

YELLOW FEVER OUTBREAK IN ANGOLA

INCIDENT MANAGEMENT

Vol: 9 -05

SITUATION REPORT W39, 29 Sept 2016

Key Highlights

- The IM System is transitioning during this phase of the response to focus support on vaccination campaign and post-epidemic surveillance system strengthening.
- Three positive laboratory cases were reported in Porto Amboim district (Cuanza Sul) and Chongoroi (Benguela); cases are being investigated and post-reviewed by the Classification Committee. The population of Porto Amboim district have not been vaccinated to date but included in the next phase of vaccination campaign starting October 10th, 2016.
- ♦ KAP study will be implemented this week in eight provinces including Luanda to identify risks for communication inputs
- Entomologic risk assessment has been completed in three of five provinces with preliminary results suggesting a high-level infestation of Aedes aegypti in Bengo, medium in Cuanza Norte and no infestation in Cuando Cubango province.

II. Epidemiological Situation as of 29 September 2016

⇒ Week 39 statistics (23—29 September 2016):

- Of 45 suspected cases reported, 16 specimens that were tested in the National Laboratory were negative.
- Zero(0) deaths were reported among the suspected cases during this period.
- 11 districts in 4 provinces reported suspected cases of yellow fever. No district reported new confirmed local transmission.

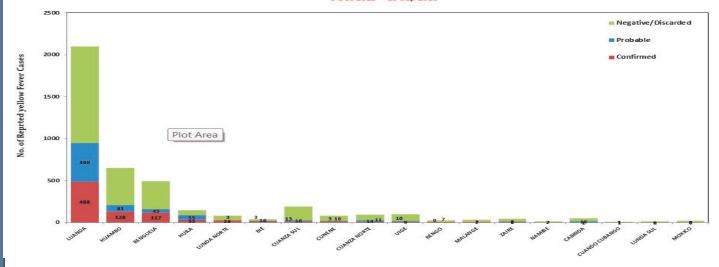
⇒ Cumulative statistics since 05 December 2015:

- A total of 884 laboratory confirmed cases have been reported out of 4,188 suspected cases and 3,666 laboratory samples tested
- Overall, 373 (CFR = 9.2%) deaths were reported among suspected cases and 121 (CFR 13.7%) among confirmed cases
- Laboratory confirmed cases have been reported for 16 out of 18 provinces in 80 out of 136 districts.
- The last confirmed cases had a date of onset 23rd June 2016 from Cunene and Cuanza Norte provinces
- Vaccination campaigns have been completed in 73 districts with a cumulative of 16,011,303 vaccinated people representing 95% of the population in the targeted districts.

Table 1: National Summary of Yellow Fever Outbreak

Reported cases	45
Samples tested	16
Confirmed cases	0
Total Deaths	0
Total provinces that reported cases	4
New provinces with confirmed cases	0
Total districts with reported cases	11
New districts with confirmed cases	0
New districts with documented local transmission	0
Yellow Fever Outbreak Summary from 5 Dec 2015— 29	Sep 2016
Total cases reported to central level	4,188
Total Samples Tested	3,666
Total confirmed cases	884
Total deaths	373
Total deaths among confirmed cases	121
Total provinces that have reported cases	18
Total provinces with confirmed cases	16
Total districts that have reported cases	136
Total districts with confirmed cases	80
Total provinces with documented local transmission	12
Total districts with documented local transmission	45
Total number of provinces in Angola	18
Total number of districts in Angola	166





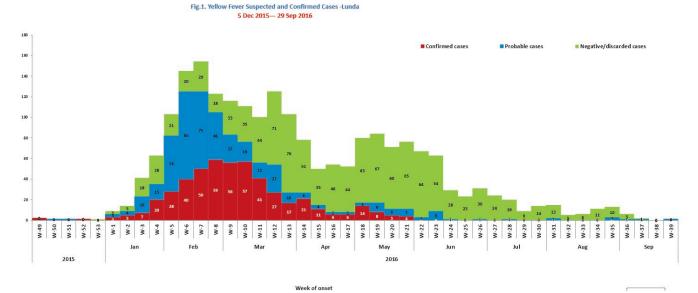


Fig.1. Yellow Fever Suspected and Confirmed Cases - Huambo

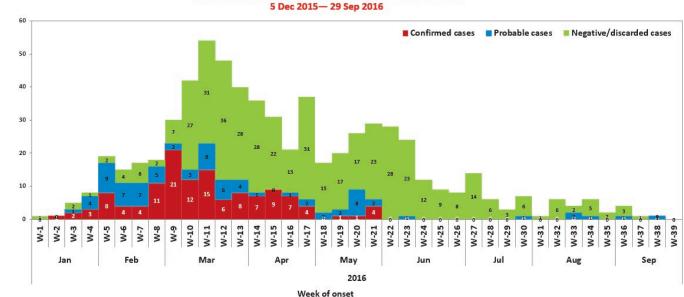
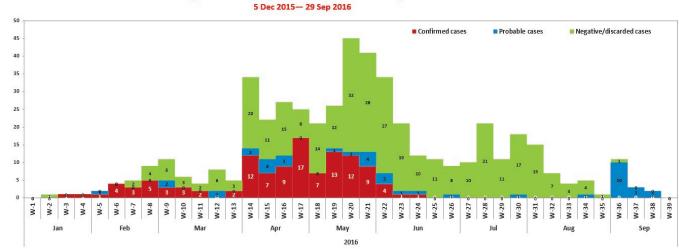


