



World Health  
Organization

*Republic of Sudan*

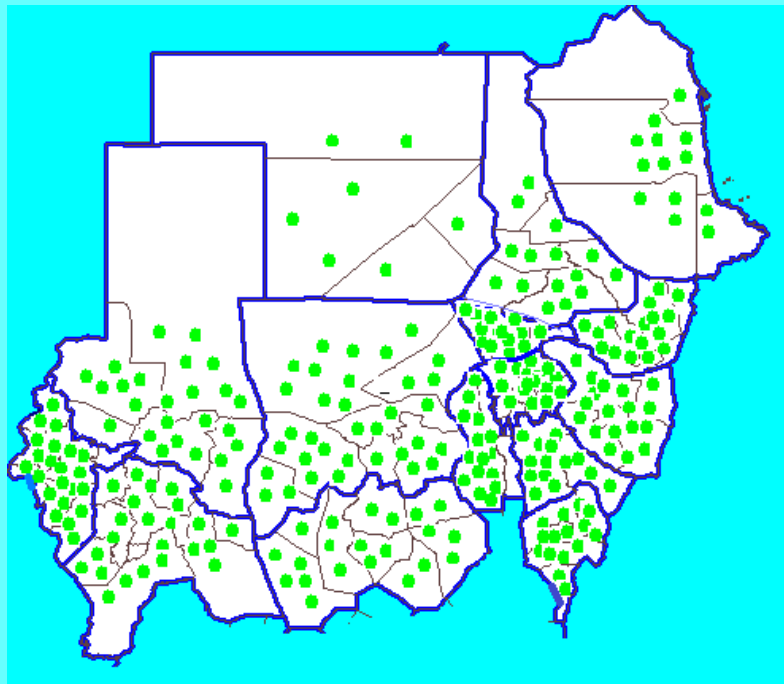


**Weekly AFP surveillance report**  
**week 52**

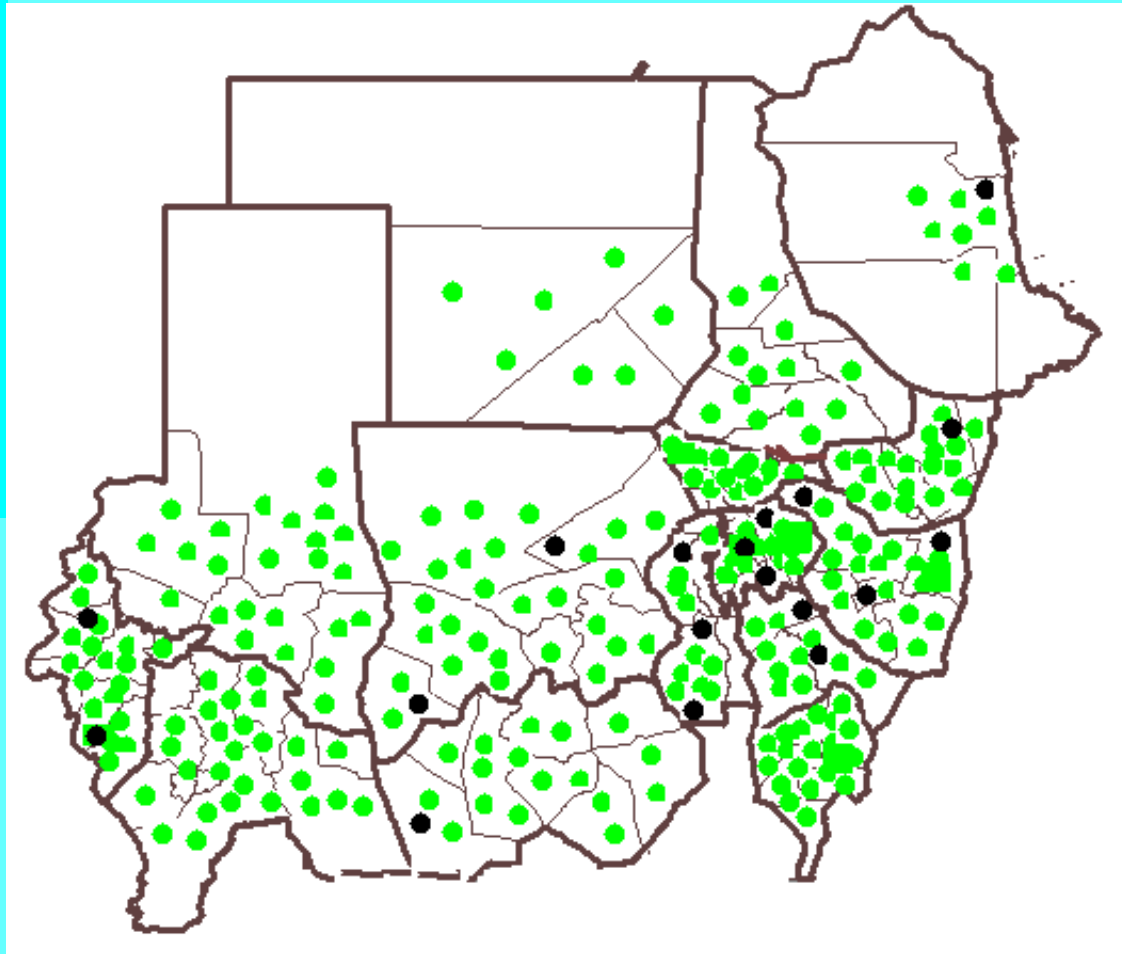
**Ending on 1 January 2012**

*AFP Surveillance central unit*

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

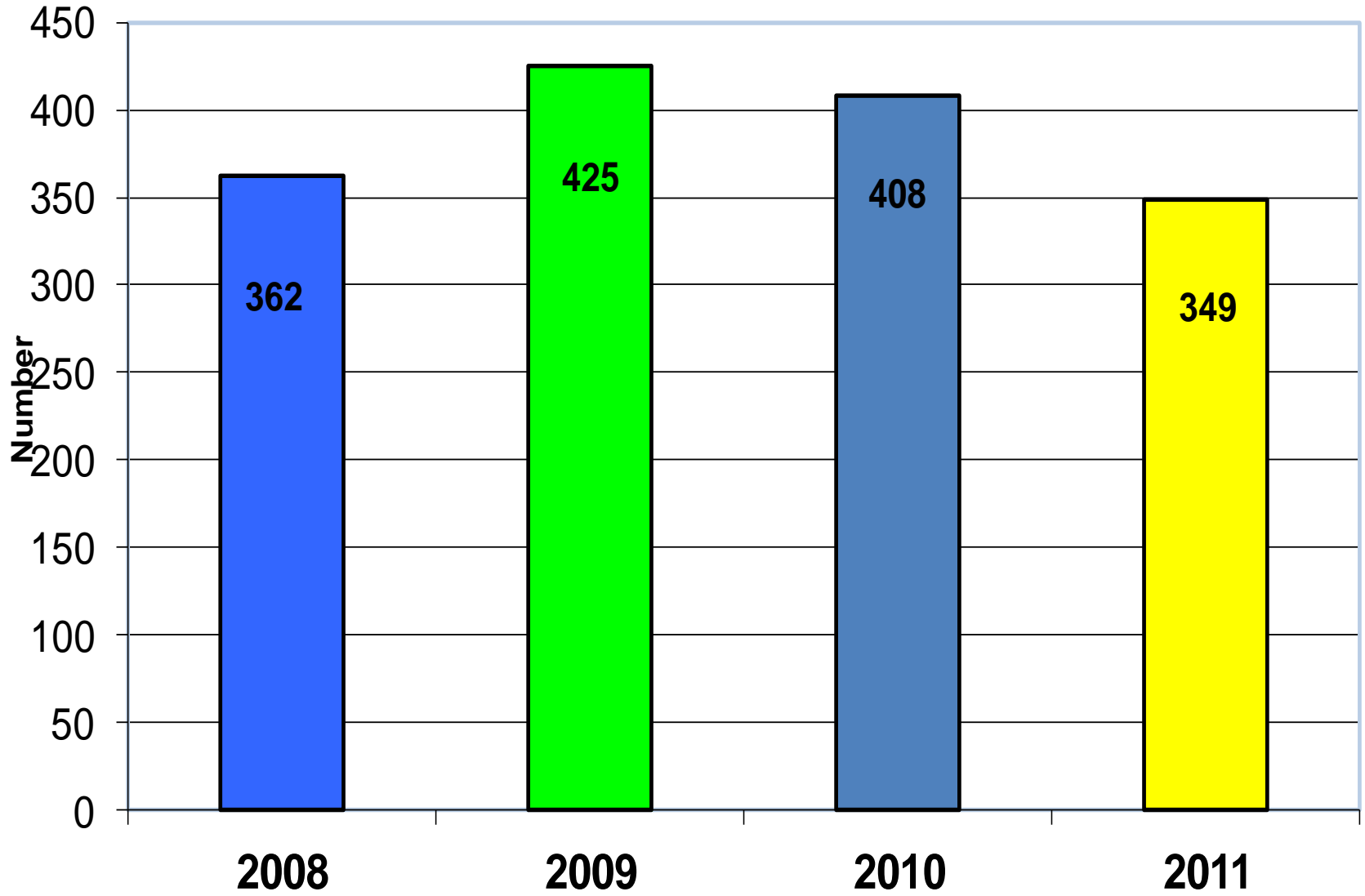


