

# MDSC Meningitis Weekly Bulletin

**Bulletin Hebdomadaire de retro-information sur la méningite cérébrospinale**  
*Weekly feedback bulletin on cerebrospinal meningitis*

Semaine / Week 20 2009

## I. SITUATION EPIDÉMIologIQUE DE LA SEMAINE 20 (11 au 17 mai 2009) 2009 *EPIDEMIOLOGICAL SITUATION OF WEEK 20 (11 to 17 May 2009) 2009*

**Tableau/ Table 1 : Situation épidémiologique de la semaine 20 (11 au 17 mai 2009) 2009 /**  
*Epidemiological Situation week 20 (11 to 17 May 2009) 2009*

Pays	Cas	Décès	Létalité (%)	District en Alerte	District en Epidémie	Complét. (%)	NmA	NmW135	Autres Nm	Pneum	Hib
Country	Case	Death	Letality	District in Alert	District in Epidemic	Completeness (%)	NmA	NmW135	Other Nm	Pneum	Hib
Benin	1	0	0.0	0	0	98.7	0	0	0	0	0
Burkina Faso	66	11	16.7	0	0	100.0	-	-	-	-	-
Cameroun	-	-	-	-	-	-	-	-	-	-	-
Centrafrique	-	-	-	-	-	-	-	-	-	-	-
Côte d'Ivoire	2	1	50.0	0	0	98.6	0	0	0	1	0
Ethiopia	-	-	-	-	-	-	-	-	-	-	-
Ghana	2	0	0.0	0	0	-	-	-	-	-	-
Guinée	-	-	-	-	-	-	-	-	-	-	-
Mali	7	0	0.0	0	0	100.0	-	-	-	-	-
Niger	89	3	3.4	2	0	100.0	-	-	-	-	-
Nigeria	307	6	2.0	6	4	70.8	-	-	-	-	-
RD Congo**	52	5	9.6	0	0	9.2	-	-	-	-	-
Tchad	22	3	13.6	0	0	100.0	-	-	-	-	-
Togo	6	0	0.0	0	0	97.1	-	-	-	-	-
Total	554	29	5.2	8	4	65.1	0	0	0	1	0

\* Identification par / identification by: PCR, LATEX, CULTURE

\*\* Définition des seuils d'alerte/épidémique non applicable à ce pays situé en dehors de la ceinture de la méningite  
*Definition of alert/epidemic thresholds not applicable to this country outside the meningitis belt*

**Commentaires:**

**Niger :**

- District en alerte: Abalak et Bilma.

**Nigeria :** 4 LGAs en épidémie et 6 LGAs en alerte  
(Voir les détails à la page 3, 4 et 5).

**Comments:**

**Niger:**

- District in alert: Abalak and Bilma.

**Nigeria:** 4 LGAs in epidemic and 6 LGAs in alert  
(See details on page 3, 4 and 5).

**Nous contacter / Contact us:**

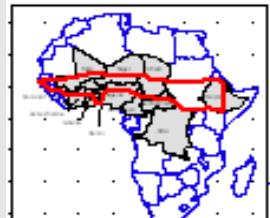
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<http://www.meningvax.org/press-reports.htm>

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*The data published in this bulletin are weekly informations. They are susceptible to change after completeness and verification.*

Pays sous Surveillance  
Renforcée de la Méningite dans  
la Région Africaine de l'OMS

*Countries under Enhanced  
Surveillance of Meningitis in the  
WHO African Region*



## II. SYNTHESE DE LA SITUATION EPIDEMIOLOGIQUE 2009 (SEMAINES NOTIFIEES 01 – 20) SYNTHESIS OF THE EPIDEMIOLOGICAL SITUATION 2009 (REPORTED WEEKS 1 – 20)

**Tableau/ Table 2:** Synthèse de la situation épidémiologique (**semaines notifiées**)  
*Synthesis of the epidemiological situation (**reported weeks**)*

