

# **Sudan Weekly AFP Surveillance Report**

**Week 34**

**(Ending on 28 August 2009)**

**National AFP  
Surveillance system  
Sudan**

# Map1. Distribution of AFP cases by classification

N Sudan 2009\*

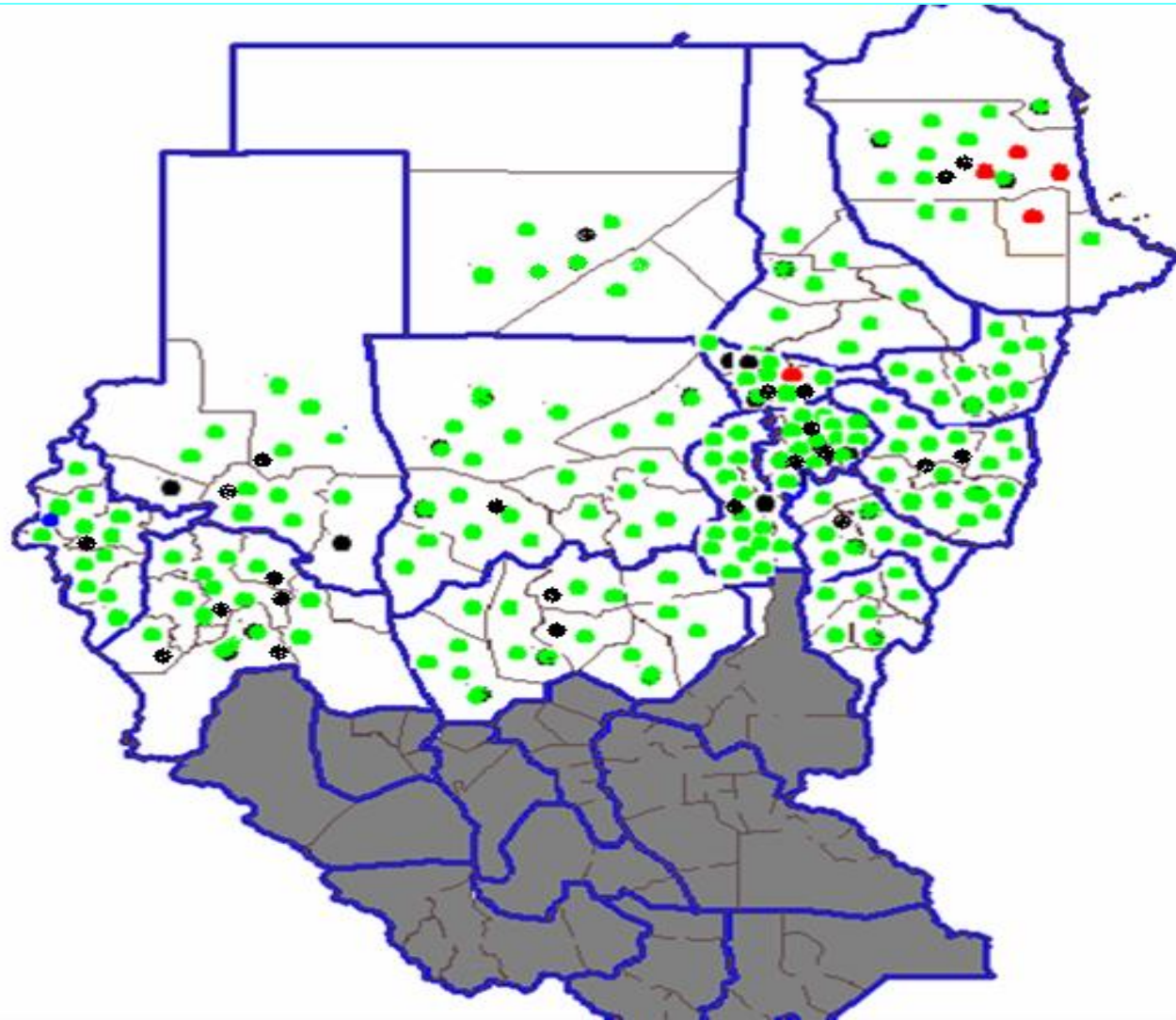
● P3

● P1

● Pending AFP case

● Non-polio AFP case

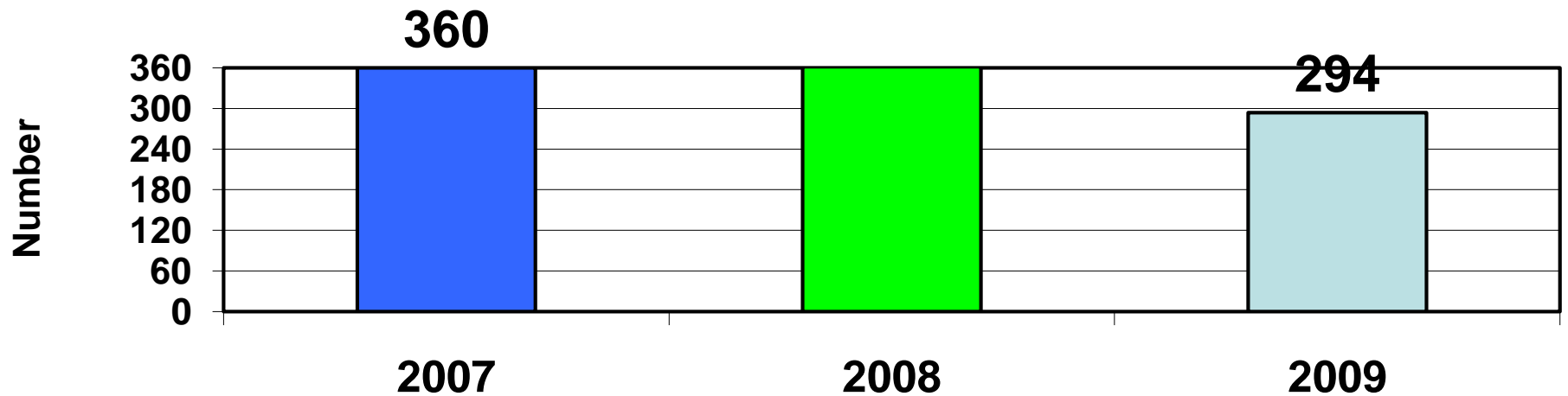
● Compatible case



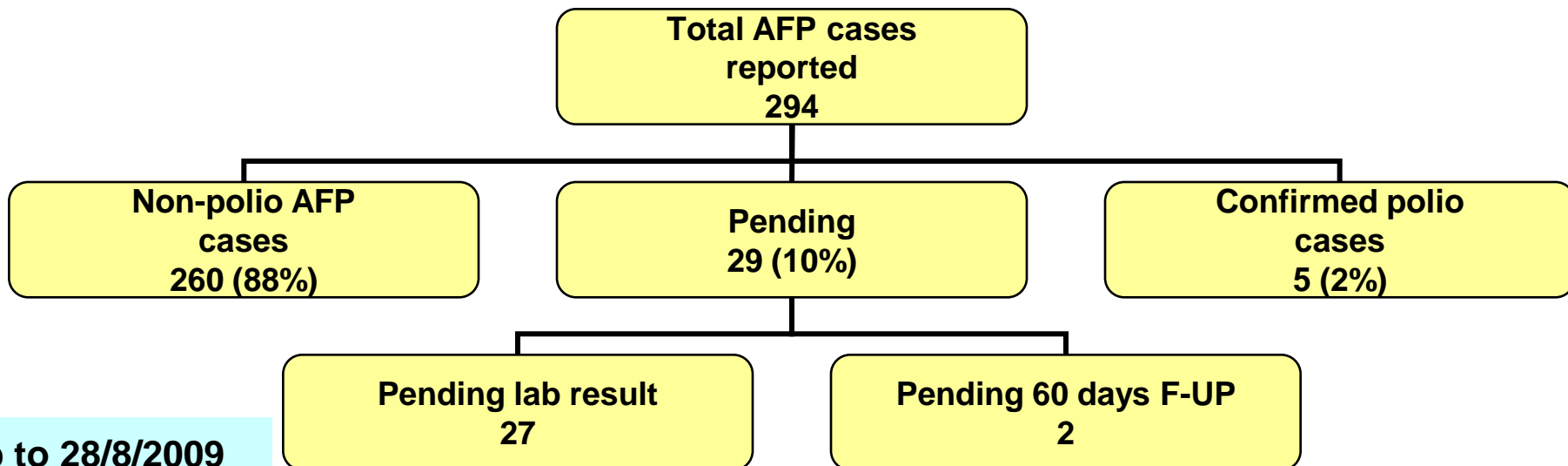
P3 : Chadian cases reported from WDA State

