



**World Health
Organization**

**Weekly
AFP Surveillance Update
Pakistan**

Week 18 (*Ended on 4th May, 2013*)

***National Surveillance Cell
Federal EPI***

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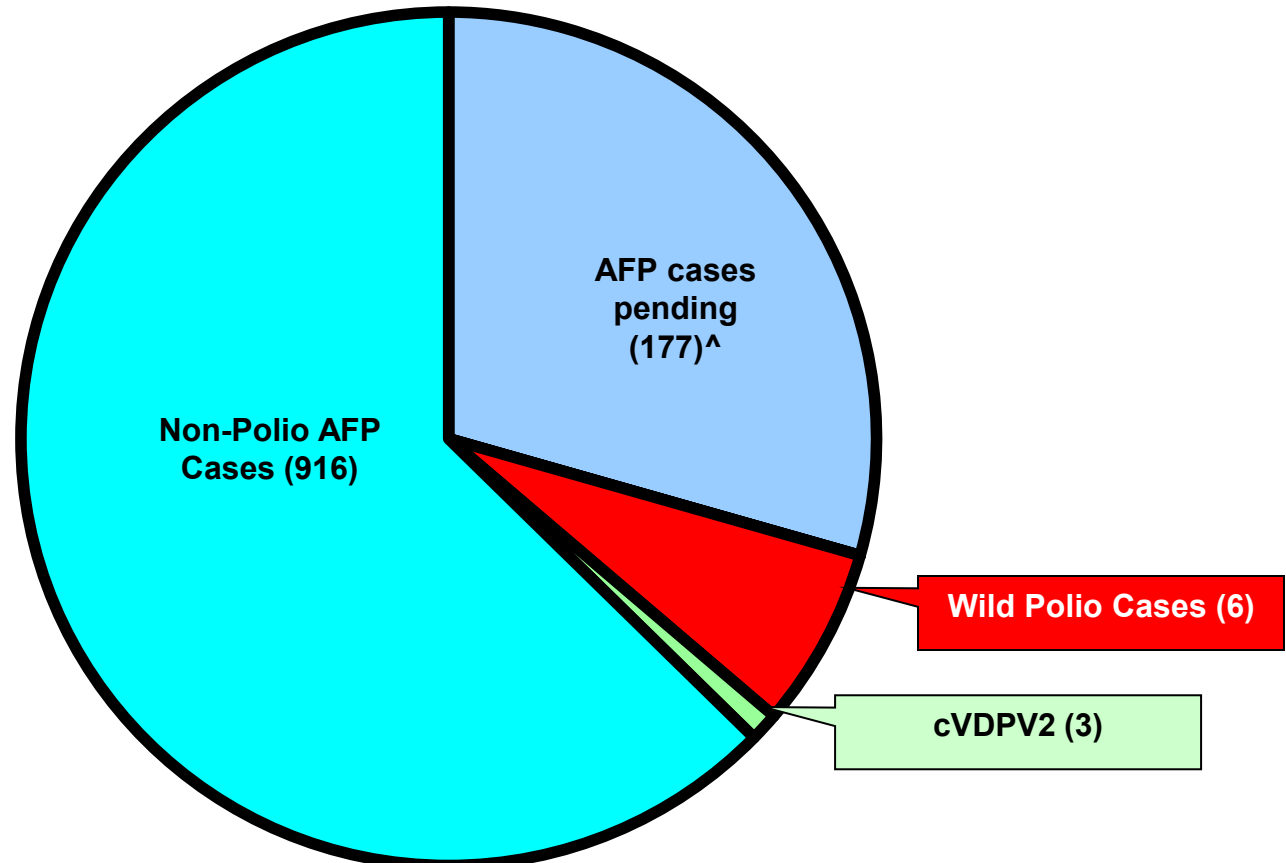
Email: epidata@pak.emro.who.int

Web site: www.who.gov.pk

AFP Surveillance



AFP Case Profile, 2013*



Total AFP Cases Reported = 1102

[^]32 Inadequate cases pending classification by ERC;
[^]40 Inadequate cases not due for FUP
[^]105 Pending in the Lab