Pays	Cas	Décès	Létalité (%)	District en Alerte	District en Epidémie	Semaines notifiées	En districts (%)	En semaines (%)
Country	Case	Death	Letality (%)	District in Alert	District in Epidemic	Reported weeks	In districts (%)	In weeks
<b>Benin</b>	201	24	11.9	1	0	01-20	98.7	99.9
<b>Burkina Faso</b>	3 807	480	12.6	11	3	01-20	100.0	100.0
Cameroun	-	-	-	-	-	-	-	-
Centrafrique	275	43	15.6	2	1	01-17	100.0	83.1
<b>Côte d'Ivoire</b>	<b>185</b>	<b>34</b>	<b>18.4</b>	<b>0</b>	<b>0</b>	<b>01-20</b>	<b>100.0</b>	<b>72.7</b>
Ethiopie	41	6	14.6	0	0	01-15	-	-
<b>Ghana</b>	<b>217</b>	<b>38</b>	<b>17.5</b>	<b>0</b>	<b>0</b>	<b>01-20</b>	-	-
Guinée	81	8	9.9	0	0	01-13	-	-
<b>Mali</b>	<b>211</b>	<b>18</b>	<b>8.5</b>	<b>0</b>	<b>0</b>	<b>01-20</b>	<b>100.0</b>	<b>100.0</b>
Niger	12 462	501	4.0	12	23	01-20	100.0	100.0
<b>Nigeria</b>	<b>51 869</b>	<b>2 294</b>	<b>4.4</b>	<b>47</b>	<b>167</b>	<b>01-20</b>	<b>70.8</b>	<b>99.9</b>
<b>RD Congo**</b>	<b>2 296</b>	<b>241</b>	<b>10.5</b>	<b>26</b>	<b>6</b>	<b>01-20</b>	<b>20.3</b>	<b>81.3</b>
<b>Tchad</b>	<b>1 244</b>	<b>137</b>	<b>11.0</b>	<b>6</b>	<b>3</b>	<b>01-20</b>	<b>100.0</b>	<b>98.8</b>
<b>Togo</b>	<b>192</b>	<b>23</b>	<b>12.0</b>	<b>1</b>	<b>0</b>	<b>01-20</b>	<b>100.0</b>	<b>99.4</b>
<b>Total</b>	<b>73 081</b>	<b>3 847</b>	<b>5.3</b>	<b>106</b>	<b>203</b>	<b>01-20</b>	<b>69.8</b>	<b>96.3</b>

\*\* Définition des seuils d'alerte/épidémique non applicable à ce pays situé en dehors de la ceinture de la méningite  
Definition of Alert/epidemic thresholds not applicable to this country outside the meningitis belt

Commentaires:	Comments:
Seul le Nigeria présente 4 LGAs (districts) en épidémie à la semaine 20.	At week 20, only Nigeria reported 4 epidemic LGAs (districts).
A quelques semaines de la fin de la saison épidémique de la méningite, les pays sont invités à mettre à jour leurs données de méningite envoyées à l'OMS en vue d'améliorer la complétude.	At few weeks from the end of this epidemic season, countries are urged to update their meningitis data sent to WHO in order to improve its completeness.
Le Cameroun reste le pays silencieux depuis le début de la saison épidémique.	Cameroun remained the only silent country from the beginning of the epidemic season.

**Tableau/ Table 3: Pathogènes identifiés par PCR, Latex, Culture (semaines notifiées 2009)/**  
*Pathogens identified by PCR, Latex, Culture (reported weeks 2009)*

Pays	Nombre LCR	LCR contam	LCR negativ	NmA	NmW135	Autres Nm	S.Pneum	Hib	Autres Patho
Country	Number LCR	LCR contam	LCR negativ	NmA	NmW135	Other Nm	S.Pneum	Hib	Other Patho
Benin	114	0	49	0	3	0	45	0	17
Burkina Faso	275	5	151	36	3	0	78	0	2
Cameroun	-	-	-	-	-	-	-	-	-
Centrafrique	-	-	-	-	-	-	-	-	-
Côte d'Ivoire	104	0	90	0	0	1	7	6	0
Ethiopie	-	-	-	-	-	-	-	-	-
Ghana	11	0	0	1	1	0	8	1	0
Mali	53	0	34	16	2	0	1	0	0
Niger	3 390	0	1 791	1 451	9	5	61	10	36
Nigeria	105	0	42	53	7	0	2	0	1
RD Congo	-	-	-	-	-	-	-	-	-
Tchad	295	0	116	45	59	0	67	8	0
Togo	-	-	-	-	-	-	-	-	-
Total	4 347	5	2 273	1 602	84	6	269	25	56

Pathogen Identification par /Pathogen identification by: PCR, LATEX, CULTURE

Commentaires:	Comments:
La proportion des cas suspects ayant bénéficié de prélèvement d'échantillon et de résultats laboratoire reste faible en dehors du Niger où un effort appréciable est fait chaque année pour la confirmation du maximum de cas suspects.	The proportion of cases with laboratory samples taken is globally weak in the countries except in Niger where every year the system in place allows them to get a good number of laboratory confirmed cases.

