






Sudan Weekly AFP Surveillance Report

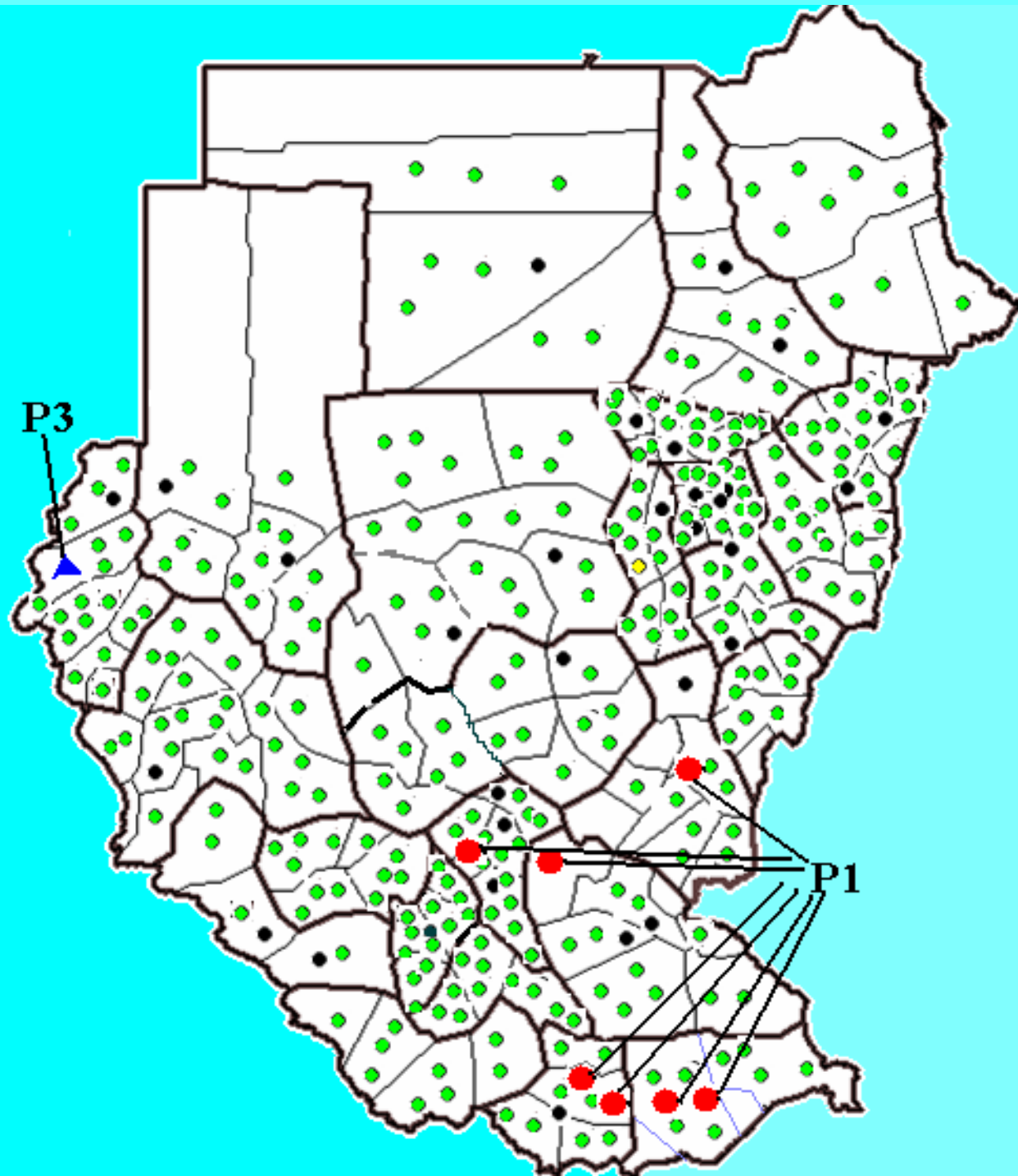
Week 46

(Ending on 16 November 2008)

**National AFP
Surveillance system
Sudan**

**Map 1.
Distribution of
AFP cases by
classification
Sudan 2008***

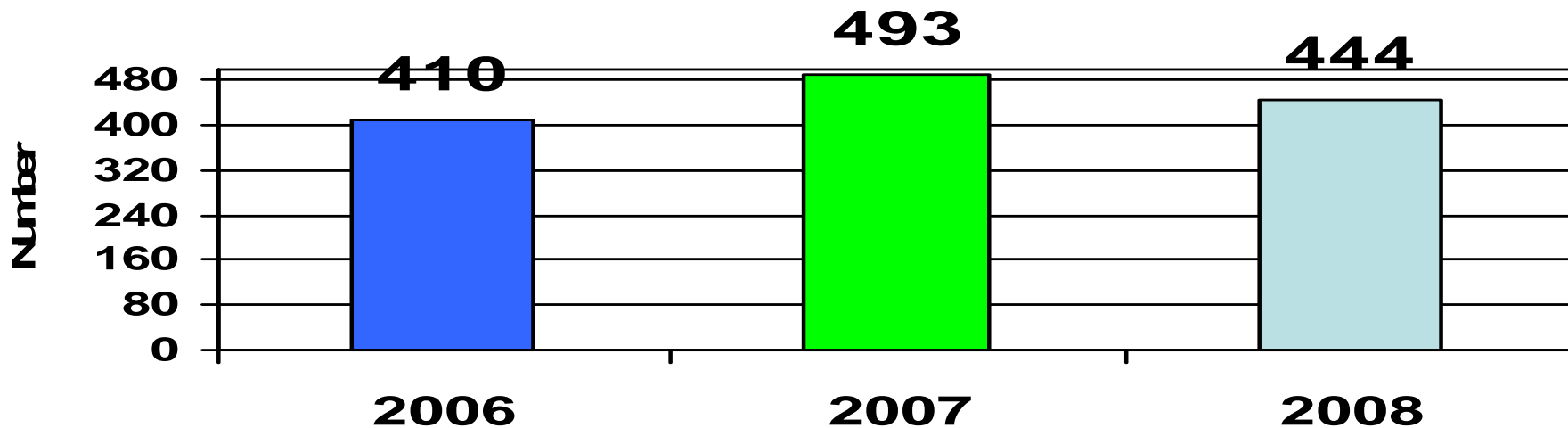
-  P1 polio case
-  P3 polio case
-  Pending AFP case
-  Non-polio AFP case
-  Compatible case



*Up to 16/11/08

Total AFP cases, 2006-2008*

Fig 1. Total SUDAN AFP cases reported



*Up to 16/11/08

Fig 2. North Sudan AFP cases reported

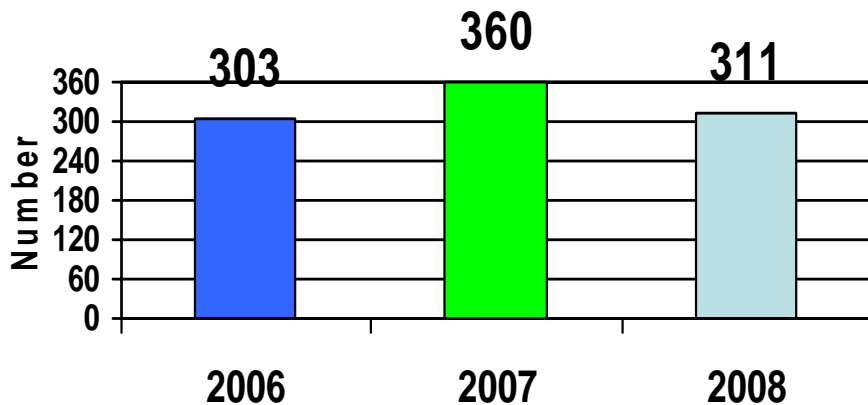


Fig 3. Southern Sudan AFP cases reported

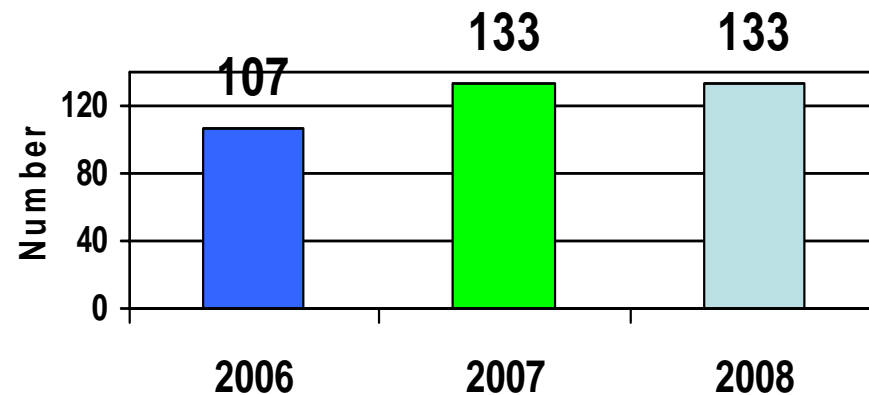
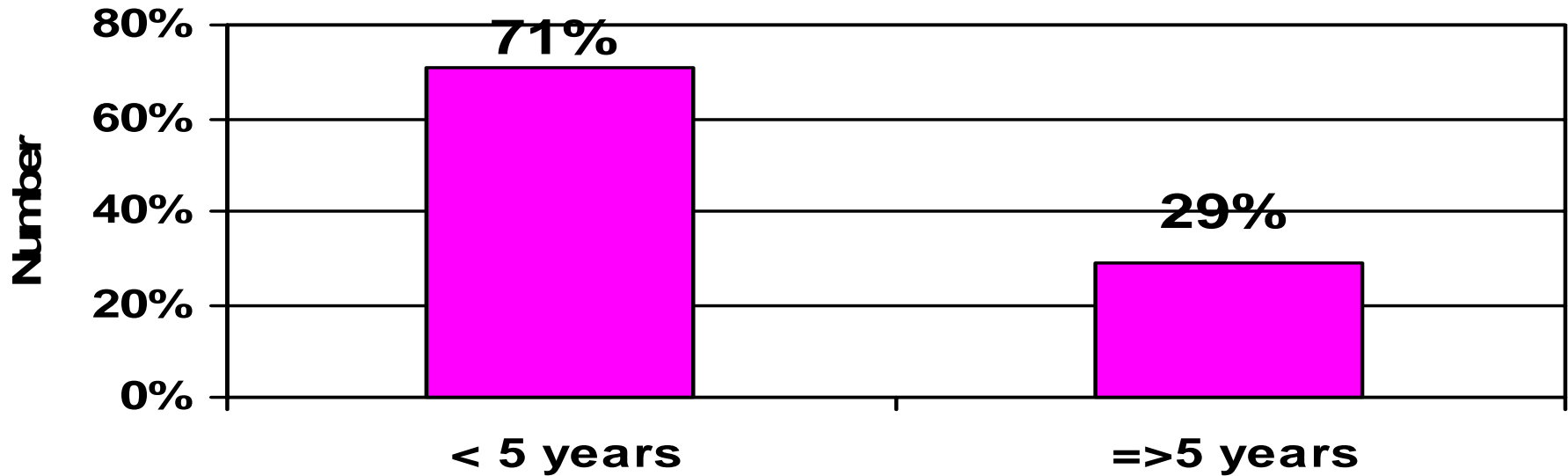


