



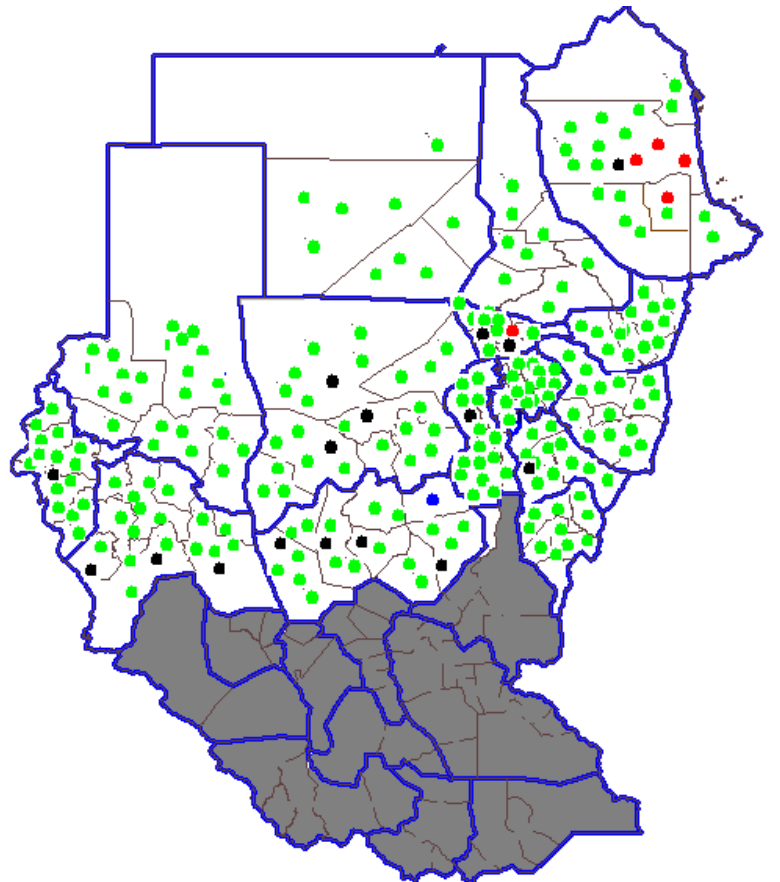
Sudan Weekly AFP Surveillance Report

Week 46

(Ending on 21 November 2010)

**National AFP
Surveillance system
Sudan**

Map 1. Distribution of AFP cases by classification, N Sudan, 2009



- Polio case P1
- Compatible case
- Non-polio AFP
- Pending classification

Map 2. Distribution of AFP cases by classification, N Sudan up to week 46 2010

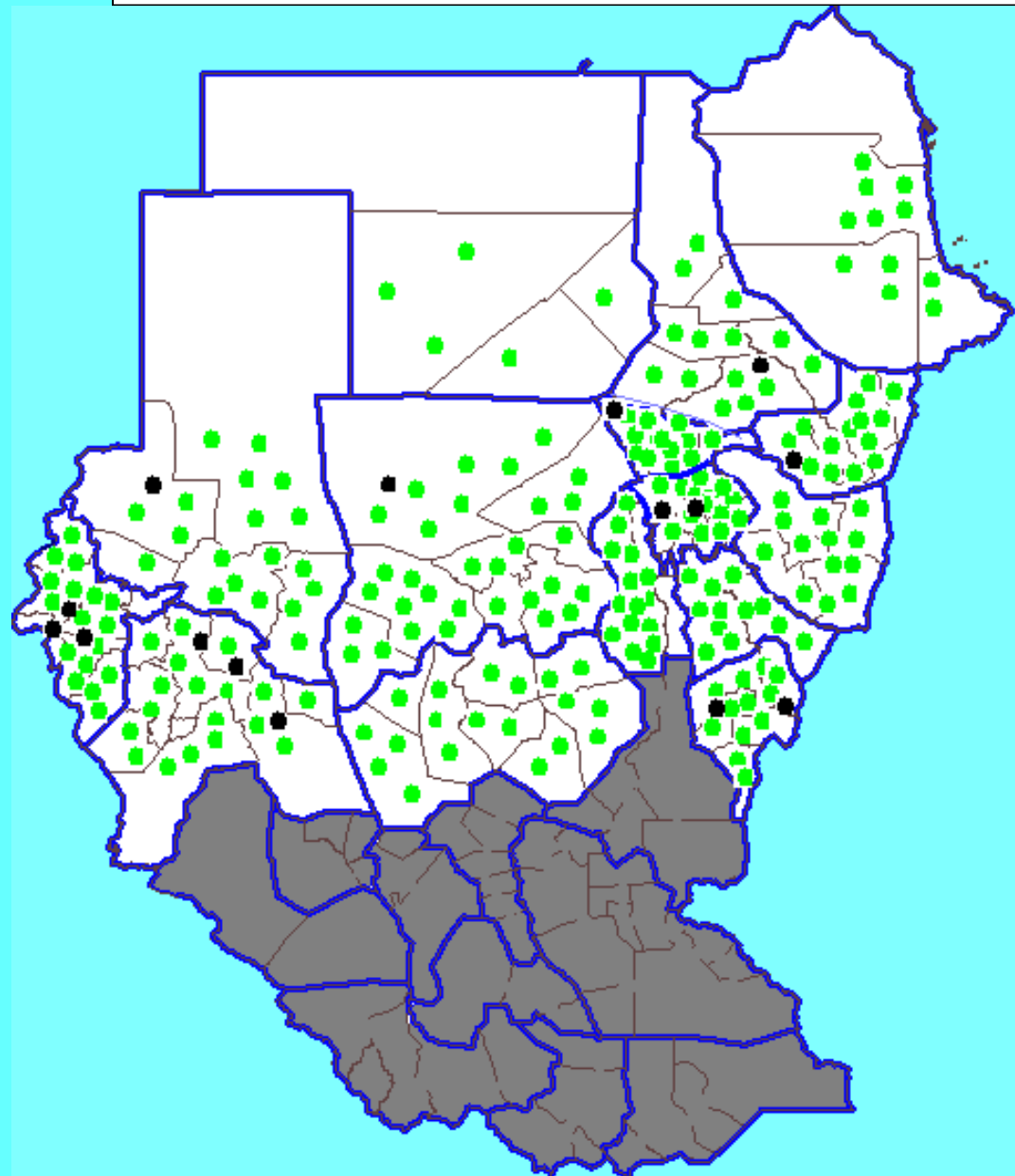
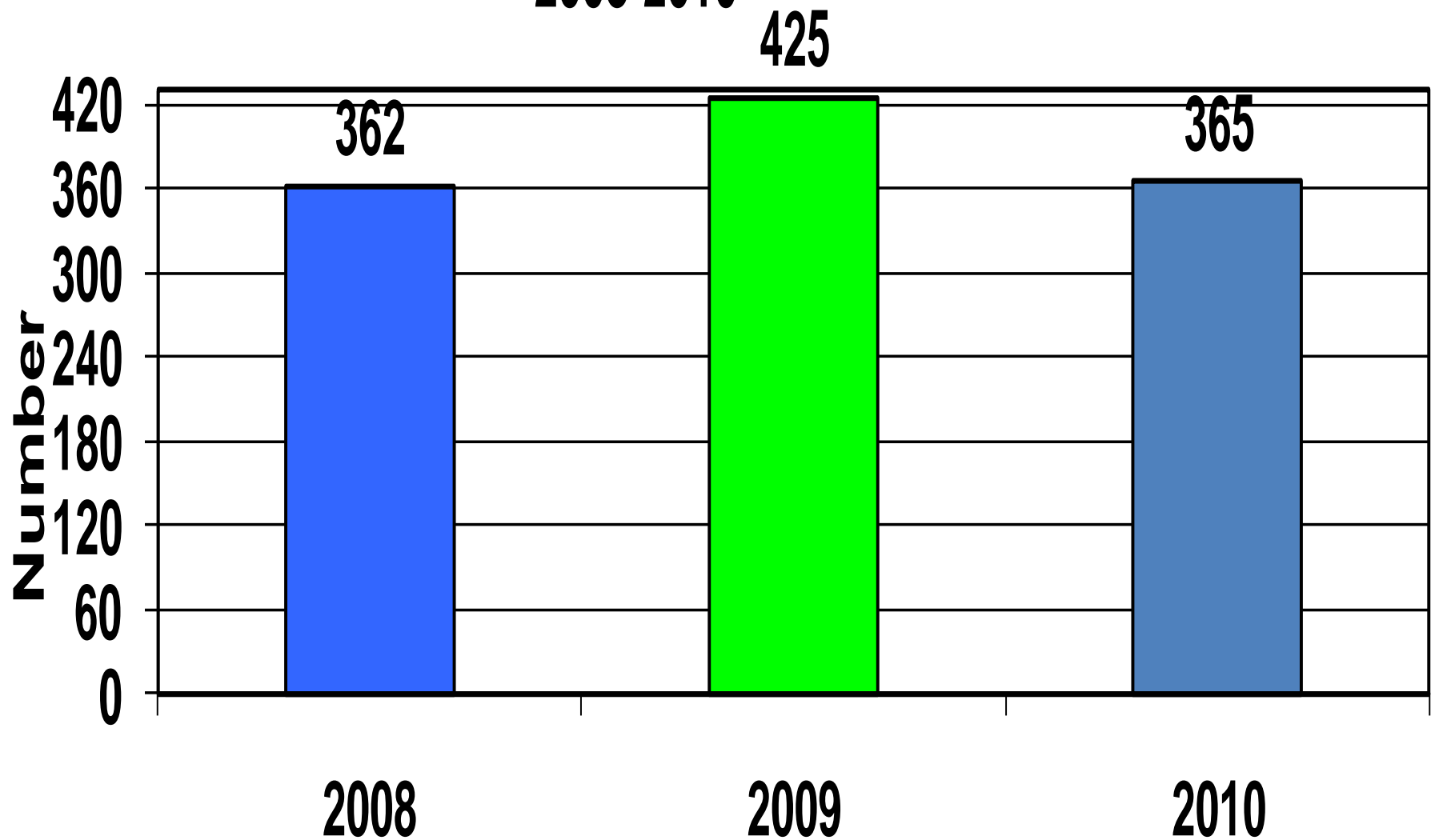