Fig.1. Yellow Fever Suspected and Confirmed Cases - Benguela



Week of onset

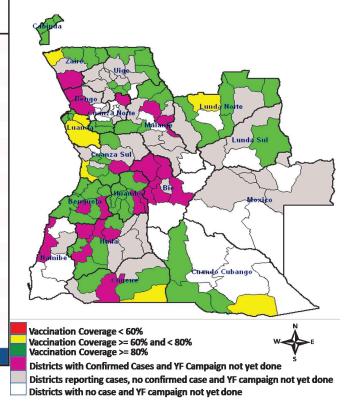
No. of Reprted yellow Fever Cases

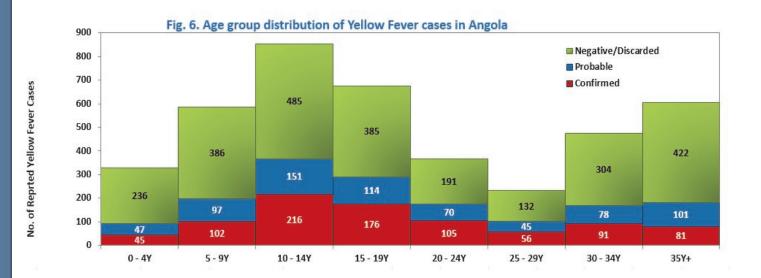
No. of Reprted yellow Fever Cases

Table 2. Provinces with Yellow Fever Laboratory Confirmation up to 29 Sep, 2016

	Annual Control	Cumulative (5 Dec 2015— 29 Sep 2016)									
Province		Test		Cont		Discarded, Lab wit Vacc. History					
	Notified Cases	No	%	No	%	-					
LUANDA	2097	1735	83	488	23	126					
HUAMBO	651	596	92	128	20	29					
BENGUELA	493	474	96	117	24	23					
CUANZA SUL	187	183	98	16	9	0					
HUILA	148	100	68	33	22	1					
UIGE	101	98	97	9	9	0					
CUANZA NORTE	93	83	89	11	12	1					
CUNENE	79	78	99	16	20	1					
LUNDA NORTE	78	77	99	26	33	1					
CABINDA	51	45	88	1	2	0					
ZAIRE	47	39	83	6	13	1					
BIE	40	38	95	16	40	0					
MALANGE	35	34	97	7	20	0					
BENGO	28	28	100	7	25	0					
MOXICO	21	21	100	0	0	0					
LUNDA SUL	14	13	93	0	0	1					
NAMIBE	14	14	100	2	14	0					
CUANDO CUBANGO	11	10	91	1	9	0					
TOTAL	4188	3666	88	884	21	184					

Fig.5: Districts with confirmed cases/high risk of yellow fever and already Vaccinated Districts (Green) in Angola, 5 Dec 2015—29 Sept 2016





Source: MoH, Angola

Table 3.1: Yellow Fever Reported and Confirmed Cases per Angola Provinces and Districts, 2016; 5 Dec 2015—29 Sep 2016