Comparison of polio cases by province/region 2012§ & 2013*

Region/ Province	No. of polio cases		No. of infected districts/towns		Last polio case
	2012	2013	2012	2013	
Khyber Pakhtunkhwa	4	3	4	3	12-Feb-13
FATA / FR Areas	7	-	2	-	10-Nov-12
Sindh	2	2	2	2	22-Mar-13
Balochistan	2	-	1	-	30-Nov-12
Punjab	1	1	1	1	7-Feb-13
Pakistan	16	6	10	6	22-Mar-13

Five additional districts/town declared infected based on environmental samples 2013

Total polio cases of 2012 are 58

* Afp.rec Data as of 02-05-2013

§Based on date of onset

Table 2: LAB Update 2013*

Month of Onset	AFP Cases	No virus isolated	Cases Under Process		Isolated Viruses from stools						
			Culture	ITD	Vaccine viruses		NPEV		Wild	Results within 14 days	
			n	n	n	%	n	%	n	n	%
January	333	274	0	0	19	6	38	11%	2	333	100%
February	330	286	0	0	15	5	26	8%	3	330	100%
March	307	246	1	0	7	2	52	17%	1	306	100%
April	253	124	75	0	11	4	43	17%	0	178	70%
Pakistan	1223	930	76	0	52	4	159	13%	6	1147	94%

* Data as of 06-05-2013

Table 3: Urgent Pending Cases*

S. No.	District	Tehsil	Epid	Onset	Age	Sex	OPV doses	Date of last OPV dose	Urgent		LAB NO.	Date of first stool collection	Culture-update
									By Field	¥ NSC Criteria			
1	WAZIR-N	MEER ALI	FT/64/13/005	22-Apr-13	36	M	2	31-Dec-11	N	Y	1495	25-Apr-13	SL2
2	WAZIR-N	MIRAN SHAH	FT/64/13/006	25-Apr-13	10	F	0		Y	Y	1524	27-Apr-13	SL2
3	MARDAN	MARDAN	KP/40/13/026	22-Apr-13	8	M	0	16-Jun-12	Y	Y	1511	29-Apr-13	L20B+

Waiting for rRTPCR for VDPVs

Urgent on both criteria

* Data as of 06-05-2013

¥ NSC Criteria = Fever , Rapid Progress, Age < 48 months and OPV Doses < 7

€ Based on recall of parents

Table 4: List of samples pending for ITD*

S. No.	DISTRICT / AGENCY / TOWN	TEHSIL / TALUKA	EPID	DONSET	AGE (m)	SEX	OPV Doses€	Date of last OPV dose	Urgent by Field	¥ NSC Criteria	LAB NO.	Date of first stool collection	rRT-PCR
1	KHYBER	BARA	FT/34/13/008	24-Apr-13	10	M	#	NM	N	N	1513	27-Apr-13	UP
2	WAZIR-N	MIR ALI	FT/64/13/005	22-Apr-13	36	M	2	31-Dec-11	N	Y	1495	25-Apr-13	SL2
3	WAZIR-N	MIRAN SHAH	FT/64/13/006	25-Apr-13	10	F	0	-	Y	Y	1524	27-Apr-13	SL2
4	ICT	ICT	IB/02/13/003	10-Apr-13	40	M	7+	16-Oct-12	N	N	1481	22-Apr-13	UP
5	BATAGRAM	ALAI	NW/11/13/002-C1	-	60	M	-	15-Apr-13	N	N	1453	20-Apr-13	SL2
6	MARDAN	MARDAN	NW/40/13/026	22-Apr-13	8	M	0	-	Y	Y	1511	27-Apr-13	UP
7	MULTAN	MULTAN	PB/61/13/033	19-Apr-13	40	M	7+	20-Apr-13	N	N	1515	26-Apr-13	UP
8	PAKPATTEN	PAKPATTEN	PB/66/13/006	24-Apr-13	30	M	#	17-Apr-13	N	N	1523	26-Apr-13	SL2
9	DGKHAN	DGKHAN	PB/81/13/038	20-Apr-13	26	M	7+	16-Apr-13	N	N	1527	26-Apr-13	UP
10	DGKHAN	DGKHAN	PB/81/13/039	19-Apr-13	30	M	7+	15-Apr-13	N	N	1528	27-Apr-13	SL3
11	MIRPURKHAS	SINDHRI	SD/31/13/016	12-Apr-13	42	M	7+	19-Feb-13	N	N	1417	19-Apr-13	P2
INDEX CASE													
7	BATAGRAM	BATAGRAM	NW/11/13/002	6-Apr-13	48	M	7+	28-Jan-13	N	N	1440	15-Apr-13	