\* Up to 28/8/2009

**Fig 2. Total AFP cases, North Sudan 2009\***

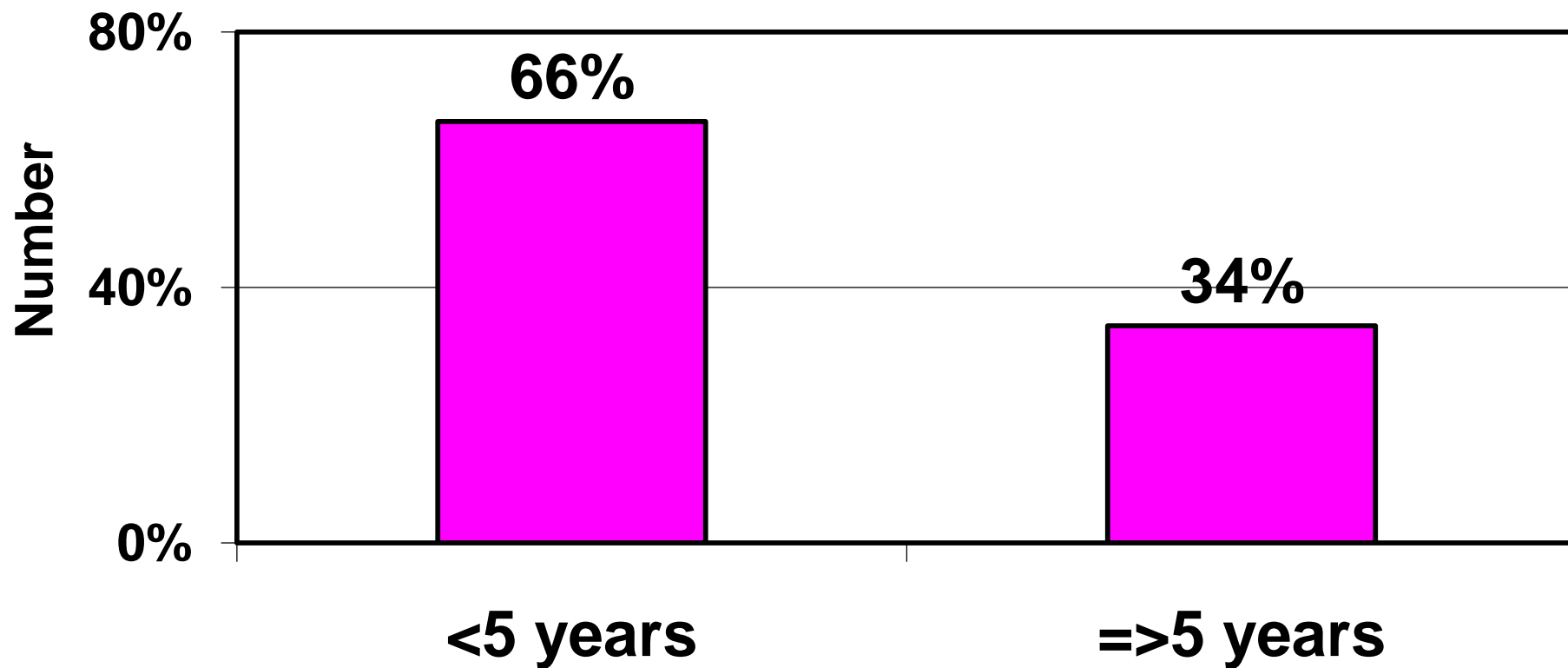


**Fig 3. Total AFP cases by classification, North Sudan, 2009\***



\* Up to 28/8/2009

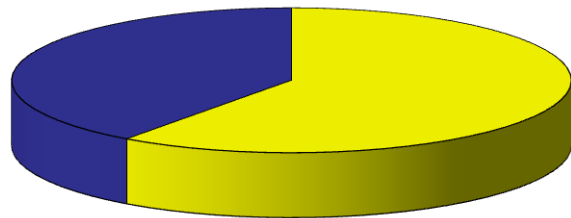
**Fig 3. North SUDAN AFP cases by age group, \*2009**



\* Up to 28/8/2009

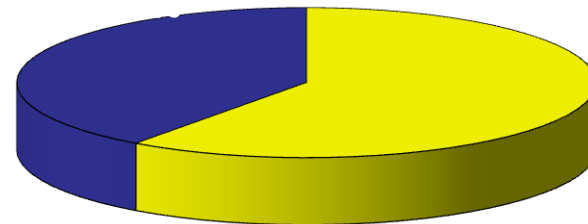
# Fig 4. North Sudan AFP cases by Sex, 2008- \*2009

55%



2008

62%



2009

Up to 28/8/2009

■ male ■ female

Figure 5. Percent distribution of AFP cases by time of detection, North Sudan, 2008