	100000000000000000000000000000000000000	Cases notified during the period (16 Sep — 29 Sep 2016)			Cumulative Cases (5 Dec 2015— 29 Sep 2016)			Date of onset first Date of onset of la	Date of onset of last	st Date of onset of first	Date of onset of last	Date of Notification o	of Date of last report a	t Average days of	Days since last case	Days since last
Province	Reported	Confirmed	Deaths	Reported	Confirmed	Deaths	Transmission	confirmed case	confirmed case	suspected case*	suspected case*	last suspected case*	central level	reporting delay	reported to central level	confirmed case
Belas	3	0	0	249	54	26	γ	15/01/16	26/05/16	10/01/16	16/09/16	25/09/16	29/09/16	3	0	125
Cacuaco	0	0	0	244	78	22	Υ	28/01/16	12/05/16	28/01/16	02/09/16	06/09/16	07/09/16	2	22	140
Cazenga	0	0	0	462	109	34	γ	18/01/16	27/05/16	18/01/16	05/09/16	08/09/16	09/09/16	2	20	125
Icolo e bengo	0	0	0	7	1	0	Υ	08/03/16	08/03/16	18/01/16	16/06/16	20/06/16	21/06/16	3	100	205
Ingombota	0	0	0	18	4	0	Υ	01/02/16	15/03/16	01/02/16	27/06/16	04/07/16	15/07/16	2	76	198
Kilamba kiaxi	2	0	0	277	68	20	Y	06/12/15	18/05/16	06/12/15	26/09/16	29/09/16	29/09/16	3	0	134
Maianga	0	0	0	126 1	28	11	Y N	08/02/16	26/05/16	12/01/16	24/08/16	31/08/16	02/09/16	1	27 155	126 158
Quissama	0	0	0	48	14	2	N Y	24/04/16 29/01/16	24/04/16 02/05/16	24/04/16 10/01/16	24/04/16 14/09/16	26/04/16 17/09/16	27/04/16 21/09/16	3	8	150
Rangel Samba	0	0	0	26	5	2	Y	10/02/16	11/05/16	09/01/16	04/08/16	10/08/16	12/08/16	2	48	141
Sambizanga	0	0	0	103	31	13	Y	23/01/16	21/05/16	23/01/16	28/08/16	07/09/16	09/09/16	4	20	131
Viana	0	0	0	536	95	86	Y	05/12/15	14/05/16	05/12/15	10/09/16	19/09/16	19/09/16	2	10	138
LUANDA	5	0	0	2097	488	216	γ	05/12/15	27/05/16	05/12/15	26/09/16	29/09/16	29/09/16	2	0	125
Ambriz	0	0	0	4	1	0	N	04/04/16	04/04/16	04/04/16	20/06/16	24/06/16	30/06/16	4	91	178
Bula Atumba	0	0	0	1	0	0	N			07/03/16	07/03/16	11/03/16	14/03/16	3	199	
Dande	0	0	0	16	6	1	N	05/02/16	19/05/16	05/02/16	19/07/16	02/08/16	03/08/16	6	57	133
Nambuangongo	0	0	0	7	0	0	N			23/03/16	15/06/16	01/07/16	12/07/16	8	79	
BENGO	0	0	0	28	7	1	N	05/02/16	19/05/16	05/02/16	19/07/16	02/08/16	03/08/16	6	57	133
Baia Farta	3	0	0	29	10	5	Y	08/04/16	01/06/16	07/04/16	19/09/16	22/09/16	28/09/16	7	1	120
Balombo	0	0	0	30	8	2	Ϋ́	22/04/16	30/05/16	14/04/16	30/05/16	02/06/16	10/06/16	10	111	122
Benguela Bossio	9	0	0	246 6	63	22	Y N	15/02/16	13/06/16	15/02/16	20/09/16	22/09/16 04/07/16	28/09/16	8	77	108 150
Bocoio Caimbambo	0	0	0	6	1	0	N N	02/05/16 26/02/16	02/05/16 26/02/16	08/04/16 26/02/16	20/06/16 26/06/16	30/06/16	14/07/16 14/07/16	6	77	216
Catumbela	0	0	0	48	8	2	Y	15/04/16	26/05/16	21/02/16	17/08/16	23/08/16	27/08/16	9	33	126
Chongoroi	1	0	0	8	5	1	Y	26/02/16	25/05/16	26/02/16	15/09/16	15/09/16	28/09/16	6	1	127
Cubal	0	0	0	10	4	1	Y	05/02/16	03/06/16	16/01/16	01/08/16	15/08/16	18/08/16	6	42	118
Ganda	0	0	0	11	3	0	N	10/02/16	28/02/16	10/02/16	06/09/16	08/09/16	15/09/16	7	14	214
Lobito	2	0	0	99	14	6	γ	22/01/16	19/05/16	22/01/16	13/09/16	21/09/16	28/09/16	8	1	133
BENGUELA	15	0	0	493	117	39	Y	22/01/16	13/06/16	16/01/16	20/09/16	22/09/16	28/09/16	8	1	108
Andulo	0	0	0	17	6	1	N	14/02/16	27/03/16	14/02/16	09/08/16	17/08/16	22/08/16	7	38	186
