



World Health
Organization

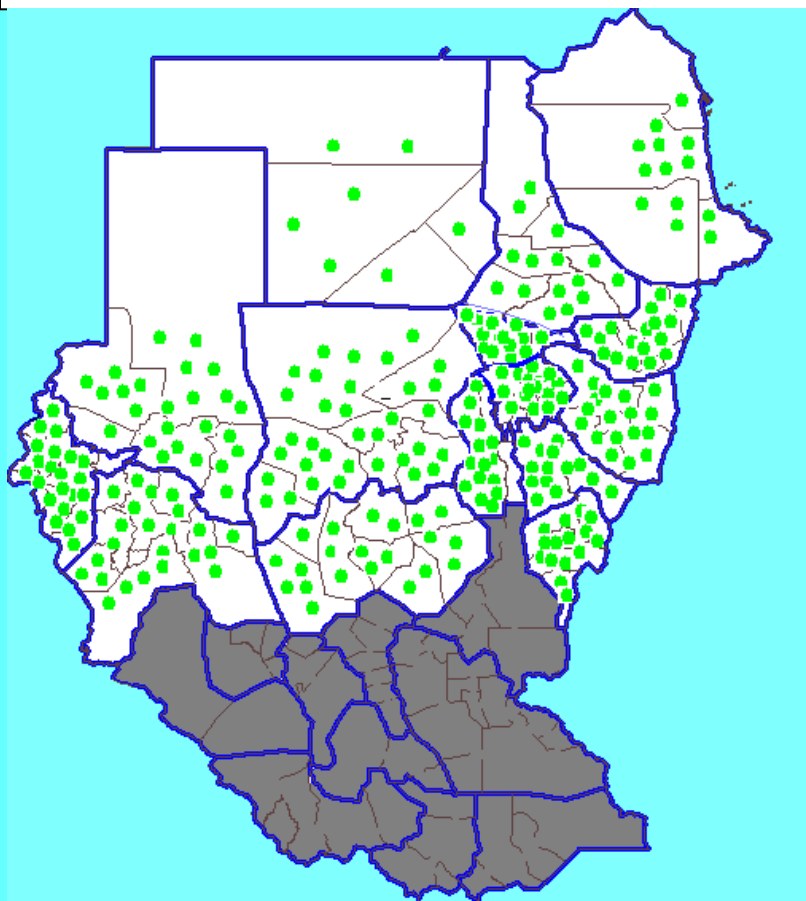


Sudan Weekly AFP surveillance report week 29

Ending on 24 July 2011

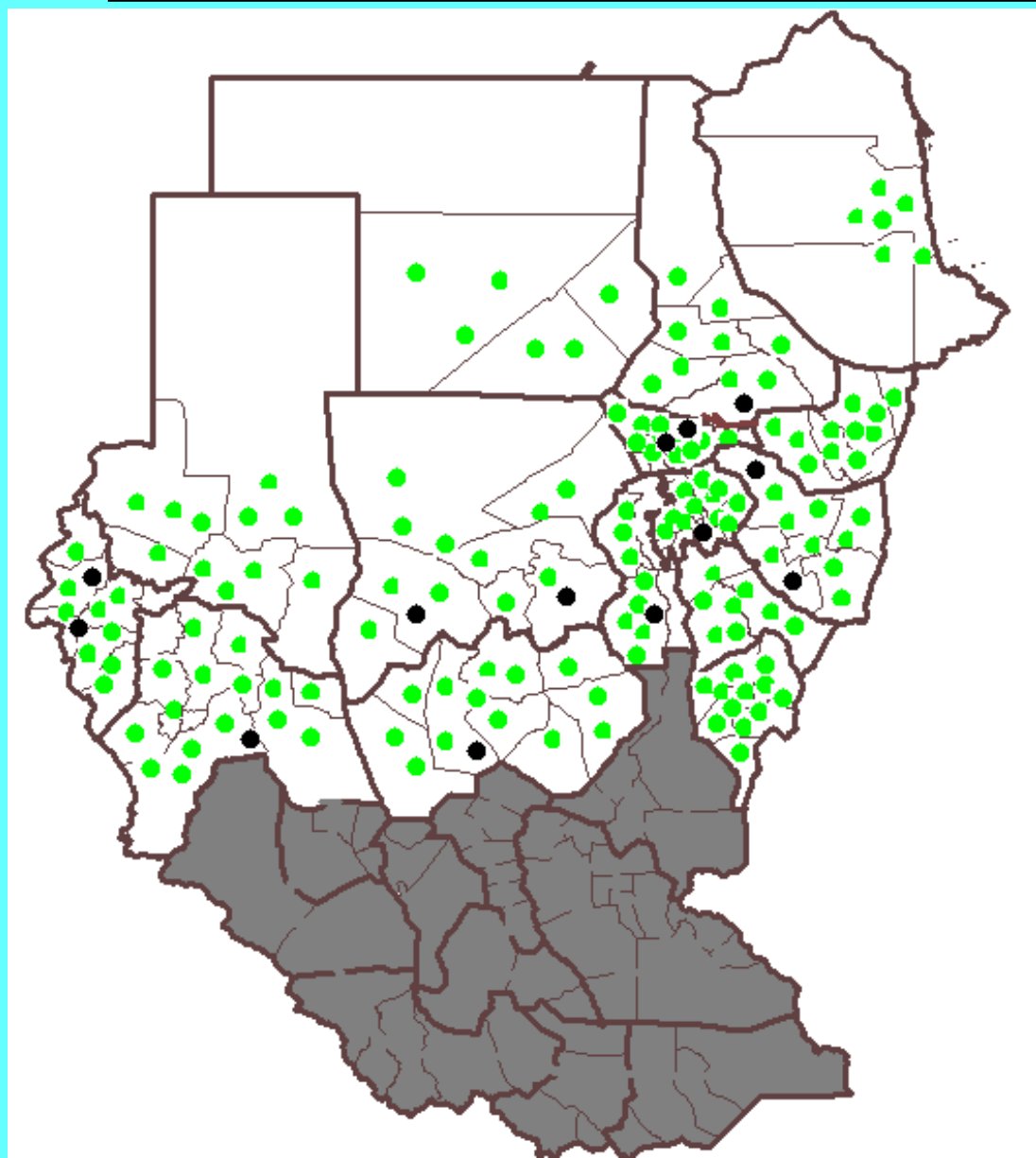
AFP Surveillance central unit

Map 1. Distribution of AFP cases by classification, N Sudan, 2010



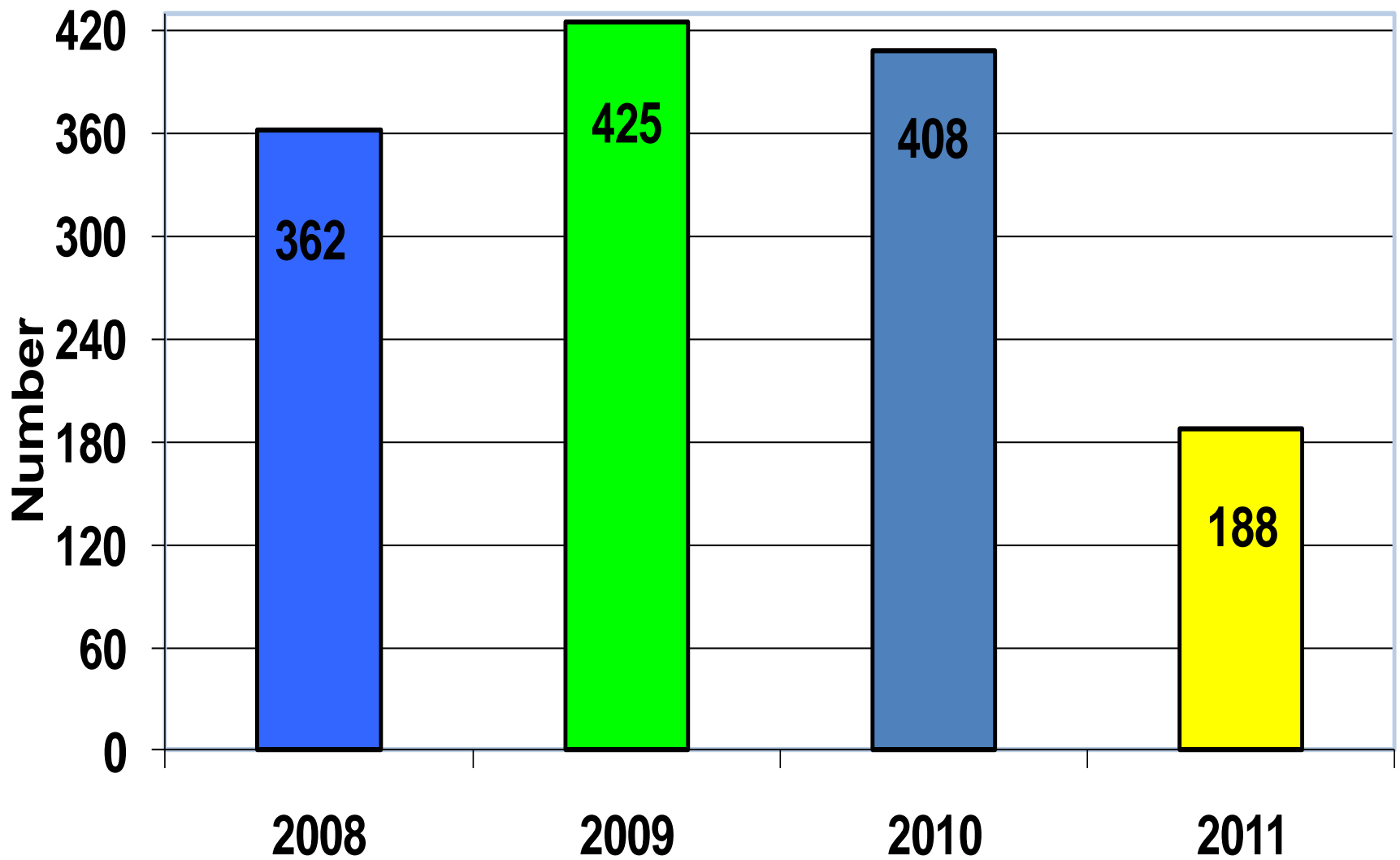
● Non-polio AFP
● Pending classification