## **Situation Épidémiologique de la méningite du Nigeria 2009/ (1/3)**

### *Meningitis epidemiological situation 2009*

## **Situation Épidémiologique de la méningite du Nigeria 2009/ (2/3)**

### *Meningitis epidemiological situation 2009*

SN	State	LGA	Population	Wk 01 Attack Rate	Wk 02 Attack Rate	Wk 03 Attack Rate	Wk 04 Attack Rate	Wk 05 Attack Rate	Wk 06 Attack Rate	Wk 07 Attack Rate	Wk 08 Attack Rate	Wk 09 Attack Rate	Wk 10 Attack Rate	Wk 11 Attack Rate	Wk 12 Attack Rate	Wk 13 Attack Rate	Wk 14 Attack Rate	Wk 15 Attack Rate	Wk 16 Attack Rate	Wk 17 Attack Rate	Wk 18 Attack Rate	Wk 19 Attack Rate	Wk 20 Attack Rate			
73	Jigawa	Malam-Maduri	175,867			1.14		1.71	11.94	11.94	17.08	14.78	12.51	14.78	42.08		6.82	53.45	25.09							
74	Jigawa	Miga	139,924		1.43		16.44	8.58	8.58	7.88	18.58	37.16	30.45	62.18		22.87		27.87	5.73							
75	Jigawa	Ringim	209,219					0.96	0.48	7.65	16.73	20.69	31.55	38.28	22.94				30.59	13.38						
76	Jigawa	Roni	84,787						7.08		16.51	16.51	11.79		83.74		8.26	16.51								
77	Jigawa	Sule-Tankarkar	142,566			13.33	7.73	14.73					47.00		30.86	20.34	49.80	14.73					4.91			
78	Jigawa	Taura	143,555					2.09	27.89				66.18	0.70	190.17				33.44	34.84						
79	Jigawa	Yankwashi	104,334							10.54	4.79	4.79			7.67	6.71	24.92	25.88			28.75	9.58	12.46			
80	Kaduna	Igabi	470,123							3.83	1.49	0.64		3.83	10.42	13.40	12.34	3.40	3.19							
81	Kaduna	Ikara	211,908		3.30	8.97	8.49	6.13	5.19	15.97	11.80	6.61	4.72	3.30		4.25	4.72	2.83								
82	Kaduna	Kauru	185,772									1.08	0.54			3.23			6.46	2.15						
83	Kaduna	Lere	361,869							0.28	2.76		5.26	3.59	7.46	9.95	4.97	1.66	2.21							
84	Kaduna	Makarfi	159,821							22.53		1.80	6.26	13.14	8.76	16.89	8.13	5.63	3.13	0.63	1.25					
85	Kano	Ajingi	191,952			1.04			0.52	3.13	6.77	5.21	7.81	10.94	14.59	19.28	22.99	6.25	5.21							
86	Kano	Albasu	209,606						0.48	2.86	0.48		3.82	6.20	10.97	20.98	2.86									
87	Kano	Bagwai	179,507	5.01	3.34	4.46	5.57	8.91	11.14	16.16	31.75	22.84	16.16	27.95	27.30	10.58	6.13	5.01	3.34	0.56						
88	Kano	Bebaji	208,180		4.32	0.96	5.28	2.40	3.36	1.92		4.80	8.17	13.93	29.30	53.80	38.43	29.78	4.32	2.88						
89	Kano	Bichi	305,447			0.33	3.93	2.62	9.82	21.61	10.80	10.15	22.26			49.76	61.55	60.89	25.54		3.93					
90	Kano	Bunkure	188,374						0.53		2.12		0.53	1.59	7.43	15.39										
91	Kano	D/Kudu	248,447							2.82	5.23		6.44	6.44	2.01	4.43	0.81	25.36	32.20		10.87	1.21				
92	Kano	D/Tofa	273,233						0.37		0.73	2.20	5.86	4.03	17.93	24.52	0.73					0.73				
93	Kano	Dala	461,619			0.22			0.22	0.43		2.38	1.52	4.96	8.23	3.03							1.52			
94	Kano	Dambatta	229,244						2.18	2.18	11.76	17.88	22.25	18.32	30.97	27.92	47.98	19.63	10.47	5.67	2.18	1.31	1.74			
95	Kano	Doguwa	166,647								1.80	2.40	2.40	19.20			1.20									
96	Kano	Fagge	219,169				3.19	0.91	0.91			3.19	4.56	9.13	19.97	31.03	39.24	20.99	17.34	9.58	2.28					
97	Kano	G/Mallam	128,412						2.34			10.90		5.45	7.01	17.91	35.04		6.23							
98	Kano	Garko	179,124						8.37	3.35	2.79	5.02	1.12	4.47		12.28	16.75	13.98	12.28	10.05			1.35			
99	Kano	Gaya	221,581			3.16	0.45			1.81	5.42	0.90	1.81	0.45	4.06	0.90			4.51				0.64			
100	Kano	Gezawa	310,925				1.61	0.32	0.64		1.93	2.57	5.79	5.47	5.47	4.18		5.47	0.96					1.00		
101	Kano	Gwale	399,099							0.50			0.75	5.01	9.27	5.51	12.53	1.25								