Camacupa	0	0	0	4	1	0	N	19/03/16	19/03/16	19/03/16	17/08/16	23/08/16	28/08/16	5	32	194
Catabola	0	0	0	2	0	0	N			29/05/16	10/06/16	14/06/16	20/06/16	4	101	
Chinguar	0	0	0	7	3	0	N	02/02/16	22/05/16	30/01/16	24/06/16	29/06/16	04/07/16	6	87	130
Cuito	0	0	0	6	4	1	N	30/01/16	18/04/16	30/01/16	20/08/16	23/08/16	28/08/16	6	32	164
Cunhinga	0	0	0	3	1	0	N N	01/03/16	01/03/16	28/02/16	09/04/16	10/04/16	18/04/16 04/03/16	7	164 209	212 220
Nharea BIE	0	0	0	40	16	0	N	22/02/16 30/01/16	22/02/16 22/05/16	22/02/16 30/01/16	22/02/16 20/08/16	22/02/16 23/08/16	28/08/16	6	32	130
Belize	0	0	0	2	0	0	N	30/01/10	22/03/10	24/05/16	15/08/16	24/08/16	08/09/16	4	21	130
Buco Zau	0	0	0	1	0	0	N			20/01/16	20/01/16	30/01/16	30/01/16	0	243	
Cabinda	2	0	0	48	1	1	N	25/01/16	25/01/16	01/01/16	13/09/16	22/09/16	29/09/16	7	0	248
CABINDA	2	0	0	51	1	1	N	25/01/16	25/01/16	01/01/16	13/09/16	22/09/16	29/09/16	7	0	248
Menongue	2	0	0	11	1	1	γ	18/04/16	18/04/16	15/02/16	16/09/16	19/09/16	25/09/16	7	4	164
CUANDO CUBANGO	2	0	0	11	1	1	γ	18/04/16	18/04/16	15/02/16	16/09/16	19/09/16	25/09/16	7	4	164
Ambaca	2	0	0	39	2	0	N	21/03/16	10/06/16	03/02/16	12/09/16	15/09/16	26/09/16	11	3	111
Cambambe	0	0	0	11	1	1	γ	23/06/16	23/06/16	12/02/16	07/08/16	11/08/16	16/08/16	9	44	98
Cazengo	0	0	0	38	8	9	γ	23/02/16	14/06/16	28/01/16	01/08/16	02/08/16	12/08/16	17	48	107
Lucala	0	0	0	4	0	0	N			09/02/16	28/07/16	04/08/16	06/08/16	17	54	
Samba Caju	0	0	0	1	0	0	N	ga lan /: -	ga last -	19/05/16	19/05/16	09/06/16	09/06/16	0	112	
CUANZA NORTE	2	0	0	93	11	10	Y	23/02/16	23/06/16	28/01/16	12/09/16	15/09/16	26/09/16	14	3	98
Amboim	1	0	0	18	2	1	Υ	23/01/16	05/04/16	23/01/16	23/09/16	26/09/16	29/09/16	6	0	177
Cassongue Cela	0	0	0	8	2	0	Y N	02/02/16 04/02/16	02/02/16 04/02/16	02/02/16	15/06/16 15/08/16	17/06/16 25/08/16	25/06/16 05/09/16	13 5	96 24	240 238
Conda	2	0	0	15	0	0	N N	04/02/10	04/02/10	04/02/16 24/04/16	23/09/16	27/09/16	29/09/16	6	0	230
Ebo	3	0	0	59	4	1	Y	17/01/16	16/04/16	17/01/16	18/09/16	24/09/16	29/09/16	7	0	166
Libolo	0	0	0	5	1	1	Y	05/04/16	05/04/16	05/02/16	09/08/16	12/08/16	19/08/16	6	41	177
Mussende	0	0	0	3	0	0	N	-2/0//20	-0/0//20	26/02/16	29/05/16	26/08/16	02/09/16	4	27	***
Porto amboim	2	0	0	18	0	2	N			03/02/16	13/09/16	19/09/16	26/09/16	4	3	
Quibala	0	0	0	6	0	0	N			27/03/16	26/08/16	05/09/16	17/09/16	8	12	
Quilenda	0	0	0	10	0	0	N			23/04/16	11/08/16	16/08/16	26/08/16	6	34	
Seles	0	0	0	23	5	2	γ	05/02/16	11/05/16	05/02/16	16/07/16	19/07/16	24/07/16	6	67	141
Sumbe	0	0	0	18	1	2	Υ	02/03/16	02/03/16	07/02/16	18/08/16	22/08/16	26/08/16	4	34	211
CUANZA SUL	8	0	0	187	16	9	Υ	17/01/16	11/05/16	17/01/16	23/09/16	27/09/16	29/09/16	6	0	141
Cahama	0	0	0	21	5	0	γ	28/02/16	13/05/16	28/02/16	10/07/16	17/07/16	09/08/16	12	51	139
Cuanhama	1	0	0	35	6	2	γ	24/02/16	23/06/16	03/02/16	10/09/16	19/09/16	23/09/16	16	6	98
Curoca	0	0	0	3	0	0	N			06/03/16	01/05/16	02/05/16	25/05/16	12	127	
Cuvelai	0	0	0	4	0	0	N			02/04/16	03/08/16	09/08/16	15/08/16	8	45	
Namacunde	0	0	0	3	0	0	N	04 (52) 2	47/5-1-5	13/07/16	19/08/16	21/08/16	01/09/16	24	28	467
Ombadja	0	0	0	13	5	1	N	01/02/16	17/04/16	01/02/16	08/07/16	12/07/16	21/07/16	7	70	165