**Map 2. Distribution of AFP cases by classification, Sudan, 2011**

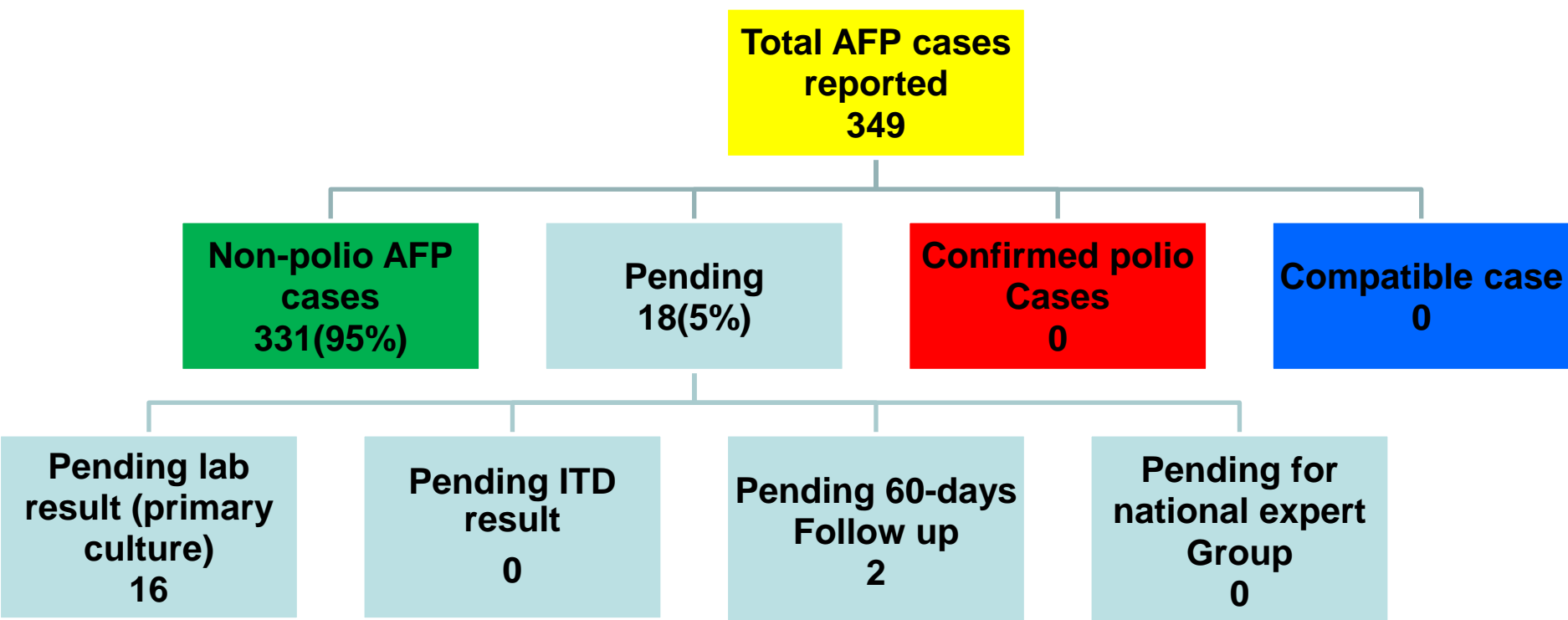


- Non-polio AFP
- Pending classification

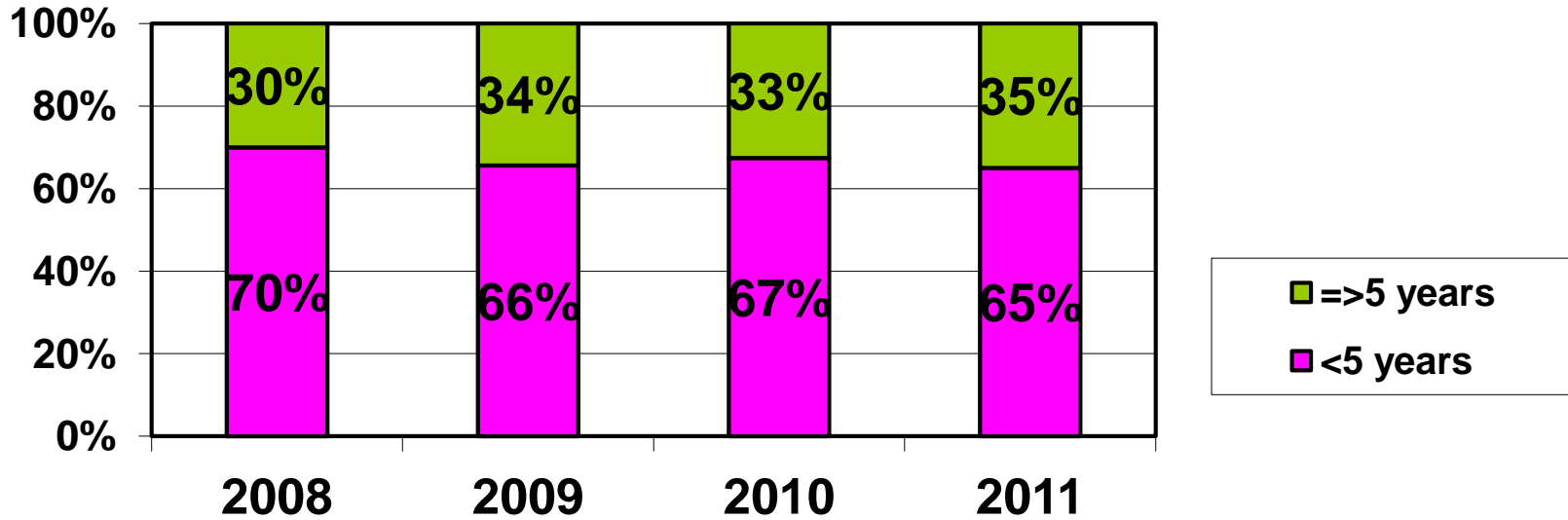
**Fig. 1: Total AFP cases  
Sudan, 2008-2011**



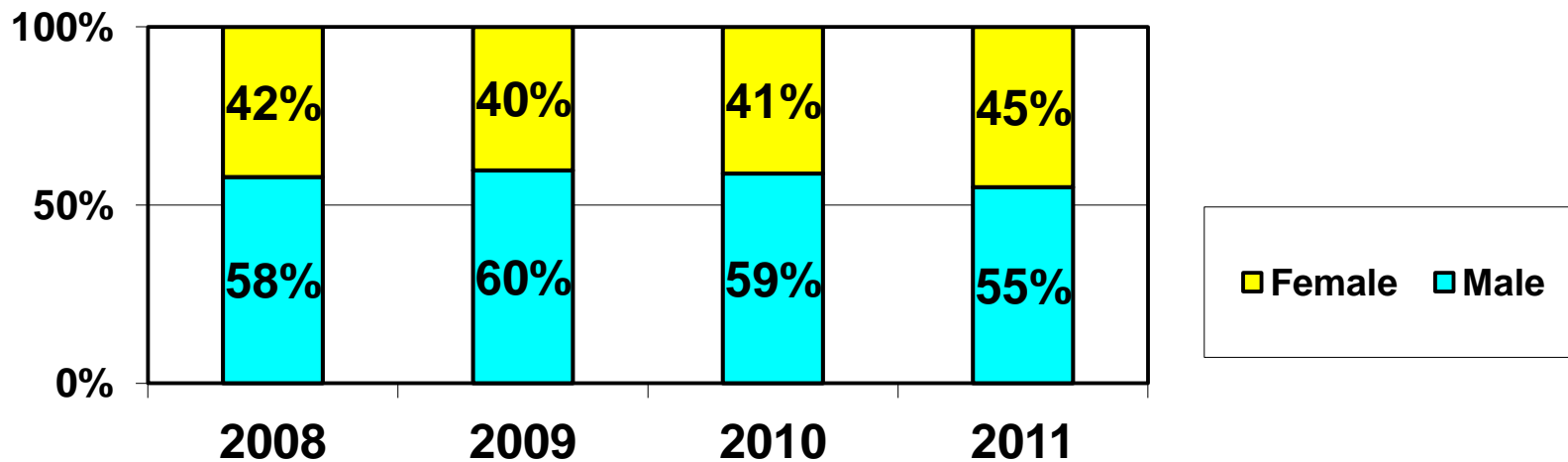
**Fig. 2: Total AFP cases by classification, Sudan, 2011**