Map 2. Distribution of AFP cases by classification, N Sudan, 2011*



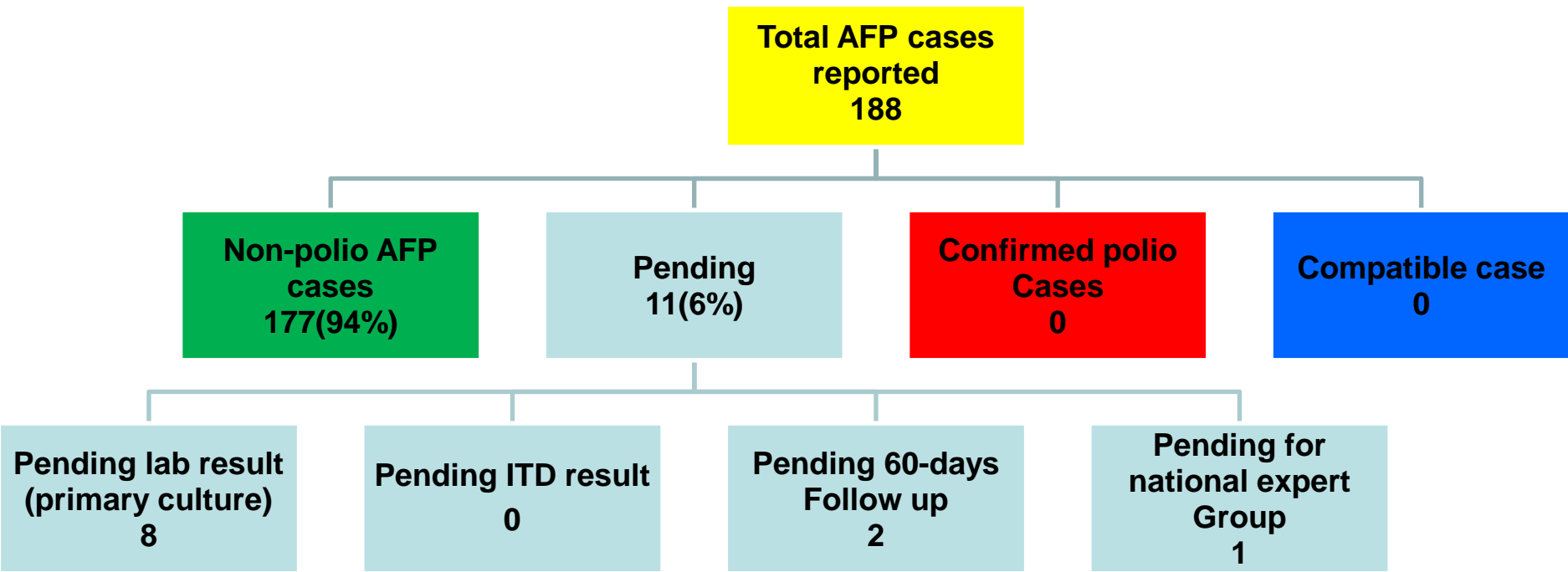
*** Up to 24/7/2011**

**Fig. 1: Total AFP cases, North Sudan
2008-2011***



* Up to 24/7/2011

Fig. 2: Total AFP cases by classification, North Sudan, 2011*



*** Up to 24/7/2011**

Fig. 3: Total AFP cases by classification, North Sudan, 2010

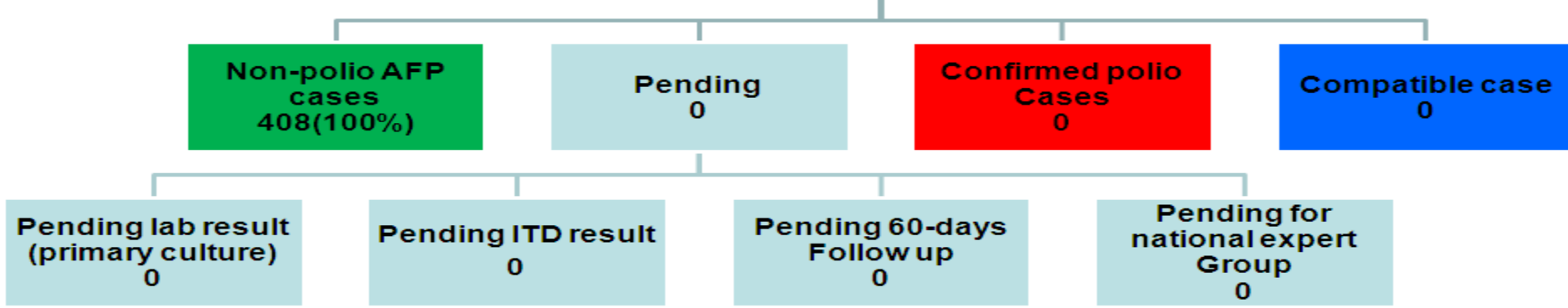
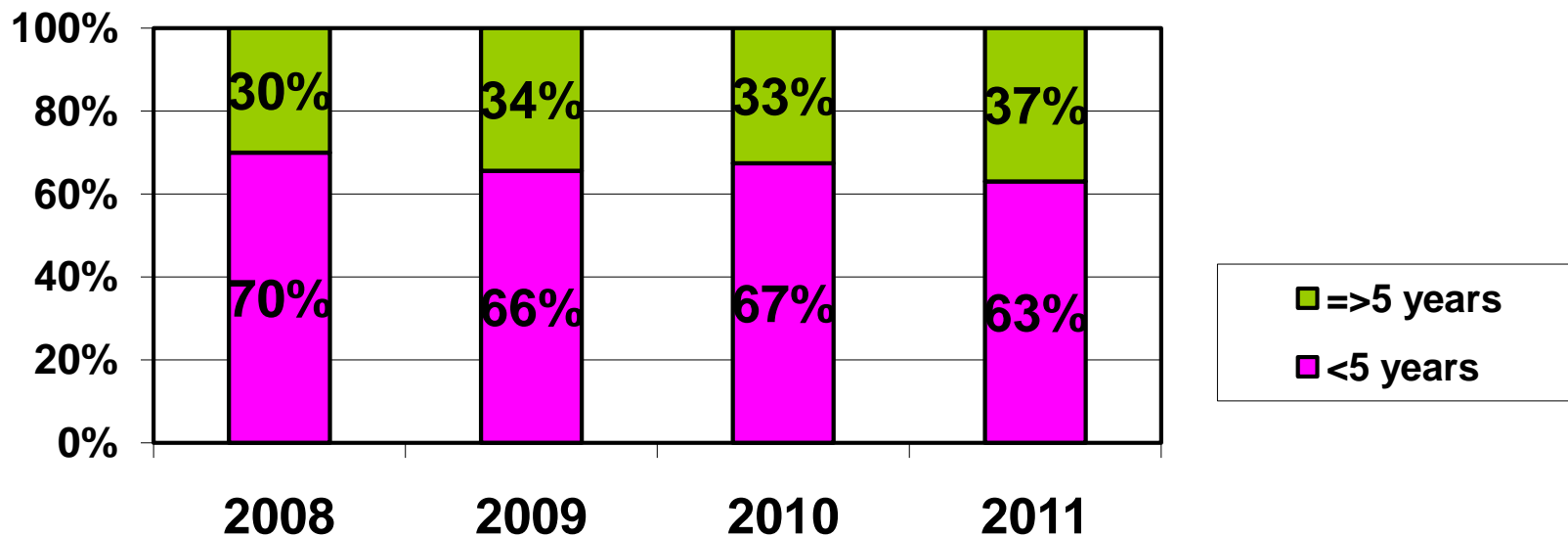