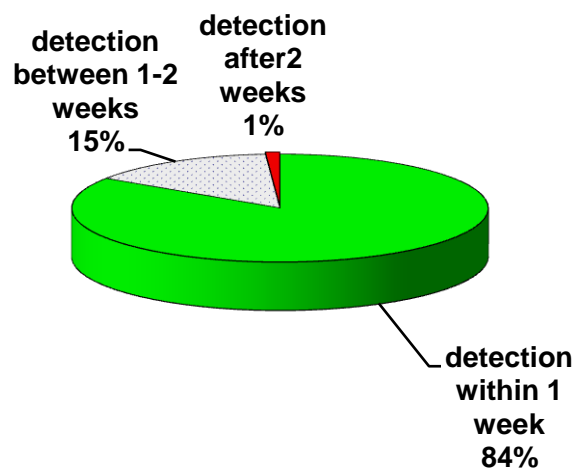
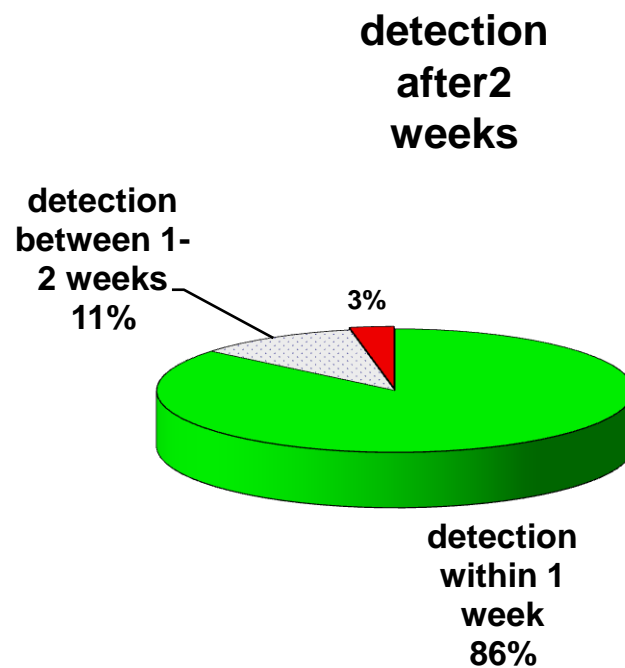
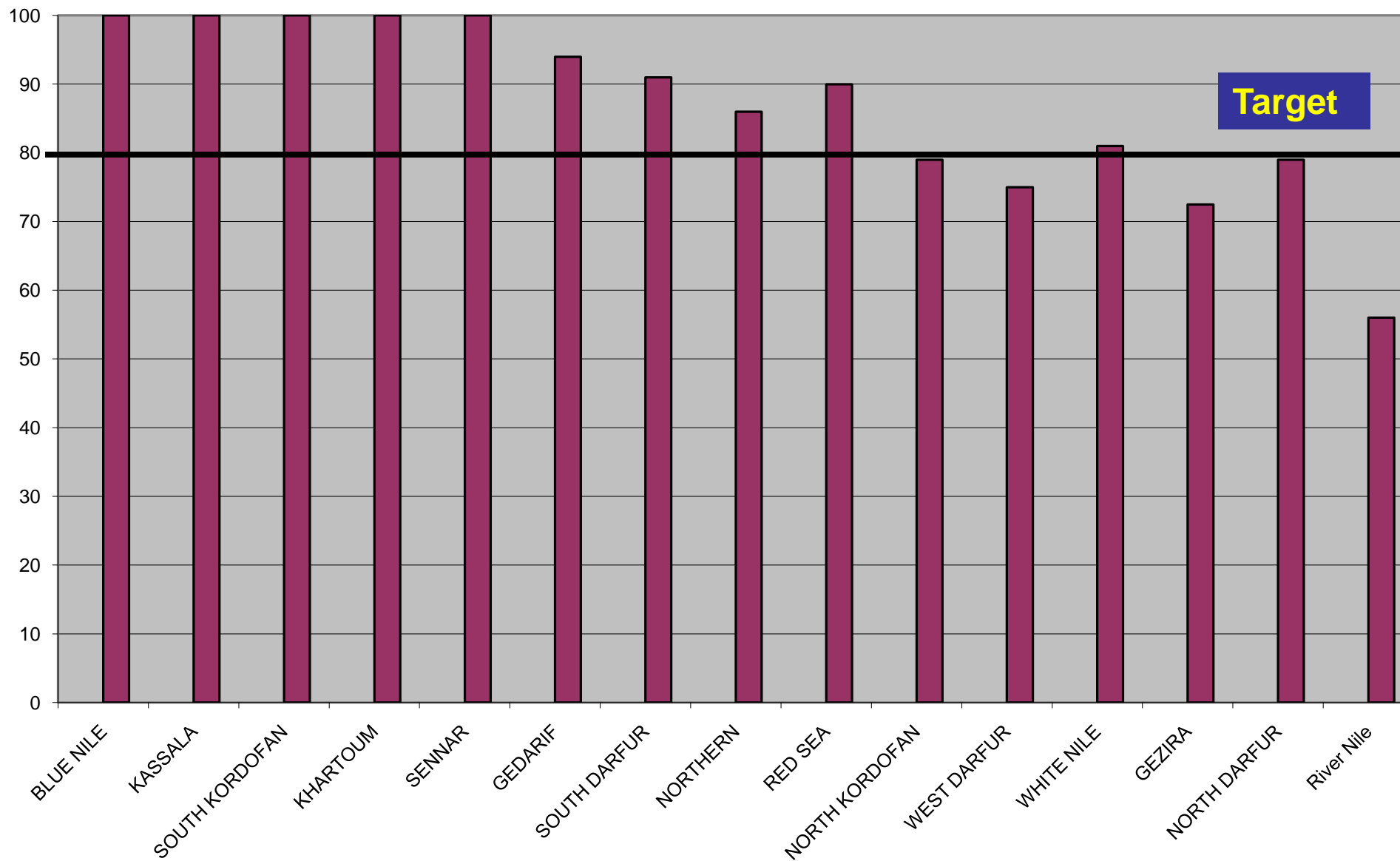


Figure 6. Percent distribution of AFP cases by time of detection, North Sudan, 2009\*



\* Up to 28/8/2009

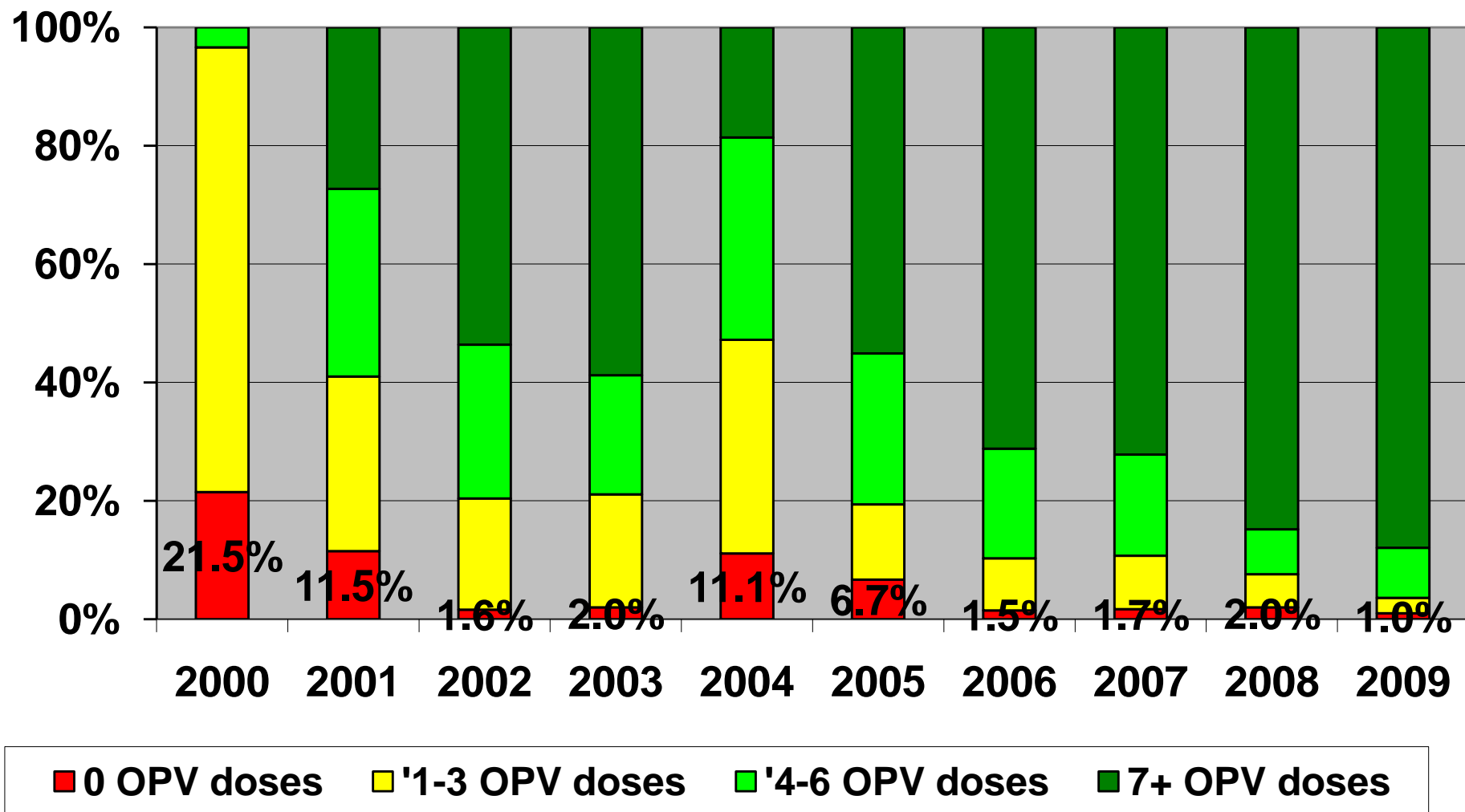
Early detection(Within one week) of AFP cases by states 2009- up to week 34