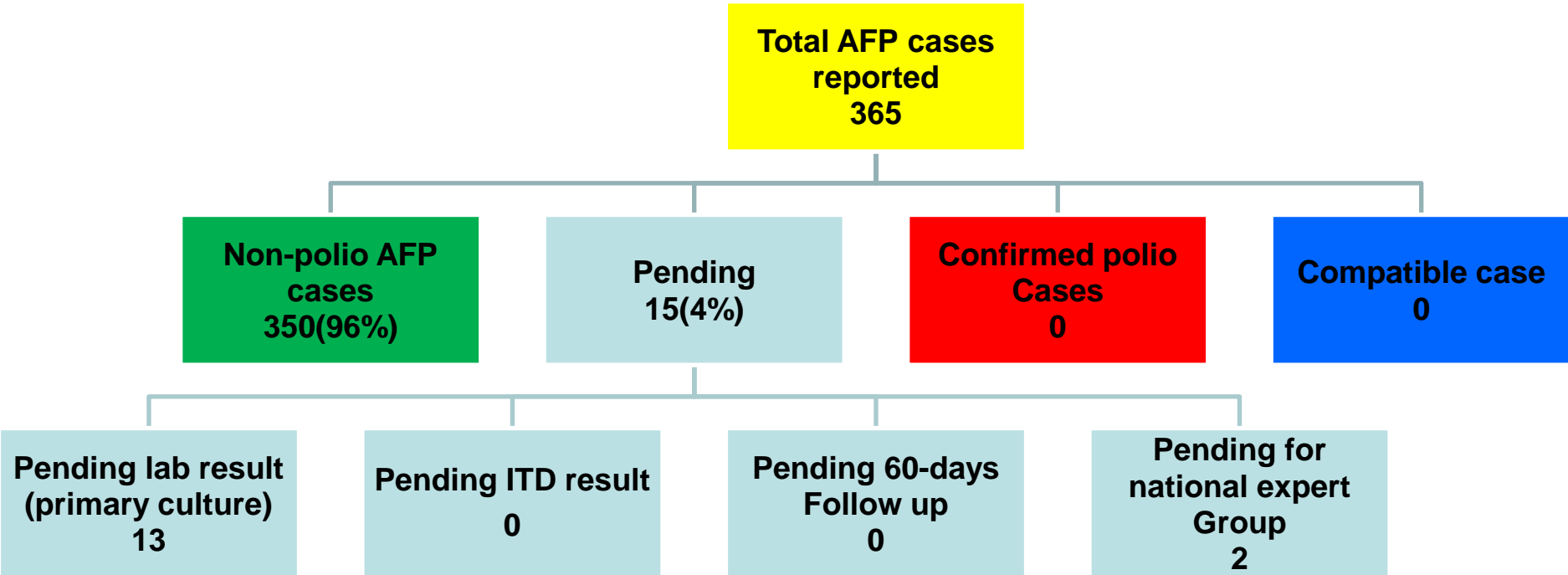
Fig. 1: Total AFP cases, North Sudan

2008-2010*



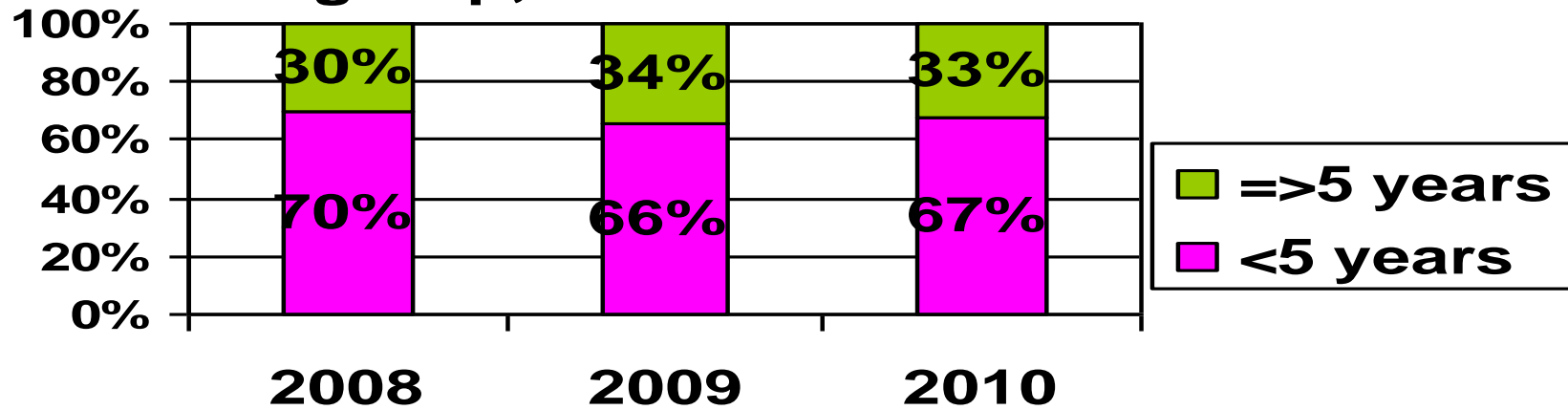
*** Up to 21/11/2010**

Fig. 2: Total AFP cases by classification, North Sudan, 2010*



*** Up to 21/11/2010**

Fig. 3: North SUDAN AFP cases by age group, 2008 - 2010*



* Up to 21/11/2010

Fig. 4: North SUDAN AFP cases by sex 2008 - 2010*

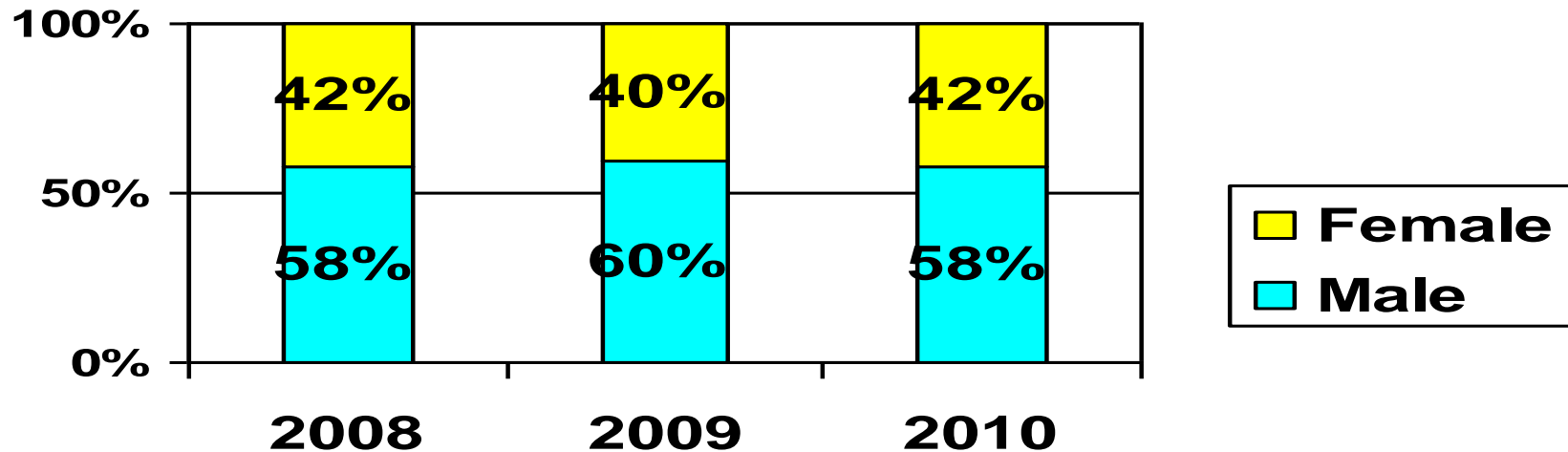


Fig. 5: Percent distribution of AFP cases by time of detection, North Sudan, 2009