### Fig. 3: AFP cases by age group, 2008 – 2011

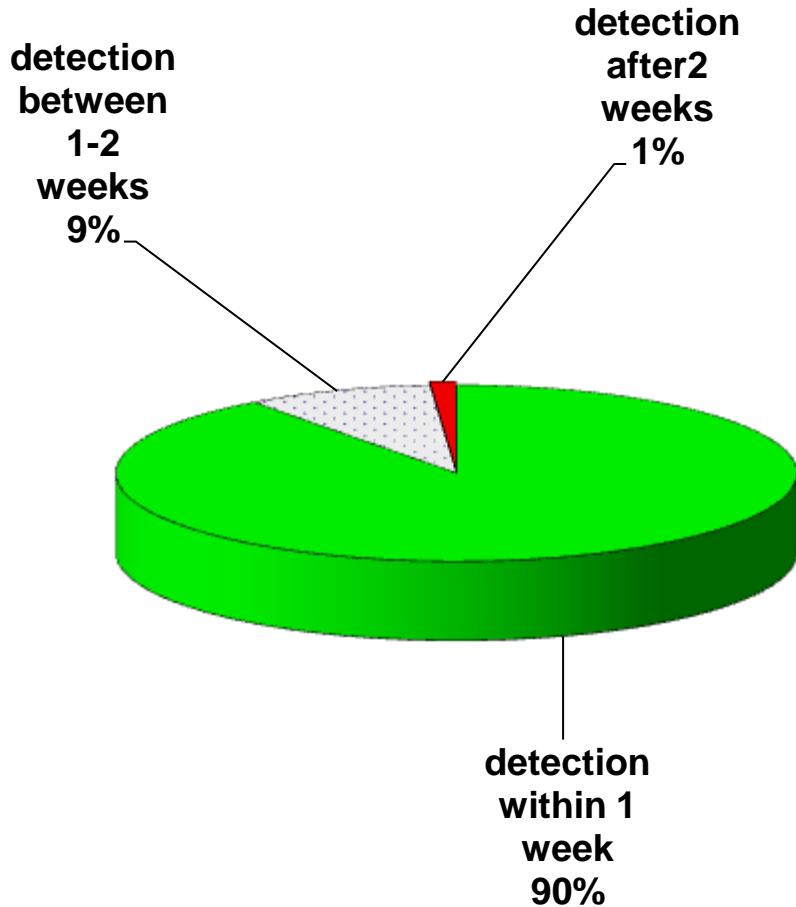


### Fig. 4: AFP cases by sex 2008 – 2011



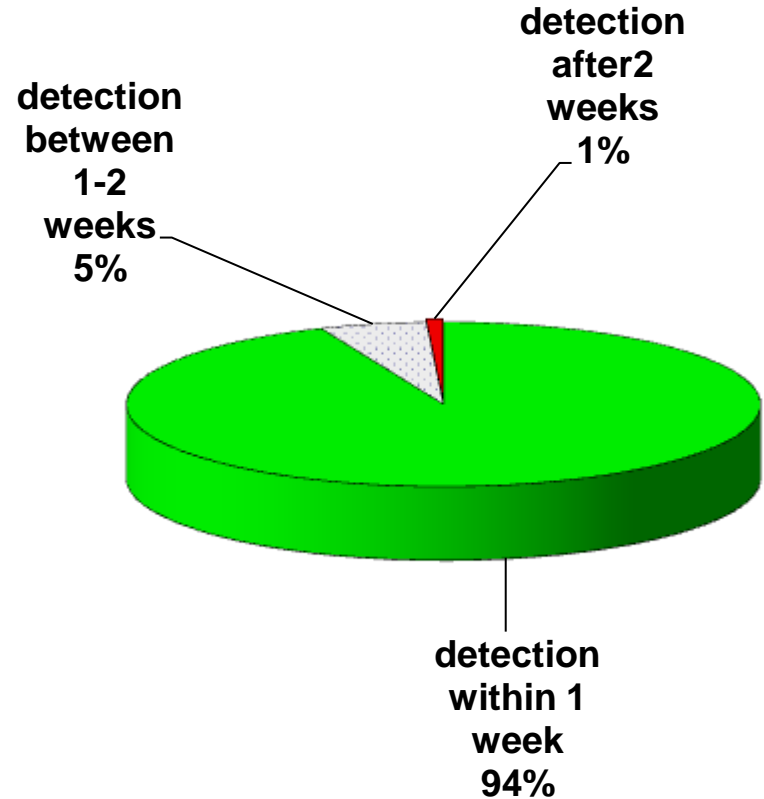
**Fig. 5: Percent distribution of AFP cases by time of detection, 2010**