# Table 1. Major AFP surveillance performance indicators, Northern States, 2009 up to Wk 34

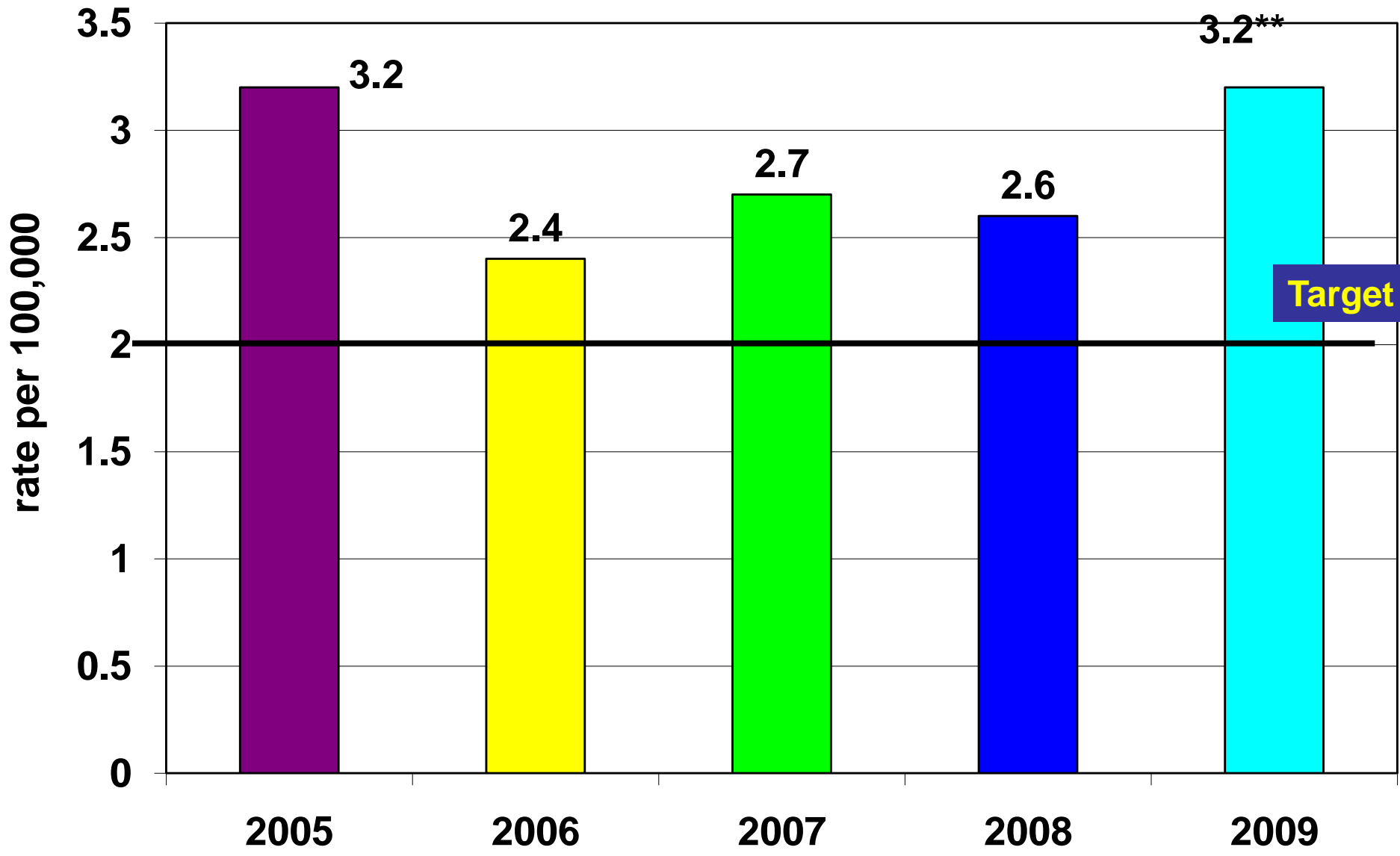
State	U 15 yrs population	Reported AFP cases	Non-polio AFP cases	Pending classification	Polio	Comp cases	% Adequate stools	Annualized AFP rate	% NPEV
B. Nile	345,141	7	7	0			100%	3.1	29
Gedarif	807,992	16	16	0			100%	3.0	19
Gezira	1,818,206	39	37	3			95%	3.4	16
Kasala	795,748	13	11	2			100%	2.5	9
Khartoum	2,234,046	39	33	5	1		97%	2.6	15
N.Darf	810,981	19	15	4			95%	3.6	13
N.Kord	1,224,747	28	27	1			93%	3.5	7
Northern	259,007	8	7	1			100%	4.7	29
Red Sea	328,047	19	13	2	4		95%	7.0	6
River Nile	445,463	9	9	0			100%	3.1	0
Sennar	682,468	12	11	1			100%	2.7	18
S.Darfur	1,633,786	23	18	5			100%	2.2	17
S. Kord	934,811	19	17	2			100%	3.1	12
W.Darfur	905,704	16	15	1			94%	2.7	7
W. Nile	794,818	26	24	2			92%	5.0	24
<b>Total</b>	<b>14,020,965</b>	<b>294</b>	<b>260</b>	<b>29</b>	<b>5</b>		<b>96.6%</b>	<b>3.2</b>	<b>14 %</b>