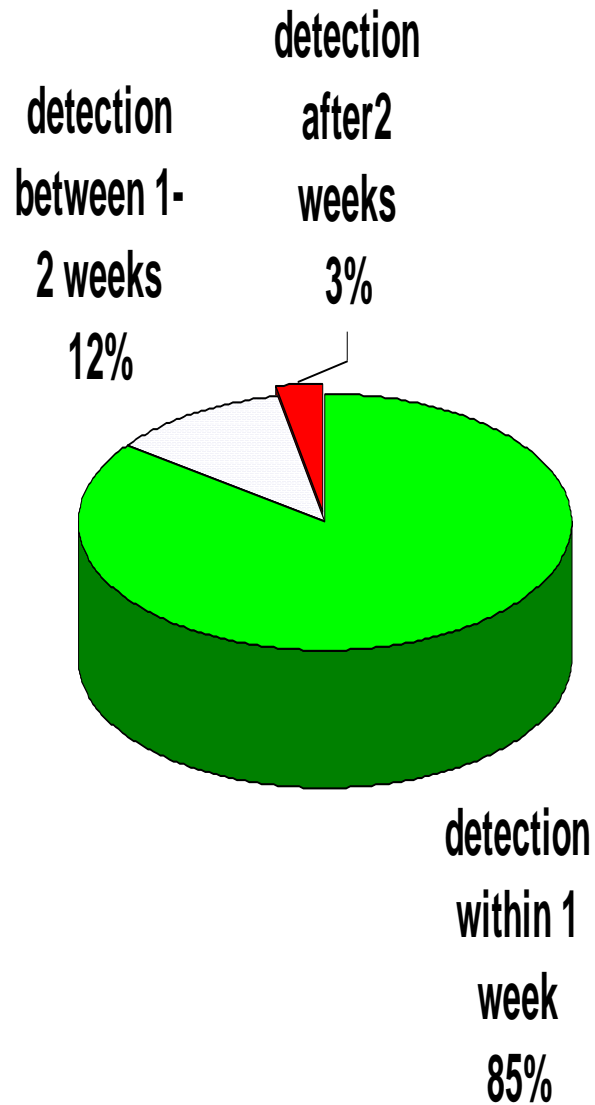
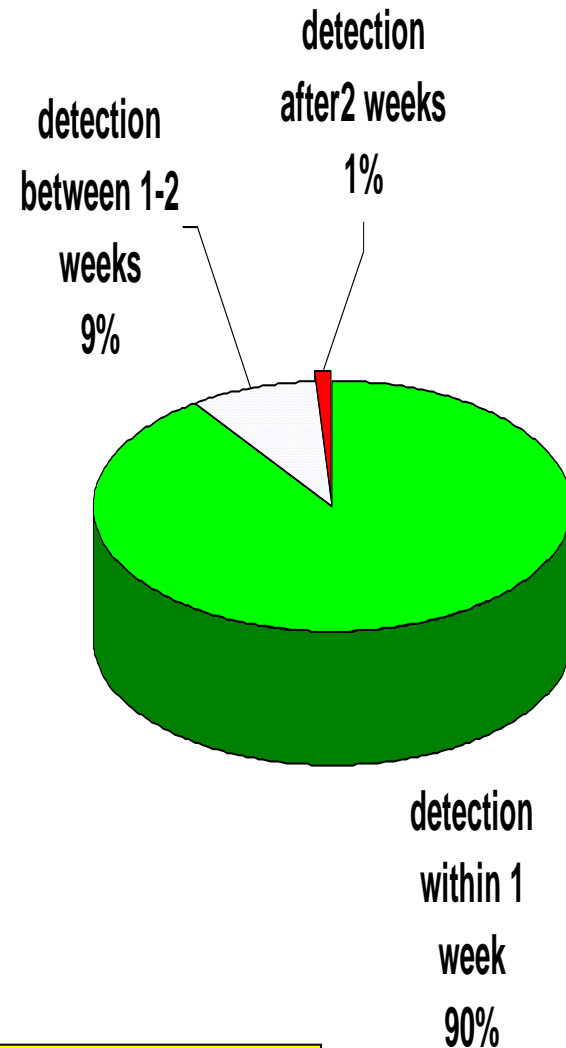
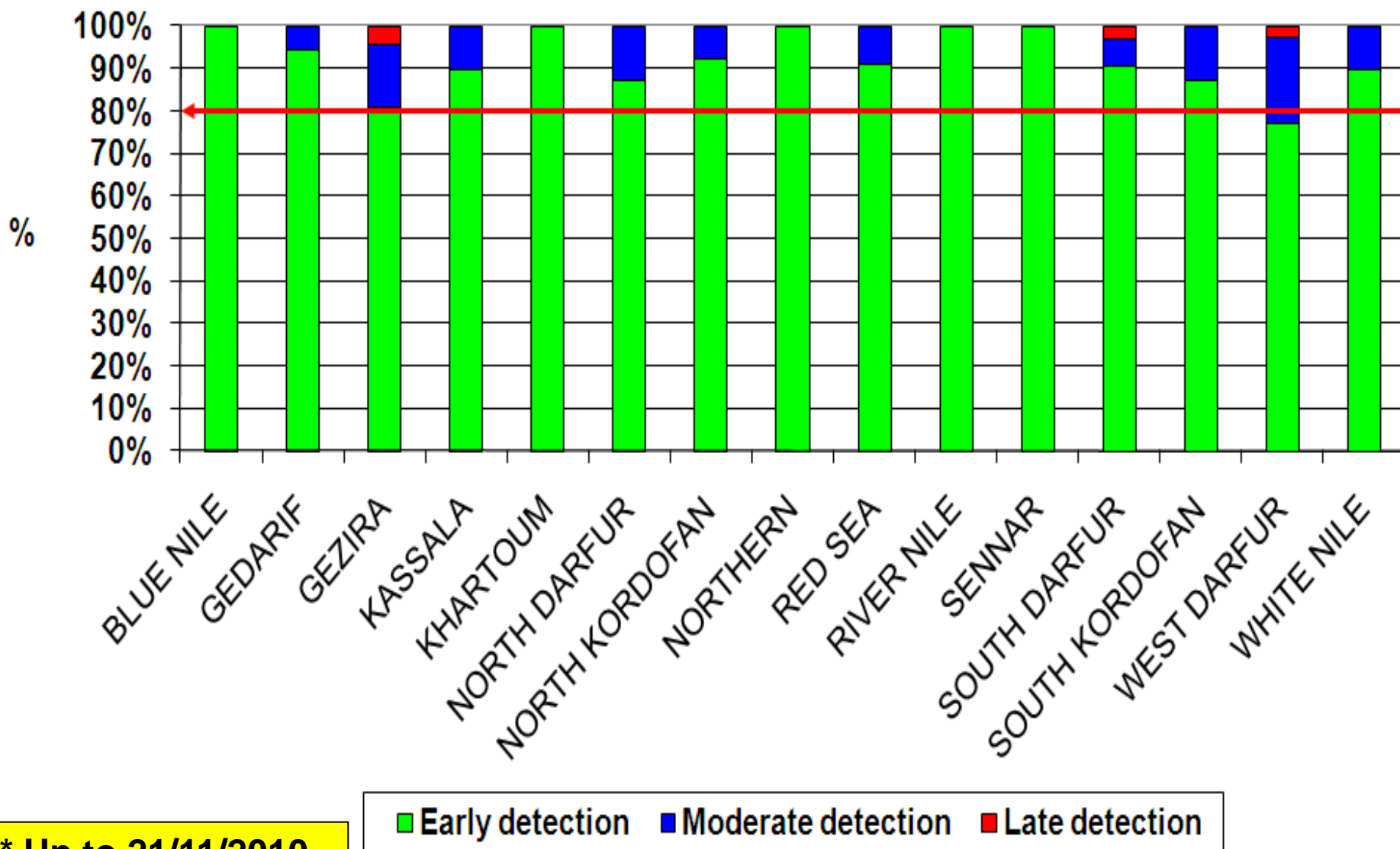


Fig. 6: Percent distribution of AFP cases by time of detection, North Sudan, 2010*



*** Up to 21/11/2010**

Fig. 7: Percent distribution of AFP cases according to the timeliness of detection by states, Northern states, 2010*



