			(5)	- (-)		- (-)	
	Nairobi East	51	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Nairobi North	97	0	DNR		DNR		DNR		DNR	DNR		DNR
	Nairobi West	71	0	DNR		DNR		DNR		DNR		DNR	
North													
Eastern													
Lustonii	Fafi	4	50	0(0)	0(0)	125(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Garissa	4 23	50 57			1131(0)							DNR
								0(0)		0(0)			DNR
	ljara	6	67	0(0)		382(0)		0(0)		0(0)			
	Lagdera	13	46	0(0)	27(0)	269(0)	0(0)	0(0)	27(0)	0(0)	0(0)	0(0)	DNR
	Mandera Central	11	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Mandera East	8	63	0(0)	14(0)	320(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Mandera West	8	50	0(0)		200(0)		0(0)		0(0)			DNR
	Wajir West	8	50	0(0)		225(0)		0(0)		0(0)			DNR
	Wajir East	13	62	0(0)		319(0)		0(0)		0(0)			DNR
		8	75	0(0)		240(0)		0(0)		0(0)			DNR
	Wajir South	10	40	0(0)		285(0)		0(0)		0(0)			DNR
Nyanza	wajii 30atii	10	70	0(0)	0(0)	203(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DIVIN
TTYGITZG	Bondo	24	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Borabu	14	100	0(0)	0(0)	385(0)		0(0)		0(0)	0(0)		DNR
	Gucha	14	_	DNR		DNR		DNR		DNR			DNR
			0 85										
	Homa Bay Kisii Central	20	100	0(0)	0(0)	1189(0)		0(0)		0(0)			DNR
		33 11				2815(0)		0(0)		0(0)			DNR
	Kisii South		100		5(0)	745(0)		0(0)		0(0)			DNR
		54	78			4668(0)	0(0)	1(0)		0(0)			DNR
	Kisumu West	17	0			DNR		DNR		DNR		DNR	
	Kuria East	13	77	0(0)		380(0)		0(0)		0(0)			DNR
		24	33			700(0)		0(0)		0(0)			DNR
	Manga	17	0	DNR		DNR		DNR		DNR			DNR
	Masaba	30	93	0(0)	0(0)	1423(0)		0(0)		0(0)			DNR
	Migori	42	50	0(0)				0(0)		0(0)			DNR
	Nyamira	45	0			DNR		DNR		DNR		DNR	
	Nyando	30	0			DNR		DNR		DNR		DNR	
	Rachuonyo	50	0			DNR		DNR		DNR		DNR	
	Rarienda	18	94	0(0)		2286(0)		0(0)		0(0)			DNR
1	Rongo	32	63	0(0)			0(0)	0(0)	88(0)	0(0)			DNR
1		70	0	DNR	DNR	DNR		DNR		DNR			DNR
	Siaya	70	U				0(0)	0(0)			0(0)	0/0)	DNR
		34	76	0(0)	1(0)	1007(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DIVIN
	South Gucha		76	0(0)		1007(0) 3944(0)							DNR
Rift Valley	South Gucha Suba	34 40	76 100	0(0) 0(0)	115(0)	3944(0)	0(0)	0(0)	62(0)	0(0)	0(0)	0(0)	DNR
J	South Gucha Suba Baringo	34 40 50	76 100 68	0(0) 0(0) 0(0)	115(0) 0(0)	3944(0) 654(0)	0(0)	0(0) 0(0)	62(0) 16(0)	0(0)	0(0)	0(0)	DNR DNR
	South Gucha Suba Baringo Baringo North	34 40 50 33	76 100 68 52	0(0) 0(0) 0(0) 0(0)	115(0) 0(0) 10(0)	3944(0) 654(0) 369(0)	0(0) 0(0) 0(0)	0(0) 0(0) 0(0)	62(0) 16(0) 5(0)	0(0) 0(0) 0(0)	0(0) 0(0) 0(0)	0(0) 0(0) 0(0)	DNR DNR DNR
	South Gucha Suba Baringo	34 40 50	76 100 68	0(0) 0(0) 0(0) 0(0) 0(0)	115(0) 0(0)	3944(0) 654(0)	0(0) 0(0) 0(0) 0(0)	0(0) 0(0)	62(0) 16(0) 5(0) 79(0)	0(0)	0(0) 0(0) 0(0) 0(0)	0(0) 0(0) 0(0) 0(0)	DNR DNR