Fig 4. Total SUDAN AFP cases by age group, up to week 46, 2008



*Up to 16/11/08

Fig 5. North SUDAN AFP cases by age group, up to week 46, 2008

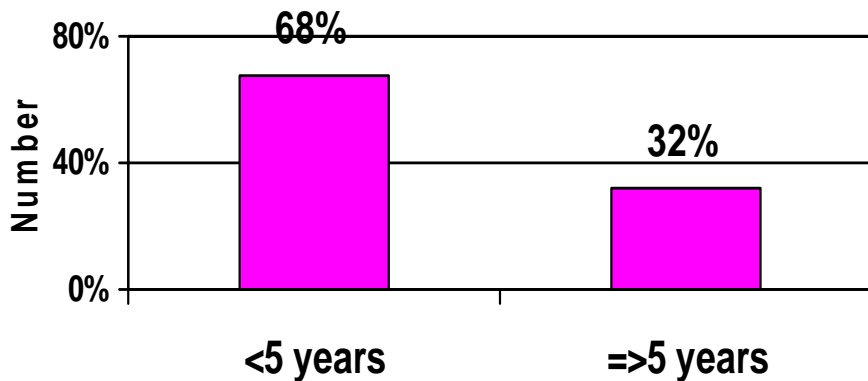


Fig 6. South SUDAN AFP cases by age group, up to week 46, 2008

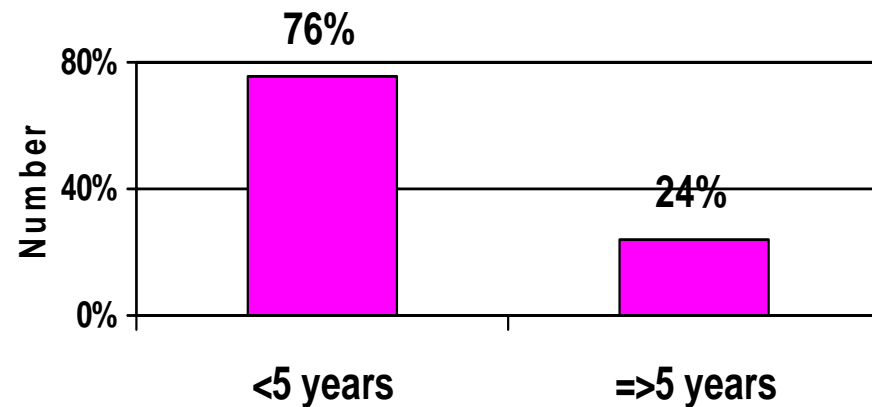


Figure 7. Percent distribution of AFP cases by time of detection, Sudan, up to week 46 2008

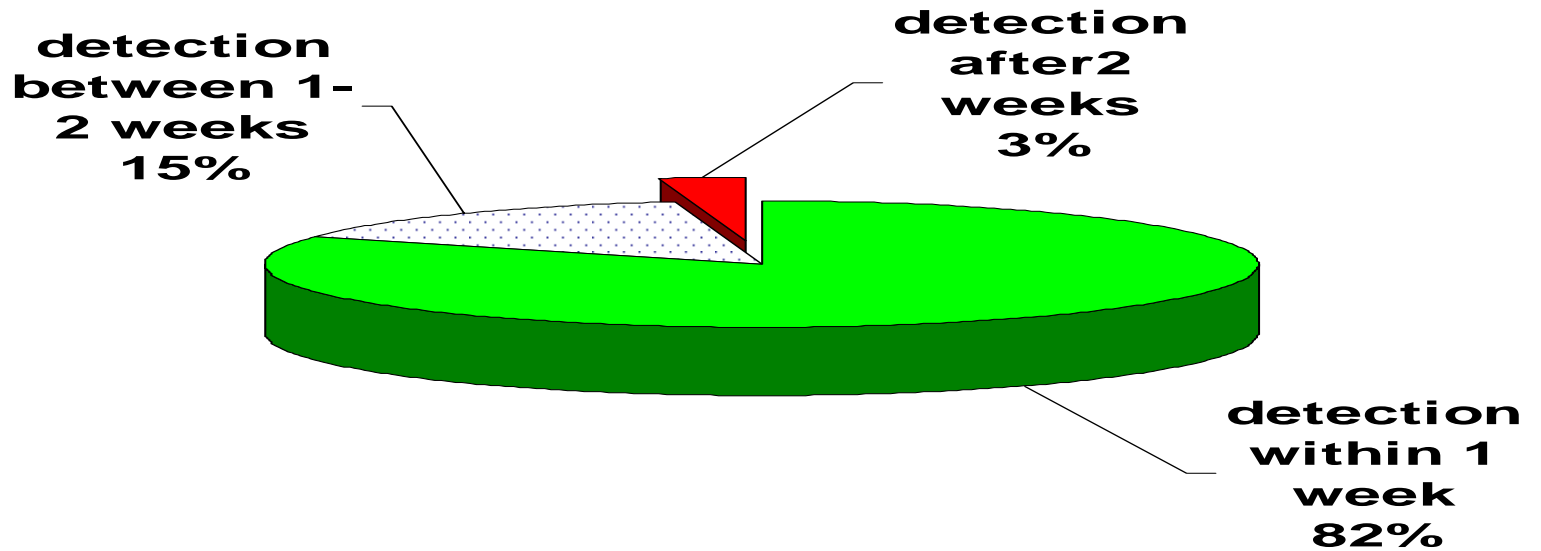


Figure 8. Percent distribution of AFP cases by time of detection, North Sudan, up to week 46 2008

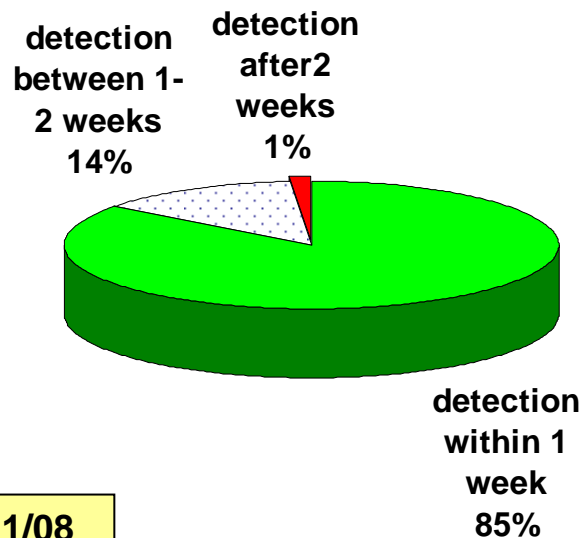
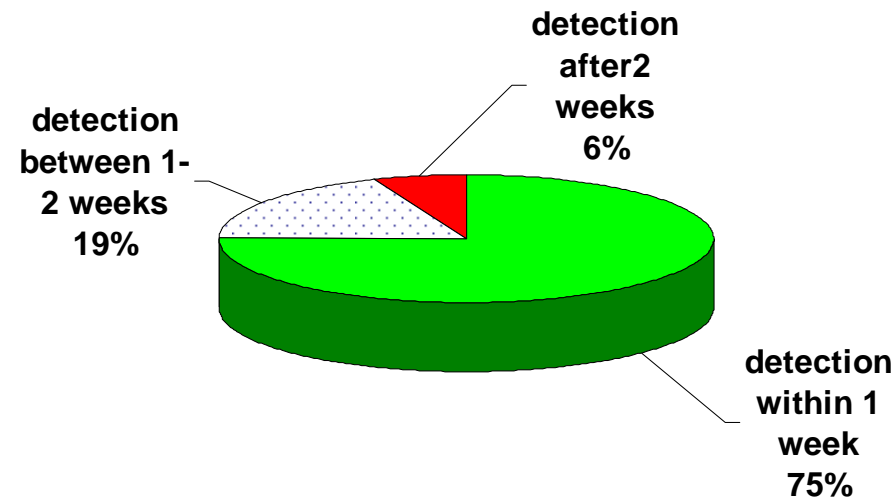


Figure 9. Percent distribution of AFP cases by time of detection, Southern Sudan, up to week 46 2008