*** Up to 21/11/2010**

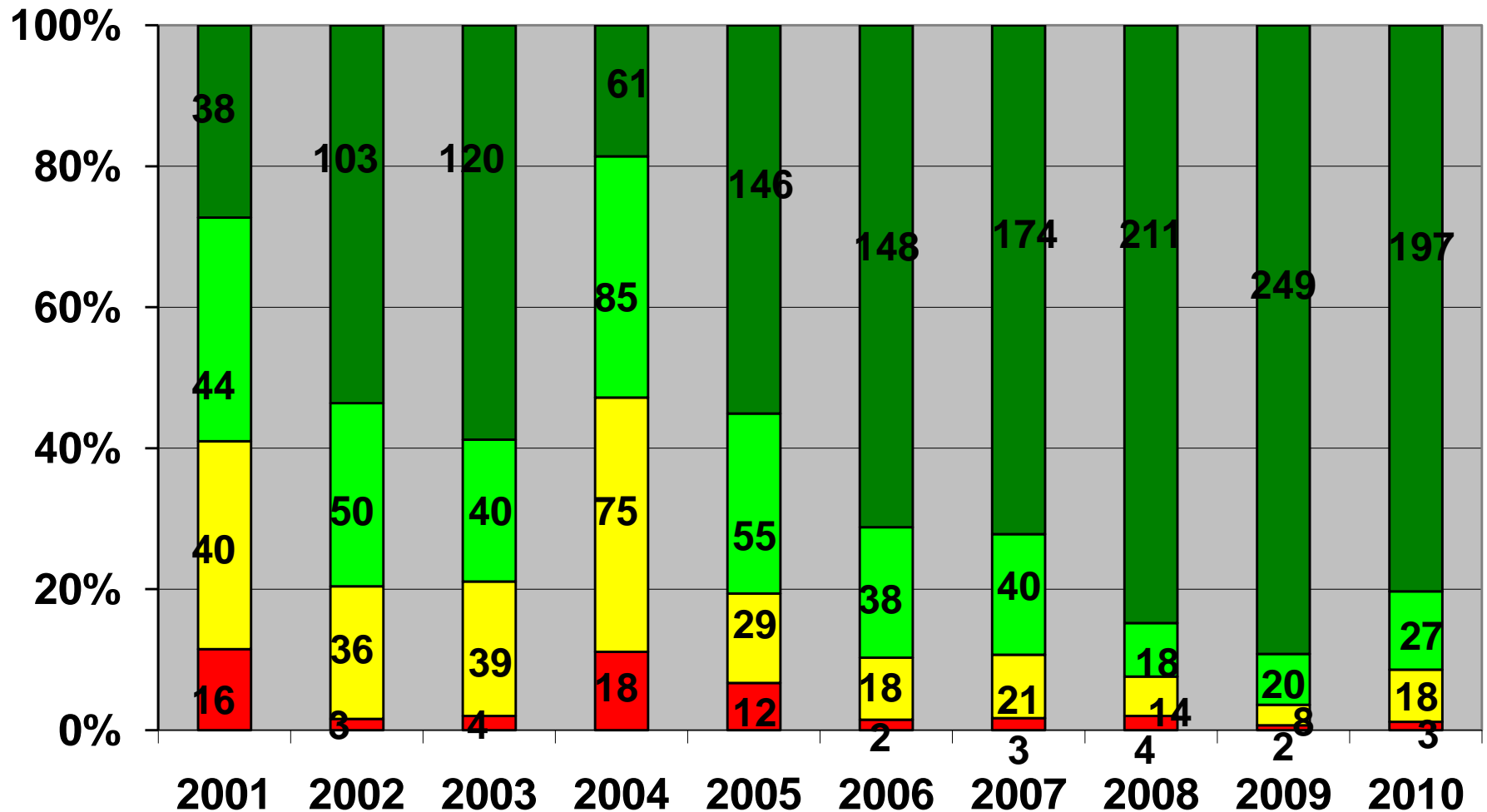
Table 1. Major AFP surveillance performance indicators, Northern States, 2009

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	345,141	12	12	0	0	0	100%	3.5	33%
Gedarif	807,992	20	20	0	0	0	100%	2.5	15%
Gezira	1,818,206	56	56	0	0	0	93%	3.1	11%
Kasala	795,748	21	21	0	0	0	100%	2.6	10%
Khartom	2,234,046	54	53	0	1	0	98%	2.4	17%
N.Darf	810,981	31	31	0	0	0	90%	3.8	10%
N.Kord	1,224,747	39	39	0	0	0	95%	3.2	13%
Northern	259,007	9	9	0	0	0	100%	3.5	33%
Red Sea	328,047	26	22	0	4	0	96%	6.7	8%
River Nile	445,463	14	14	0	0	0	93%	3.1	0%
Sennar	682,468	16	16	0	0	0	94%	2.3	13%
S.Darfur	1,633,786	38	38	0	0	0	100%	2.3	8%
S. Kord	934,811	31	30	0	0	1	97%	3.3	6%
W.Darfur	905,704	21	21	0	0	0	89%	2.3	5%
W. Nile	794,818	37	37	0	0	0	95%	4.7	22%
Total	16,525,252	425	419	0	5	1	96%	3.0	13%

Table 2. Major AFP surveillance performance indicators, Northern States, up to 21/11/2010

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	19	17	2	0	0	100%	6.0	6%
Gedarif	833,767	17	17	0	0	0	94%	2.3	12%
Gezira	1,868,934	47	45	2	0	0	96%	2.8	20%
Kasala	815,721	19	18	1	0	0	100%	2.6	0%
Khartom	2,316,035	46	45	1	0	0	100%	2.2	9%
N.Darf	836,608	23	22	1	0	0	100%	3.1	18%
N.Kord	1,243,363	38	37	1	0	0	97%	3.5	16%
Northern	263,099	5	5	0	0	0	100%	2.1	20%
Red Sea	329,031	11	11	0	0	0	91%	3.8	9%
River Nile	453,525	18	17	1	0	0	94%	4.5	6%
Sennar	699,734	14	14	0	0	0	100%	2.3	29%
S.Darfur	1,689,498	31	28	3	0	0	97%	2.1	25%
S. Kord	947,711	23	23	0	0	0	100%	2.7	26%
W.Darfur	927,169	35	32	3	0	0	97%	4.3	15%
W. Nile	814,450	19	19	0	0	0	100%	2.6	16%
Total	14,393,864	365	350	15	0	0	98%	2.9	15%

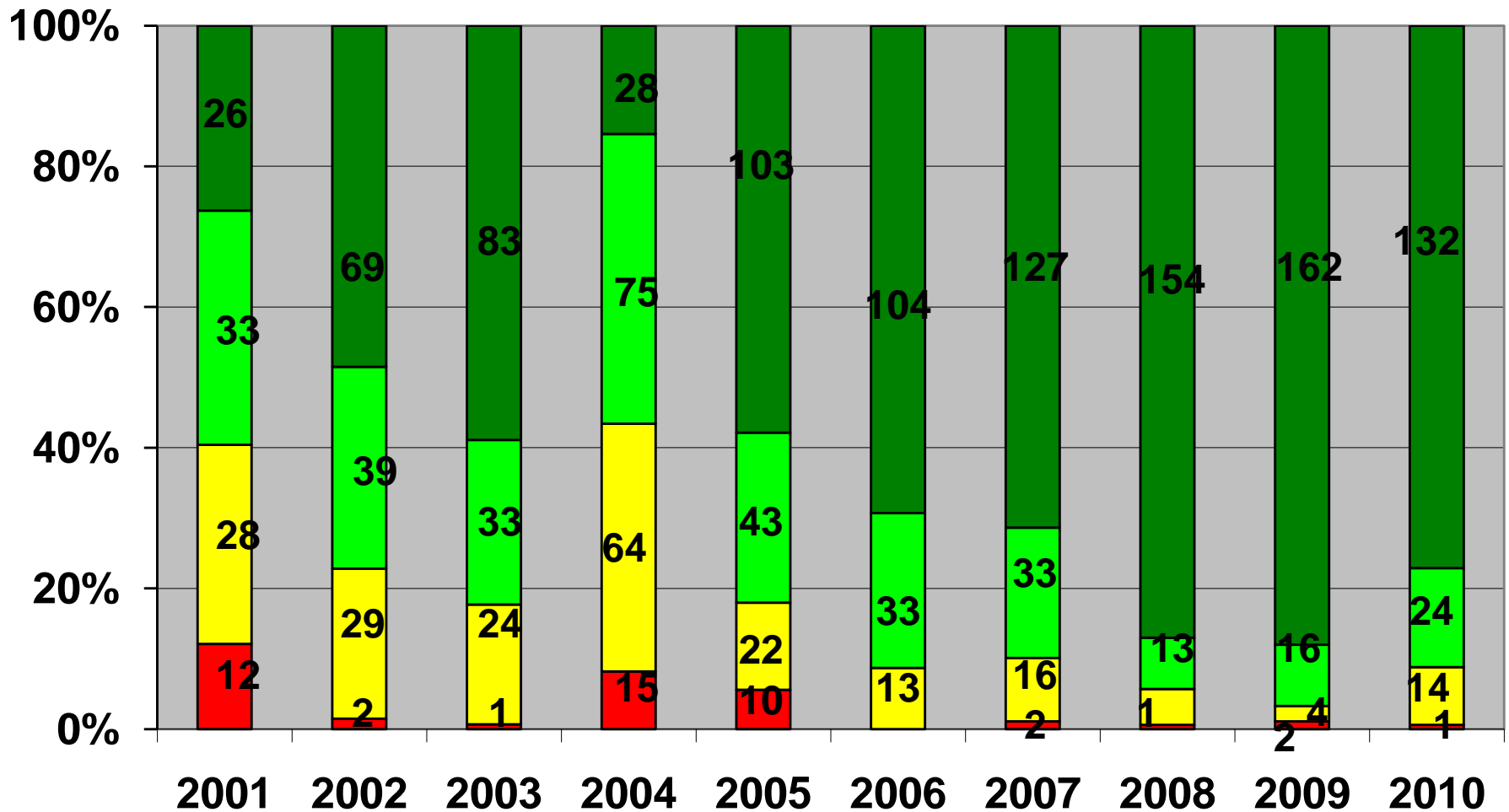
Fig. 8: Percent distribution of AFP cases < 60 months by number of OPV doses, North Sudan 2000-2010*