102	Kano	Gwarzo	202,809		3.94		2.47	2.96	13.81	10.27	4.93		0.49	1.48	16.76	40.93	9.38	7.40	4.44	1.97						
103	Kano	Kabo	169,565					0.59		7.08	7.67	2.95	7.67	7.08	53.09	53.07	66.05	21.72	16.39	5.90	2.95	1.18		0.25		
104	Kano	Kano Mun.	402,919						0.99	0.25		5.21	1.99	2.98	8.44			2.98								
105	Kano	Karaye	155,873		1.28	1.28			7.70	14.13	7.06		12.19	19.20	4.49	5.77										
106	Kano	Kibiyia	150,724								1.99	37.15	49.81	13.93	5.31	5.97				1.99						
107	Kano	Kiru	291,869	0.34	0.34	3.08	7.54	3.77	1.37	3.77			0.69	1.71	0.69	0.34	4.11	2.06								
108	Kano	Kumbotso	326,259							0.31	0.92	0.92	7.36	3.68	5.21	9.28	14.41	4.29	3.07	0.92						
109	Kano	Kunchi	122,375					0.82		7.35	7.35	17.36	10.63		8.17	9.81		2.45	2.45	0.82						
110	Kano	Kura	159,394			2.51					3.14	6.90	0.63		3.14	6.90	16.31		1.25							
111	Kano	Madobi	150,600		1.33			0.66	2.66	2.66	3.32		5.31	5.31	15.27	32.54	27.22	98.24	3.98	3.98						
112	Kano	Makoda	245,151							8.97	22.03	23.25	28.15	34.26	4.89	19.58	5.30									
113	Kano	Minjibir	235,666	0.85	0.85	0.42	0.85	3.39	1.70	2.97	16.58	20.26	20.70	32.25	5.94	46.68	12.31		7.21	5.09	2.97					
114	Kano	Nassarawa	657,710					0.15					0.08	2.89	7.30	5.78	1.22	6.84	1.98	1.22	0.46	1.22				
115	Kano	Rano	160,318								1.87		3.74			63.62	52.40									
116	Kano	Rimin Gado	115,510							3.46	3.46	2.60	0.87		6.06	6.93	38.69	2.60	25.07	4.33	4.33					
117	Kano	Rogo	251,041		0.80				2.39		1.99						1.20	1.59	7.17	5.18						
118	Kano	Shanono	154,992							2.58	0.65	5.81	1.94	1.94	4.52	25.36	7.74	8.39	5.16	41.61		1.29	0.05			
119	Kano	Sumaila	279,611														3.58		6.44			3.58				
120	Kano	T/Wada	255,450							0.78	3.91	3.13	6.65	9.00	13.31	20.36	17.62	8.61	2.74							
121	Kano	Takai	223,404		0.45	0.45					0.82	2.87	3.28	2.46	1.64	2.05	4.92	13.52	25.82		7.70		22.06	1.23		
122	Kano	Tarauni	244,013								0.82															
123	Kano	Tofa	107,732	7.43	7.43	5.57	3.71	12.07	31.56	21.35	27.85	10.21	33.42	29.70	30.63	27.85	43.63	58.48	24.13	13.90						
124	Kano	Tsanyawa	173,811			2.30			1.15	2.30	13.23	13.23	16.63	10.36	25.89	16.00	7.46	39.55	6.33	6.33						
125	Kano	Ungogo	407,474							0.74	3.19	5.64	7.36	8.83	9.33	8.59	5.89	8.34	3.19	2.70	2.21	1.23				
126	Kano	Warawa	141,962						0.70	4.93	9.16		1.41	3.52	0.70	14.79	29.58	2.82	15.50							
127	Kano	Wudil	204,134		0.49	0.49	2.94	6.37	6.37		3.43	7.35		20.08	28.41	11.76	3.43	4.90	2.45	5.39						
128	Katsina	Bakori	163,222			3.06	3.06	1.23	30.63				51.46	53.91	23.89	30.63	53.30	99.66	6.74	1.23						
129	Katsina	Batagarawa	201,690	0.50		0.50	0.99	1.98	11.40	18.84	23.80	19.83	13.38				27.77	36.19	18.84	7.93	0.99					
130	Katsina	Batsari	228,356						6.13	2.19	3.07	31.55	8.76	7.44	6.12	17.95	16.20									
131	Katsina	Bauré	215,732									2.78	6.49		0.46	6.81	11.12									
132	Katsina	Bindawa	166,484					1.80		9.61	51.66	25.83	26.43	39.04	52.86	26.43	26.43	4.81		1.80	1.20					
133	Katsina	Charanchi	150,373			1.33	3.33							43.23	39.90	34.58	47.22	20.69	31.20							
134	Katsina	Dandume	159,253						1.26			4.40	9.47	11.30	3.77	21.35	69.07	12.56	6.91		9.42					
135	Katsina	Danja	137,359			10.92	13.10	26.21	64.79	68.43	90.27	129.59	95.37	87.36	11.65	74.26	30.58	17.47	8.01		10.92					
136	Katsina	Danmusa	124,233	3.22			8.05	10.10	2.41	1.61	8.05	11.27	19.32	20.93	4.02	25.70			8.05							
137	Katsina	Daura	240,095					2.08	</																	