***Up to 16/11/08**

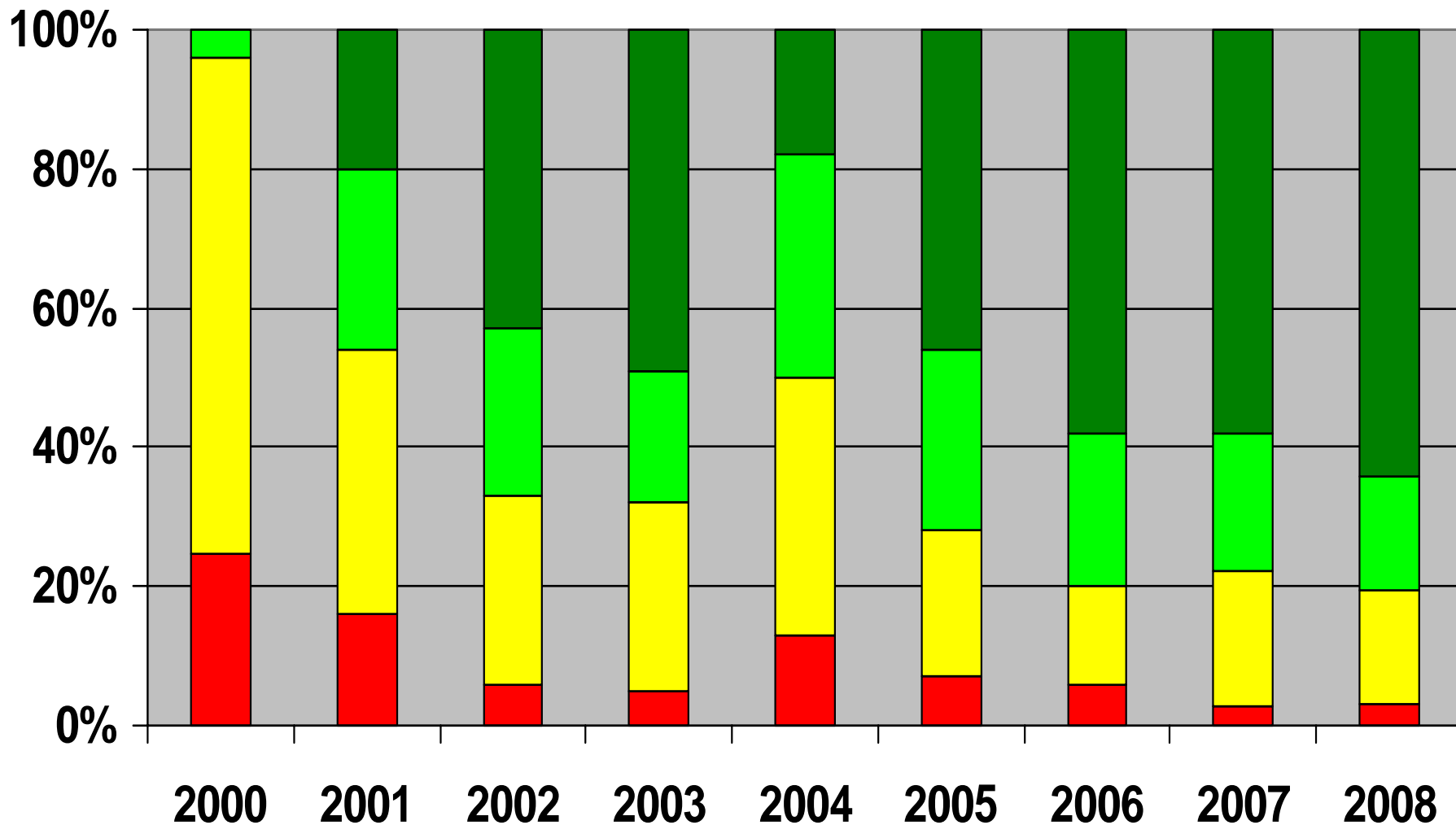
Table 1. Major AFP surveillance performance indicators, Northern States, week 46, 2008

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	335,349	11	11	0	0	0	100%	3.7	18%
Gedarif	783,014	17	17	0	0	0	100%	2.5	12%
Gezira	1,768,855	37	33	4	0	0	97%	2.4	12%
Kasala	776,264	18	16	2	0	0	100%	2.6	19%
Khartom	2,154,959	47	45	2	0	0	100%	2.5	16%
N.Darf	786,139	18	16	2	0	0	94%	2.6	18%
N.Kord	1,206,410	27	25	2	0	0	100%	2.5	12%
Northern	254,978	9	8	1	0	0	78%	4.0	14%
Red Sea	327,066	11	11	0	0	0	100%	3.8	18%
River Nile	437,544	15	13	2	0	0	100%	3.9	8%
Sennar	665,628	15	13	2	0	0	93%	2.5	14%
S.Darfur	1,579,911	31	30	1	0	0	100%	2.2	10%
S. Kord	922,086	20	19	1	0	0	100%	2.5	16%
W.Darfur	884,736	18	16	1	1	0	94%	2.2	18%
W. Nile	775,659	17	15	1	0	1	82%	2.5	19%
Total	13,658,598	311	288	21	1	1	97%	2.6	14%

Table 2. Major AFP surveillance performance indicators, Southern States, week 46, 2008

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
Bahr Elgabal	217,555	11	8	1	2	0	91%	4.7	10%
E. Equatoria	214,239	10	8	0	2	0	80%	4.2	30%
Lakes	218,533	13	13	0	0	0	100%	6.7	15%
Jongli	431,881	17	14	2	1	0	100%	4.2	20%
N.Bahr Elgazal	328,795	14	14	0	0	0	100%	4.8	0%
Unity	107,203	22	18	3	1	0	95%	22.1	11%
Upper Nile	215,941	9	7	1	1	0	89%	4.2	25%
Warap	431,884	22	21	1	0	0	82%	5.8	24%
W.Bahr Elgazal	109,597	6	4	2	0	0	83%	6.2	0%
W. Equatoria	201,500	9	9	0	0	0	100%	5.0	11%
Total	2,477,128	133	116	10	7	0	92%	5.7	16%

Fig 10. Percent distribution of AFP cases < 60 months by number of OPV doses, Sudan 2000-2008*



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

*Up to 16/11/08

Fig 11. Percent distribution of AFP cases < 60 months by 6 months period and number of OPV doses, Sudan 2004-08*

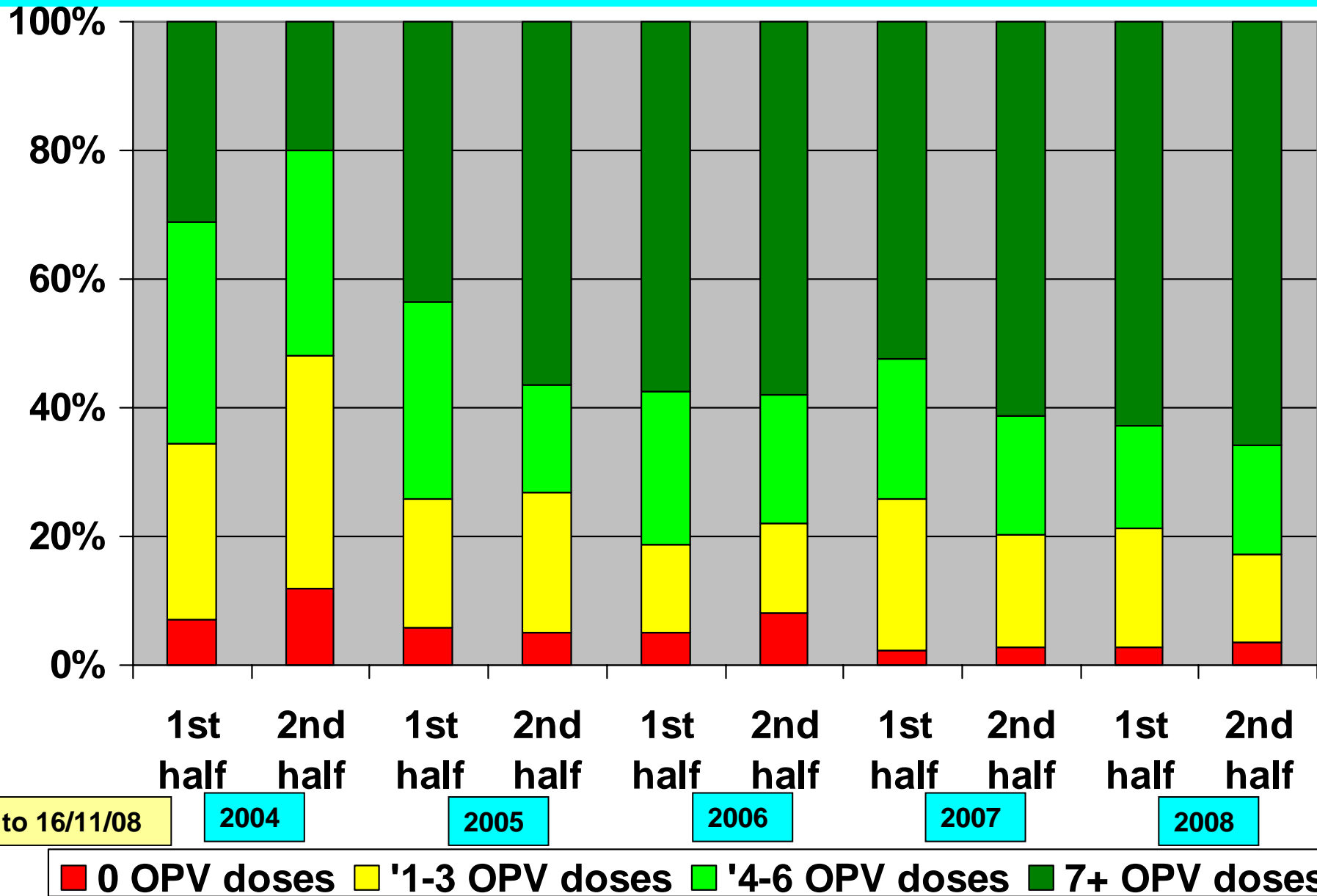
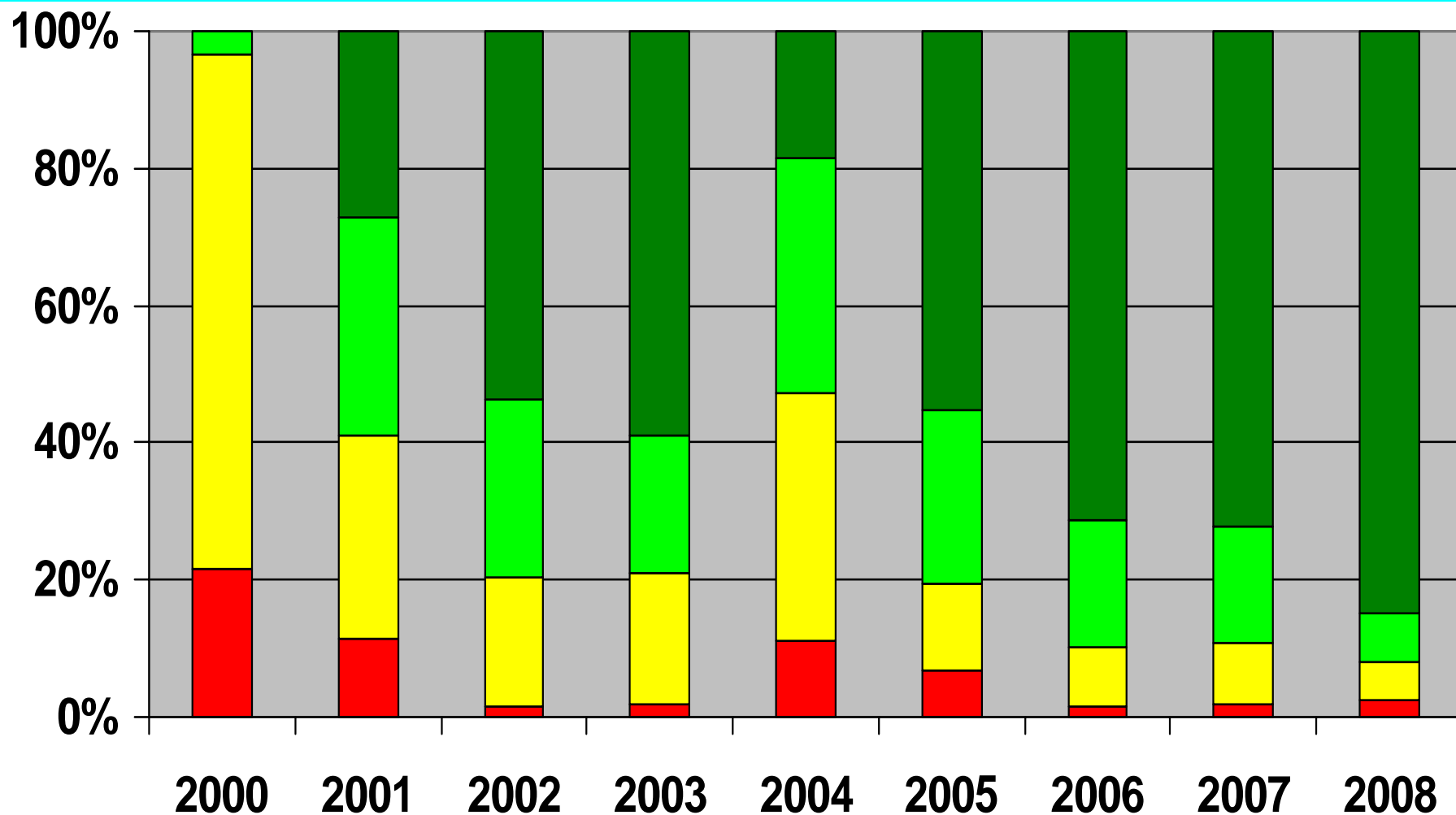