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

* Up to 21/11/2010

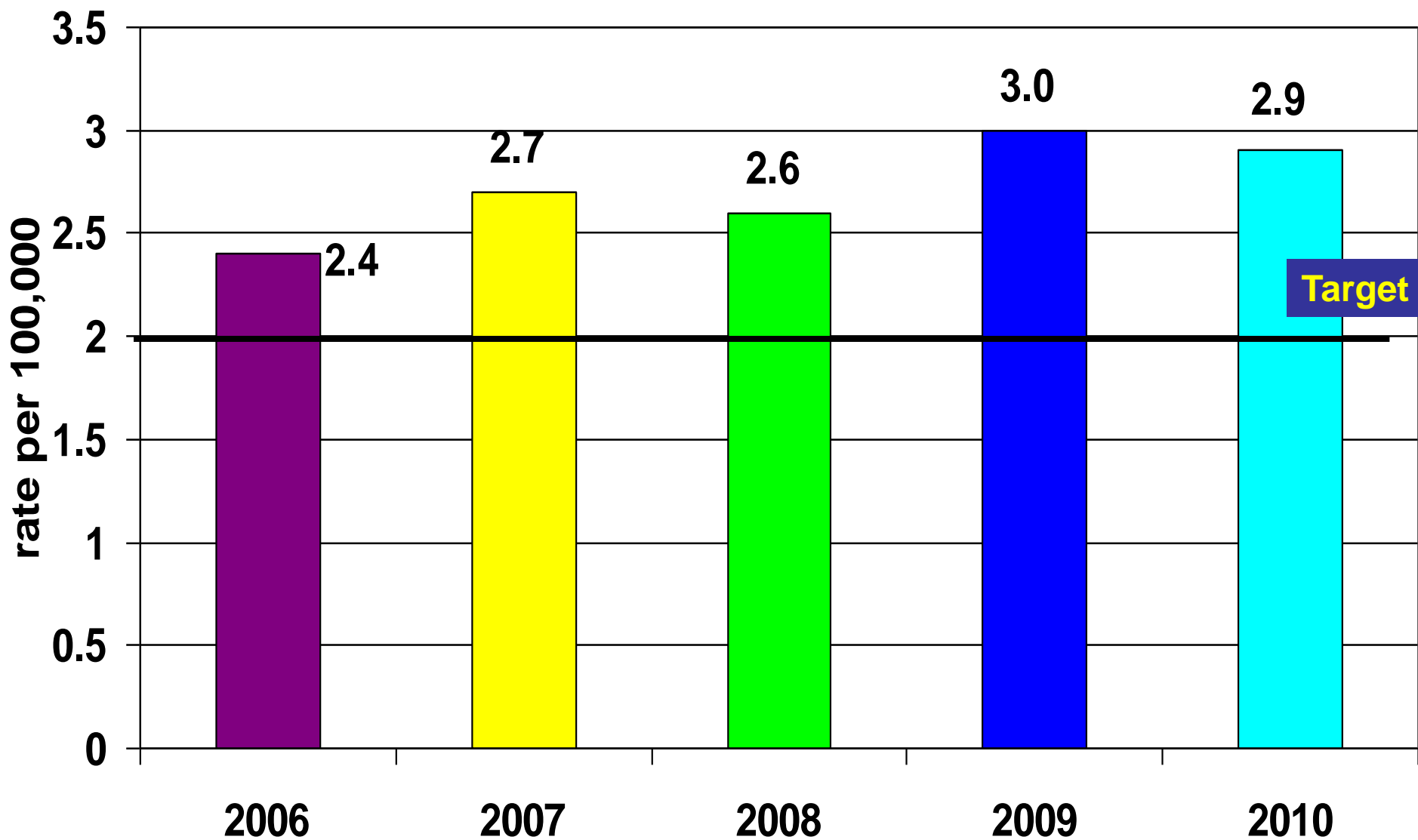
Fig. 9: No. & percent distribution of AFP cases 6-36 months by number of OPV doses, North Sudan 2000-2010*



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

* Up to 21/11/2010

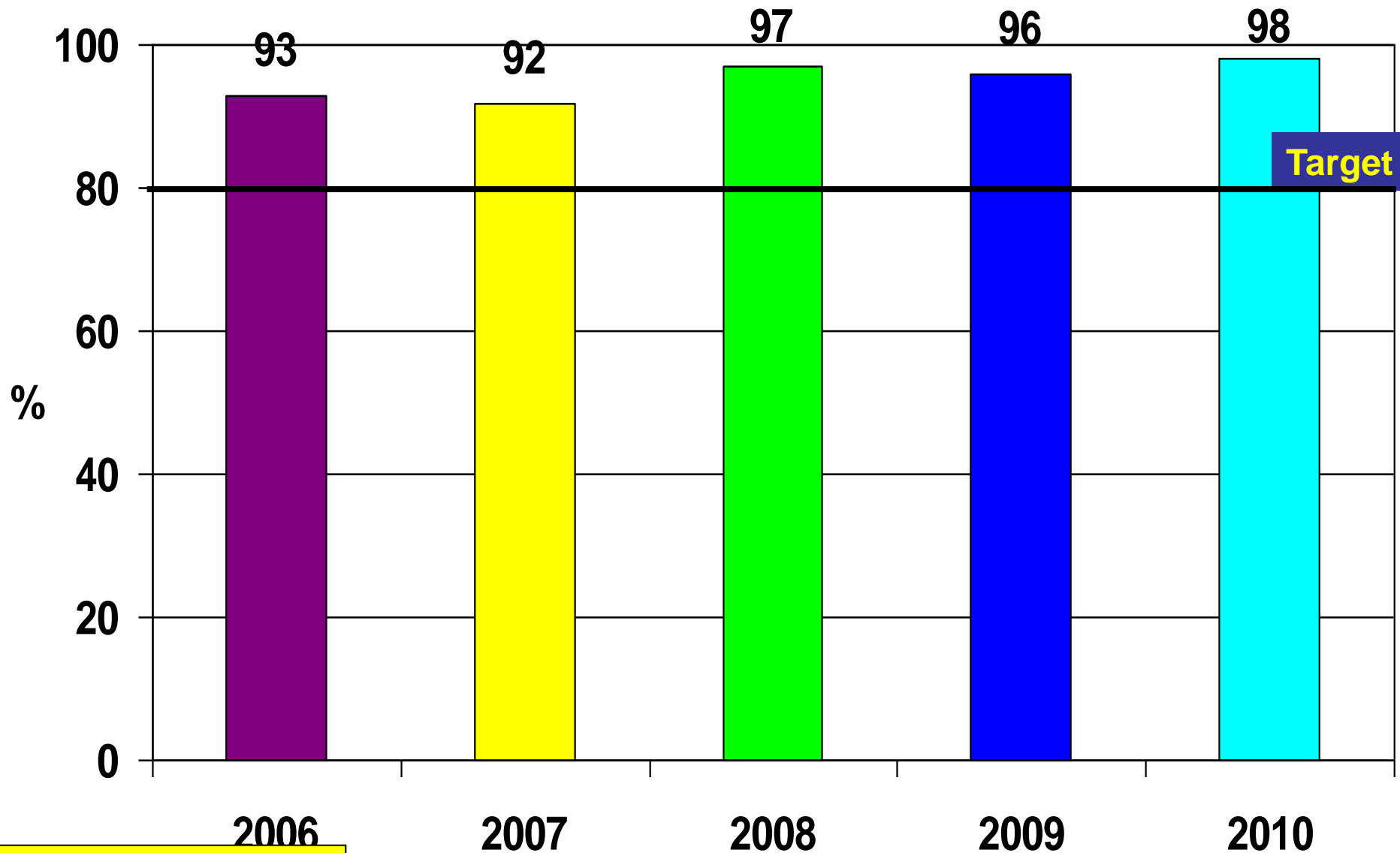
Fig. 10: Non-Polio AFP rate per 100,000 children under 15 years of age, North Sudan, 2006 – 2010*