Table 3.2: Yellow Fever Reported and Confirmed Cases per Angola Provinces and Districts, 2016; 5 Dec 2015—29 Sept 2016

CUNENE	1	0	0	79	16	3	Y	01/02/16	23/06/16	01/02/16	10/09/16	19/09/16	23/09/16	12	6	98
Bailundo	1	0	0	119	11	4	Y	05/02/16	24/03/16	01/02/16	25/08/16	26/09/16	29/09/16	5	0	189
Caala	2	0	0	98	25	7	Y	28/01/16	16/05/16	21/01/16	11/09/16	20/09/16	26/09/16	4	3	136
Catchiungo	0	0	0	34	2	0	N	18/03/16	29/04/16	07/03/16	14/07/16	18/07/16	24/07/16	5	67	153
Ecunha	0	0	0	71	21	4	Y	17/01/16	24/05/16	17/01/16	28/05/16	28/05/16	01/06/16	4	120	128
Huambo	1	0	0	194	42	12	Y	20/01/16	29/05/16	20/01/16	17/09/16	20/09/16	26/09/16	4	3	123
Londuimbale	1	0	0	44	7	7	γ	17/02/16	27/04/16	20/01/16	21/09/16	22/09/16	27/09/16	5	2	155
Longonjo	0	0	0	25	10	4	N	09/02/16	15/04/16	09/02/16	11/07/16	12/07/16	18/07/16	7	73	167
Mungo	0	0	0	19	2	2	N	06/02/16	01/03/16	31/01/16	29/07/16	01/08/16	04/08/16	5	56	212
Tchikala tcholohanga	0	0	0	17	3	0	N	16/03/16	07/04/16	15/03/16	28/08/16	01/09/16	09/09/16	4	20	175
Tchinjenje	0	0	0	12 18	4	0	N Y	01/04/16	01/04/16 19/04/16	24/03/16	28/08/16 29/08/16	30/08/16 31/08/16	05/09/16	5 4	24	181 163
Ukuma HUAMBO	5	0	0	651	128	44	Y	22/02/16 17/01/16	29/05/16	22/02/16 17/01/16	21/09/16	26/09/16	05/09/16 29/09/16	5	0	123
Caconda	0	0	0	29	10	4	Y	05/01/16	30/03/16	05/01/16	18/07/16	23/07/16	29/07/16	11	62	183
Cacula	0	0	0	8	4	1	N	23/02/16	15/05/16	15/02/16	17/05/16	19/05/16	28/05/16	6	124	137
Caluquembe	0	0	0	11	2	6	N	04/03/16	21/03/16	13/01/16	28/05/16	04/06/16	11/06/16	4	110	192
Chibia	0	0	0	2	1	0	N	08/02/16	08/02/16	04/02/16	08/02/16	18/02/16	22/02/16	5	220	234
Chicomba	0	0	0	11	1	0	N	02/02/16	02/02/16	02/02/16	21/05/16	27/05/16	01/06/16	5	120	240
Chipindo	0	0	0	2	0	1	N			09/04/16	21/05/16	30/05/16	11/06/16	8	110	
Cuvango	0	0	0	4	0	0	N			09/04/16	05/08/16	10/08/16	18/08/16	5	42	
Gambos	0	0	0	5	1	1	N	24/02/16	24/02/16	10/02/16	24/02/16	06/03/16	11/03/16	4	202	218
Humpata	0	0	0	11	2	0	Y	22/03/16	28/04/16	09/02/16	30/04/16	06/05/16	11/05/16	5	141	154
Jamba	0	0	0	3 19	5	0 4	N N	30/01/16	01/05/15	03/08/16	09/08/16 01/07/16	10/08/16	17/08/16 20/07/16	6	71	120
Lubango Matala	0	0	0	2	0	1	N N	30/01/10	01/06/16	25/01/16 26/01/16	07/03/16	09/07/16 14/03/16	21/03/16	6 4	71 192	120
Quilengues	0	0	0	10	4	2	N N	21/02/16	10/03/16	13/02/16	10/03/16	19/03/16	19/03/16	1	192	203
Quipungo	0	0	0	31	3	3	Y	02/02/16	05/02/16	28/01/16	20/05/16	29/05/16	03/06/16	5	118	237
HUILA	0	0	0	148	33	23	Y	05/01/16	01/06/16	05/01/16	09/08/16	10/08/16	18/08/16	6	42	120
Cambulo	0	0	0	5	0	0	N			08/03/16	31/07/16	03/08/16	15/08/16	15	45	
Capenda Camulemba	0	0	0	8	0	0	N			05/06/16	26/08/16	28/08/16	05/09/16	6		
Chitato	0	0	0	26	1	1	N	08/05/16	08/05/16	31/03/16	13/07/16	15/07/16	24/07/16	11	67	144
Cuango	1	0	0	33	24	8	Υ	02/05/16	06/06/16	02/05/16	18/09/16	21/09/16	26/09/16	7	3	115
Cuilo	0	0	0	1	1	0	N	20/05/16	20/05/16	20/05/16	20/05/16	01/06/16	10/06/16	9		132
Lucapa	0	0	0	2	0	0	N			11/04/16	28/06/16	18/07/16	30/07/16	19	61	
Xa Muteba LUNDA NORTE	0	0	0	3 78	0 26	9	N Y	02/05/16	06/06/16	10/02/16	29/05/16 18/09/16	08/06/16 21/09/16	13/06/16 26/09/16	20 10	108	115
Cacolo	0	0	0	3	0	0	N	02/05/16	06/06/16	10/02/16 26/05/16	16/07/16	23/07/16	25/07/16	3	3	115
Muconda	0	0	0	3	0	0	N			22/05/16	21/07/16	23/07/16	27/07/16	4	64	
Saurimo	0	0	0	8	0	0	N			07/03/16	07/08/16	10/08/16	12/08/16	3	48	
LUNDA SUL	0	0	0	14	0	0	N			07/03/16	07/08/16	10/08/16	12/08/16	3	48	
Cacuso	0	0	0	5	2	0	Υ	21/04/16	09/06/16	10/03/16	10/06/16	20/06/16	26/06/16	9	95	112