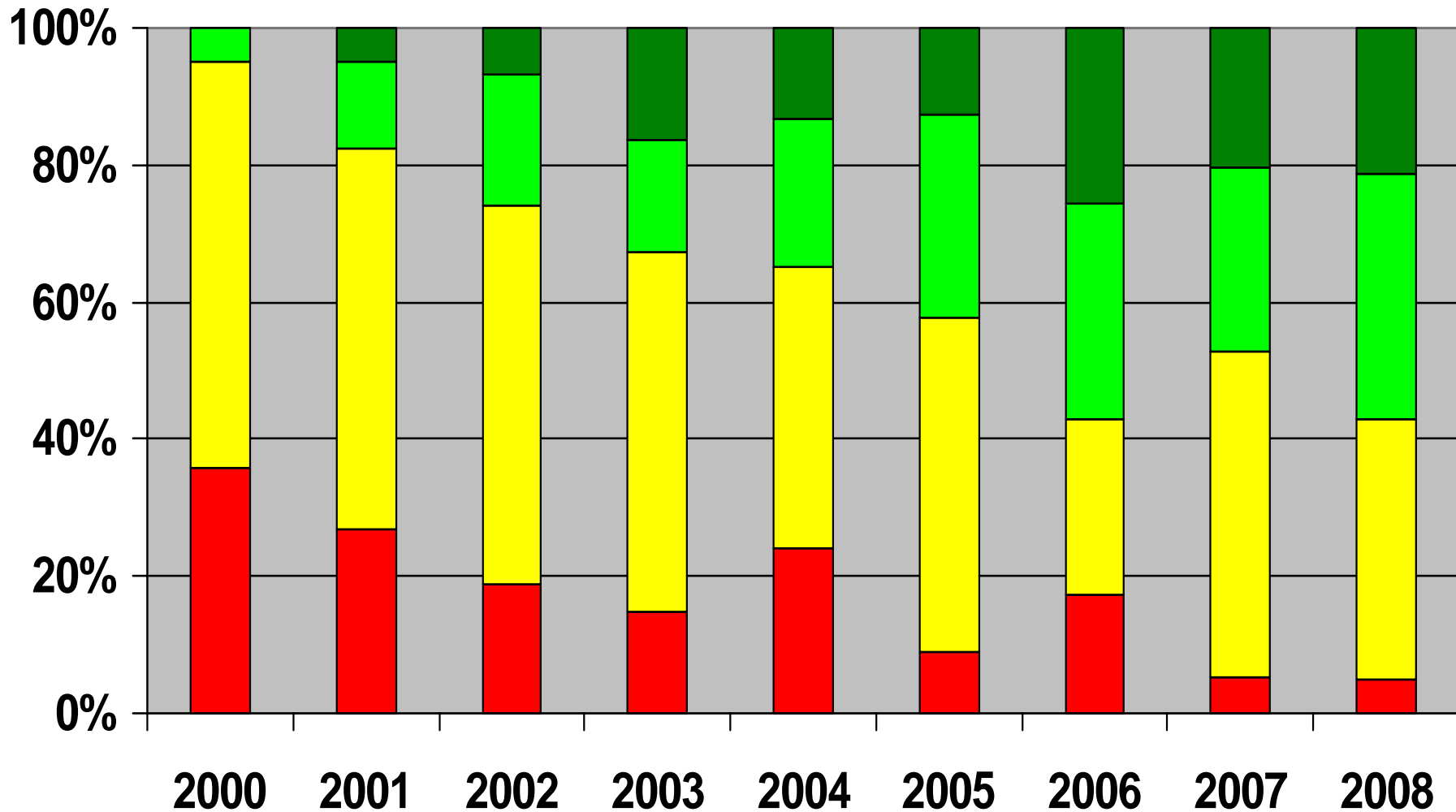
Fig 12. Percent distribution of AFP cases < 60 months by number of OPV doses, North Sudan 2000-08*



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

*Up to 16/11/08

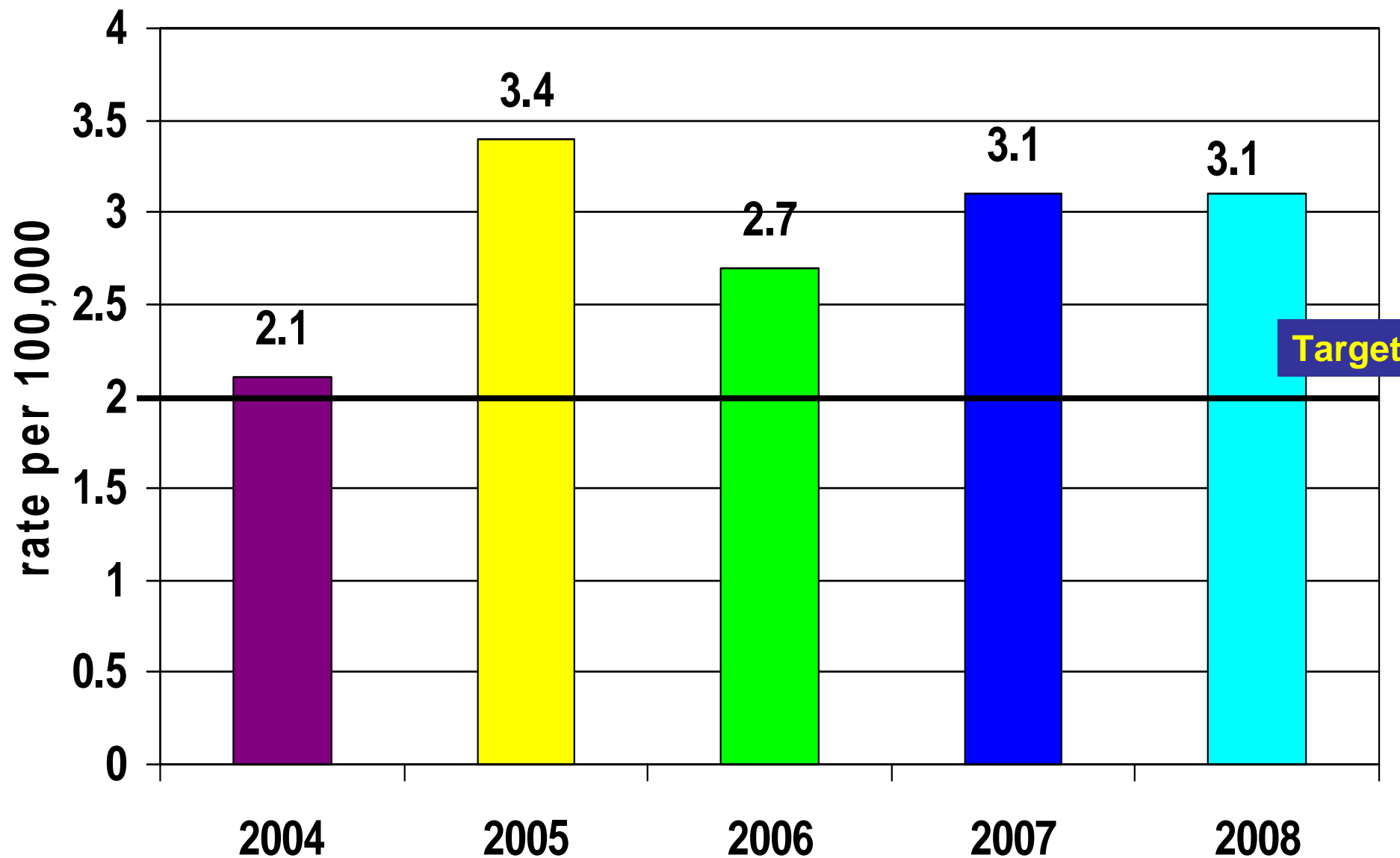
Fig 13. Percent distribution of AFP cases <60 months by number of OPV doses, South Sudan 2000-2008*