Fig. 4: North SUDAN AFP cases by age group, 2008 – 2011*



*** Up to 24/7/2011**

Fig. 5: North SUDAN AFP cases by sex 2008 – 2011*

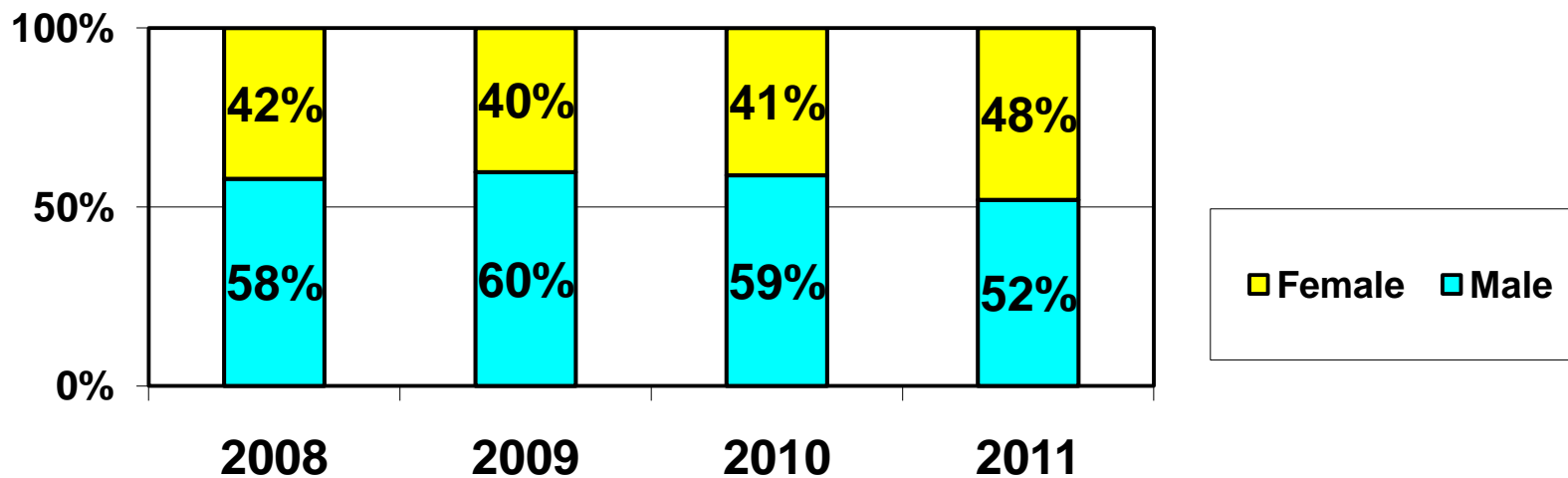


Fig. 6: Percent distribution of AFP cases by time of detection, North Sudan, 2010

N = 408 AFP cases

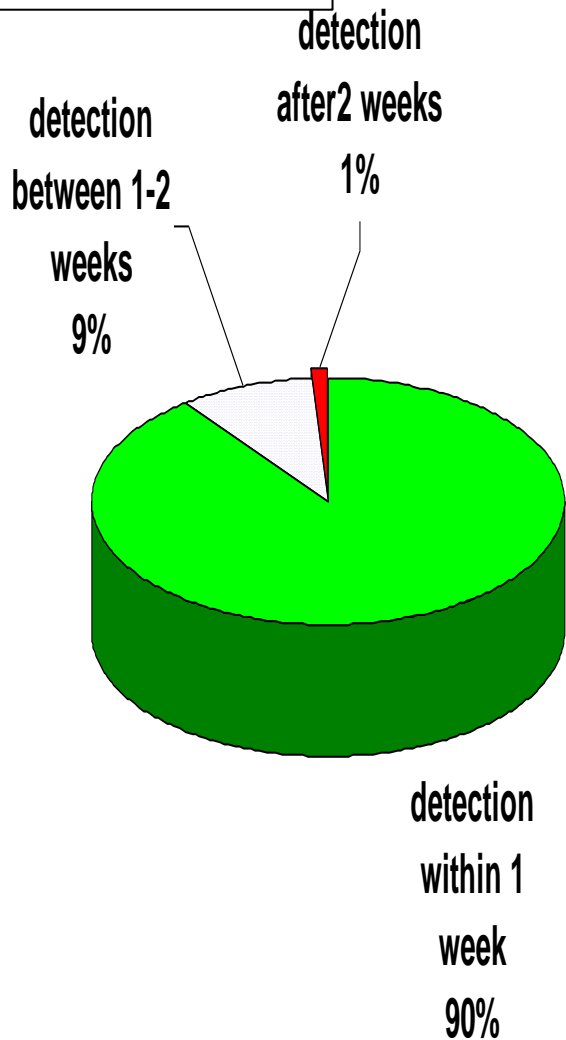
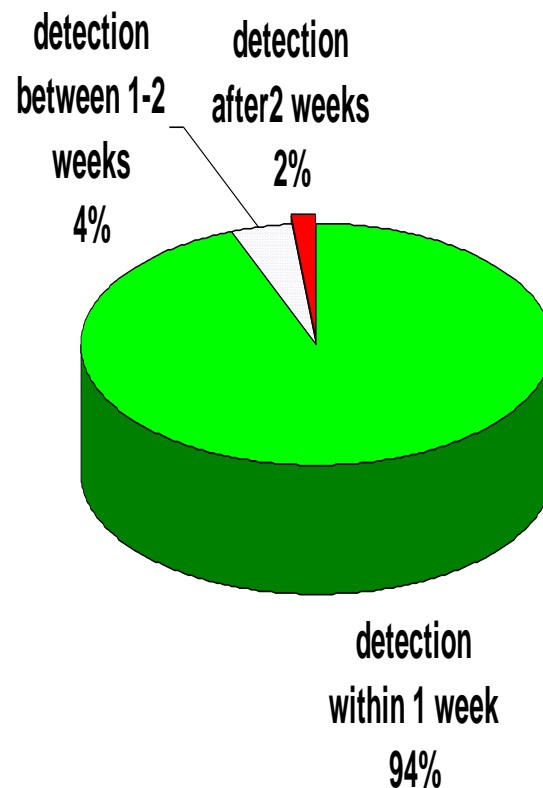


Fig. 7: Percent distribution of AFP cases by time of detection, North Sudan, 2011*

N = 188 AFP cases



*** Up to 24/7/2011**

Fig. 8: Percent distribution of AFP cases according to the timeliness of detection by states, Northern states, 2010

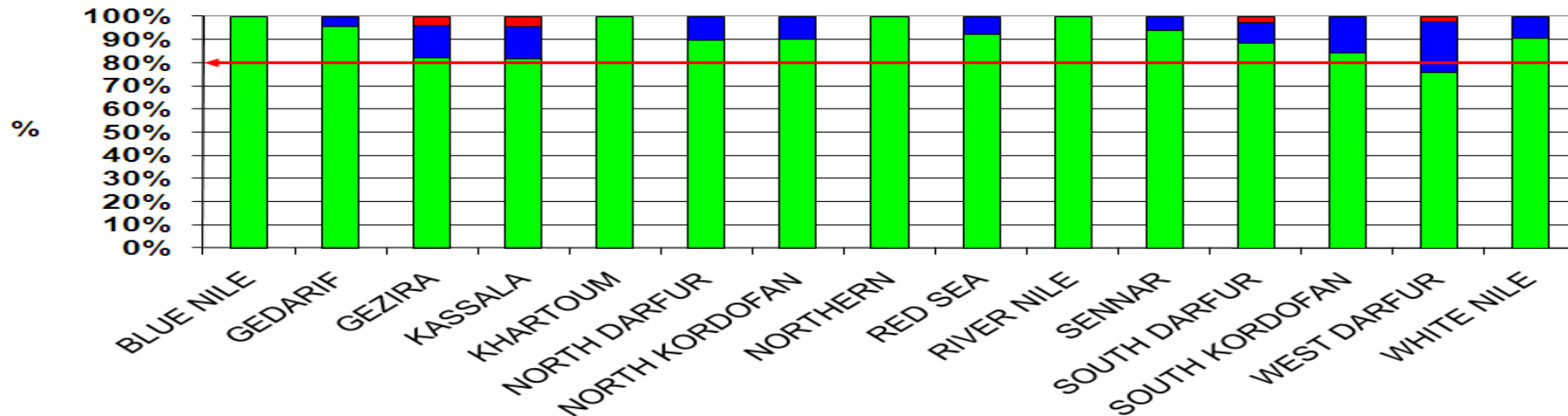
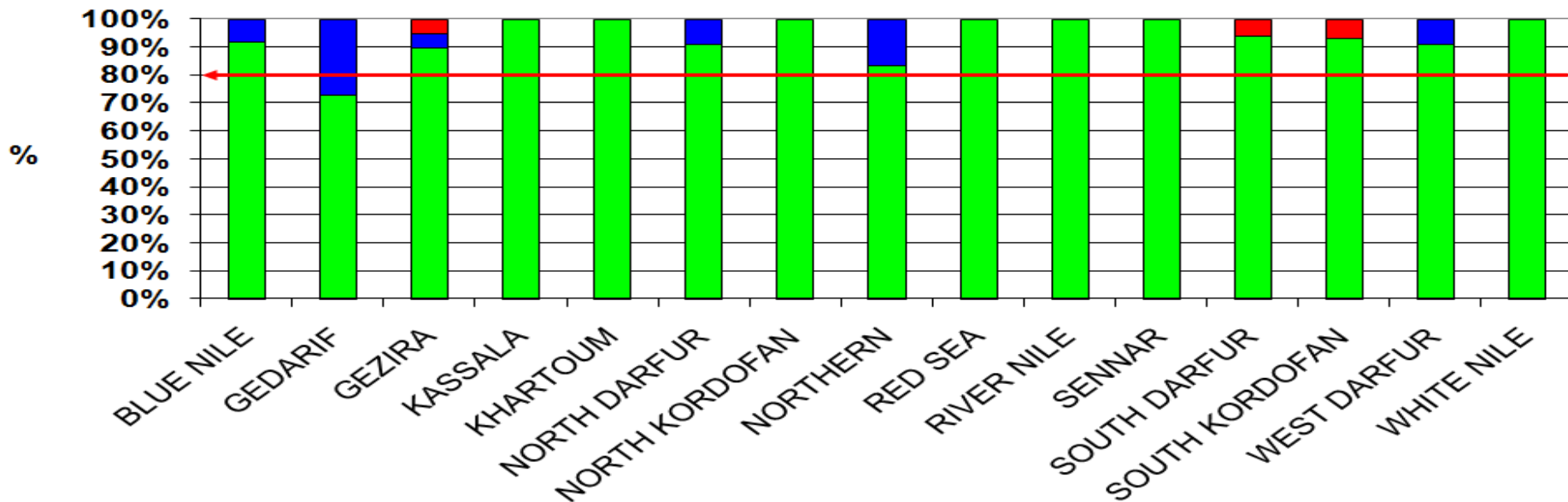