# Fig 7. Percent distribution of AFP cases < 60 months by number of OPV doses, North Sudan 2000-09\*



\* Up to 28/8/2009

**Fig 8. Non-Polio AFP rate per 100,000 children under 15 years of age, North Sudan, 2005 – 2009\***

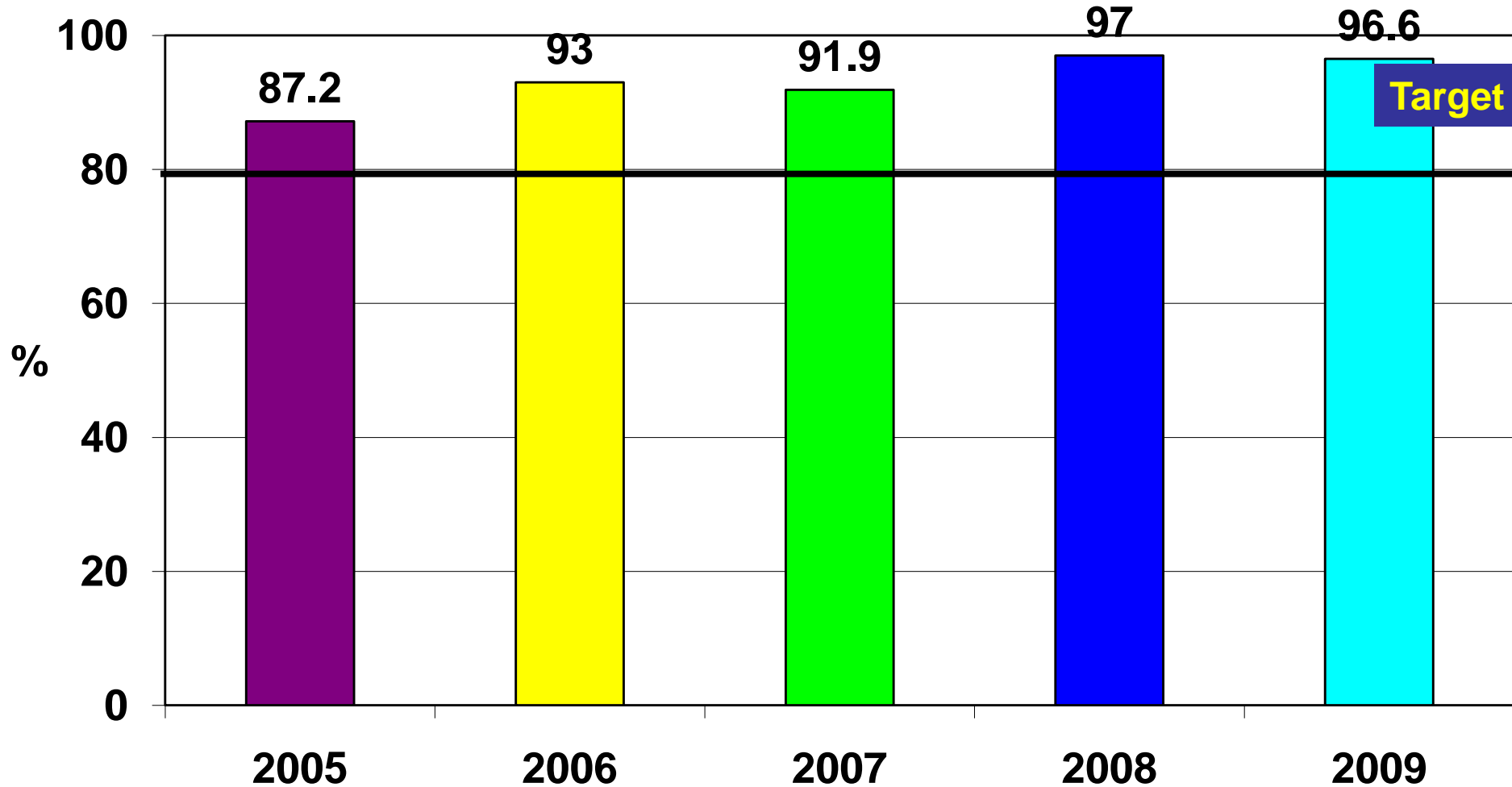


\* Up to 28/8/2009

\*\*Annualized