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

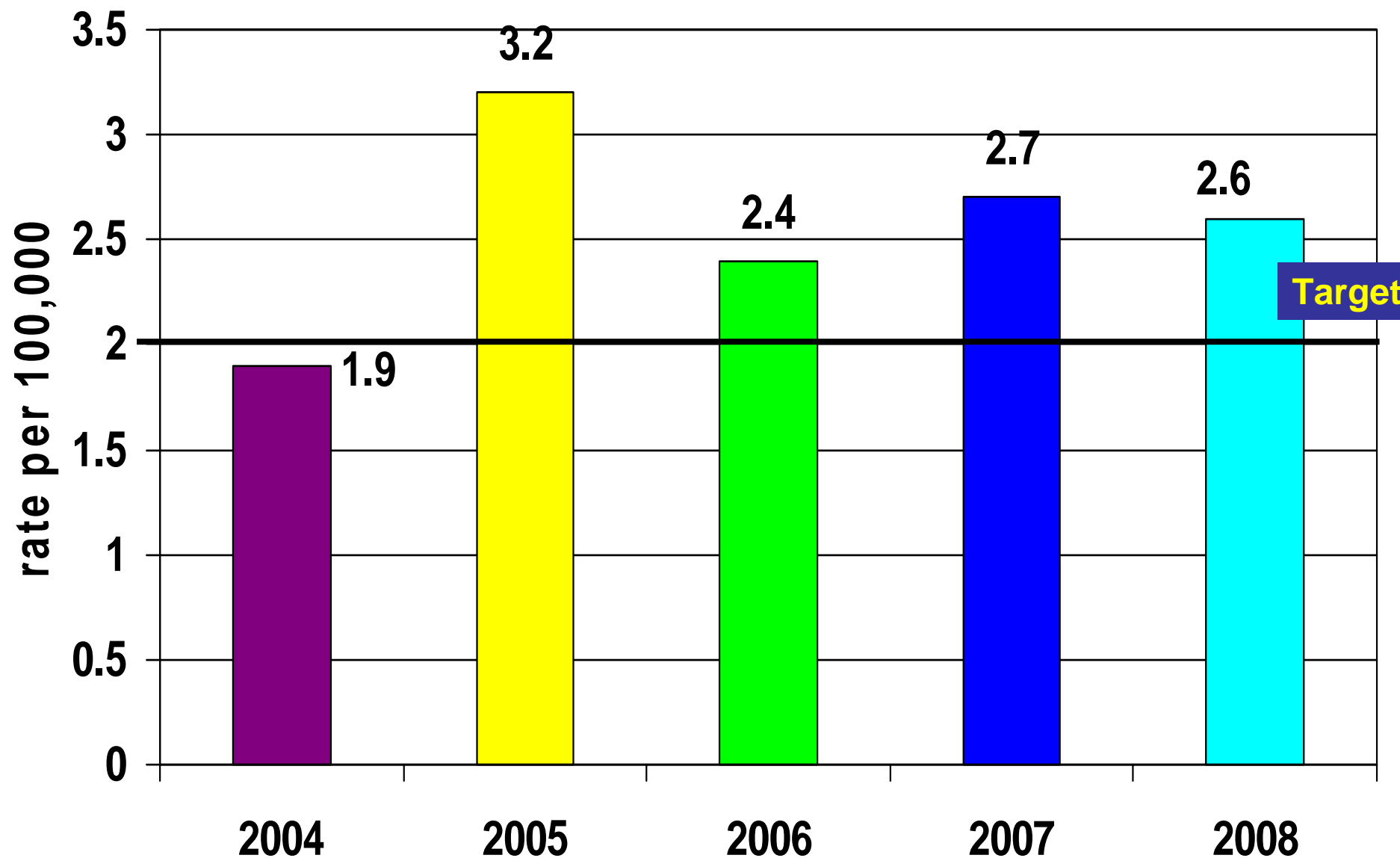
*Up to 16/11/08

Fig 14. Annualized Non-Polio AFP rate per 100,000 children under 15 years of age, total Sudan, 2004-2008*



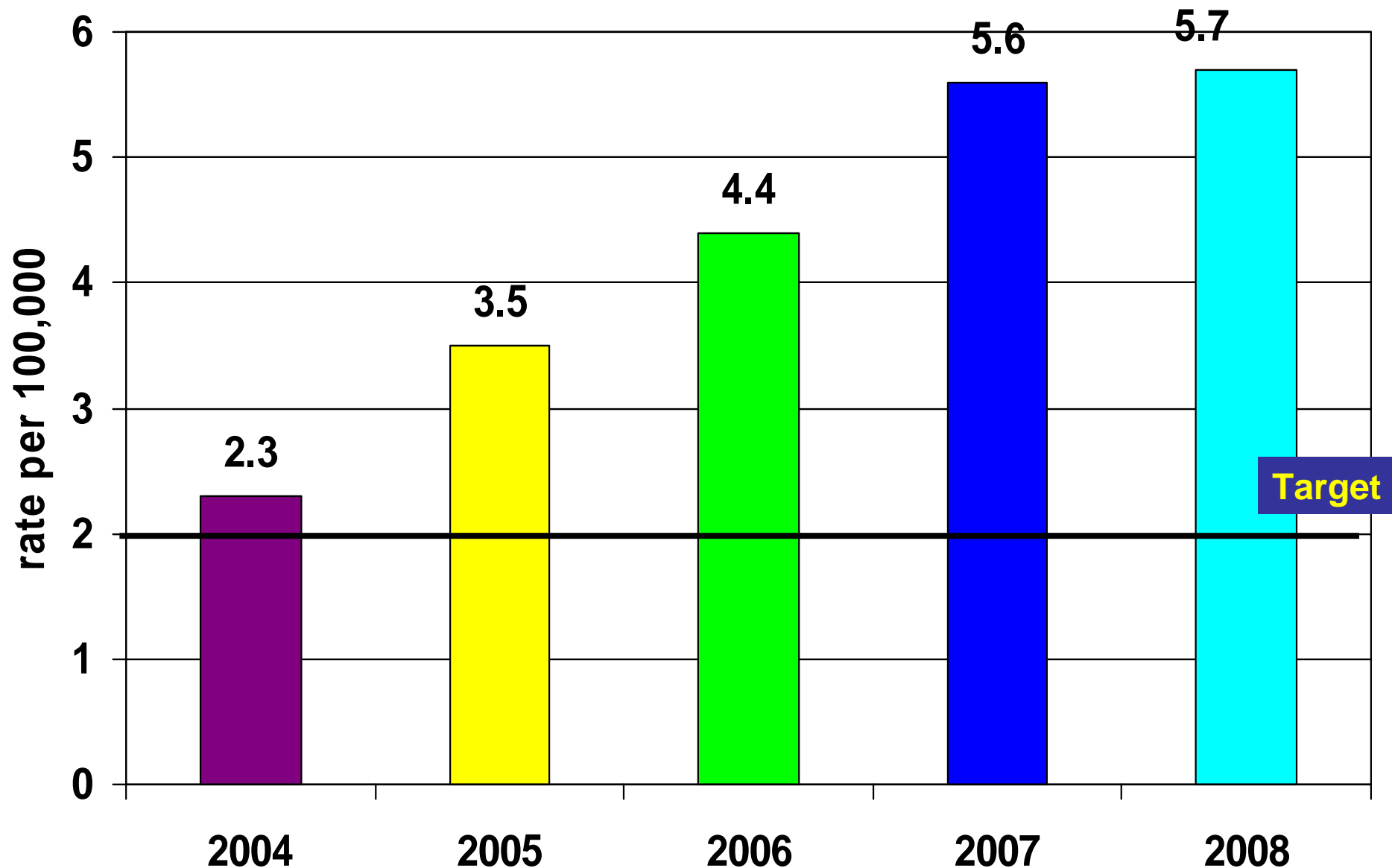
*Up to 16/11/08

Fig 15. Annualized Non-Polio AFP rate per 100,000 children under 15 years of age, North Sudan, 2004 – 2008*