		D 1	0/				I						
Province	Districts	Report Expected	% RR	Cholera	Dysentery	Malaria	Measles	Meningitis	Typhoid	AFP	NNT	VHF	Others
	East Pokot	9	0			DNR		DNR	DNR	DNR		DNR	
			86		0(0)	1560(0)		0(0)	42(0)	0(0)			DNR
			0			DNR		DNR	DNR	DNR			DNR
			49		51(0)	1443(0)		0(0)	25(0)	0(0)			DNR
	Keiyo	36	89	0(0)	0(0)	911(1)	0(0)	0(0)	34(0)	0(0)	0(0)	0(0)	DNR
	Kericho	30	97	0(0)	0(0)	1472(0)		0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Kipkelion	54	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Koibatek	35	60		4(0)	1111(0)	0(0)	0(0)	5(0)	1(0)	0(0)	0(0)	DNR
	Kwanza	17	71	0(0)	0(0)	838(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Laikipia East	14	79	0(0)	0(0)	244(0)	2(0)	1(1)	1(0)	0(0)	0(0)	0(0)	DNR
	Laikipia North	9	78	0(0)	3(0)	82(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Laikipia West	25	92			919(0)	0(0)	0(0)	6(0)	0(0)	0(0)	0(0)	DNR
	Loitoktok	23	57	0(0)	57(0)	562(0)	3(0)	0(0)	114(0)	0(0)	0(0)	0(0)	DNR
	Marakwet	54	0	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
	Molo	34	56	0(0)	0(0)	447(0)	0(0)	0(0)	12(0)	0(0)	0(0)	0(0)	DNR
	Naivasha	35	91		42(0)	1595(0)		0(0)	128(0)	0(0)			DNR
	Nakuru	28	0		DNR	DNR		DNR	DNR	DNR			DNR
	Nakuru North	29	93	0(0)	0(0)	950(0)	0(0)	0(0)	23(0)	0(0)	0(0)	0(0)	DNR
	Nandi Central	22	45	0(0)	0(0)	436(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Nandi East	32	72		26(0)	947(2)		0(0)	25(0)	0(0)	0(0)	0(0)	DNR
	Nandi North	21	0			DNR		DNR		DNR		DNR	DNR
	Nandi South	16	81	0(0)	0(0)	935(0)	0(0)	0(0)	12(0)	0(0)	0(0)	0(0)	DNR
	Narok North	29	59			542(1)		0(0)	16(0)	0(0)			DNR
	Narok South	30	83			596(0)		0(0)	44(0)	0(0)			DNR
			75			620(0)		0(0)	32(0)	0(0)			DNR
	Pokot Central		94	0(0)		839(0)		0(0)	20(0)	0(0)			DNR
	Samburu	12	58	0(0)		418(0)		0(0)	8(0)	0(0)			DNR
	Samburu East	9	0			DNR		DNR	DNR	DNR			DNR
	Samburu North	15	13	0(0)	0(0)	77(0)		0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Sotik	29	100	0(0)	0(0)	1465(0)		0(0)	0(0)	0(0)			DNR
	Tinderet	10	80			232(0)		0(0)	19(0)	0(0)			DNR
	Trans Nzoia	20	OΓ						27(0)				DND
	East Trans Nzoia	20	95	0(0)	0(0)	800(0)	0(0)	0(0)	37(0)	0(0)	0(0)	0(0)	DNR
	West	22	100		11(0)	1525(0)		0(0)		0(0)			DNR
	Transmara	39	90	0(0)	24(0)	1598(0)	0(0)	0(0)	24(0)	0(0)	0(0)	0(0)	DNR
	Turkana Central	32	75	0(0)	3(0)	1288(0)	0(0)	0(0)	9(0)	0(0)	0(0)	0(0)	DNR
		21	67	0(0)	0(0)	428(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
		18	6			34(0)		0(0)	0(0)	0(0)			DNR
	Wareng		97		0(0)	1259(0)		0(0)	28(0)	0(0)			DNR
	•		81		0(0)	, ,		0(0)		0(0)			DNR
Western													
	Bunyala		86	0(0)		959(0)		0(0)		0(0)			DNR
		27						0(0)	197(0)	0(0)			DNR
		16						0(0)	45(0)	0(0)			DNR
	East Bungoma	16			0(0)	1501(13)		2(2)	0(0)	0(0)			DNR
			43		5(0)	790(0)		0(0)	26(0)	0(0)			DNR
	Hamisi 	13	85	0(0)	6(0)	631(0)	0(0)	0(0)	21(0)	0(0)	0(0)	0(0)	DNR
	Kakamega			- (-)	- (-)		_	- (-)	2.463	. (5)	- /		
		29	93	0(0)	0(0)	4038(0)	0(0)	0(0)	81(0)	0(0)	0(0)	0(0)	DNR
	(Lurambi)	10	100	0(0)	0(0)	1000(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DND
<u></u>	Kakamega East	ΙU	100	0(0)	0(0)	1009(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR

Province	Districts	Report Expected	% RR	Cholera	Dysentery	Malaria	Measles	Meningitis	Typhoid	AFP	NNT	VHF	Others
	(Shinyalu) Kakamega North (Malava) Kakamega	16	100	0(0)	0(0)	1431(1)	0(0)	0(0)	56(0)	0(0)	0(0)	0(0)	DNR
	South (Ikolomani)	10	80	0(0)	0(0)	745(0)	0(0)	0(0)	7(0)	0(0)	0(0)	0(0)	DNR
	Lugari	24	100	0(0)	8(0)	2483(0)	0(0)	0(0)	98(0)	0(0)	0(0)	0(0)	DNR
	Mt Elgon	16	100			1064(0)			54(0)	0(0)			DNR
	Mumias	24	75	0(0)	17(0)	2724(0)			46(0)	0(0)	0(0)	0(0)	DNR
	North Bungoma	11	55	0(0)	0(0)	673(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Samia	9	100	0(0)	17(0)	864(0)	0(0)	0(0)	7(0)	0(0)	0(0)	0(0)	DNR
	South Bungoma	24	92	0(0)	0(0)	2009(1)	0(0)	0(0)	45()	0(0)	0(0)	0(0)	DNR
	Teso	20	60	0(0)	0(0)	2505(6)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	DNR
	Vihiga	21	43	0(0)	0(0)	1550(0)	0(0)	0(0)	98(0)	0(0)	0(0)	0(0)	DNR
	West bungoma	20	85	0(0)	90(0)	2118(0)	0(0)	0(0)	74(0)	0(0)	0(0)	0(0)	DNR

Cholera	Dysentery	Malaria	Measles	Meningitis	Typhoid	AFP	NNT	VHF	Others
0(0)	1107(1)	151542(37)	10(0)	4(3)	3245(0)	1(0)	0(0)	0(0)	0(0)

# Key

DNRDistrict did not report for this diseaseMMMeningococcal MeningitisAFPAcute Flaccid ParalysisVHSViral Hemorrhagic FeverNNTNeonatal TetanusNEPNorth Eastern Province

**HF** Health Facilities % **RR** Health Facility reporting rate for this

week

Timely reports Reports received before Wednesday

Completeness (Intra-district)Proportion of health facilities reporting in a district/provinceTimelinessProportion of district in a province/country reporting on time

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