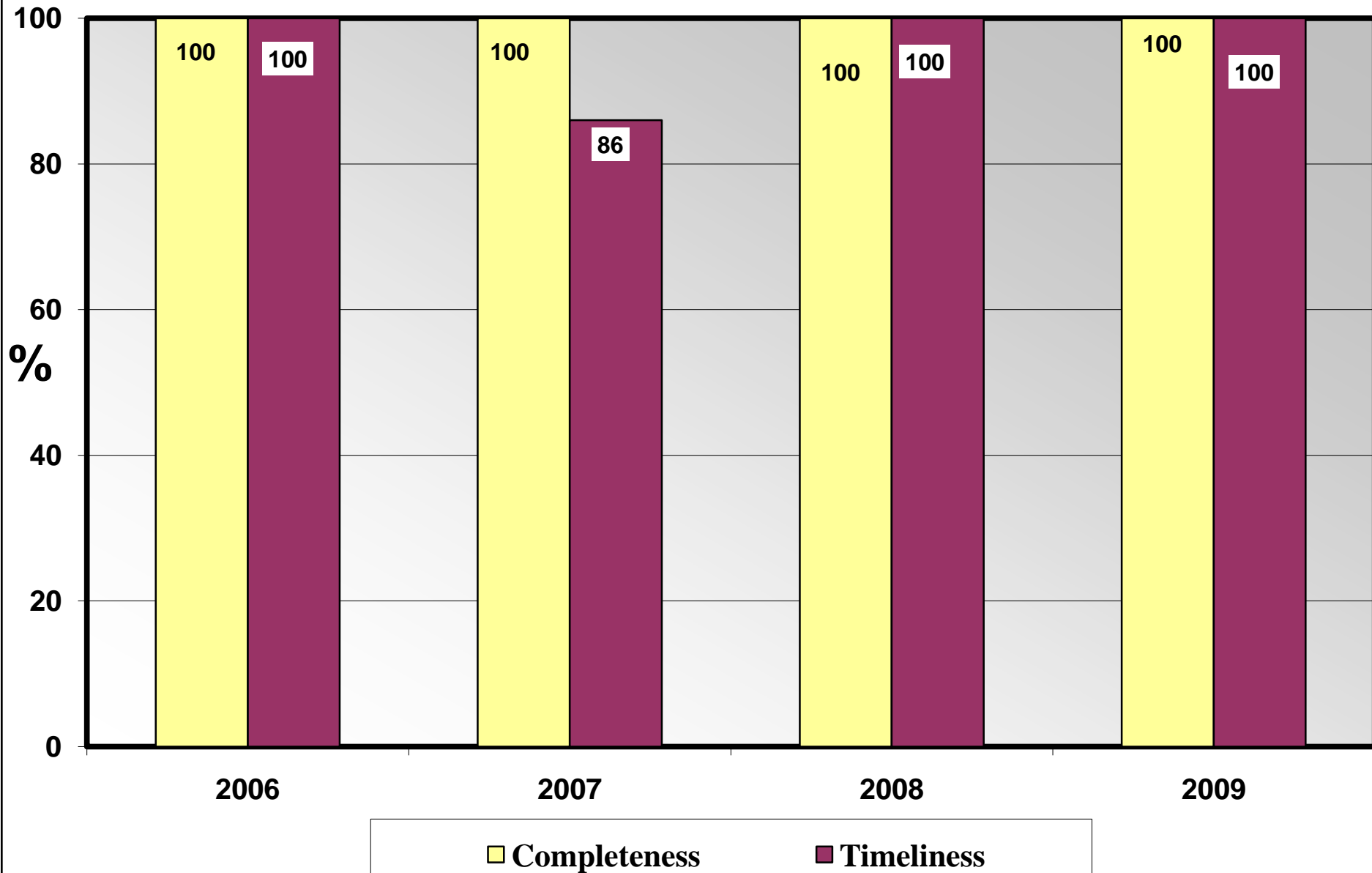
# Fig 9. Adequate stool collection rate

North Sudan, 2005 – 2009\*

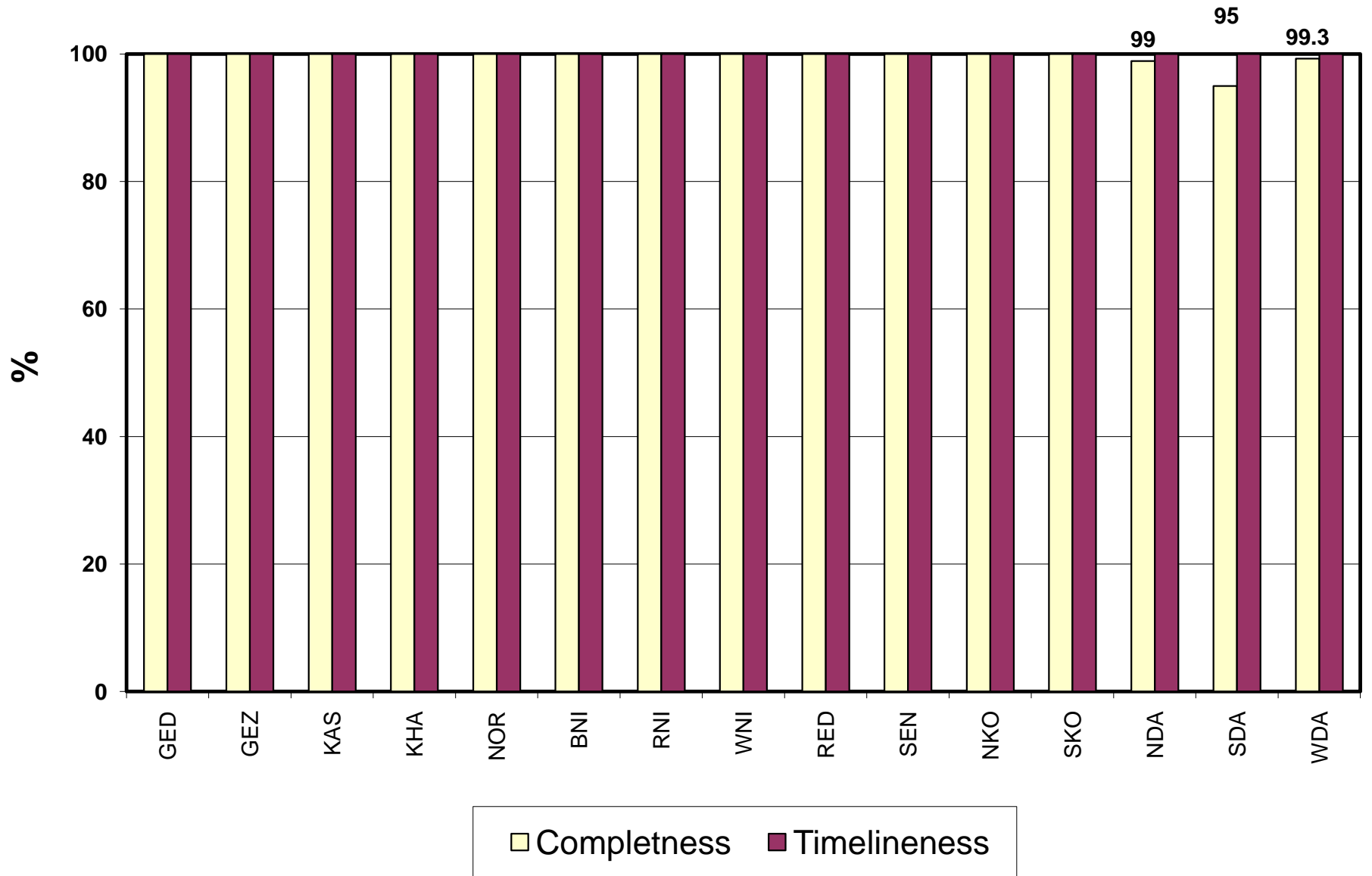


\* Up to 28/8/2009

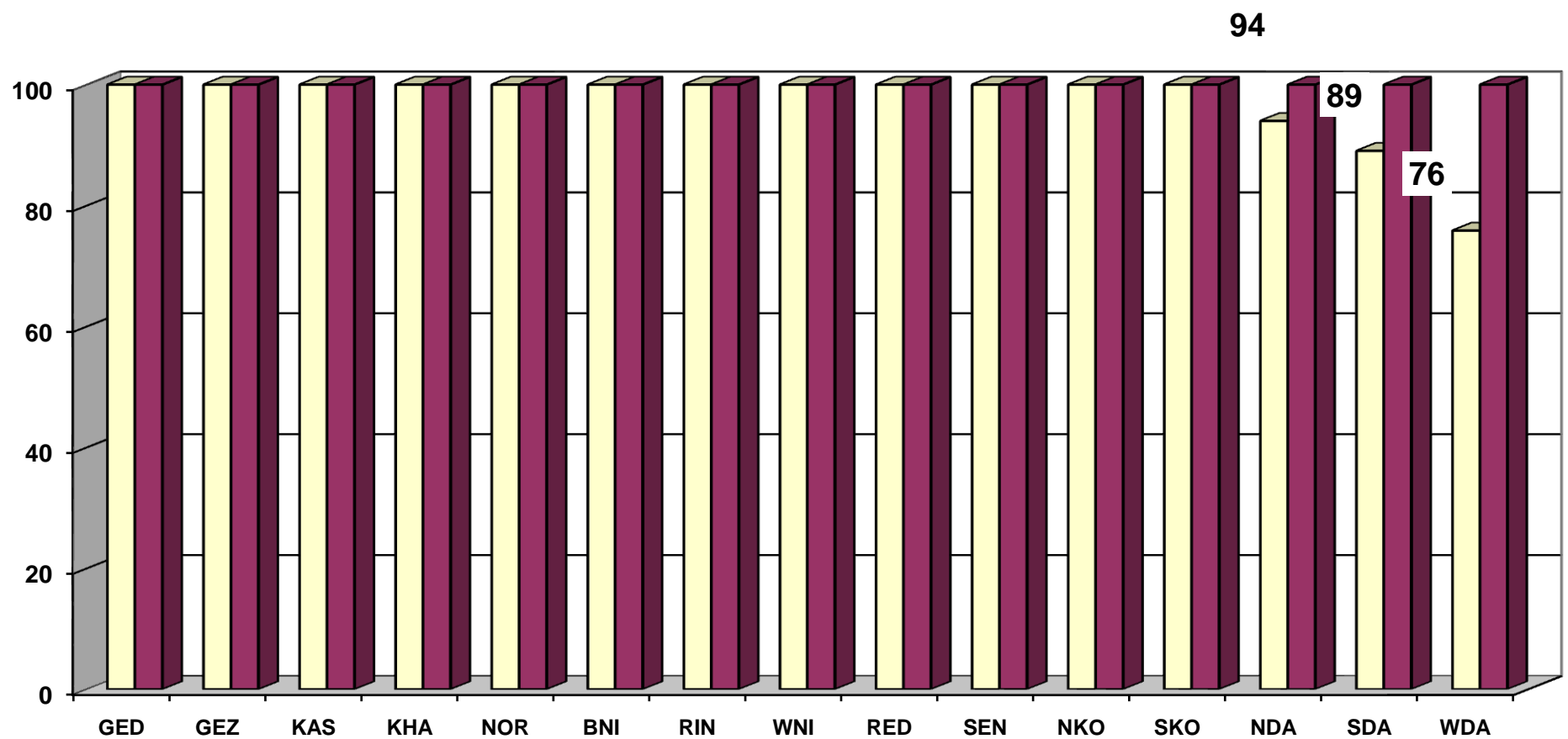
**Fig 12. Zero Reports (Comp. & Time.) According To Reporting To C.U for Northern States, 2006-2009**