*Up to 16/11/08

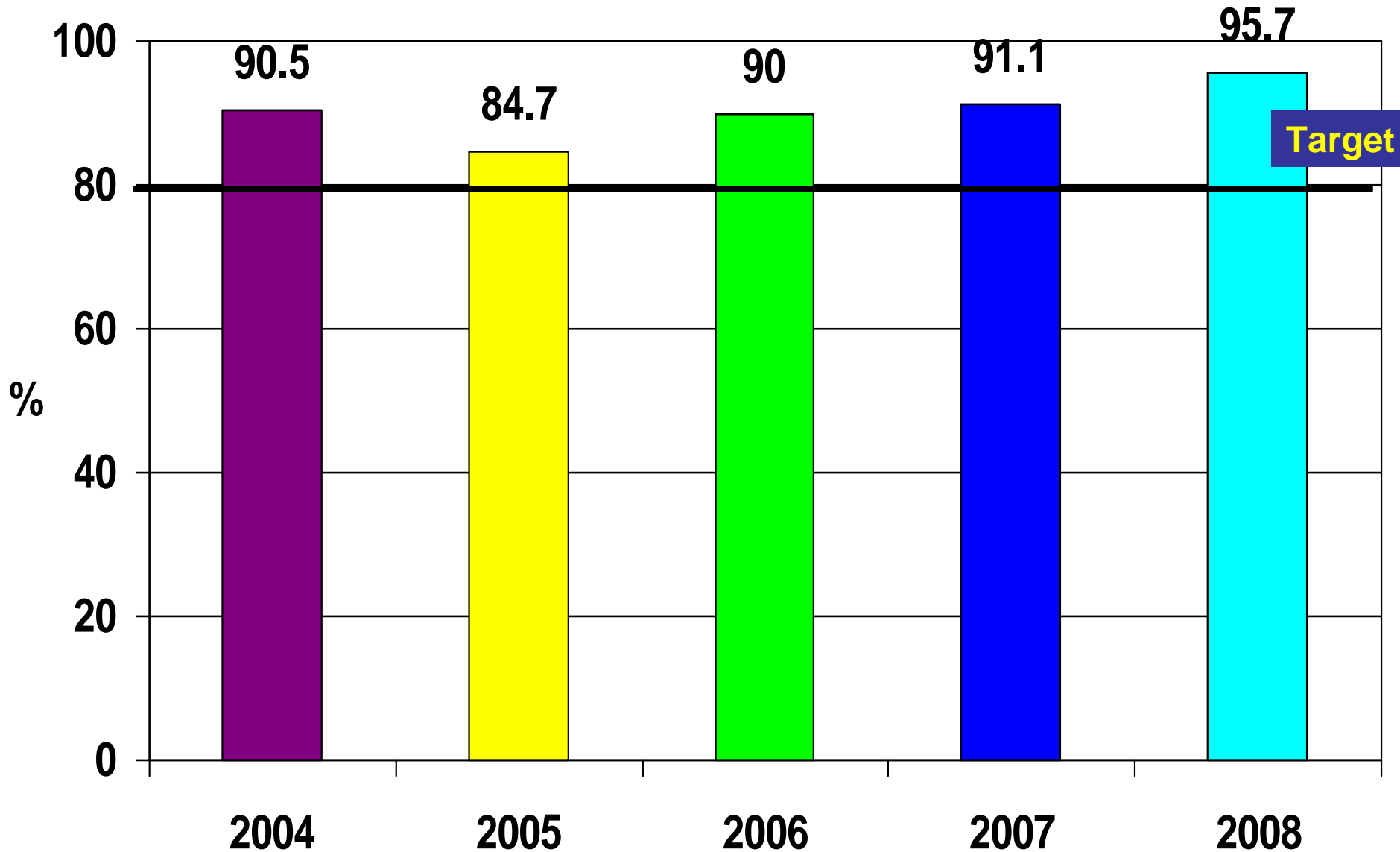
Fig 16. Annualized Non-Polio AFP rate per 100,000 children under 15 years of age, southern Sudan 2004 – 2008*