Fig. 9: Percent distribution of AFP cases according to the timeliness of detection by states, Northern states, 2011*



* Up to 24/7/2011

■ Early detection ■ Moderate detection ■ Late detection

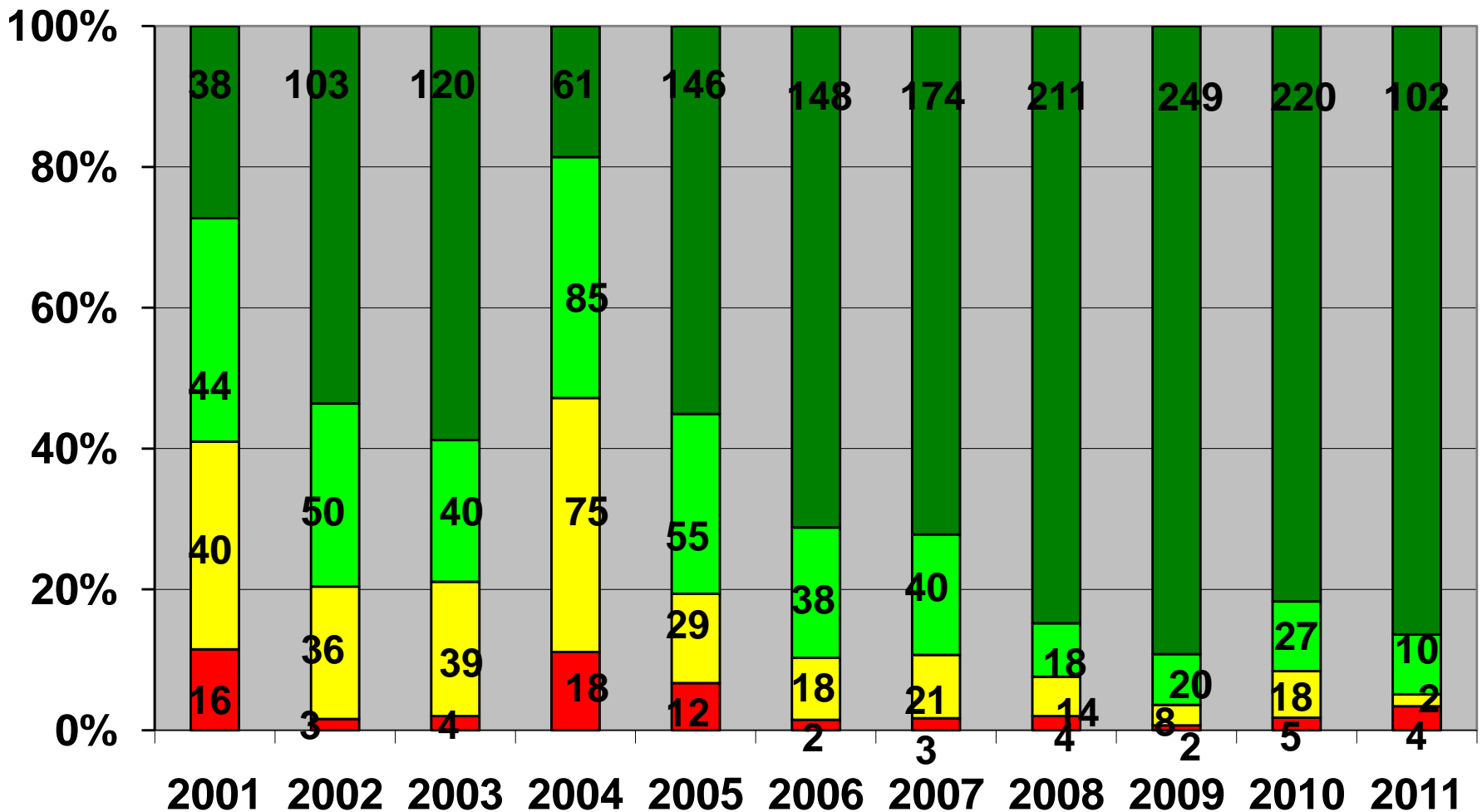
Table 1. Major AFP surveillance performance indicators, Northern States, 2010

State	U 15 yrs population	Total reported AFP cases	Non-polio AFP cases	Pending classification	Polio cases	Compatible cases	% Adequate stools	Annualized AFP rate	% NPEV
B. Nile	355,219	20	20	0	0	0	100%	5.6	5%
Gedarif	833,767	22	22	0	0	0	95%	2.6	14%
Gezira	1,868,934	50	50	0	0	0	96%	2.7	20%
Kasala	815,721	22	22	0	0	0	95%	2.7	5%
Khartom	2,316,035	49	49	0	0	0	100%	2.1	10%
N.Darf	836,608	29	29	0	0	0	100%	3.5	17%
N.Kord	1,243,363	40	40	0	0	0	98%	3.2	15%
Northern	263,099	7	7	0	0	0	100%	2.7	14%
Red Sea	329,031	13	13	0	0	0	92%	4.0	8%
River Nile	453,525	18	18	0	0	0	94%	4.0	6%
Sennar	699,734	16	16	0	0	0	88%	2.3	25%
S.Darfur	1,689,498	35	35	0	0	0	97%	2.1	23%
S. Kord	947,711	25	25	0	0	0	100%	2.6	28%
W.Darfur	927,169	41	41	0	0	0	98%	4.4	15%
W. Nile	814,450	21	21	0	0	0	100%	2.6	14%
Total	14,393,864	408	408	0	0	0	97%	2.8	15%

Table 2. Major AFP surveillance performance indicators, Northern States, up to 24/7/2011

State	U 15 yrs population	Total reported AFP cases	Non-polio AFP cases	Pending classification	Polio cases	Compatible cases	% Adequate stools	Annualized AFP rate	% NPEV
B. Nile	365,591	12	12	0	0	0	100%	5.9	17%
Gedarif	860,364	11	10	1	0	0	91%	2.3	20%
Gezira	1,921,077	19	18	1	0	0	95%	1.8	26%
Kasala	836,195	11	11	0	0	0	100%	2.4	27%
Khartom	2,401,033	29	27	2	0	0	100%	2.2	15%
N.Darf	863,045	11	11	0	0	0	100%	2.3	27%
N.Kord	1,262,262	14	13	1	0	0	93%	2.0	15%
Northern	267,256	6	6	0	0	0	100%	4.0	33%
Red Sea	330,018	6	6	0	0	0	100%	3.3	33%
River Nile	461,734	10	9	1	0	0	90%	3.9	20%
Sennar	717,437	9	9	0	0	0	100%	2.2	11%
S.Darfur	1,747,110	16	15	1	0	0	94%	1.6	7%
S. Kord	960,789	14	13	1	0	0	93%	2.6	8%
W.Darfur	949,143	11	9	2	0	0	91%	2.1	10%
W. Nile	834,567	9	8	1	0	0	100%	1.9	13%
Total	14,777,621	188	177	11	0	0	96%	2.3	18%