**Fig 13. Zero Report (Comp.& Tim.) According To Reporting Sites For Northern States 2009 (up to week 34)**

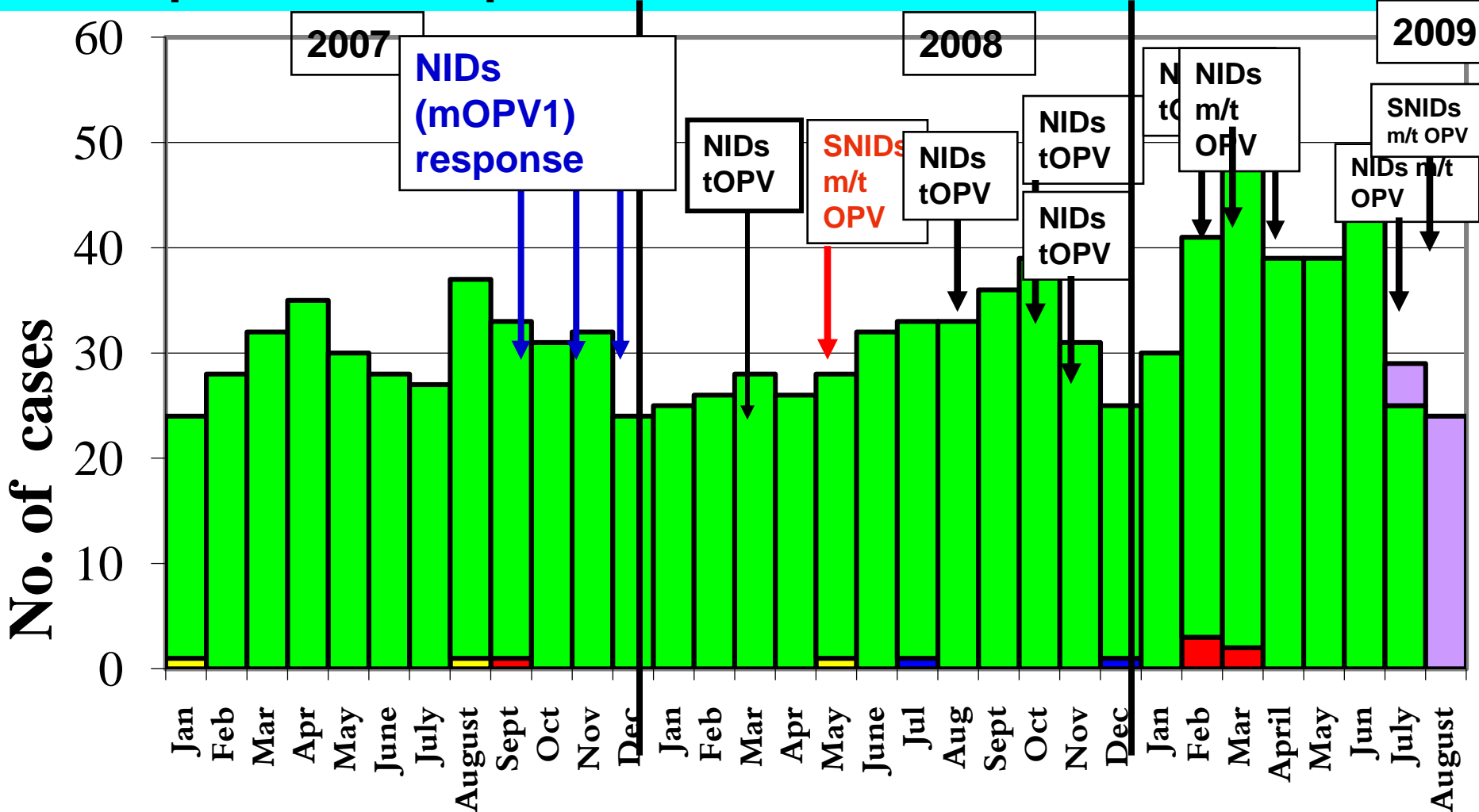


**Fig 14. (Comp. & Time) Of Zero Reports According To Reporting Sites For Northern States 2009 (week 34)**



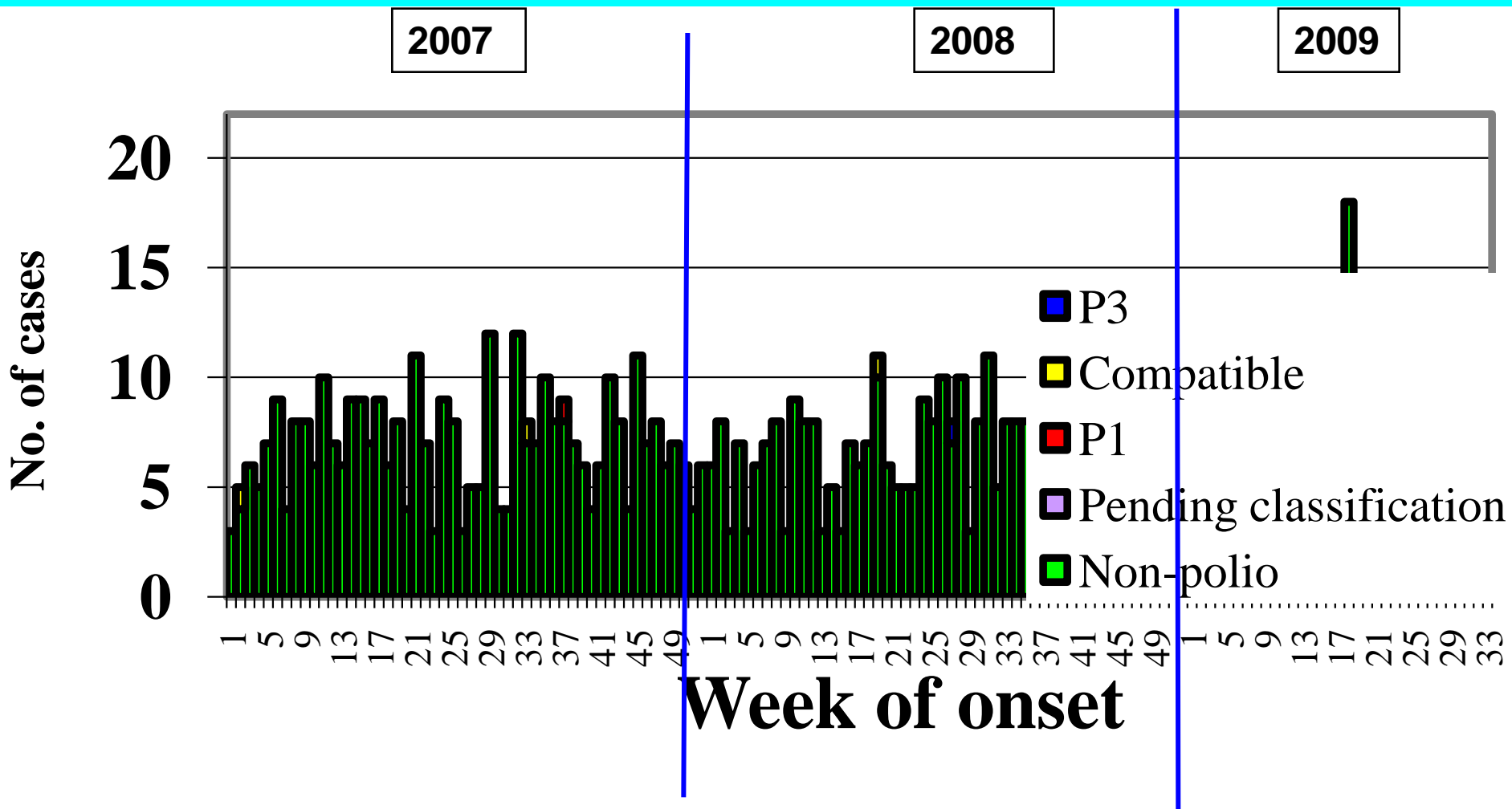
□ Completeness      ■ Timeliness

**Fig 10. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation in North SUDAN 2007-09\***



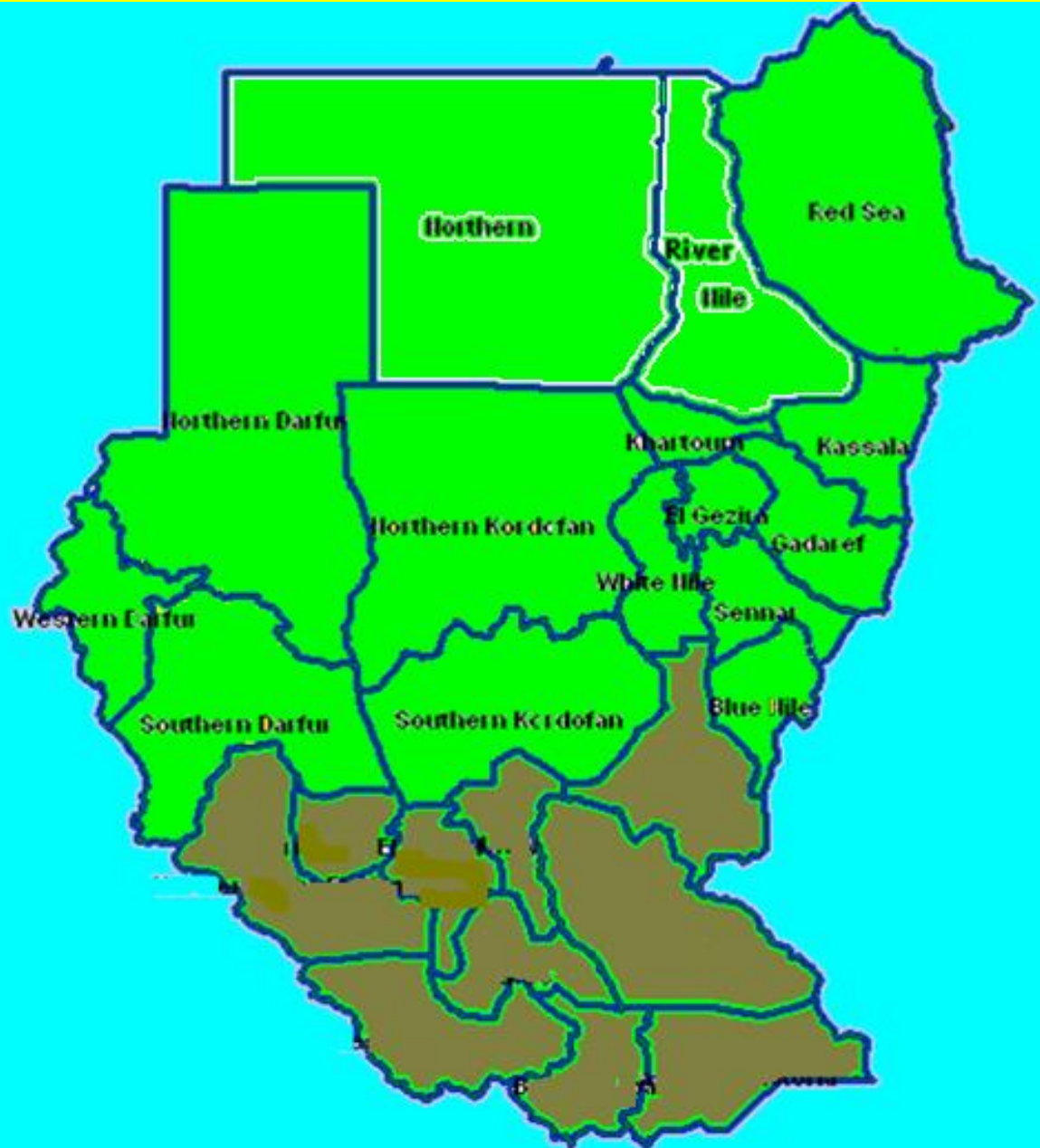
\* Up to 28/8/2009

# Fig 11. Distribution of AFP cases by classification and week of onset, North Sudan 2007 – 2009\*



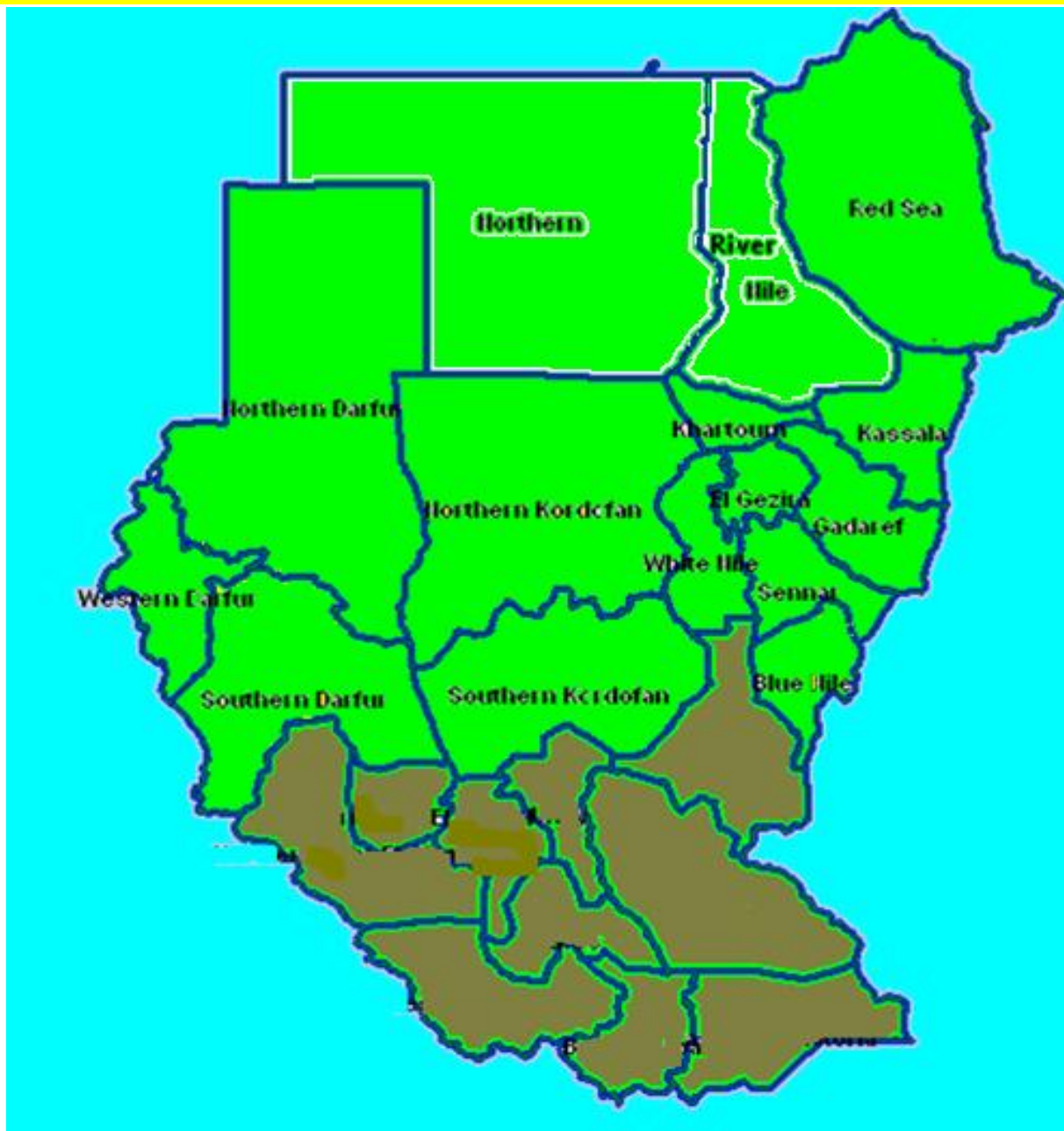
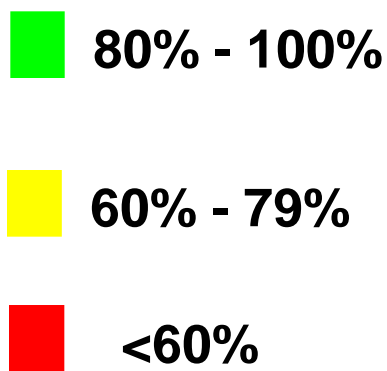
\* Up to 28/8/2009

# Map 3. Annualized non-polio AFP rate per 100,000 by state, 2009\*



Up to 28/8/2009

# Map 4. Percent distribution of AFP cases having adequate stool samples by state, 2009



Up to 28/8/2009

**Table 3. National polio lab performance indicators  
North Sudan, 2006-2009\***

Indicator	2006	2007	2008*	2009
Total AFP cases tested in NPL	305	355	361	292
Wild cases	0	1	2	5
Cases with non-polio enterovirus	19%	15%	14%	38(14%)
Sabin like viruses No. & (%) from AFP cases	10 (3.3%)	10 (5%)	(5)2%	6(2.2%)
Median days from the time of samples received in the lab to primary culture report or L20B result	18 days	14 days	14 days	10 days
Number of AFP contacts tested in the NPL	121	326	386	308
Contacts with non-polio enterovirus	12.4%	14%	8%	19(6.9%)