* Up to 21/11/2010

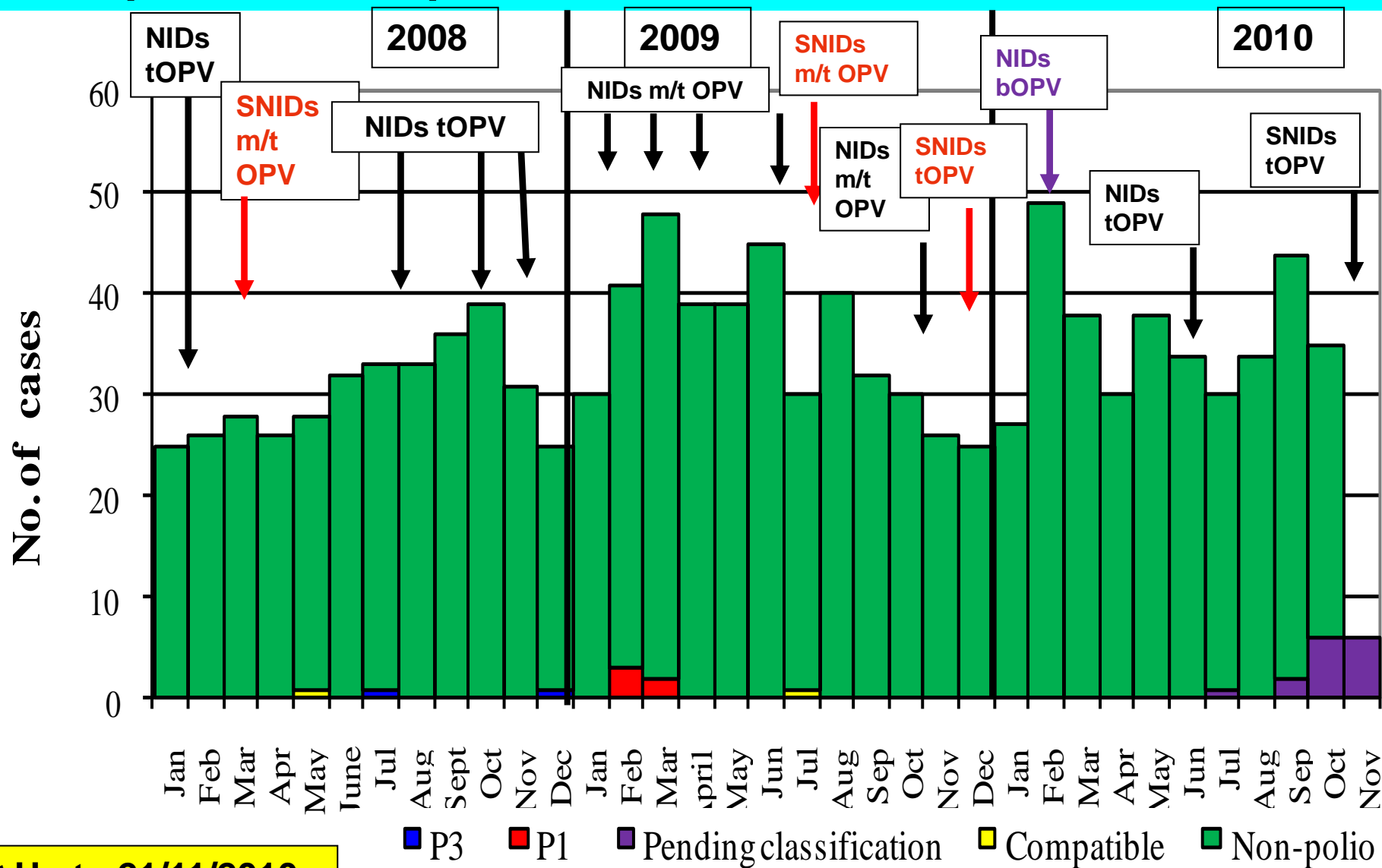
Fig. 11: Adequate stool collection rate

North Sudan, 2006 – 2010*



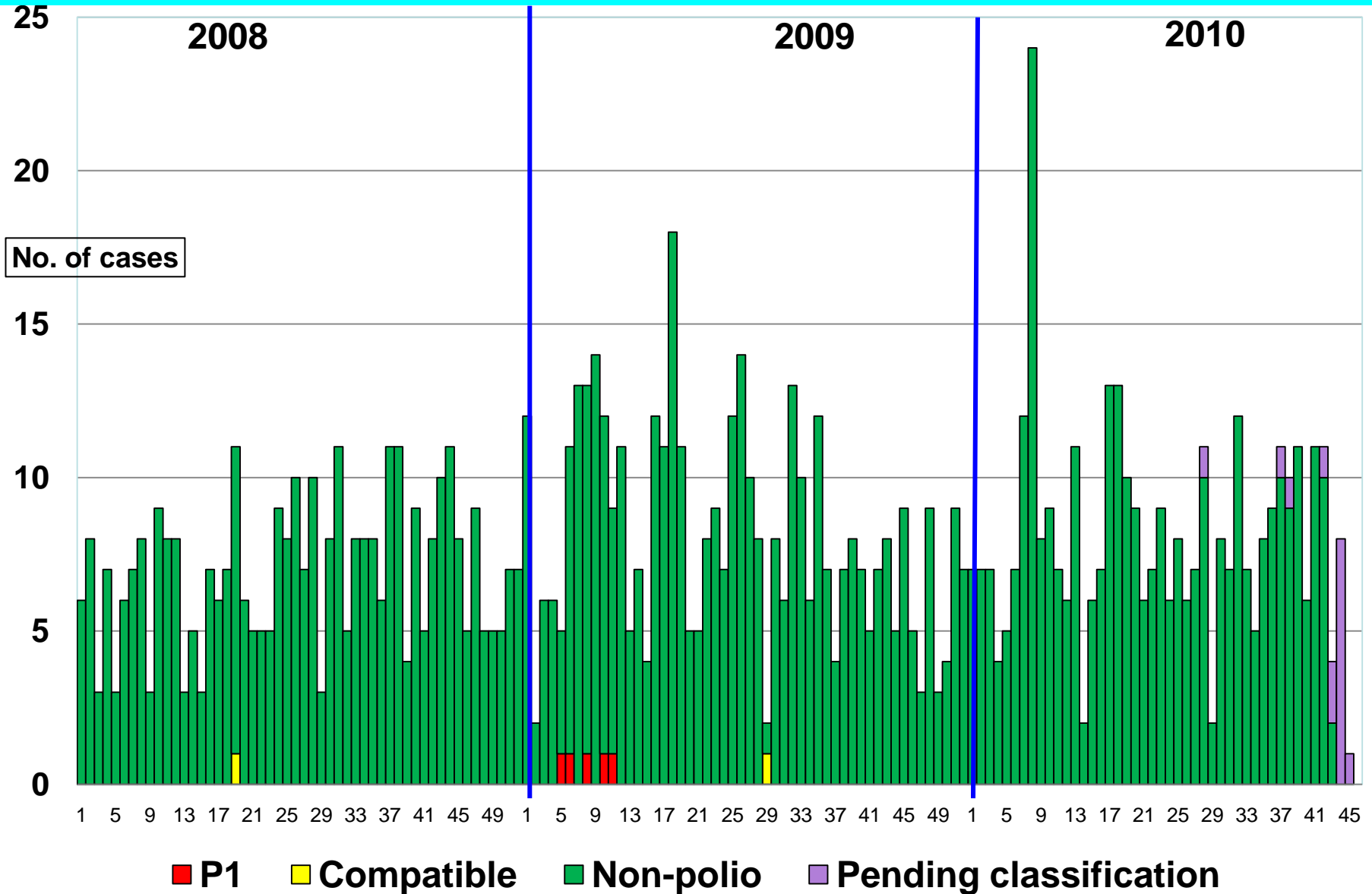
* Up to 21/11/2010

Fig. 12: Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation in North Sudan 2008-2010*