**Situation Épidémiologique de la méningite du Nigeria 2009/ (3/3)**  
**Meningitis epidemiological situation 2009**

SN	State	LGA	Population	Wk 01		Wk 02		Wk 03		Wk 04		Wk 05		Wk 06		Wk 07		Wk 08		Wk 09		Wk 10		Wk 11		Wk 12		Wk 13		Wk 14		Wk 15		Wk 16		Wk 17		Wk 18		Wk 19		Wk 20	
				Attack Rate																																							
145	Katsina	Kaita	201,500		1.99				4.47	11.41		40.64	39.21	36.72	22.83	28.29	19.35	27.79	9.43	4.96																4.47							
146	Katsina	Kankara	268,526	0.37							6.21	2.23	14.52	41.34	13.78	29.05	29.95	9.31	23.09	3.72	2.23	8.19	1.86																				
147	Katsina	Kankia	165,476	0.60		0.60	1.81	3.63	5.44	30.22	9.67	22.96	12.69	54.99	18.73	69.50	16.92	32.63	18.73															3.63									
148	Katsina	Katsina	347,989					2.01	2.30	0.86	7.76	4.60	12.93	11.21	20.69	33.05	36.78	43.39	28.16	13.79														1.15	2.01								
149	Katsina	Kurfi	128,484	5.44	2.33	10.12	3.89	19.46	35.80		21.79							6.23	1.56		8.56	4.67																					
150	Katsina	Kusada	108,472					11.98	17.52	8.30	3.69	18.44		9.22	56.24	56.24	32.27	6.45															30.42										
151	Katsina	Maiaduwa	219,833	1.36	3.64						2.27	3.64		5.46	7.20	15.47	5.91	14.10	6.37		1.82																						
152	Katsina	Malunfashi	199,882	1.50				7.50	13.03	18.01	29.02	23.01		53.03	96.03	49.53			61.04																								
153	Katsina	Mani	193,376							7.24	3.10	2.07					3.10		12.93		4.65	6.72																					
154	Katsina	Mashi	189,188					3.17				1.59		7.93		6.34	13.74	8.99	7.93	3.70	1.59																						
155	Katsina	Matazau	126,019		1.59	6.35		5.55	12.70		15.67	3.97	24.60		68.24	49.99	32.53	8.73																									
156	Katsina	Musawa	187,637		3.20	4.80	1.60	21.32	18.65		51.16		21.18	62.35	33.04	17.05	9.55	10.13	3.73	3.20																							
157	Katsina	Rimi	168,000					4.76	8.33	8.33	4.76	8.35	33.93	9.14	52.38	51.79	38.69	19.64	20.24	14.23	6.55																						
158	Katsina	Sabuwa	148,666									0.67	10.14	14.80	18.16																												
159	Katsina	Safana	200,820		2.99	2.99	1.49		1.00	1.49	1.99	5.98	3.49	29.38	15.44	22.91	17.43	7.91	13.44																								
160	Katsina	Sandamu	150,017	1.33	2.67	7.33	10.00	16.06				35.33	22.60		5.33	3.33																											
161	Katsina	Zango	169,092							9.40	20.11		24.00	3.55																													
162	Kebbi	Aliero	72,301						4.15	11.06																																	
163	Kebbi	Arewa	201,681								2.04	0.34		4.76	2.72	1.36																		5.45									
164	Kebbi	Birnin Kebbi	294,165								4.51	12.77	11.24		6.76	5.26	0.75															5.10	3.06										