Cahombo	0	0	0	1	1	1	N	20/03/16	20/03/16	20/03/16	20/03/16	22/03/16	31/03/16	9	182	193
Calandula	0	0	0	4	0	1	N			03/03/16	30/05/16	31/05/16	06/06/16	5	115	
Cambundi Catembo	0	0	0	1	0	1	N			15/05/16	15/05/16	23/05/16	28/05/16	5	124	
Cangandala	0	0	0	2	0	0	N			10/07/16	20/07/16	05/08/16	12/08/16	7		
Cunda Dia Baze	0	0	0	1	0	0	N			11/08/16	11/08/16	14/08/16	19/08/16	6		
Luquembo Malange	0	0	0	2 15	3	0	N Y	21/02/16	19/05/16	25/07/16 09/02/16	29/07/16 13/07/16	08/08/16 19/07/16	12/08/16 21/07/16	6	70	133
Marimba	0	0	0	1	0	0	N	21/02/10	13/03/10	06/06/16	06/06/16	30/06/16	30/06/16	0	91	133
Massango	1	0	0	2	0	0				08/08/16	17/08/16	22/08/16	24/09/16	-		
Quela	0	0	0	1	1	0	N	07/05/16	07/05/16	07/05/16	07/05/16	14/05/16	18/05/16	4	134	145
MALANGE	1	0	0	35	7	3	γ	21/02/16	09/06/16	09/02/16	17/08/16	22/08/16	24/09/16	5	5	112
Alto Zambeze	0	0	0	2	0	0	N			14/08/16	16/08/16	30/08/16	06/09/16	5	23	
Camanongue	0	0	0	2	0	0	N			14/08/16	23/08/16	25/08/16	27/08/16	5	33	
Cameia	0	0	0	5	0	0	N			08/04/16	04/08/16	05/08/16	22/08/16	7	38	
Leua	1	0	0	2	0	0	N			26/04/16	15/09/16	22/09/16	28/09/16	5	1	
Luau	0	0	0	4	0	0				07/03/16	26/08/16	09/09/16	20/09/16			
Lumbala Nguimbo (BUNDAS) Moxico	0	0	0	2	0	0	N			01/09/16	12/09/16	13/09/16	20/09/16	2	100	
MOXICO	1	0	0	21	0	0	N N			02/04/16 07/03/16	09/05/16 15/09/16	16/05/16 22/09/16	19/05/16 28/09/16	5	133	
Bibala	0	0	0	1	0	0	N			02/06/16	02/06/16	09/06/16	16/06/16	7	105	
Namibe	0	0	0	13	2	1	N	17/04/16	14/05/16	07/03/16	16/06/16	24/06/16	05/07/16	5	86	138
NAMIBE	0	0	0	14	2	1	N	17/04/16	14/05/16	07/03/16	16/06/16	24/06/16	05/07/16	6	86	138
Ambuila	0	0	0	5	0	0	N			02/05/16	02/06/16	12/06/16	17/06/16	5	104	
Bembe	0	0	0	4	0	0	N			15/05/16	20/07/16	23/07/16	03/08/16	7	57	
Buengas	0	0	0	3	0	0	N			30/04/16	01/09/16	05/09/16	09/09/16	7	20	
Bungo	0	0	0	1	0	0	N			21/02/16	21/02/16	17/03/16	20/03/16	3	193	
Damba	0	0	0	14	0	0	N			30/03/16	25/08/16	27/08/16	02/09/16	6	27	
Maquela do zombo	0	0	0	1 7	0	1	N N			16/02/16	16/02/16	22/02/16	22/02/16	0	220	
Milunga Mucaba	0	0	0	7	0	0	N N			29/06/16 12/05/16	16/08/16 12/05/16	21/08/16 17/05/16	24/09/16 21/05/16	13 4	131	
Negage	0	0	0	19	3	0	Y	03/02/16	15/05/16	03/02/16	02/09/16	07/08/16	09/09/16	4	20	137
Puri	0	0	0	2	1	0	N	10/05/16	10/05/16	10/05/16	16/06/16	27/06/16	05/07/16	6	86	142
Quimbele	1	0	0	6	0	0	N	-		02/03/16	11/09/16	17/09/16	28/09/16	5	1	
Quitexe	0	0	0	2	0	0	N			19/04/16	13/07/16	18/07/16	22/07/16	7	69	
Sanza pombo	0	0	0	3	0	0	N			03/05/16	26/06/16	09/07/16	16/07/16	7	75	
Songo	0	0	0	4	0	0	N			27/05/16	14/08/16	19/08/16	25/08/16	4	35	
Uige	0	0	0	29	5	4	Y	02/02/16	08/05/16	15/01/16	21/07/16	28/07/16	03/08/16	5	57	144
UIGE	2	0	0	101	9	5	Y	02/02/16	15/05/16	15/01/16	11/09/16	17/09/16	28/09/16	5	1	137
Cuimba	0	0	0	5	1	3	N	24/03/16	24/03/16	24/03/16	26/08/16	30/08/16	03/09/16	11	26	189
Mbanza congo	0	0	0	14	0	0	N M			06/02/16	11/08/16	18/08/16	22/08/16	11	38	
Masui	0	0	0	3	0	0	N N	05/02/16	05/02/16	19/02/16 05/02/16	29/07/16 08/02/16	04/08/16 12/02/16	10/08/16 02/03/16	23 10	50 211	237
Noqui				/	1	U	N	05/02/16	05/02/16	03/02/10	00/02/10	14/04/10	02/03/10	10	211	
Nzeto	0		2000		Δ	3	Y	10/02/16	22/06/16	10/02/16	09/07/16	12/07/16	20/07/16	4	71	QQ
Nzeto Soyo	0	0	0	21	4	3	Y N	10/02/16	22/06/16	10/02/16 16/06/16	09/07/16 16/06/16	12/07/16 20/06/16	20/07/16 27/06/16	4	71 94	99
Nzeto			2000		4 0 6	3 0 6	Y N Y	10/02/16 05/02/16	22/06/16 22/06/16	10/02/16 16/06/16 05/02/16	09/07/16 16/06/16 26/08/16	12/07/16 20/06/16 30/08/16	20/07/16 27/06/16 03/09/16	4 4 8	71 94 26	99