Sabin like viruses No. & (%) from contacts	6(5%)	1(2%)	7(1.9%)	2(0.7%)
Number of contacts with wild polio B1	0	0	0	4

**Table 4. Polio lab performance  
North Sudan up to week 34, 2008 and 2009**

<b>Week of onset</b>	<b>Total Cases</b>	<b>Cases under process</b>	<b>L20B POS</b>	<b>NPEV negative</b>	<b>NPEV positive</b>	<b>% NPEV</b>	<b>Result reported within 14days</b>	<b>Arrival within 3 days of being collected</b>	<b>Arrival within 3 days of being sent</b>
<b>Up to week 34 2008</b>	<b>228</b>	<b>0</b>	<b>0</b>	<b>198</b>	<b>30</b>	<b>13.2 %</b>	<b>91.7%</b>	<b>74%</b>	<b>98%</b>
<b>Up to week 34 2009</b>	<b>292</b>	<b>27</b>	<b>0</b>	<b>227</b>	<b>38</b>	<b>14%</b>	<b>90%</b>	<b>81.8%</b>	<b>99.6%</b>

# No. of stool samples of AFP cases received in the lab by days of the week

01/01/2009 to 24/04/2009

	No. of cases received	No, and % of cases received >3 days of collection
<b>SUN</b>	<b>30</b>	<b>18(60%)</b>
<b>MON</b>	<b>30</b>	<b>10(33.3%)</b>
<b>TUE</b>	<b>26</b>	<b>4(15%)</b>
<b>WEN</b>	<b>16</b>	<b>3(18%)</b>
<b>THU</b>	<b>21</b>	<b>1(2.4%)</b>
<b>FRI</b>	<b>0</b>	<b>0</b>
<b>SAT</b>	<b>1</b>	<b>0%</b>
<b>TOTAL</b>	<b>124</b>	<b>36(29%)</b>

**No. of stool samples of AFP cases received in the lab by days of  
the week  
25/04/2009 to 21/08/2009**

	No. of cases received	No, and % of cases received >3 days of collection
SUN	29	3(10.7%)
MON	33	5(15.1%)
TUE	18	4(22.2%)
WED	27	1(3.7%)
THU	42	1(2.3%)
FRI	2	0
SAT	21	3(14.2%)
TOTAL	173	17(9.8%)

**Thanks**