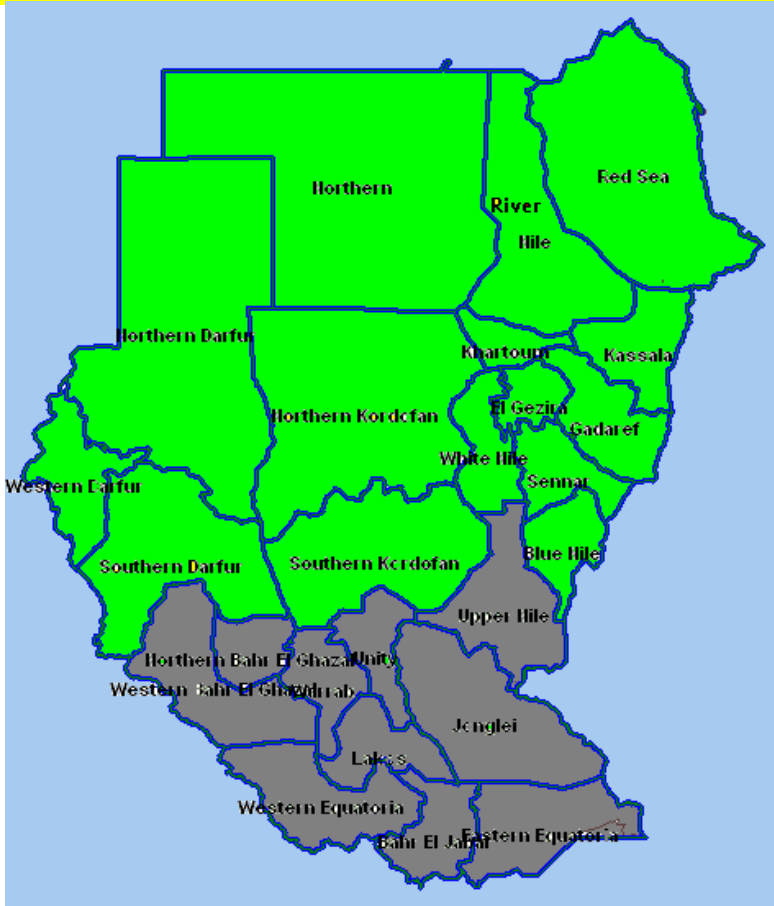
* Up to 21/11/2010

Fig. 13: Distribution of AFP cases by classification and week of onset, North Sudan 2008 – 2010*

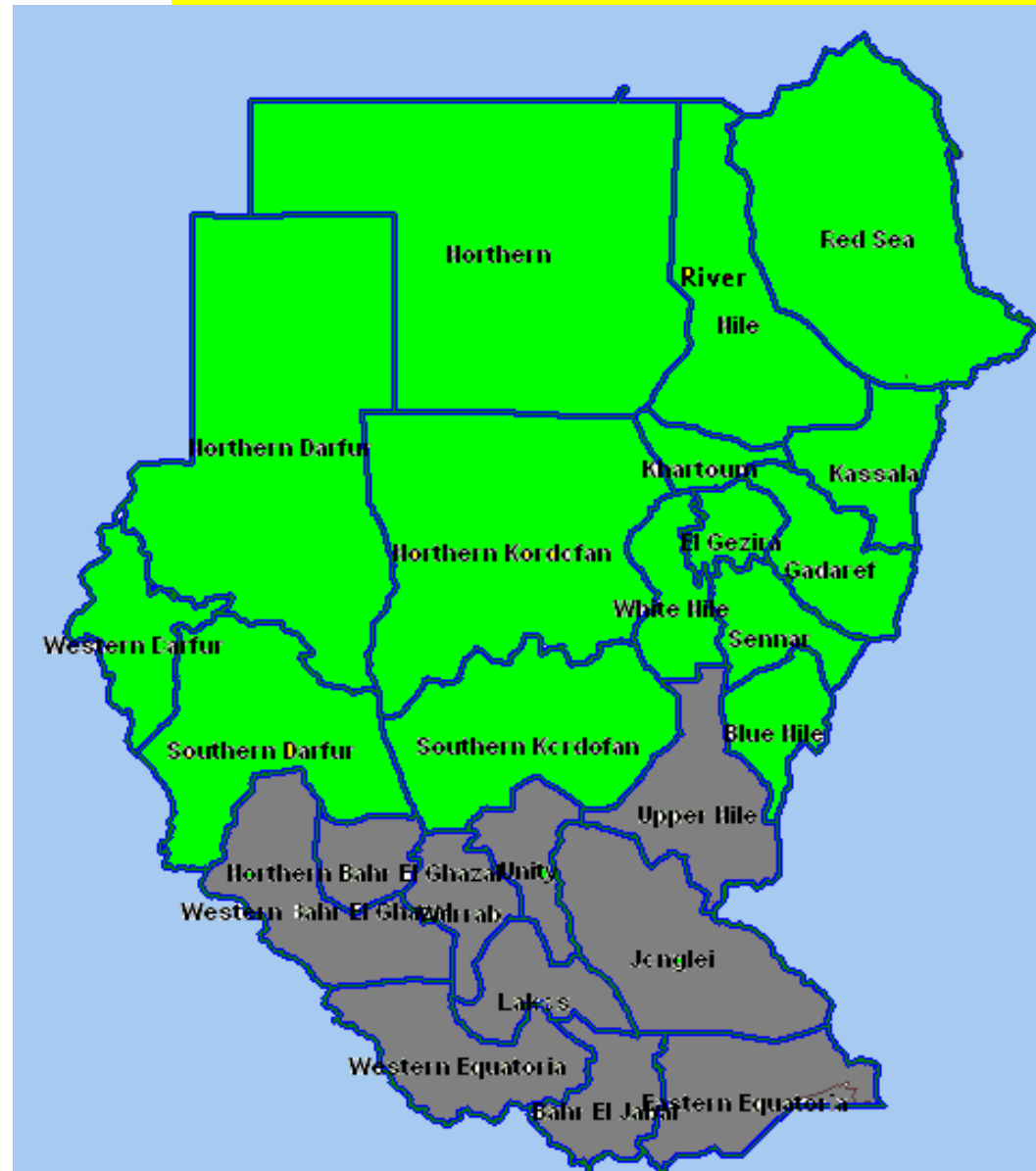


* Up to 21/11/2010

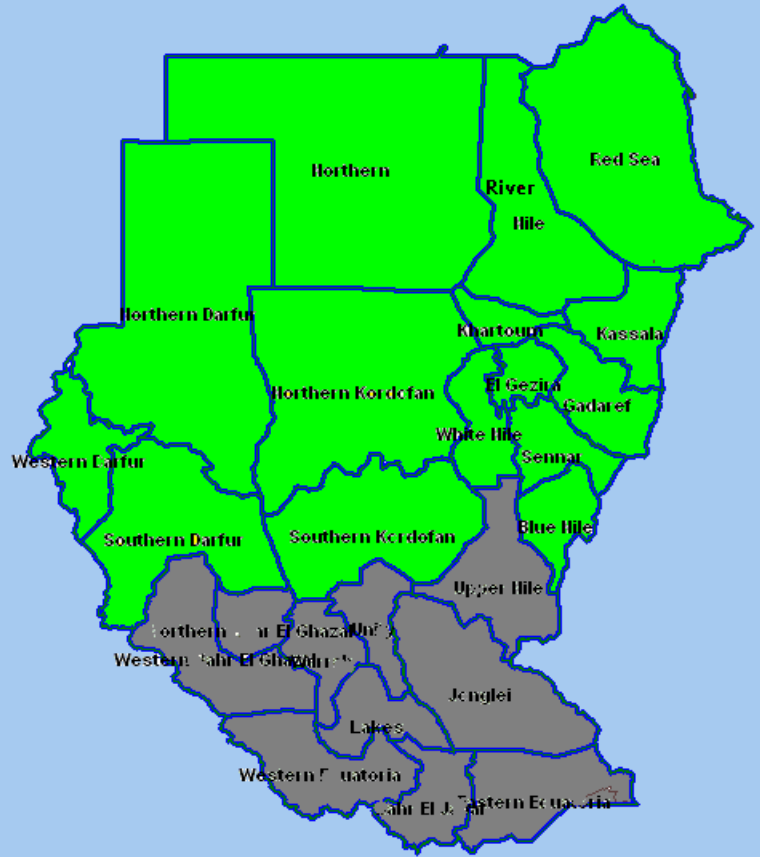
Map 3. Non-polio AFP rate by state, 2009