*Up to 16/11/08

Fig 17. Adequate stool collection rate, total Sudan

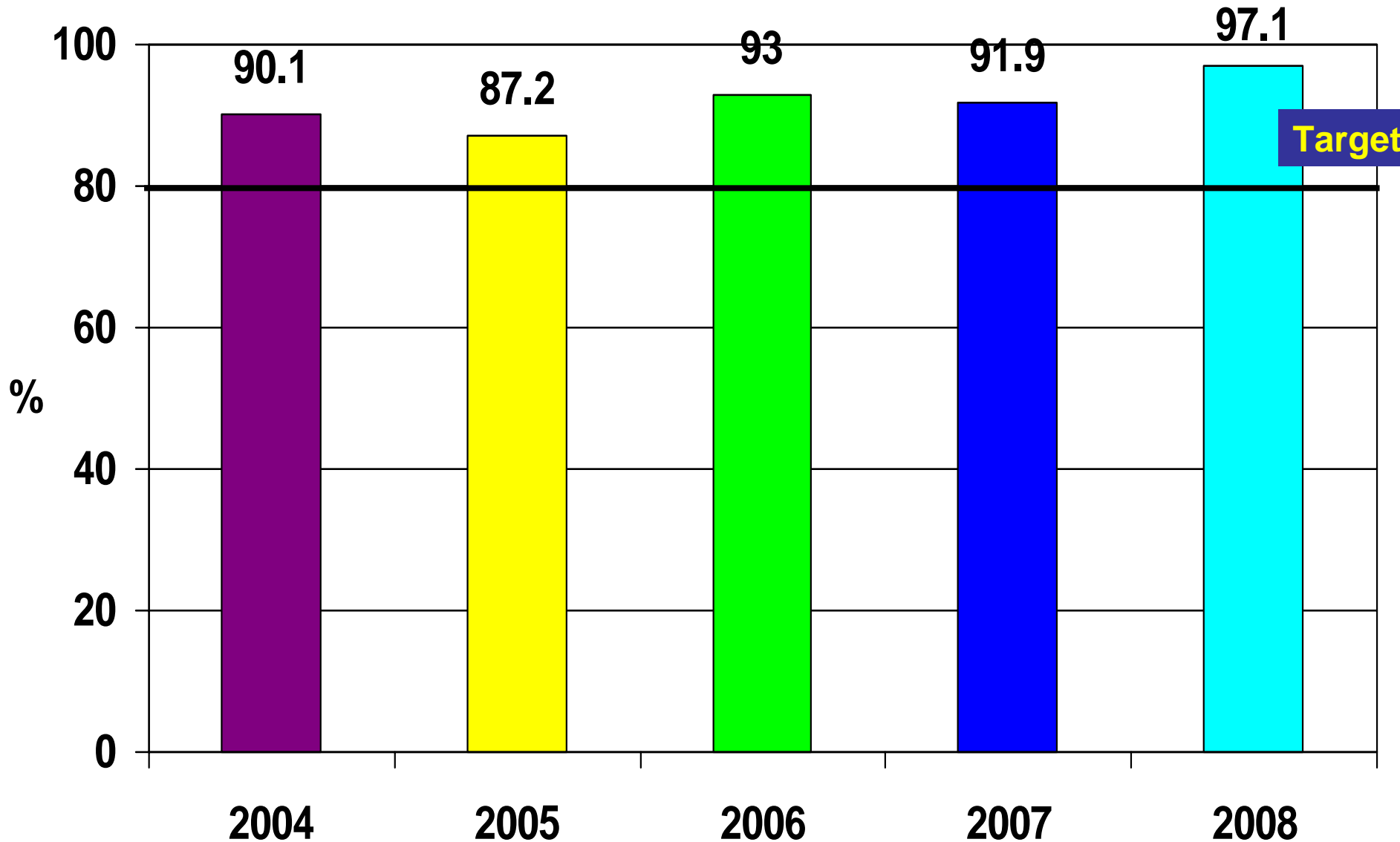
2004 – 2008*



*Up to 16/11/08

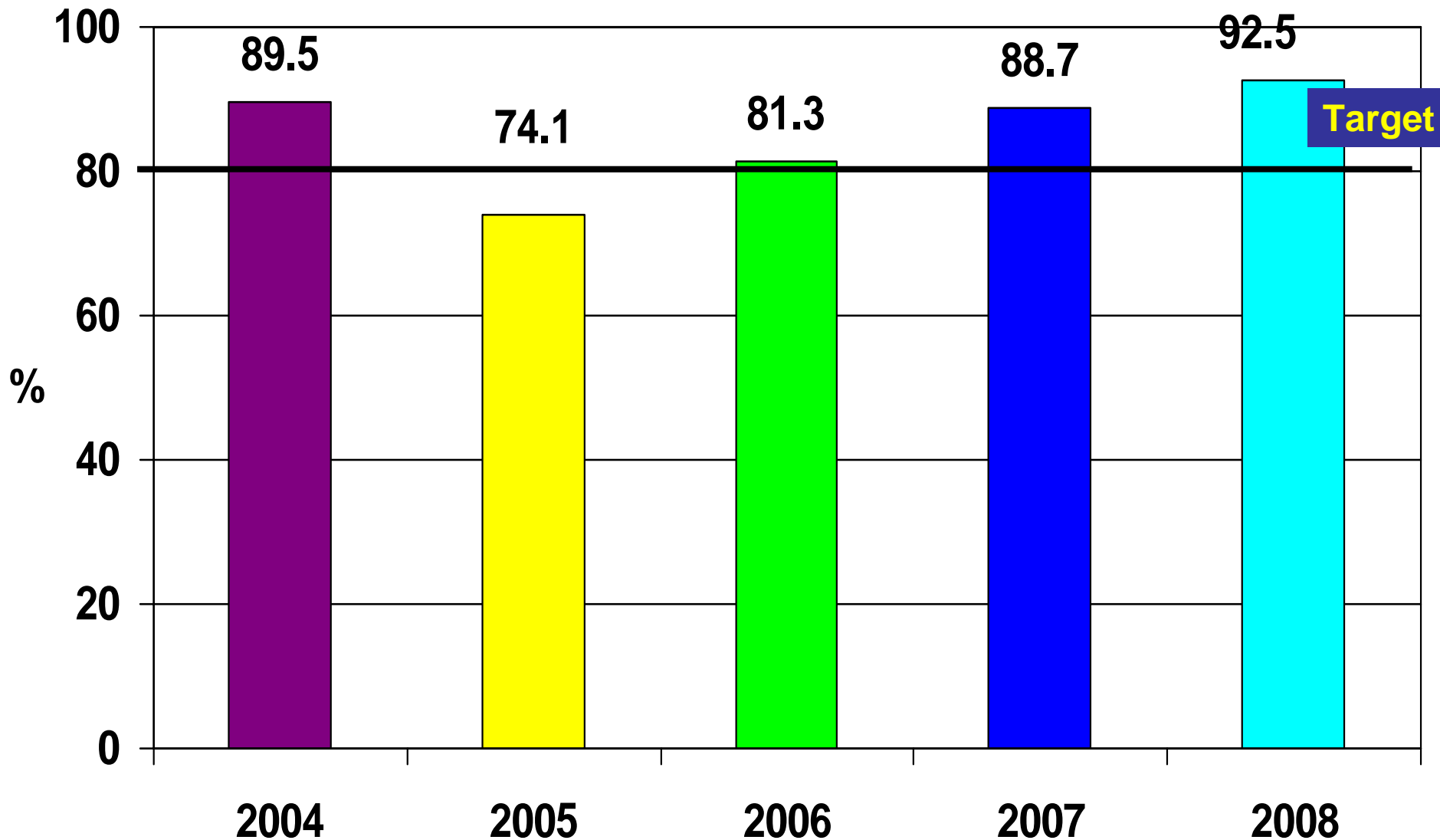
Fig 18. Adequate stool collection rate

North Sudan, 2004 – 2008*



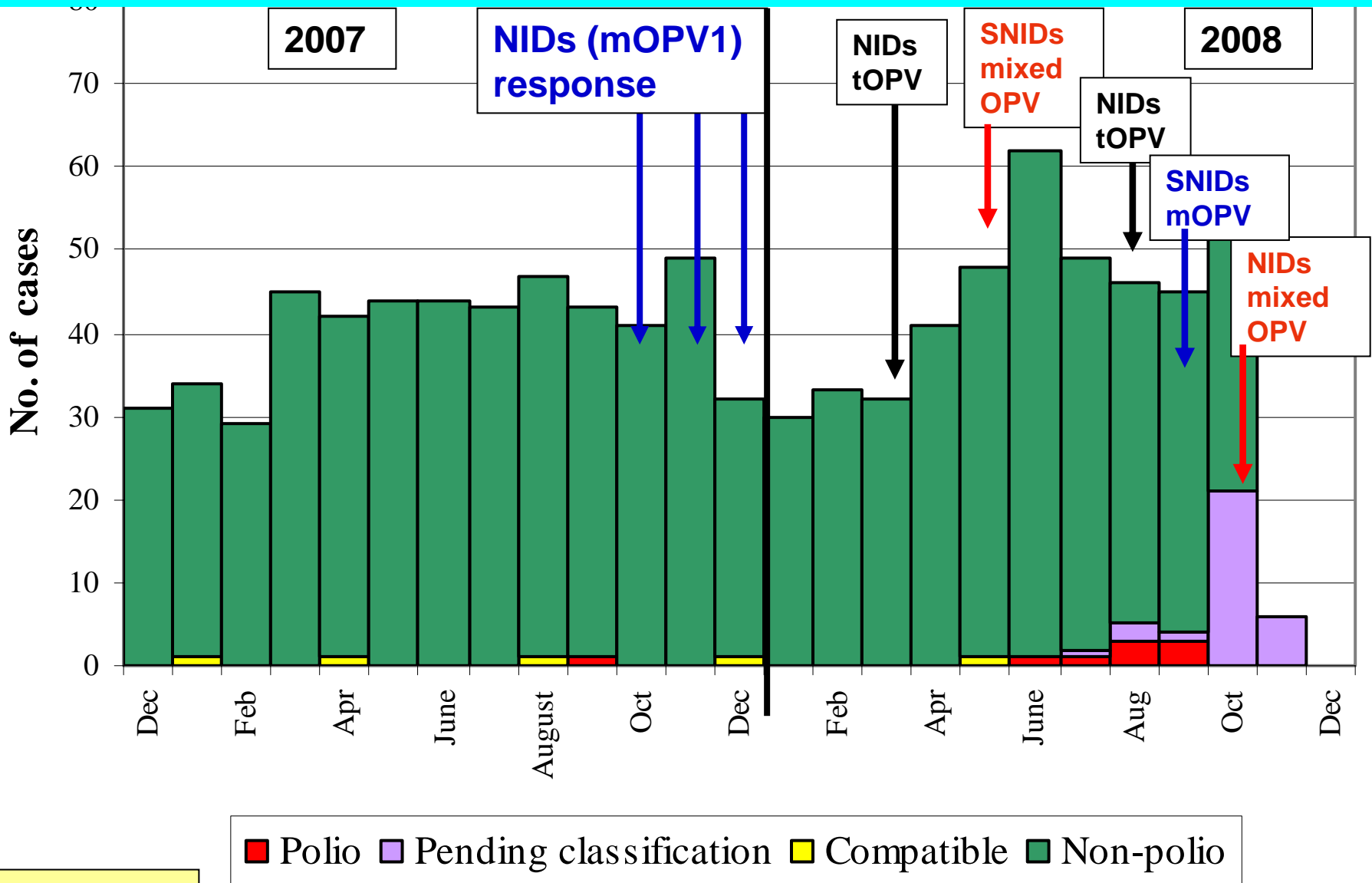
*Up to 16/11/08

Fig 19. Adequate stool collection rate
Southern Sudan 2004 – 2008*



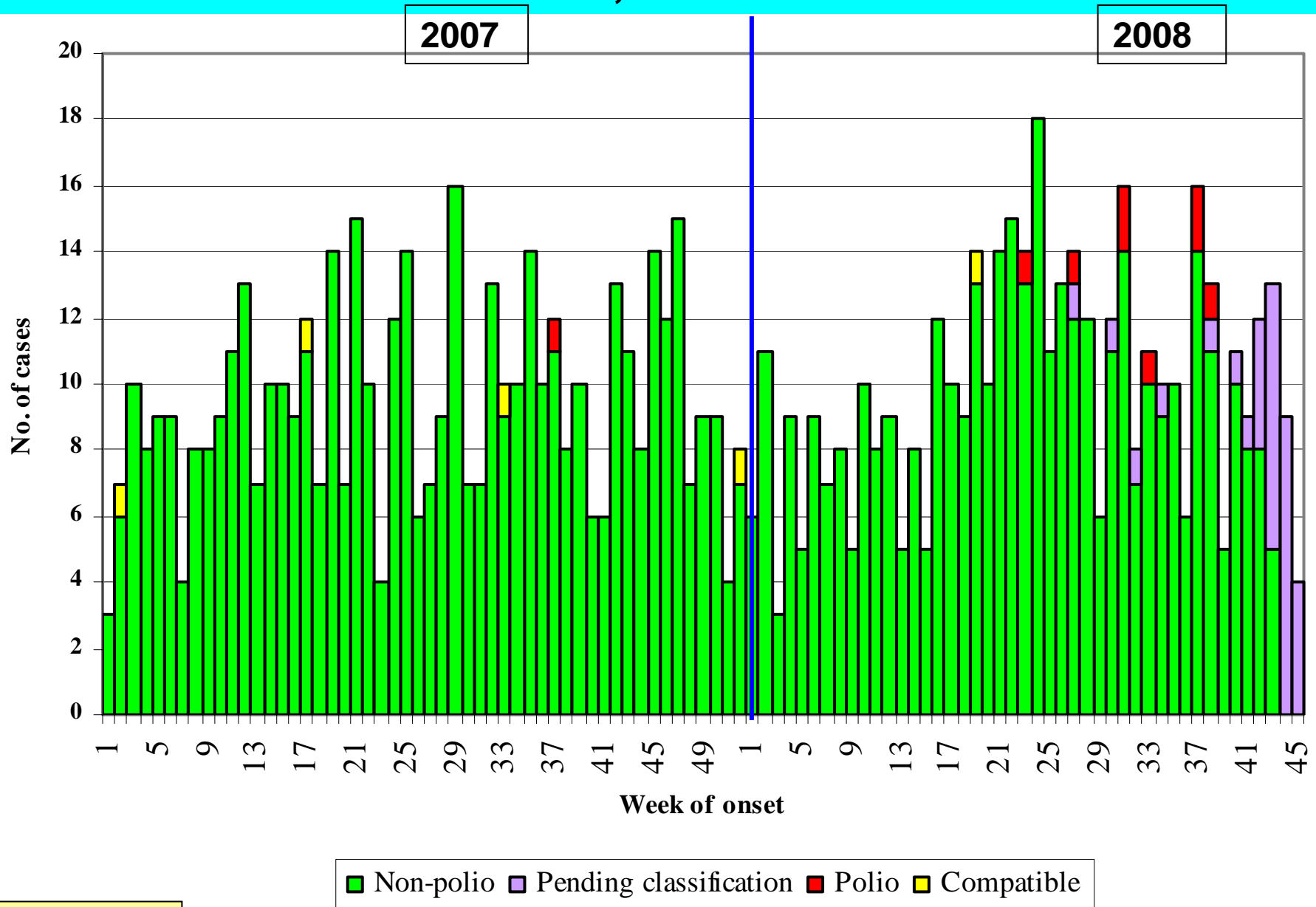
*Up to 16/11/08

Fig 20. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation, total SUDAN 2007-08*