Table 4. Distribution of Yellow Fever Vaccination Coverage in Angola as of 29 Sep 2016

Province	Target population	Launching date	Population vaccinated	Administrative coverage (%)
Belas	1 071 662	19-févr-16	1 292 404	121%
Cacuaco	887 829 867 659	29-févr-16 29-févr-16	776 075 825 793	87% 95%
Cazenga colo e Bengo	75 103	29-TeVr-16 28-mars-16	46 309	62%
ngombota	89 556	24-mars-16	65 083	73%
Kilamba Kiaxi	640 006	10-mars-16	241 812	38%
Maianga	660 884	14-mars-16	489 998	74%
Quissama	25 240	28-mars-16	15 572	62%
Rangel	136 031	28-mars-16	48 021	35%
Samba	160 174	24-mars-16	58 535	37%
ambizanga	433 970	20-mars-16	146 149	34%
/iana	1 535 102	02-févr-16	2 130 549	139%
uanda	6 583 216		6 136 300	93%
Baia Farta	103 623 99 932	16-mai-16	105 116	101%
Balombo Benguela	598 902	16-mai-16 12-avr-16	101 700 563 250	102% 94%
Bocoio	155 397	30-juin-16	138 747	89%
Catumbela	173 601	13-avr-16	188 421	109%
Chongoroi	81 977	30-juin-16	85 175	104%
Cubal	289 703	16-mai-16	297 264	103%
.obito	335 601	13-avr-16	356 144	106%
Benguela	1 838 736		1 835 817	100%
selize	19 574	17-ago-16	21 780	111%
uco Zau	34 051	17-ago-16	33 000	97%
Cabinda	601 892	17-ago-16	603 328	100%
Cacongo	37 004	17-ago-16	38 877	105%
Cabinda	692 521		696 985	101%
/lenongue	308 509	17-ago-16	331 991 16 973	108%
Calai	20 266	08-ago-16		84%
Dirico Cuangar	14 691 27 503	08-ago-16 08-ago-16	8 939 23 339	61% 85%
Luangar Cuango Cubango	370 969	UO-agU-10	381 242	103%
Cazengo	166 860	30-juin-16	142 561	85%
Cambambe	89 498	17-ago-16	74 639	83%
Cuanza Norte	256 358	8	217 200	85%
Amboim	236 339	16-mai-16	228 060	96%
Cassongue	145 579	16-mai-16	135 907	93%
bo	159 024	16-mai-16	159 495	100%
ibolo	85 630	16-mai-16	88 897	104%
ieles	176 058	16-mai-16	170 883	97%
umbe	269 341	17-ago-16	195 537	73%
Cuanza Sul	1 071 971		978 779	91%
Cahama	69 519	22-juin-16	65 132	94%
Cuanhama Namacunde	362 710 144 624	22-juin-16	329 772 92 750	91% 64%
Cunene	576 853	17-ago-16	487 654	85%
Bailundo	283 887	16-mai-16	270 735	95%
Caala	268 734	13-avr-16	222 811	83%
cunha	79 334	16-mai-16	75 022	95%
luambo	689 301	13-avr-16	558 150	81%
onduimbale.	125 214	02-juil-16	114 709	92%
ongonjo.	87 329	02-juil-16	88 892	102%
Jkuma	42 950	16-mai-16	47 348	110%
chinjenje	28 371	17-ago-16	28 909	102%
luambo	1 605 120		1 406 576	88%
Caconda	160 892	16-mai-16	167 102	104%
Sambos	76 456	29-juin-16	81 982	107%
lumpata	83 267	28-juin-16	83 731	101%
ubango	736 077	17-ago-16	737 475	100%
Quipungo Huila	147 818 1 204 510	16-mai-16	168 781 1 239 071	114%
Capenda Camulemba	54 098	02-juil-16	46 528	86%
Caungula	27 266	02-juil-16 02-juil-16	20 967	77%
Cambulo	113 570	17-ago-16	110 714	97%
Chitato	196 869	11-juin-16	203 794	104%
Cuango	174 429	04-juin-16	187 504	107%
Cuilo	19 841	01-juil-16	17 479	88%
unda Norte	586 073		586 986	100%
Лucondа	35 469	17-ago-16	33 061	93%
unda Sul	35 469		33 061	93%
Cacuso	71 981	08-juil-16	60 852	85%
/lalanje	489 867	14-juil-16	396 547	81%
/Jarimba	27 241	17-ago-16	24 703	91%
Massango	32 811	17-ago-16	33 429	102%
Malange	621 900 123 073	01-juil-16	515 531 117 896	83% 96%
Лaquela do Zombo Лilunga	123 073 48 454	17-ago-16	117 896 52 815	109%
viiiunga Vegage	136 323	17-ago-16 16-mai-16	129 732	95%
vegage Puri	35 710	23-juin-16	36 137	101%
Quimbele	130 192	17-ago-16	138 419	101%
Jige	496 567	16-mai-16	624 138	126%
Jige	970 319		1 099 137	113%
Cuimba	65 011	17-ago-16	58 344	90%
Abanza Congo	174 920	17-ago-16	147 578	84%
loqui	22 966	17-ago-16	22 505	98%
	219 536	16-juin-16	168 537	77%
Soyo		- ,		
Soyo Zaire SRAND TOTAL	482 433 16 896 448		396 964 16 011 303	82% 95%