**N = 408 AFP cases**

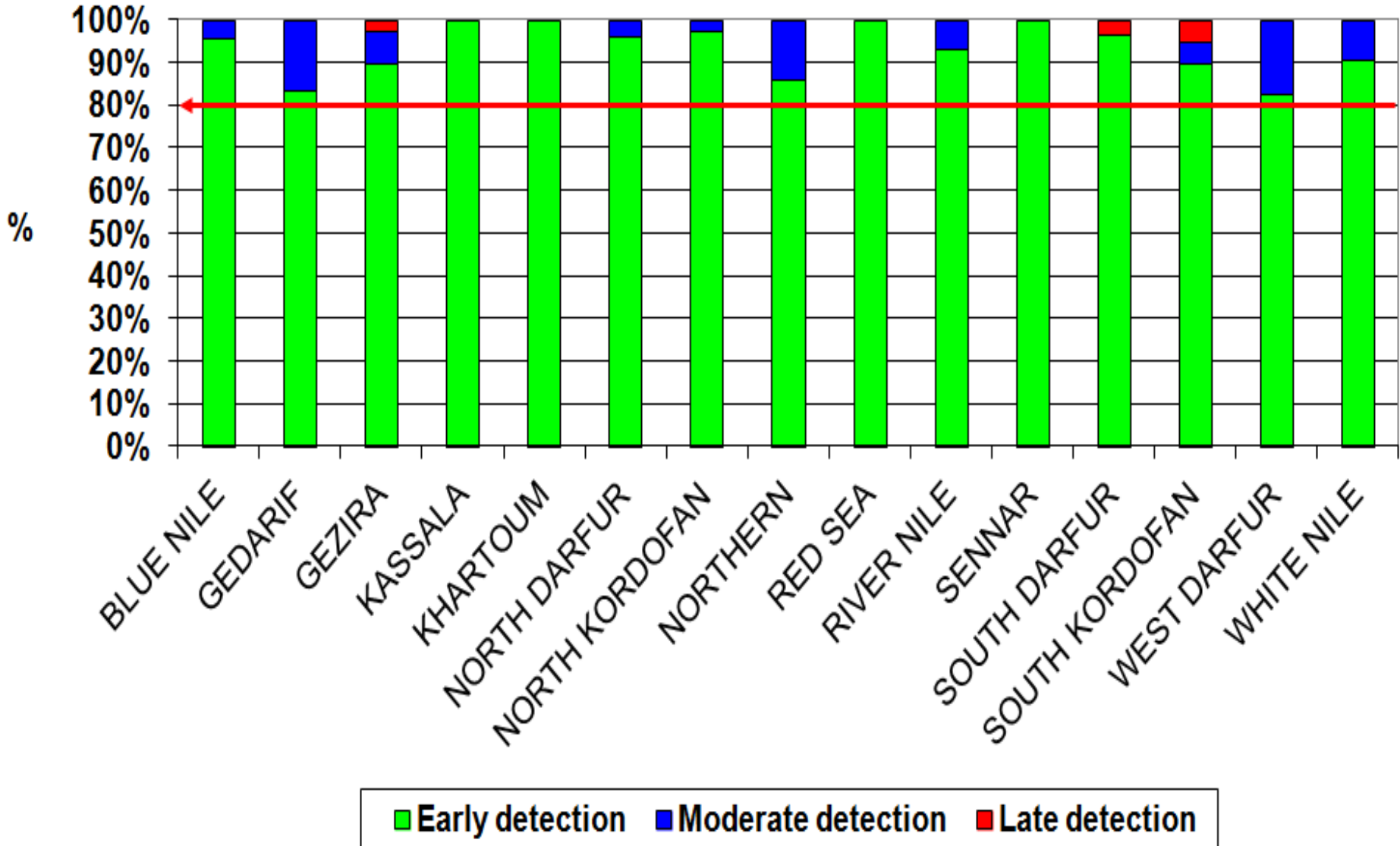


**Fig. 6: Percent distribution of AFP cases by time of detection, 2011**

**N = 349 AFP cases**



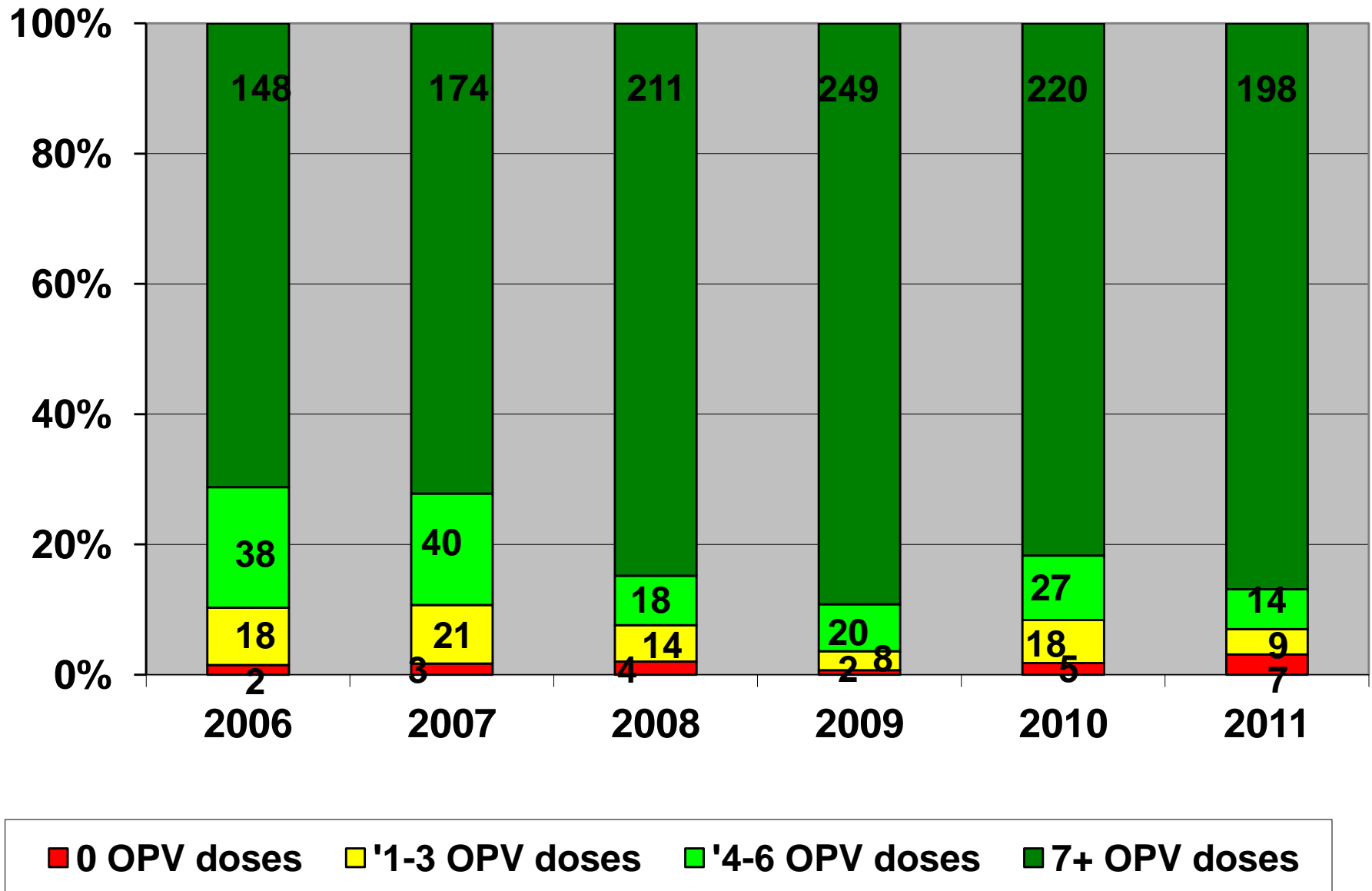