165	Kebbi	Bunza	133,111								2.53																																
166	Kebbi	Dandi	158,111																																								
167	Kebbi	Fakai	132,838										3.21		8.55	3.21																0.75	12.80										
168	Kebbi	Kalgo	93,594										2.36																					0.59									
169	Kebbi	Koko Bese	169,434										0.52																														
170	Kebbi	Maiyama	192,537											0.52																													
171	Kebbi	Suru	164,639																																								
172	Nasarawa	N/Eggan	162,957											8.14	0.61																												
173	Niger	Magama	200,819		1.00	1.00	0.50	2.99			3.98		3.98	4.48	3.49	2.49	5.48	0.50		0.50																							
174	Niger	Manga	220,471							1.36	1.81	1.81																															
175	Plateau	Bokkos	193,303	0.52					0.52	0.52	0.52	5.17																				0.52	1.03										
176	Plateau	Langtang North	152,345		0.66															14.44	3.28		1.97	0.66	1.97	0.66																	
177	Sokoto	Binji	114,766								6.97	1.74		1.74	13.94	2.61	3.49	0.87		3.49																							
178	Sokoto	Gudu	104,404										4.79		24.90	6.70	2.87		27.71		6.70																						
179	Sokoto	Gwadabawa	252,811					9.10	14.64	7.52	30.46	4.75	5.54	2.37	4.35					0.79	0.79	0.40																					
180	Sokoto	Illela	164,443								24.93	5.69	14.54	4.26	9.12	2.43																											
181	Sokoto	Isha	159,651								36.99		3.76																														
182	Sokoto	Ketibe	136,217																	27.16	4.40	5.14	3.67																				
183	Sokoto	Kware	146,315								1.37		2.05							5.47		4.10	6.15										2.05										
184	Sokoto	Sabon Birni	226,849																	5.29	6.61																						
185	Sokoto	Tambuwal	245,788									5.70	3.25		6.10																												
186	Sokoto	Tangaza	124,410										1.61								19.29		41.29																				
187	Sokoto	Tureta	74,710									2.68	4.02							24.09	24.09																						
188	Sokoto	Wamako	196,275										0.47	7.50	7.97	3.75	7.50	9.37	4.22	1.41	0.94																						
189	Taraba	K/Lamido	213,381											1.29						1.29	3.87	4.52	2.58	3.87	11.61	11.61	10.97	4.52	1.94	2.58													
190	Yobe	Bade	154,979												16.53	4.13	8.27	2.48	4.96	12.40	1.65	3.31		0.83	0.83																		
191	Yobe	Bursari	120,988										1.02	8.20	8.20	18.45	12.30	14.35	12.30	29.72	27.67	27.67	15.37	11.27	10.29	2.05	5.12					</td											

### III. REPRESENTATION GRAPHIQUE DES DONNEES/ GRAPHICAL REPRESENTATION OF DATA

Figure 1: Cartographie des taux d'attaque de la Méningite par district par pays de la semaine 20, 2009  
*Map of meningitis attack rates by district by country at week 20, 2009*