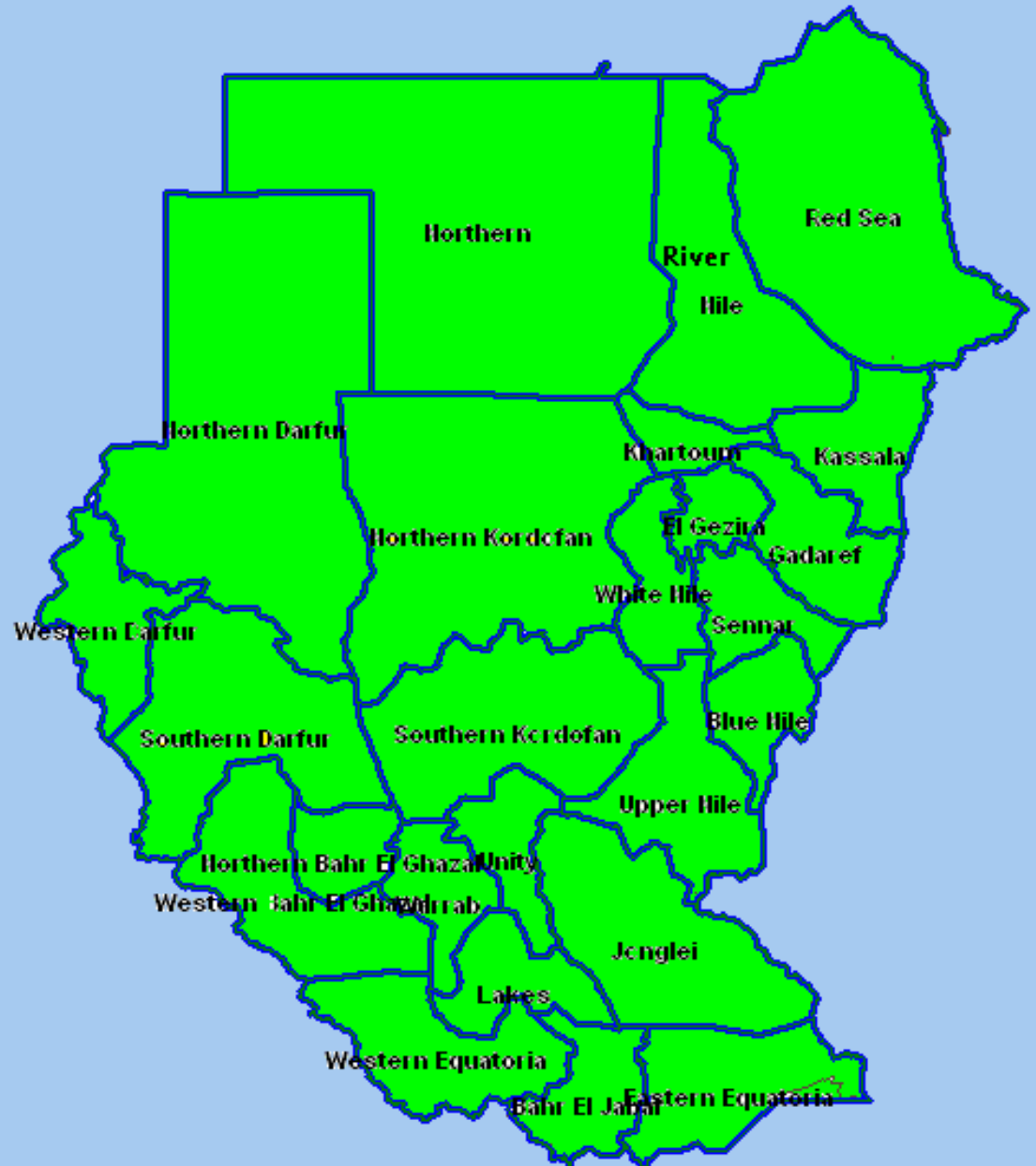
*Up to 16/11/08

Fig 21. Distribution of AFP cases by classification and week of onset, Sudan 2007 – 2008*

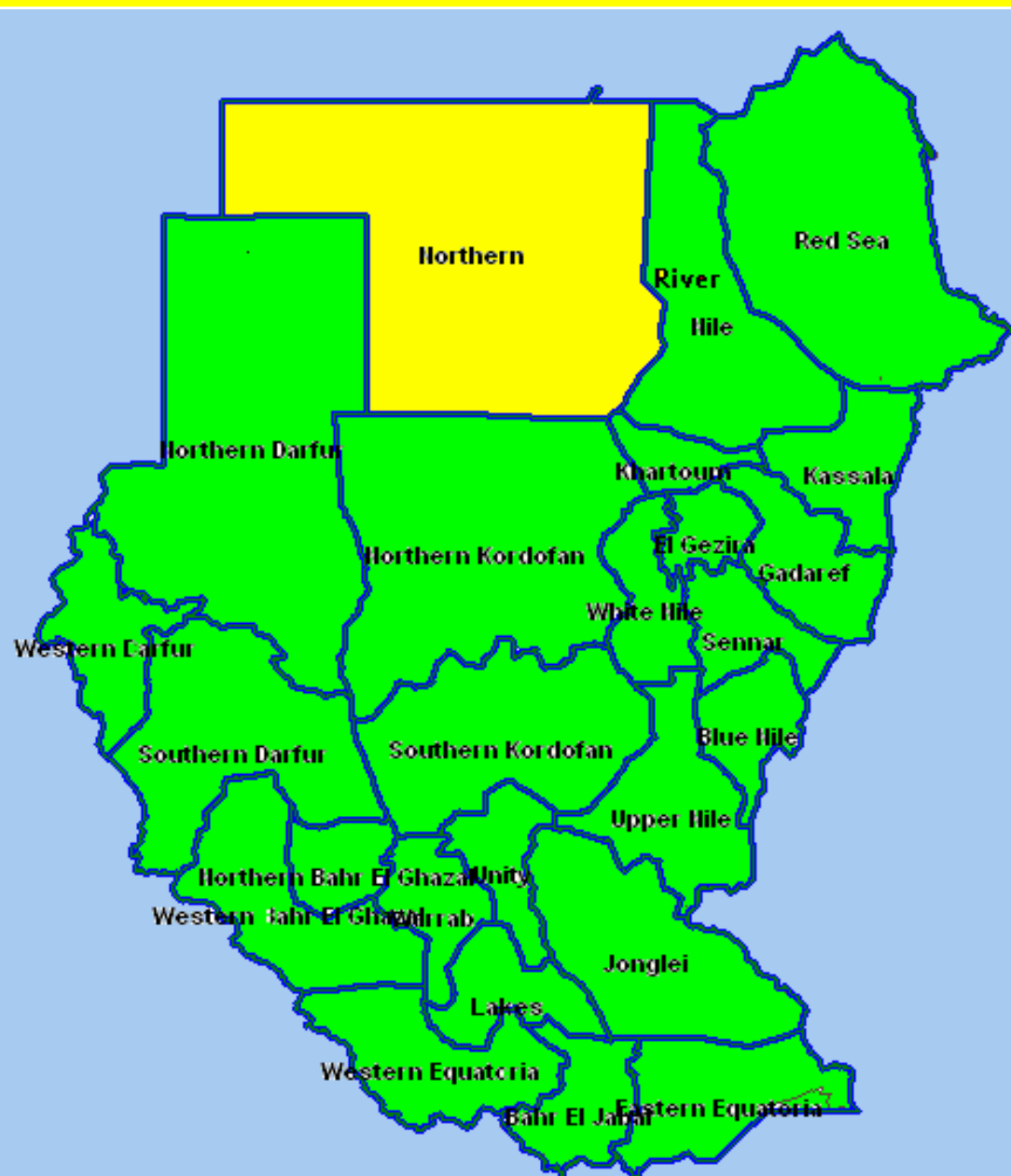
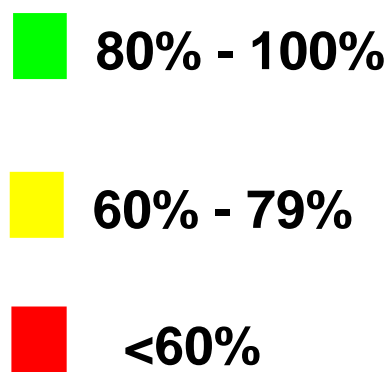


*Up to 16/11/08

Map 3. Annualized non-polio AFP rate per 100,000 by state, up to week 46, 2008



Map 4. Percent distribution of AFP cases having adequate stool samples by state, up to week 46, 2008



**Table 3. National polio lab performance indicators
North Sudan, 2006-2008***

Indicator	2006	2007	2008*
Total AFP cases tested in NPL	305	355	203
Cases with wild poliovirus	0	1	1
Cases with non-polio enterovirus	19%	15%	14.5%
Sabin like viruses No. & (%) from AFP cases	10 (3.3%)	10 (3%)	5 (1.9%)
Median days from the time of samples received in the lab to primary culture report or L20B result	18 days	14 days	11 days
Number of AFP contacts tested in the NPL	121	326	336
Contacts with non-polio enterovirus	12.4%	10.4%	7.6%
Sabin like viruses No. & (%) from contacts	6(5%)	4(1%)	5(1.7%)
Number of contacts with wild poliovirus P1	0	2	0
Number of healthy children with wild poliovirus P1	0	1	0

*Up to 16/11/08

Table 4. Polio lab performance North Sudan, 2007 and 2008

Week of onset	Total AFP Cases	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
2007 up to week 46	321	0	0	270	51	15.9 %	100%**	77.1%	97.8%
2008 up to week 46	311	21	0	248	42	14.5 %	94.2%	71.0%	98.7%

* The time for reporting Lab result has changed from 28 days to 14 days as Sudan has applied the new algorithm in culturing stool samples.

** As per the old algorithm (result to be reported within 28 days).

*Up to 16/11/08

Fig 22. Specimens' timeliness, NPL, 2007-2008*

Paralysis onset

2007

Stool Collected

Stool in lab

Culture results reported

ITD results reported

8 days

2.9 days

14 days

13 days

Average=25

Primary Culture result from Date of onset Average=35

ITD result from date of onset

2008*

6 days

3 days

12 days

14 days

Average=21

Primary Culture result from Date of onset

Average=31

ITD result from date of onset

N=4 cases

*Up to 16/11/08