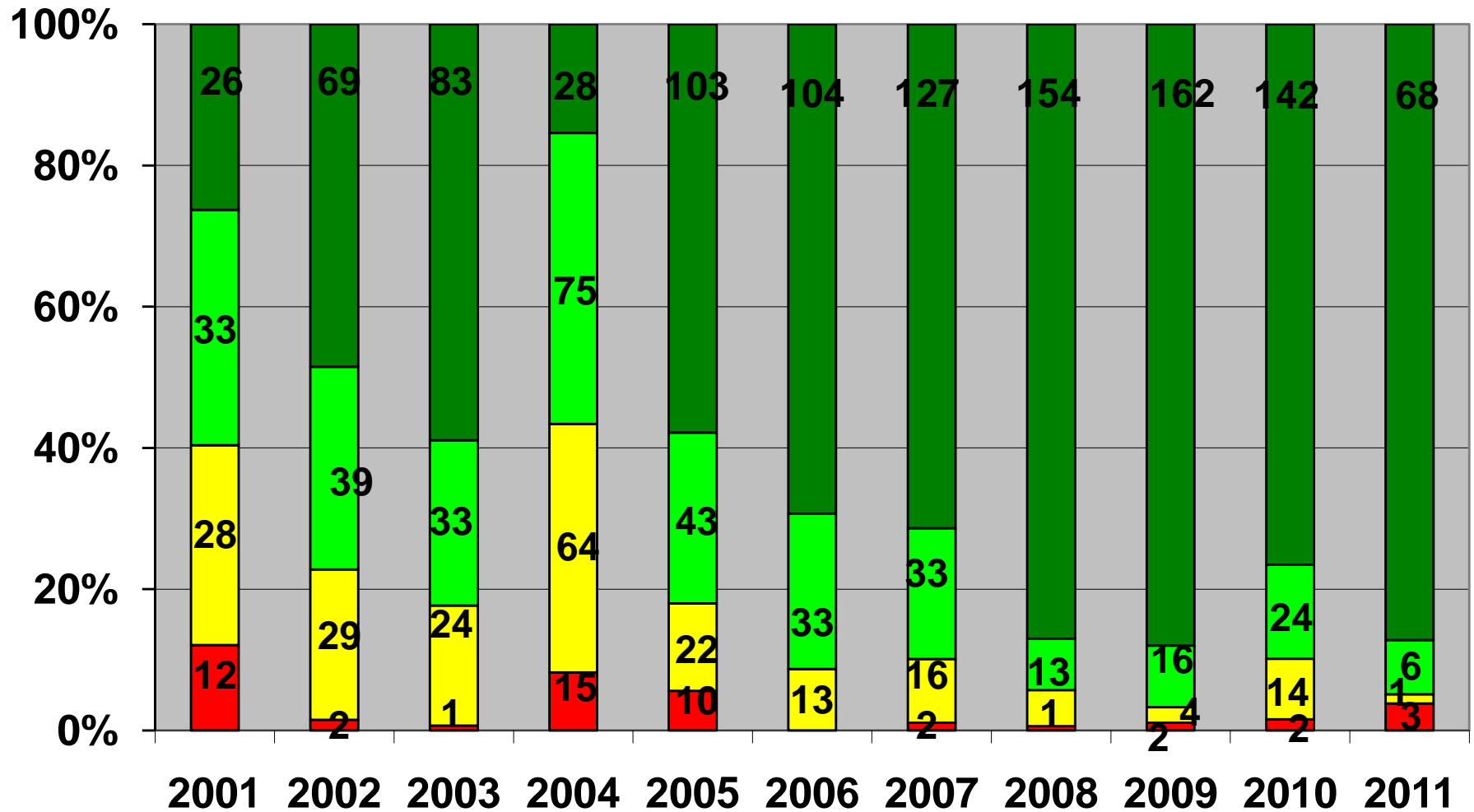
Fig. 10: Percent distribution of AFP cases < 60 months by number of OPV doses, North Sudan 2001-2011*



■ 0 OPV doses
 ■ '1-3 OPV doses
 ■ '4-6 OPV doses
 ■ 7+ OPV doses

* Up to 24/7/2011

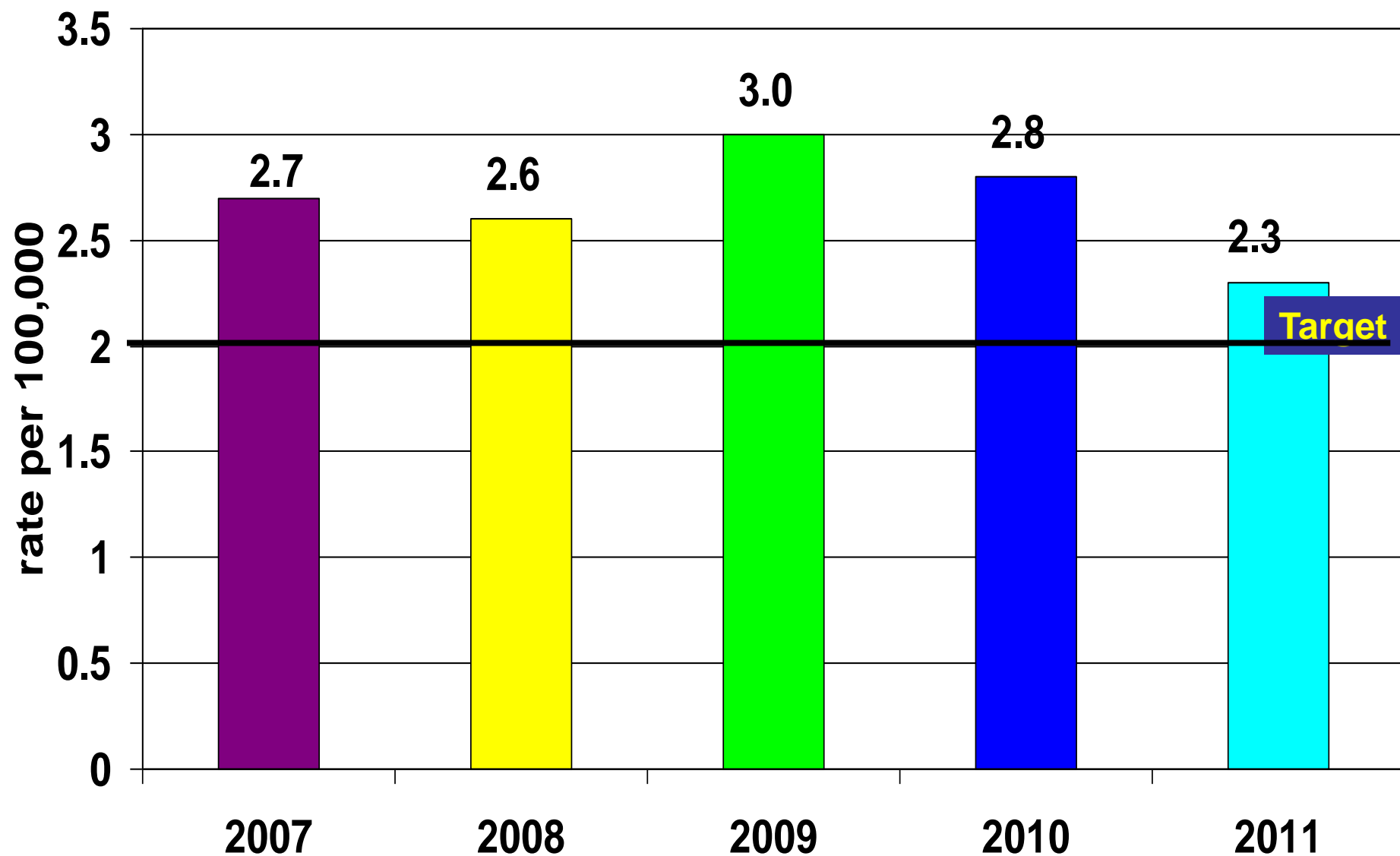
Fig. 11: No. & percent distribution of AFP cases 6-36 months by number of OPV doses, North Sudan 2001-2011*



■ 0 OPV doses
 ■ '1-3 OPV doses
 ■ '4-6 OPV doses
 ■ 7+ OPV doses

* Up to 24/7/2011

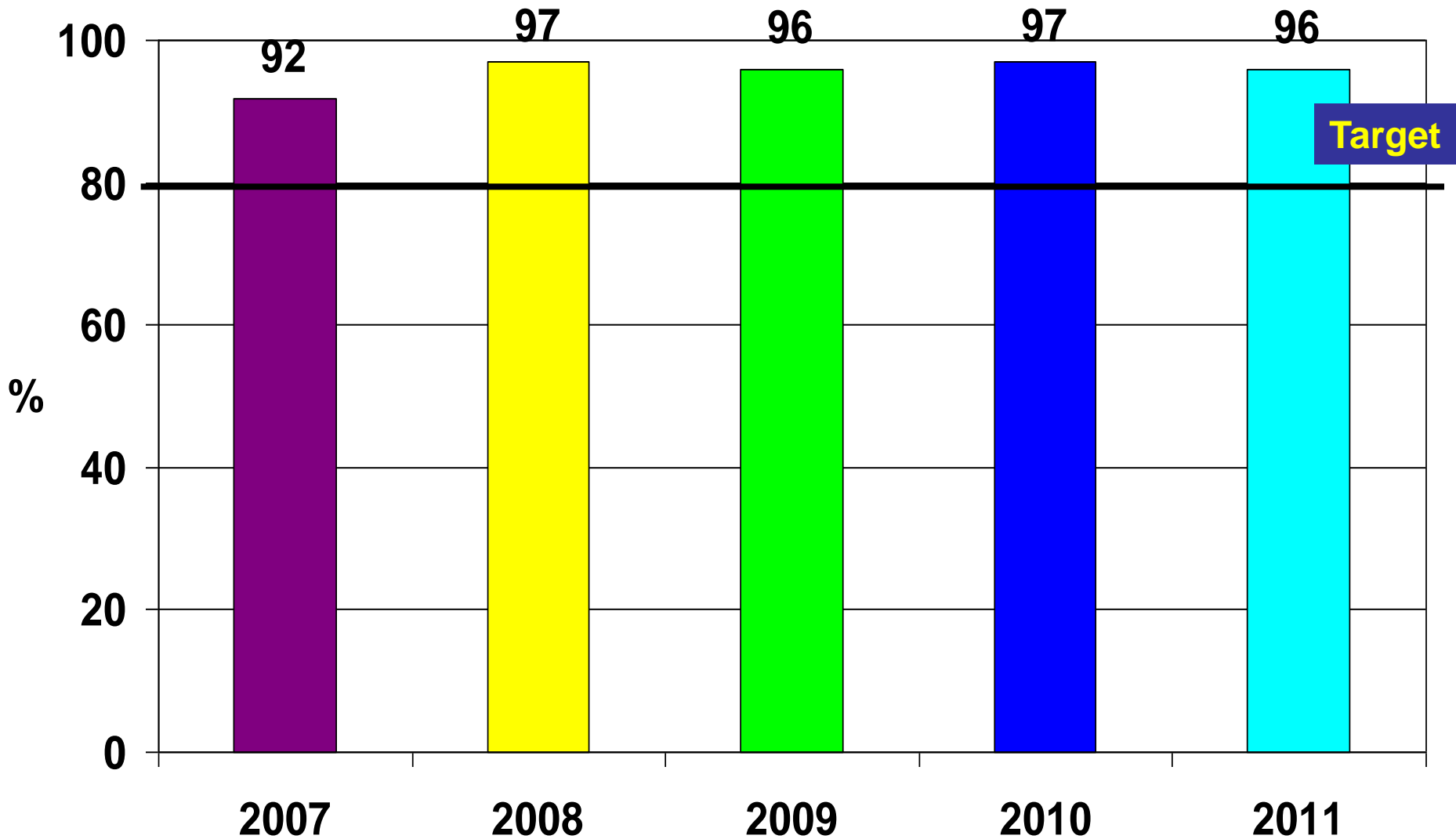
Fig. 12: Non-Polio AFP rate per 100,000 children under 15 years of age, North Sudan, 2007 – 2011*