**Fig. 7: Percent distribution of AFP cases according to the timeliness of detection by states, 2011**



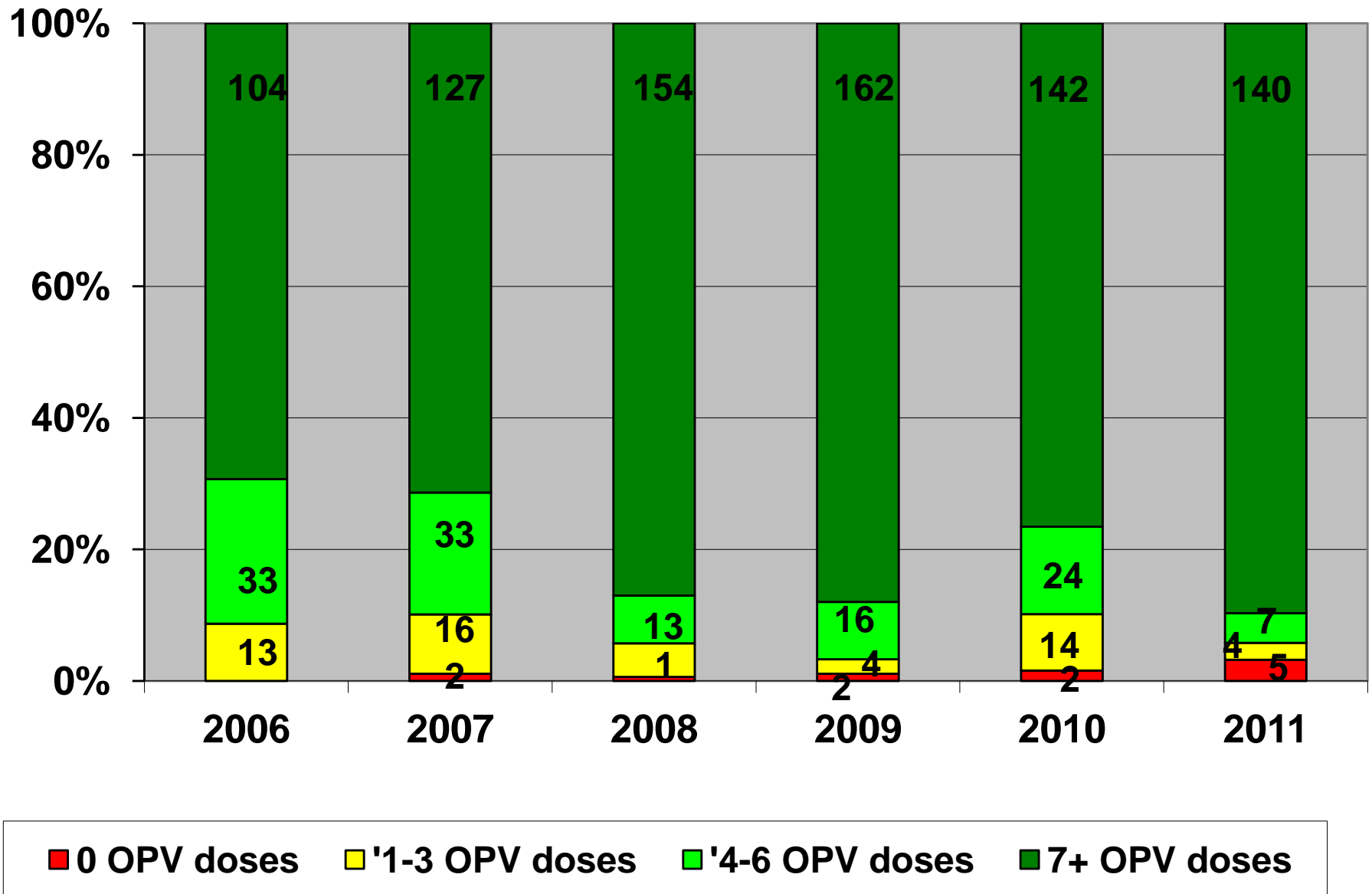
# Table 1. Major AFP surveillance performance indicators, 2011