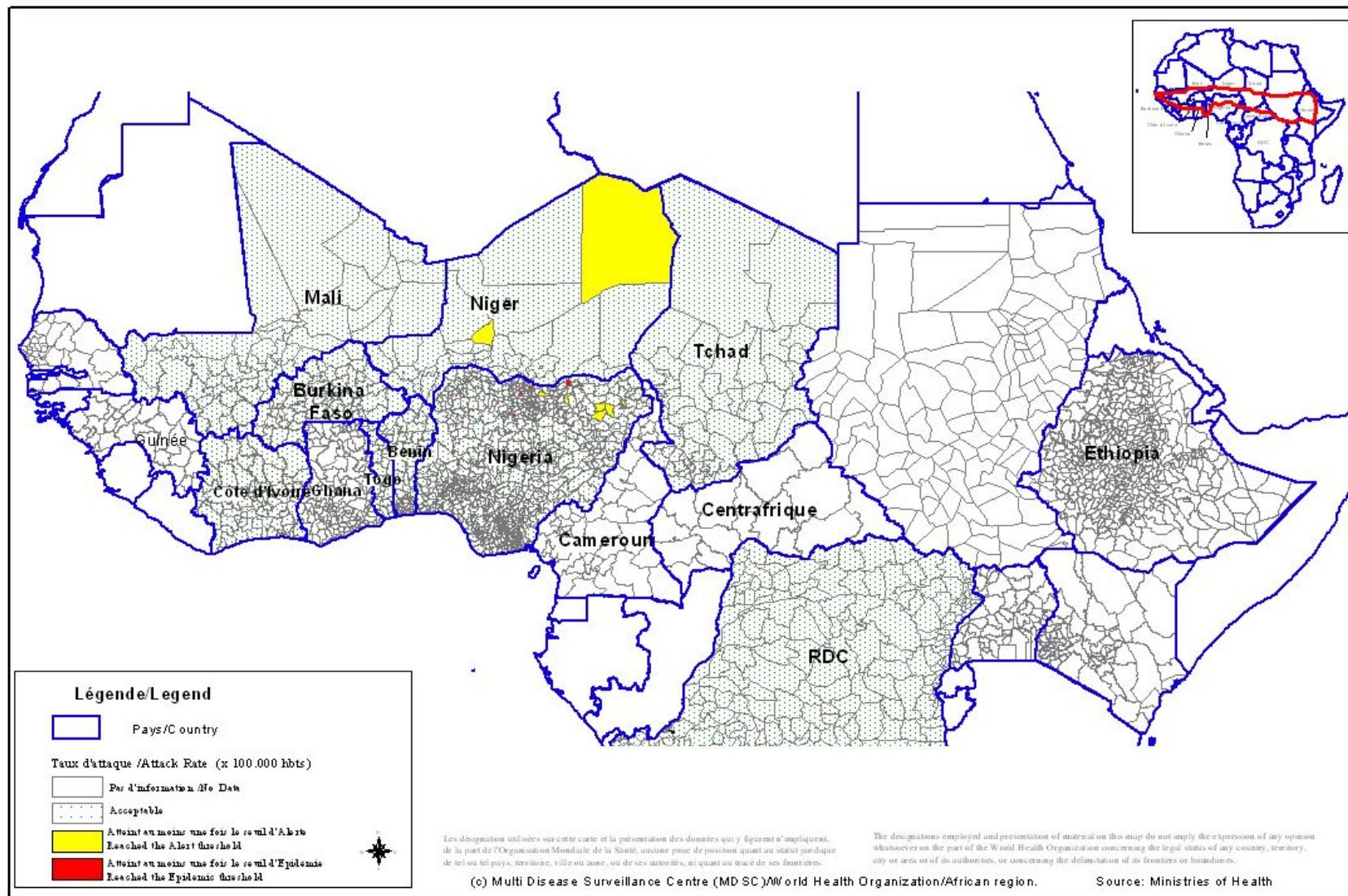
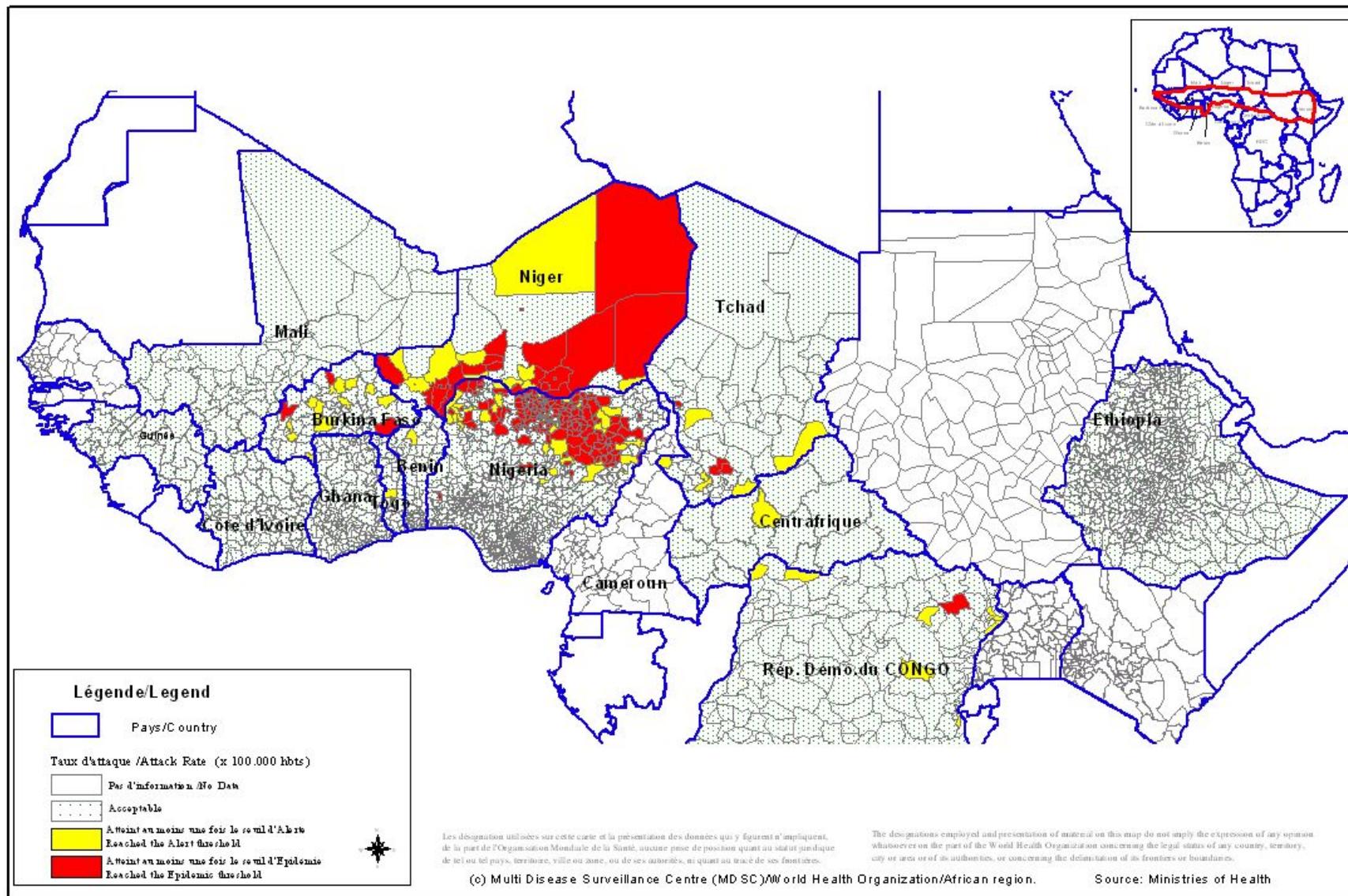


Figure 2 : Cartographie récapitulative des taux d'attaque cumulés de la Méningite, Semaine 01 – 20, 2009

(Représentation basée sur les taux d'attaque hebdomadaires les plus élevés par district au cours de l'année)

*Recapitulative map of cumulative Meningitis attack rates at week 1 - 20, 2009*

*(Mapping based on weekly highest attack rates by district during the year)*



IV. Courbes de tendance sur les deux dernières années/  
Epidemiological trends during two consecutive years

**Figure 3 : Evolution hebdomadaire comparative par pays des années 2008 et 2009/**  
(Uniquement les pays ayant transmis des données pour la semaine en cours)  
**Comparative weekly evolution by country, years 2008-2009**  
**(Only countries which transmitted data during the current week)**