* Up to 24/7/2011

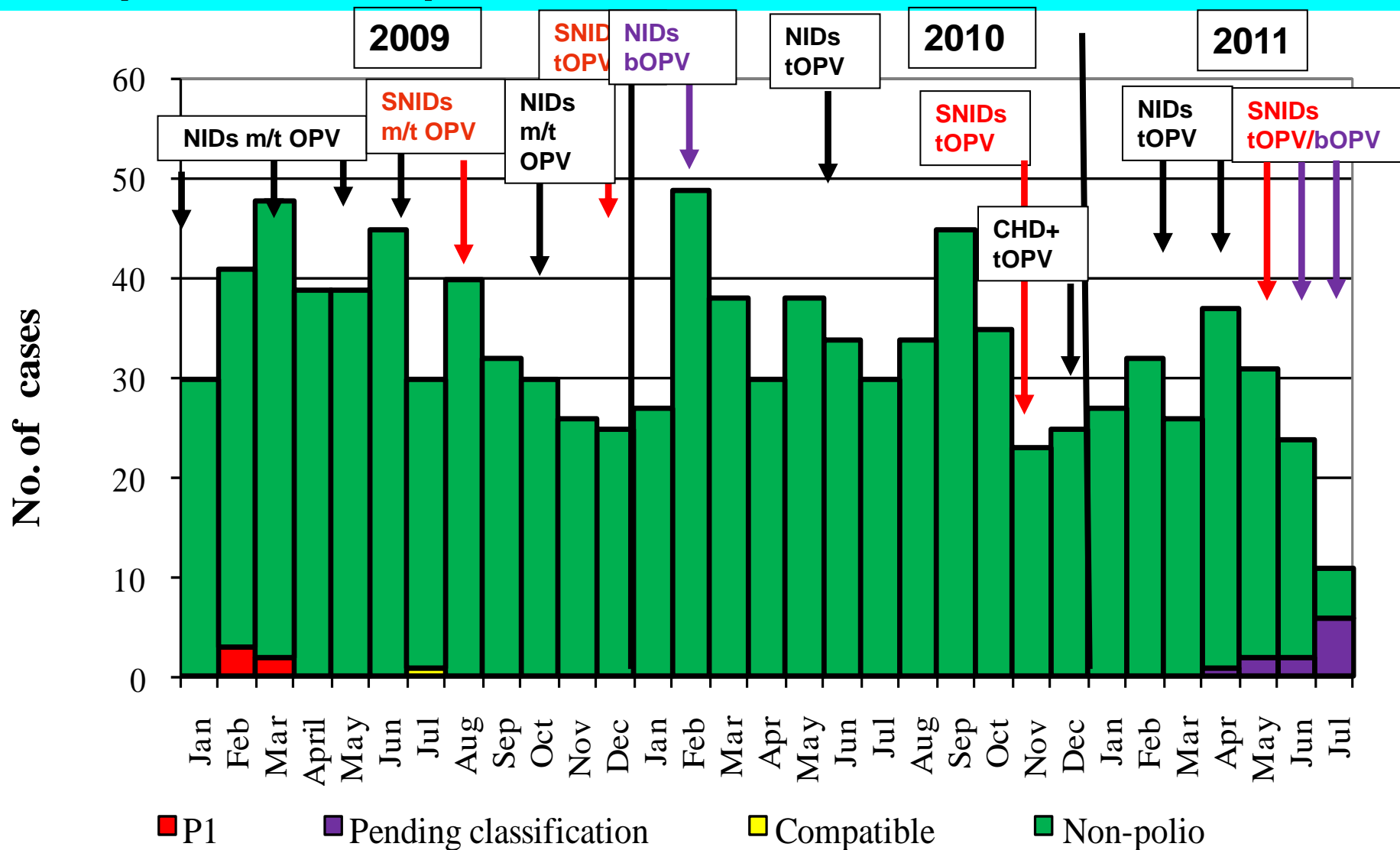
Fig. 13: Adequate stool collection rate

North Sudan, 2007 – 2011*



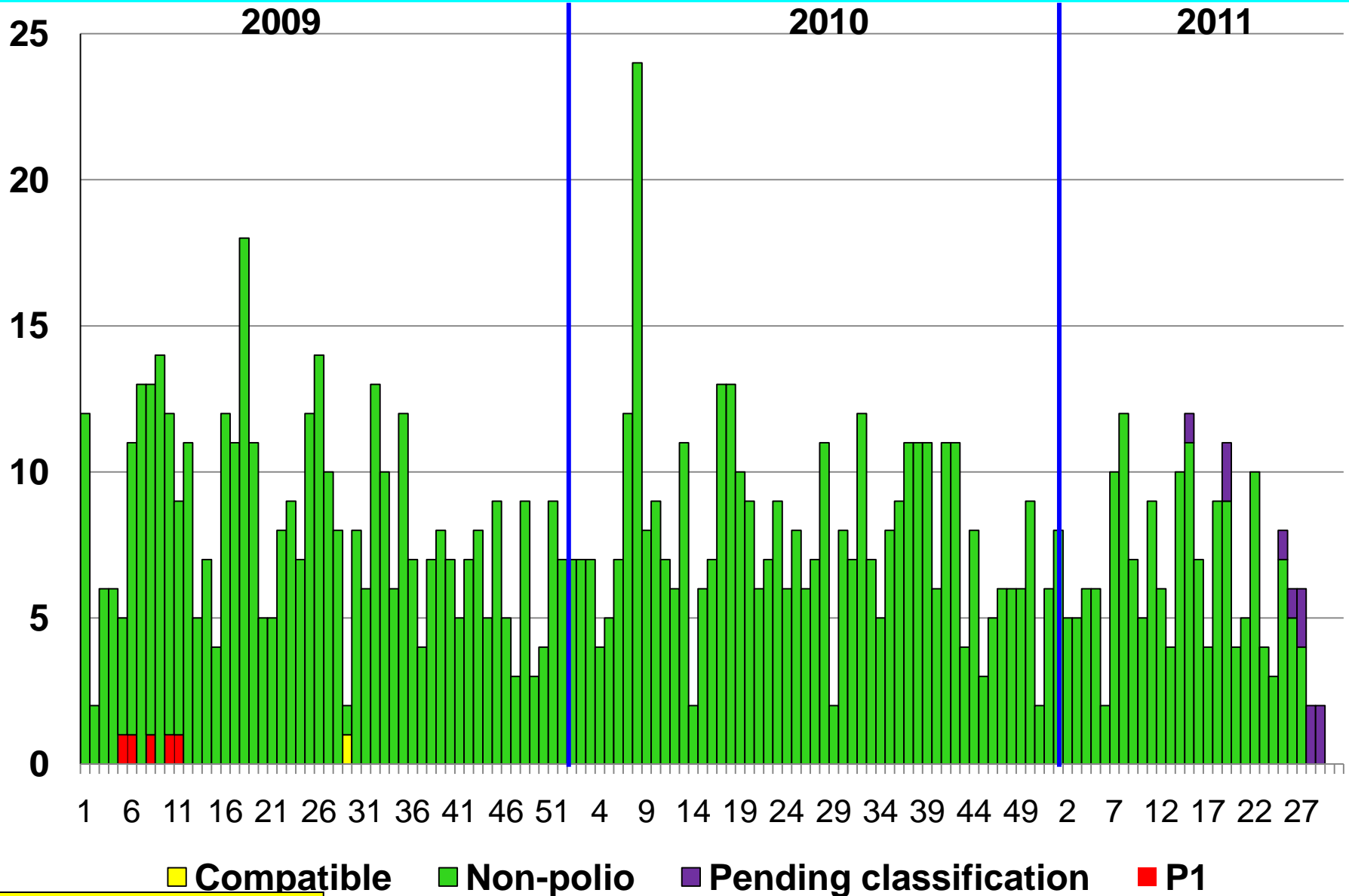
* Up to 24/7/2011

Fig 14. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation in North Sudan 2008-2011*