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	23	23	0	0	0	100%	6.3	13%
Gedarif	860,364	24	21	3	0	0	96%	2.8	10%
Gezira	1,921,077	38	35	3	0	0	92%	2.0	22%
Kasala	836,195	21	20	1	0	0	100%	2.5	20%
Khartom	2,401,033	51	51	0	0	0	100%	2.1	18%
N.Darf	863,045	24	24	0	0	0	96%	2.8	17%
N.Kord	1,262,262	35	33	2	0	0	94%	2.8	9%
Northern	267,256	7	7	0	0	0	100%	2.6	29%
Red Sea	330,018	8	7	1	0	0	100%	2.4	29%
River Nile	461,734	14	14	0	0	0	93%	3.0	14%
Sennar	717,437	14	12	2	0	0	100%	2.0	8%
S.Darfur	1,747,110	27	27	0	0	0	96%	1.5	22%
S. Kord	960,789	19	18	1	0	0	95%	2.0	17%
W.Darfur	949,143	23	21	2	0	0	96%	2.4	10%
W. Nile	834,567	21	18	3	0	0	100%	2.5	11%
<b>Total</b>	<b>14,777,621</b>	<b>349</b>	<b>331</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>97%</b>	<b>2.4</b>	<b>16%</b>

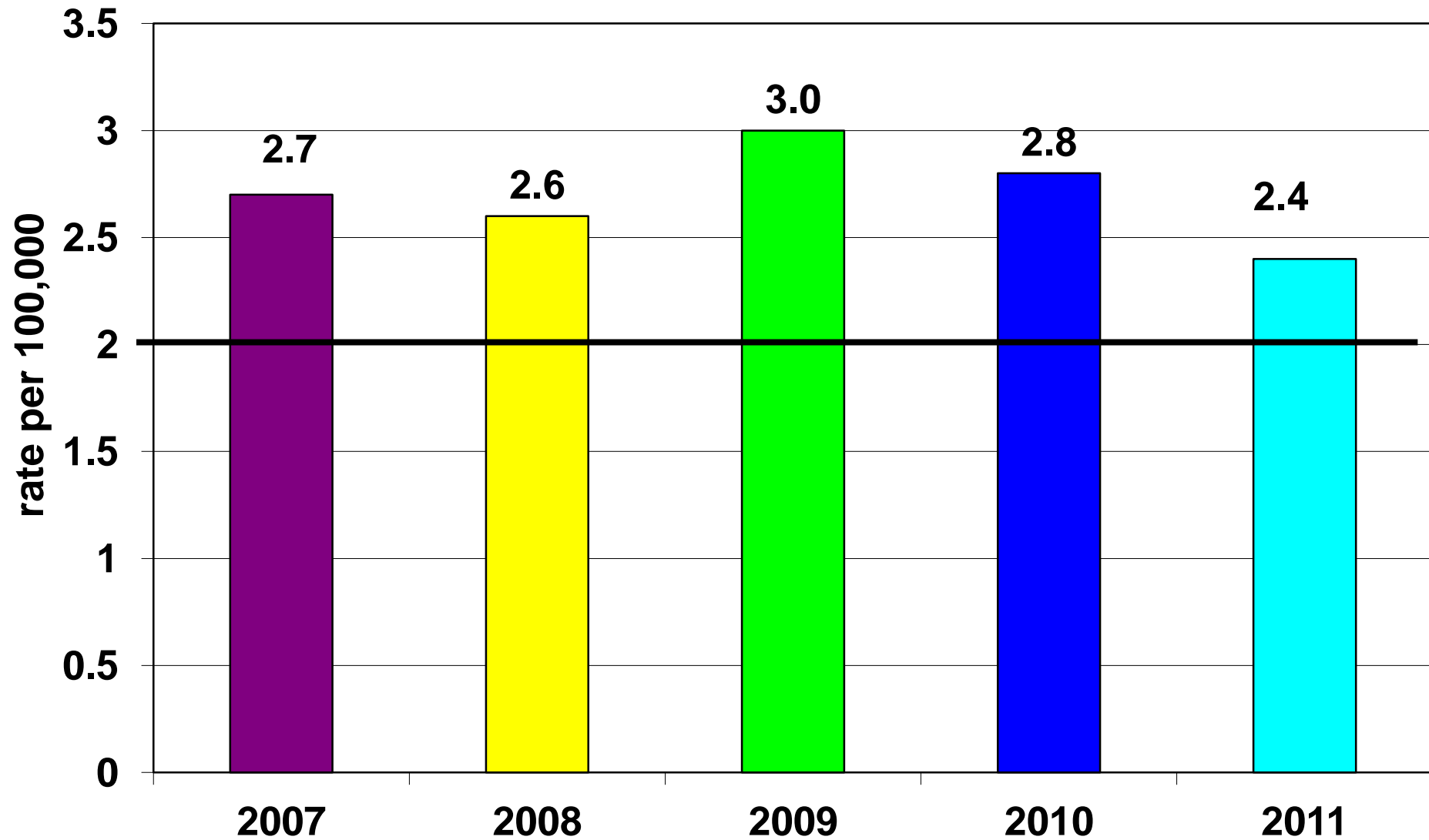
**Fig. 8: Percent distribution of AFP cases < 60 months by number of OPV doses, 2006-2011**