Source: MoH, Angola

III. Response Interventions

IM/Coordination:

- ◆ The IM system has now a reduced number of international staff and is focusing the response to key activities in each intervention: vaccination, logistics, active surveillance and social mobilization(including technical assistance for the KAP study), entomological evaluations, laboratory support and capacity building for data management personnel, as well as support for the FES (Fever Encephalitis Syndrome) investigation and laboratory testing to identify the etiology.
- ♦ Interagency coordination with government and partners (UNICEF, WHO, Institute of Public Health) is ongoing to support the implementation of a KAP survey. The work started this week with training and preparation of materials for eight provinces.
- ♦ Coordination with the Cuban Cooperation continues to end the entomologic evaluations in the remaining two of five provinces in need of vector risk assessments

Surveillance, Laboratory and Data management :

- ◆ Three laboratory positive test (IgM) cases were identified this week, the samples tested negative for Dengue, Chikungunya, Zika and West Nile viruses. Investigation teams were set to be deployed to Porto Amboim, Cuanza Sul and Chongoroi (Benguela) to investigate these cases.
- Support is being provided for the shipment of the samples of the cases of encephalitis (EFS) to an alternative laboratory to be tested for the main etiologies of encephalitis.
- ◆ Training and capacity building of national level data processing center continues

Vaccination:

- ◆ The vaccination campaign is planned to start in October the 10th in 8 districts with a total of 1,086,716 doses to be administered. This number of doses include 573,200 that arrived from Chumakov (Russia); and stock of 513,516 doses remaining from previous vaccination campaign phases in the country.
- ♦ 1,332,900 doses from Bio-Manginhos, Brazil, arrive in two shipments October 5th and 7th, 2016 respectively.

Logistics:

- ◆ Logistics preparation is underway for a vaccination campaign in Porto Amboim district, in Cuanza Sul provinve.
- ♦ Development of standard operating procedures for lab specimen collection and transport is on going
- ◆ Lab materials for collection of blood specimen, case investigation forms, and cold boxes for transportation of samples have been distributed to all provinces

Border Health:

- ◆ Following the assessment conducted at the International Airport in Luanda in the previous week, there was an immediate request from the National Civil Aviation Authority to revise and support drafting the Airport Public Health Emergency Contingency Plan. The multidisciplinary team working on strengthening the IHR (2005) at Points of Entry (PoEs) has revised this draft and has put forward recommendations to be discussed at an inter-sectoral meeting planned by the National Directorate for Public Health.
- ♦ The work on developing the action plan for strengthening the IHR (2005) core capacities at designated PoEs continues, with the first phase mapping of key designated PoEs (Airports, Ports and ground crossings) already accomplished in week 38. WHO is also supporting the revision of SOPs for both Airport/airplanes sanitary inspection and Port/ships sanitary inspection by the National Health Inspection Agency.

Social Mobilization, Risk Communication and Media:

- ♦ The "Café de ideias" meeting with journalist from different media outlets in Luanda was organized on the 16th of September to share main concerns and proposals in communicating yellow fever risks; key inputs were made for future activities
- ♦ The KAP study protocol was approved.; and the aim of this study is to provide inputs in risk communication in 8 provinces. Training of supervisors who will administer the questionnaire has commenced.

Case Management :

♦ No update for case management activities during this period

Vector Control:

◆ Entomologic risk assessment has been completed in three of five provinces with preliminary results suggesting high-level infestation of Aedes aegypti in Bengo, medium in Cuanza Norte; no infestation in Cuando Cubango due to dry climate in this province

Special Studies and Assessments

- ◆ KAP survey training activities and preparation of materials including questionnaire distribution have commenced
- ◆ The entomologic assessments will continue in the two remaining provinces—Bie and Moxico
- ◆ The vaccination cluster coverage survey remains on-hold due to financial constraints

Kev challenges

- Sustaining adequate support for pillar responses with limited human resources
- ♦ Departure of the remaining international staff in country within two weeks will have an impact on response activities especially investigation of FES cases
- ◆ The reception of YF vaccine in three batches for the fifth vaccination campaign phase limits the media communication support for a single advertisement.
- ♦ Delays in identifying causal aetiology of FES requires support from other WHO regional offices with the capacities to test for most likely causes of infectious encephalitis
- ◆ Fundraising initiatives are still required so that the IM system can guarantee a minimum level of technical assistance post outbreak