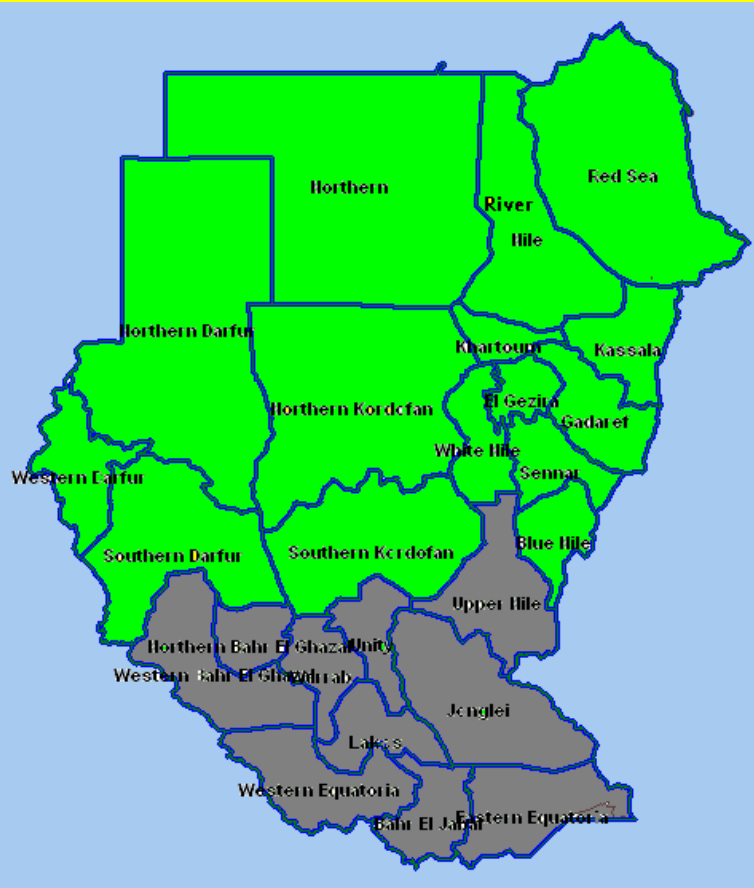
* Up to 24/7/2011

Fig. 15: Distribution of AFP cases by classification and week of onset, North Sudan 2008 – 2011*

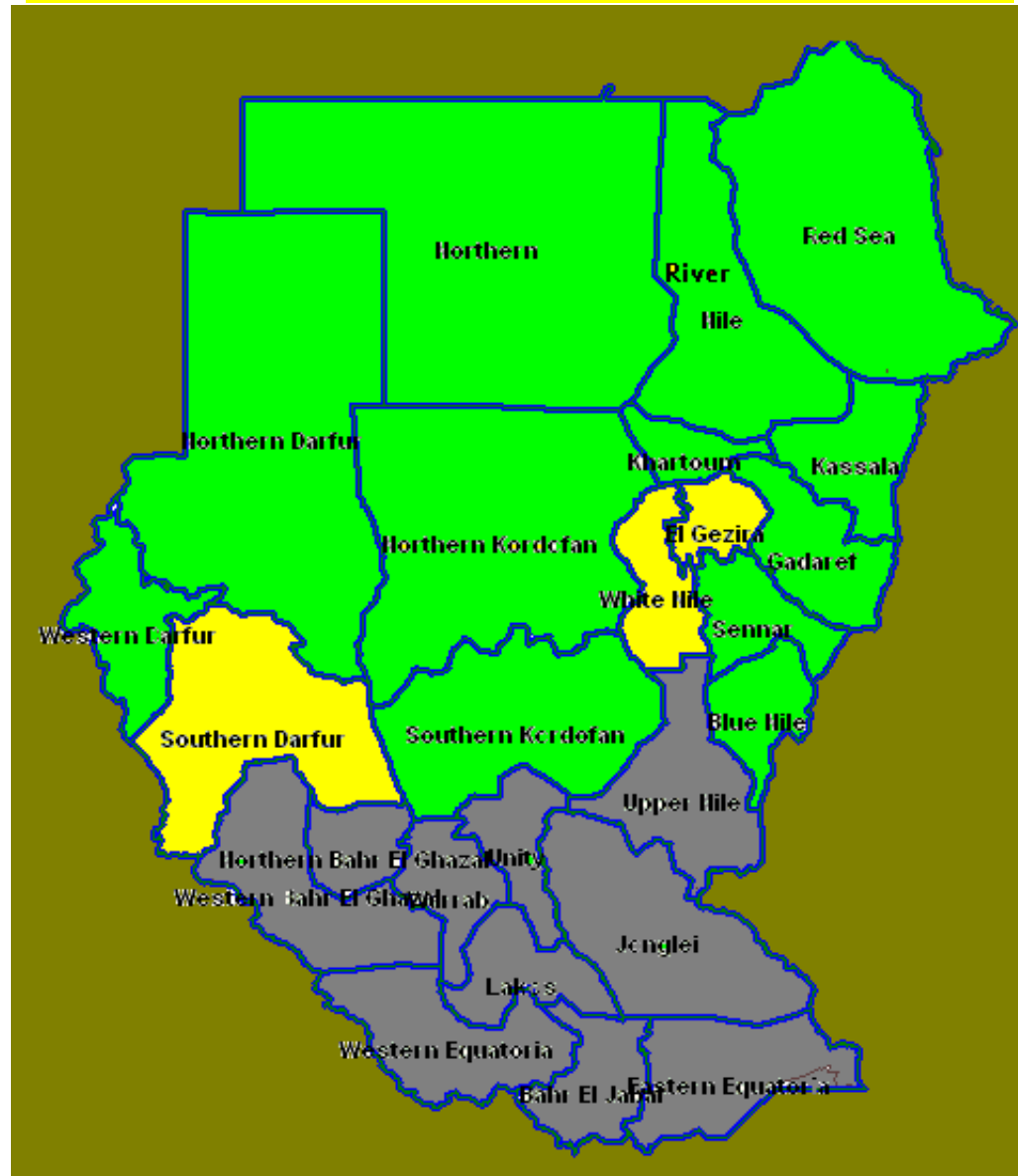


* Up to 24/7/2011

Map 3. Non-polio AFP rate by state, 2010



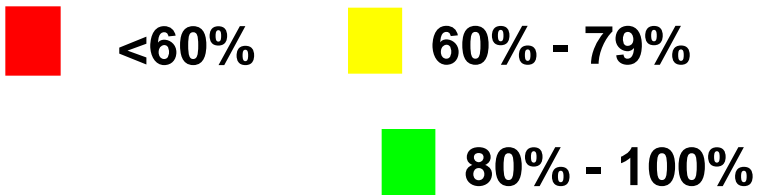
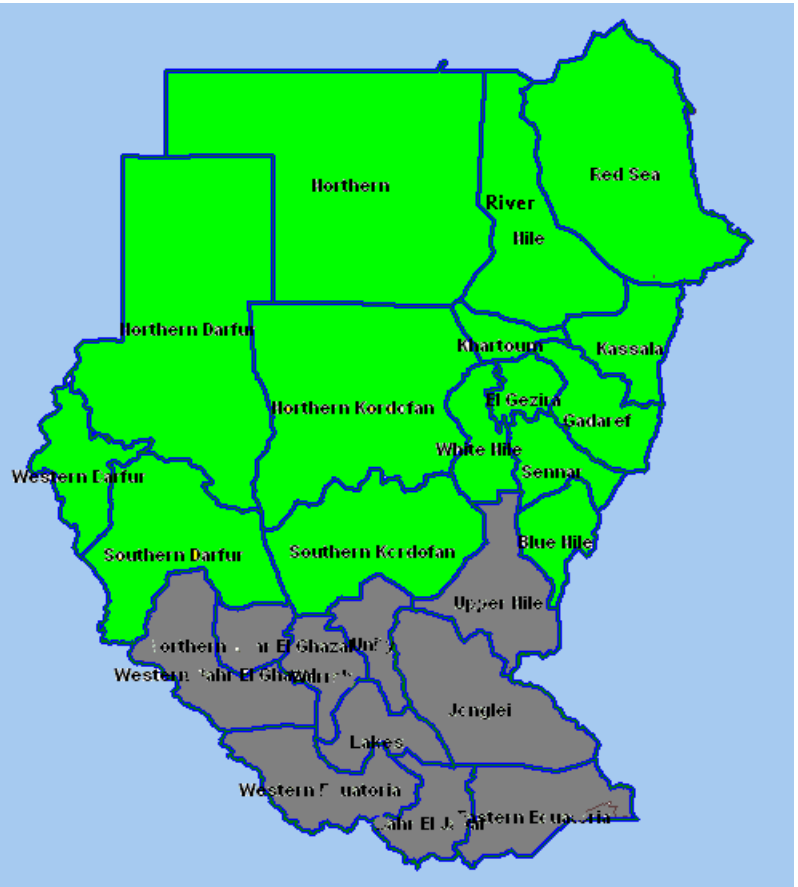
Map 4. Annualized Non-polio AFP rate by state 2011*