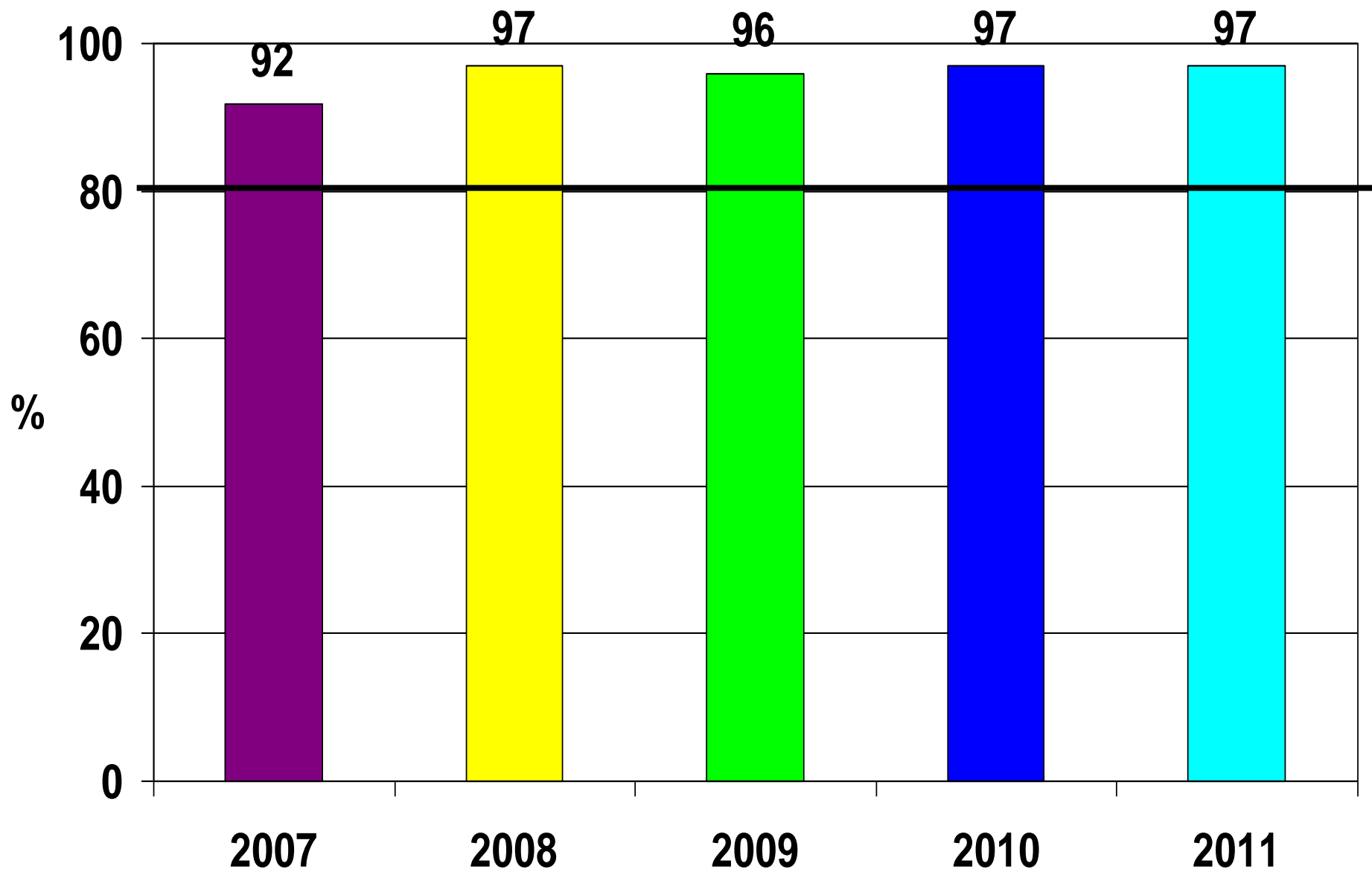
**Fig. 9: No. & percent distribution of AFP cases 6-36 months by number of OPV doses, 2006-2011**



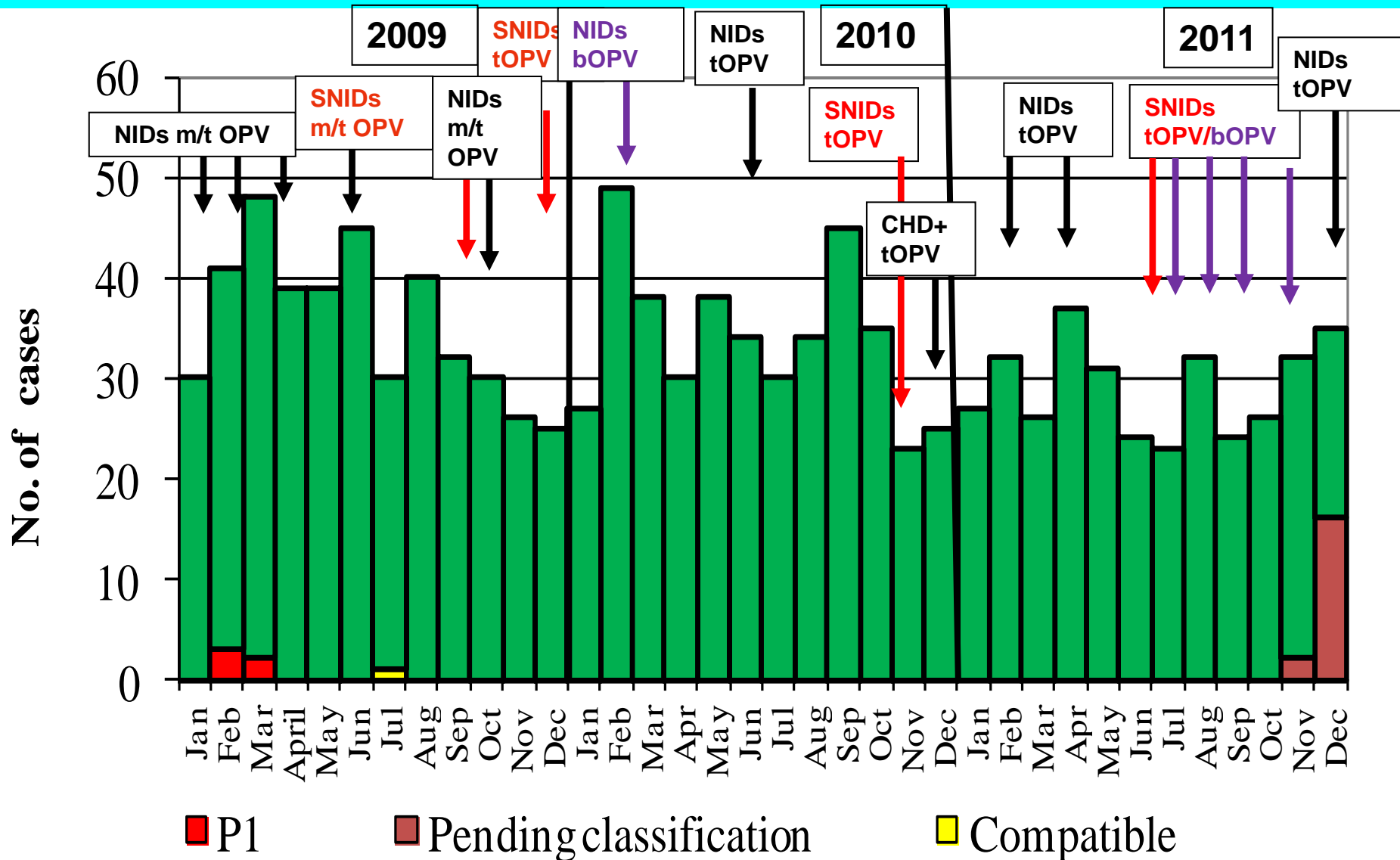
**Fig. 10: Non-Polio AFP rate per 100,000 children under 15 years of age, 2007 – 2011**