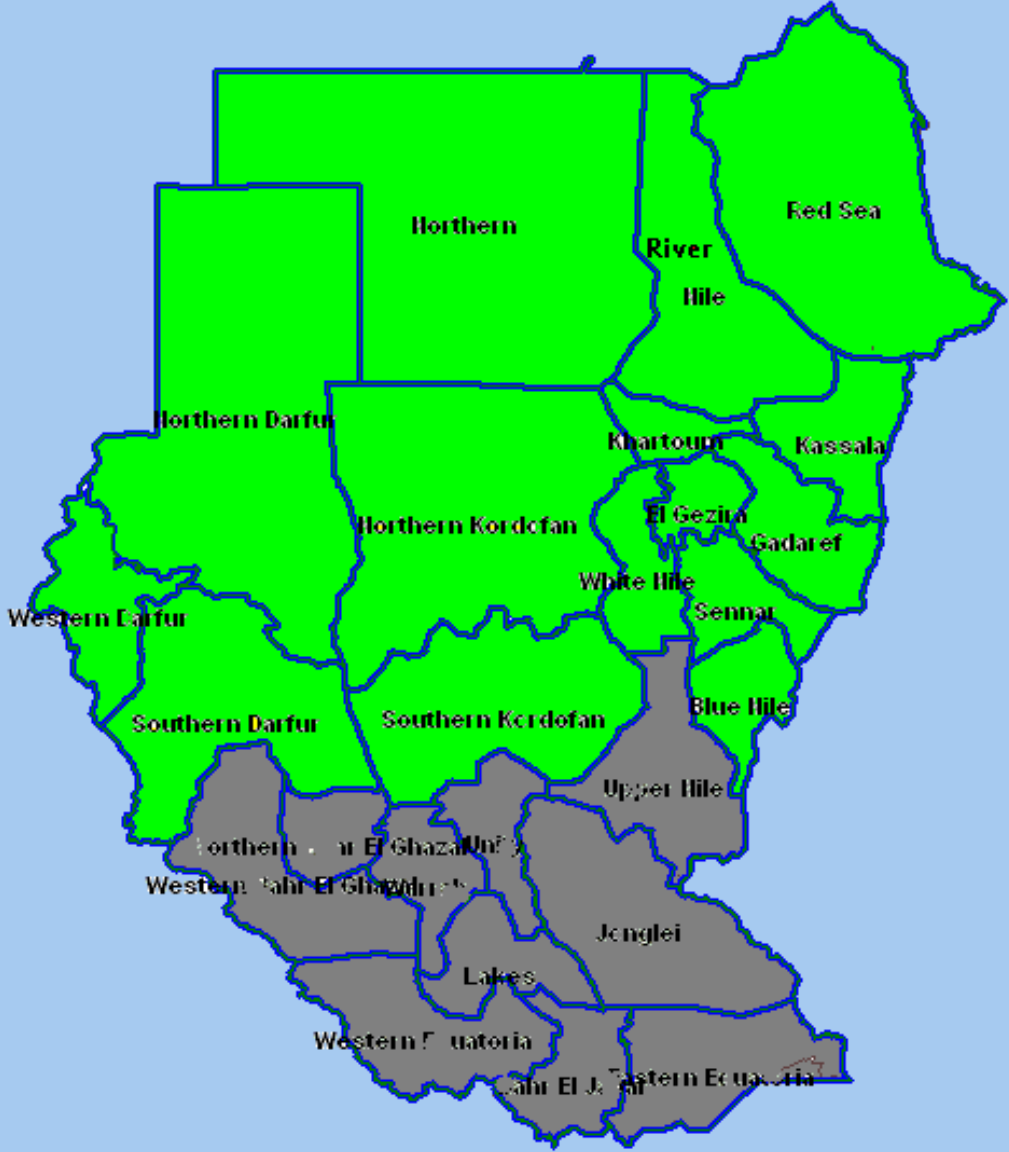
Map 4. Annualized non-polio AFP rate by state up to Week 46, 2010



Map 5. Percent distribution of AFP cases having adequate stool samples by states, 2009



Map 6. Percent distribution of AFP cases having adequate stool samples by state up to Week 46 2010



■ <60%
 ■ 60% - 79%
■ 80% - 100%

**Table 4. National polio lab performance indicators
North Sudan, 2008-2010**

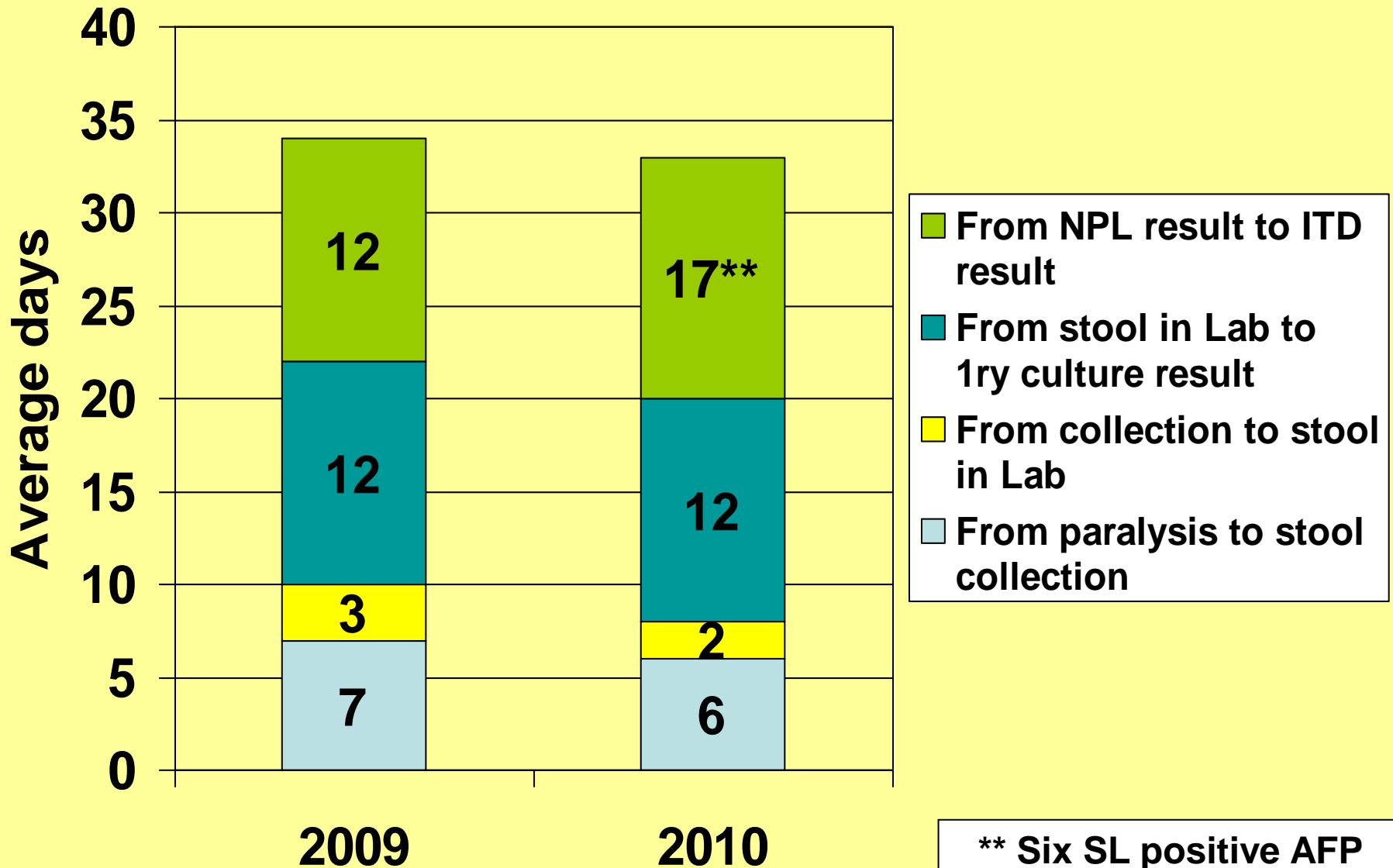
Indicator	2008	2009	2010*
AFP cases with samples tested in NPL	361	420	365
Cases with wild poliovirus (imported P1)	0	5	0
Cases with wild poliovirus (imported P3)	2	0	0
Cases with non-polio enterovirus	14%	13%	15%
SL viruses No. & (%) from AFP cases	7 (2%)	7 (1.7%)	6 (1.7%)
Median days from the time of samples received in the lab to primary culture report or L20B result	11 days	12 days	12 days
Number of samples from the AFP contacts tested in the NPL	407	488	209
Contacts with non-polio enterovirus	8.1%	8.2%	12%
Sabin like viruses No. & (%) from contacts	9(2.3%)	4(0.9)	0
NSL like viruses from contacts	0	3	0

* Up to 21/11/2010

**Table 5. Polio lab performance
North Sudan, 2009 and 2010**

Week of onset	Total AFP Cases with samples	AFP Cases under process	L20B +ve pending ITD	Negative cases	NPEV positive	% NPEV	Result reported within 14 days	Arrival within 3 days of being collected	Arrival within 3 days of being sent
Up to W46 2009	386	0	0	335	51	13%	90%	78%	97%
Up to W46 2010	365	13	0	298	54	15%	95%	86%	99%

Fig. 14: AFP Specimens' timeliness, NPL 2009-2010*



- From NPL result to ITD result
- From stool in Lab to 1ry culture result
- From collection to stool in Lab
- From paralysis to stool collection

** Six SL positive AFP cases

* Up to 21/11/2010