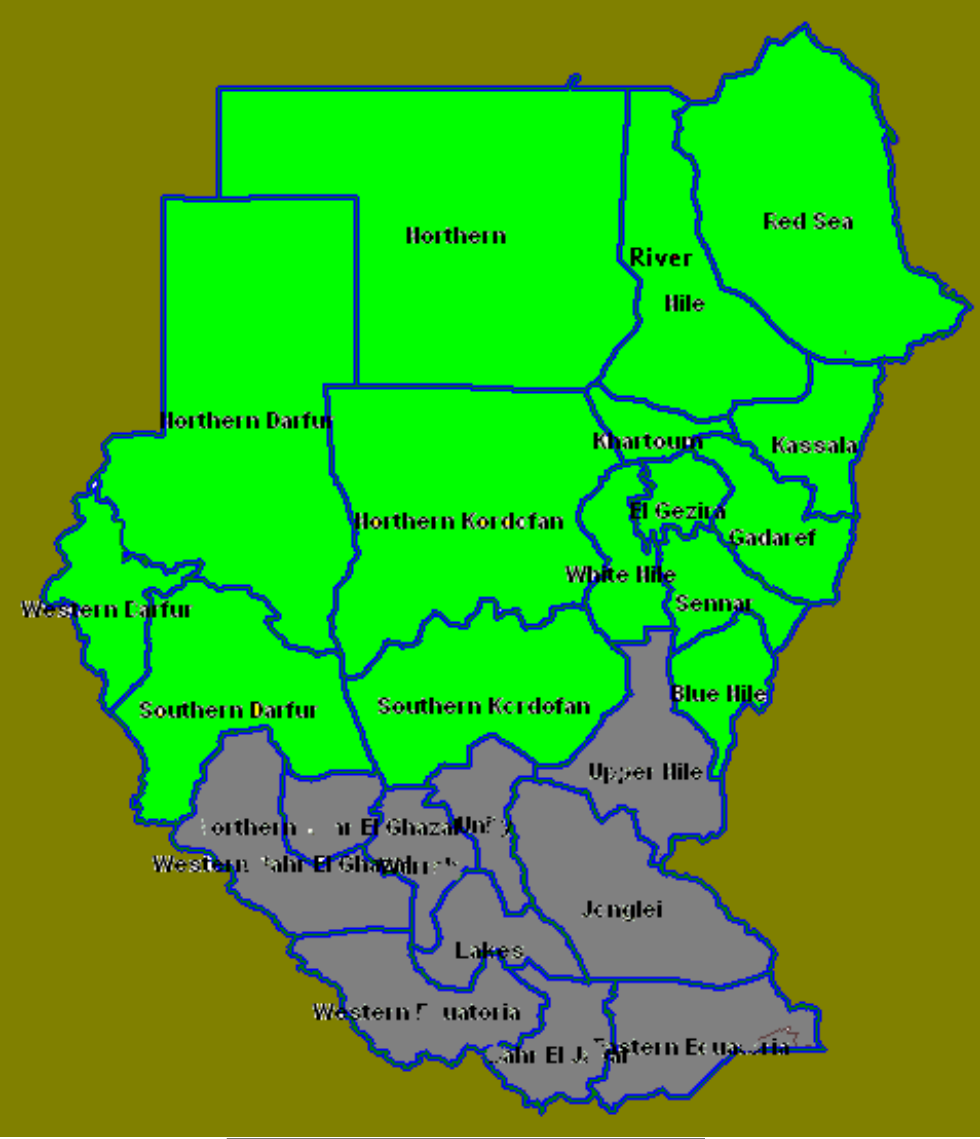
* Up to 24/7/2011

- <1 per 100,000
- 1-1.9 per 100,000
- 2 or more per 100,000

Map 5. Percent distribution of AFP cases having adequate stool samples by states, 2010



Map 6. Percent distribution of AFP cases having adequate stool samples by state, 2011*



*** Up to 24/7/2011**

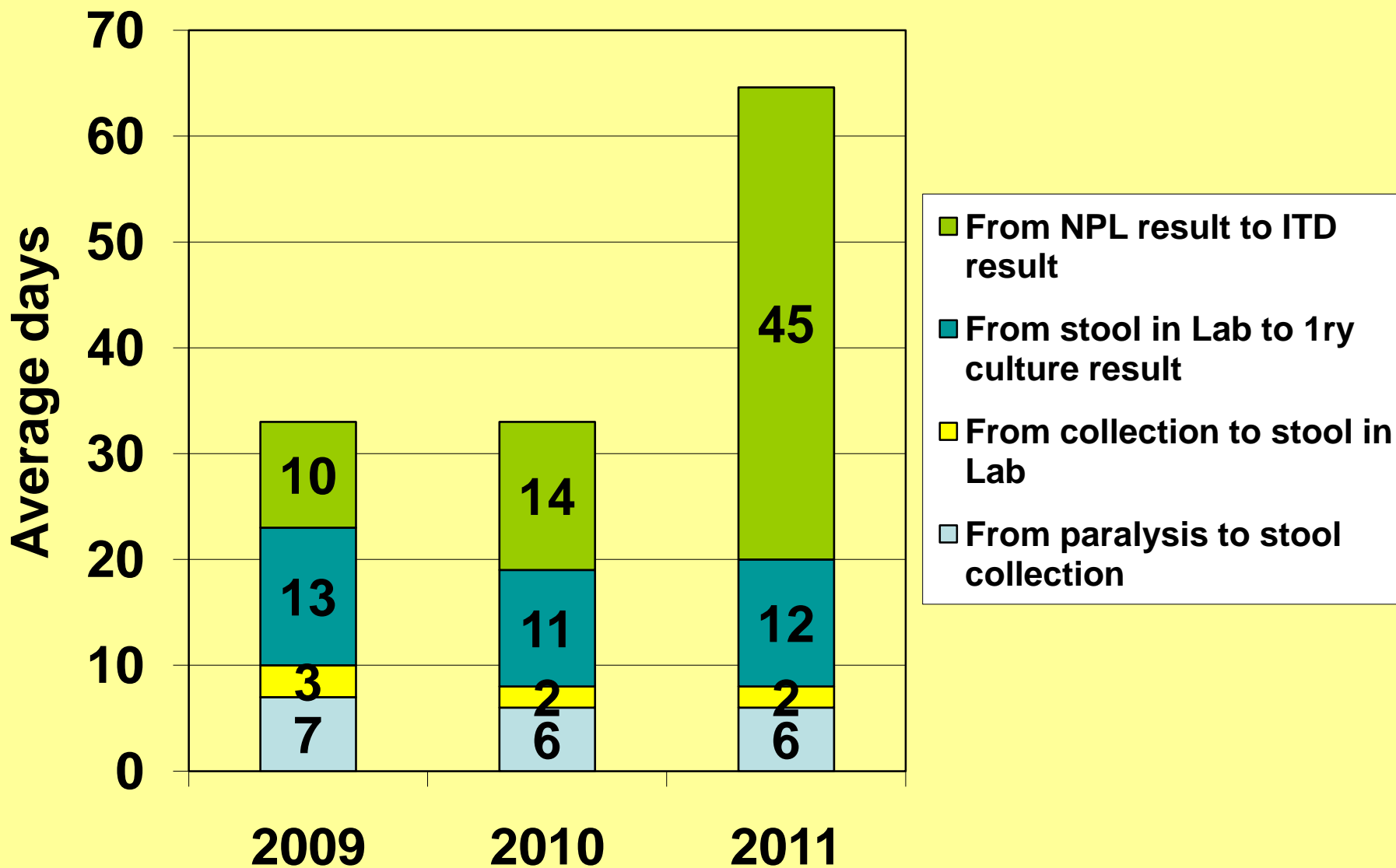
**Table 4. National polio lab performance indicators
North Sudan, 2009-2011**

Indicator	2009 up to W29	2010 up to W29	2011 up to W29
AFP cases with samples tested in NPL	246	230	188
Cases with wild poliovirus (imported P1)	5	0	0
Cases with wild poliovirus (imported P3)	0	0	0
Cases with non-polio enterovirus	17%	13%	18%
SL viruses No. & (%) from AFP cases	6(2%)	3(1.5%)	6(3.3%)
Median days from the time of samples received in the lab to primary culture report or L20B result	12 days	11days	12 days
Number of samples from the AFP contacts tested in the NPL	261	116	116
Contacts with non-polio enterovirus	7.7%	8.8%	13%
Sabin like viruses No. & (%) from contacts	4(1.5%)	0	5(4.8%)
NSL like viruses from contacts	3	0	0

**Table 5. Polio lab performance
North Sudan, 2009 and 2011**

Week of onset	Total AFP Cases with samples	AFP Cases under processes	L20B +ve pending ITD	Negative cases	NPEV positive	% NPEV	Result reported within 14 days	Arrival within 3 days of being collected from the 2nd sample	Arrival within 3 days of being sent from the 2nd sample
2009 up to W29	246	19	1	190	36	17%	88%	78%	99%
2010 up to W29	230	12	2	188	28	13%	90%	86%	99%
2011 up to W29	188	8	0	148	32	17%	84%	83%	100%

Fig. 16: AFP Specimens' median timeliness NPL 2009-2011*



* Up to 24/7/2011