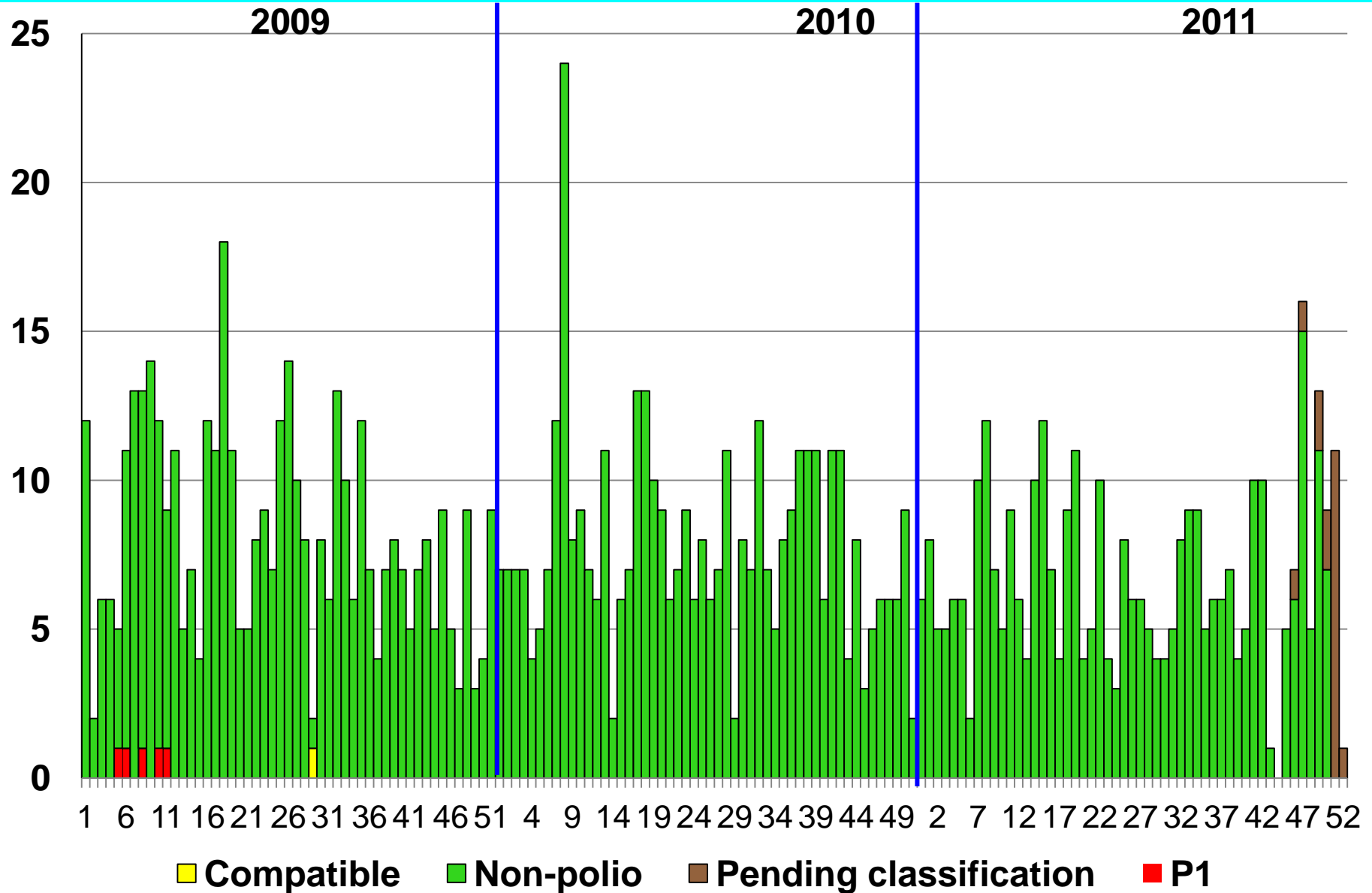
**Fig. 11: Adequate stool collection rate, 2007 – 2011**



# Fig 12. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation, 2009-2011



# Fig. 13: Distribution of AFP cases by classification and week of onset, 2009 – 2011



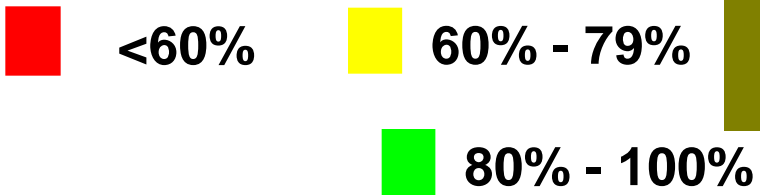
### Map 3. Non-polio AFP rate by state, 2010

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



**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**



## Table 2. National polio lab performance indicators 2009-2011

Indicator	2009	2010	2011
<b>AFP cases with samples tested in NPL</b>	<b>403</b>	<b>401</b>	<b>349</b>
<b>Cases with wild poliovirus (imported P1)</b>	<b>5</b>	<b>0</b>	<b>0</b>
<b>Cases with wild poliovirus (imported P3)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Cases with non-polio enterovirus</b>	<b>13%</b>	<b>15%</b>	<b>16%</b>
<b>SL viruses No. &amp; (%) from AFP cases</b>	<b>7(1.8%)</b>	<b>6(1.6%)</b>	<b>8(2.4%)</b>
<b>Median days from the time of samples received in the lab to primary culture report or L20B result</b>	<b>12 days</b>	<b>12days</b>	<b>12 days</b>
<b>Number of samples from the AFP contacts tested in the NPL</b>	<b>473</b>	<b>247</b>	<b>217</b>
<b>Contacts with non-polio enterovirus</b>	<b>8.6%</b>	<b>14%</b>	<b>10%</b>
<b>Sabin like viruses No. &amp; (%) from contacts</b>	<b>4(0.9%)</b>	<b>0</b>	<b>5(2.7%)</b>
<b>NSL like viruses from contacts</b>	<b>3</b>	<b>0</b>	<b>0</b>

## Table 3. Polio lab performance 2009 - 2011

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 from the 2 <sup>nd</sup> sample	Arrival within 3 days of being sent from the 2 <sup>nd</sup> sample
2009	403	5	0	347	51	13%	90%	78%	97%
2010	401	8	0	333	60	15%	94%	84%	99%
2011	349	16	0	280	53	16%	91%	88%	100%

# Fig. 14: AFP Specimens' median timeliness NPL 2009-2011