Discordant, waiting for genomic sequencing

Urgent on both criteria

Inadequate Stool: Index specimen or contact positive on L20B cell line

Waiting for rRTPCR for VDPVs

UP= Under process

UK = Un-Known

Data Not Available

* Data as of 06-05-2013

¥ Fever, Rapid Progression, Age < 48months & Doses < 7

€ Based on recall of parents

Summary of Laboratory data for Environmental Surveillance- Pakistan (Jan 2011 to date)

Report for Epidemiological week= 18 (28 April – 04 May, 2013)

S.No.	Sites	Total Samples	WPV1 2011	WPV3 2011	WPV1 2012	Epidemiological Weeks																																																			
						2011													2012													2013																									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52						
Punjab		212	51	30	2																																																				
LAHORE																																																									
1	LHR-Gulshan Raii Station	28	5	5																																																					
2	LHR-Multan Road Station	28	7	6																																																					
3	LHR-Outfall Pump Station	28	7	7																																																					
MULTAN																																																									
4	Multan-Suraj Miani, SM-1	28	9	1																																																					
5	Multan-Ali Town, AF-1	28	6	2																																																					
6	Multan-Kotla A. Fateh, KF-1	28	6	1																																																					
RAWALPINDI																																																									
7	RWP-Safdarabad, SA-1	28	11	7	1																																																				
FAISALABAD																																																									
8	COMPOSITE SITE, Pump Station	8	0	1	1																																																				
9	Ismail City Road	8	0	0	Started in 2012																																																				
Sindh		202	46	34	3																																																				
GULSHAN-E-IOBAL																																																									
10	KHI-Gi-Chakora Nulla	28	6	3																																																					
11	KHI-Gi-Rashid Minhas Rd	28	8	1																																																					
GADDAAP																																																									
12	KHI-Gadgaap-Composite site	28	11	6																																																					
13	KHI-Gadgaap-Sohrab Goth	27	10	10	1																																																				
BALDIA																																																									
14	KHI-Baldia-Sajan Goth	28	4																																																						
15	KHI-Baldia-Composite	28	7	1																																																					
SUKKUR																																																									
16	SUK-Miani P.Station-Sukkur city	13	4																																																						
17	SUK-Makka P.Station-N.Sukkur	12	3	Started in 2012																																																					
HYDERABAD																																																									
18	HYD-Tulidas P. Station	10	6	4																																																					
Khyber Pakhtunkhwa		56	19	20	6																																																				
PESHAWAR																																																									
19	PWR-Shahen Town, ST-1	28	11	11	3																																																				
20	PWR-Lara Ma, LM-1	28	8	9	3																																																				
Balochistan		63	20	4	1																																																				
QUETTA																																																									
21	Quetta-Jattak Kili, IT-1	27	11	2																																																					
22	Quetta-Jam-e-Safia, IS-1	28	9	2																																																					
23	Quetta-Surpul, SP-1	8	Started in 2012																																																						
Pakistan		533	136	88	14																																																				

- Wild poliovirus type 1 (WPV1)
- Wild poliovirus type 3 (WPV3)
- ■ Mixture WPV1 & WPV3
- No WPV Isolated
- Under process
- X Scheduled sampling, sample not collected
- No sampling scheduled

SUMMARY

Total Sites = 23

Total Samples Collected (2011-2012-2013) = 533

Total Samples with results available = 516

Total samples positive for Wild PV (2011-2012-2013) = 238 (136+88+14) (WPV1= 238)

Data source Polio RRL

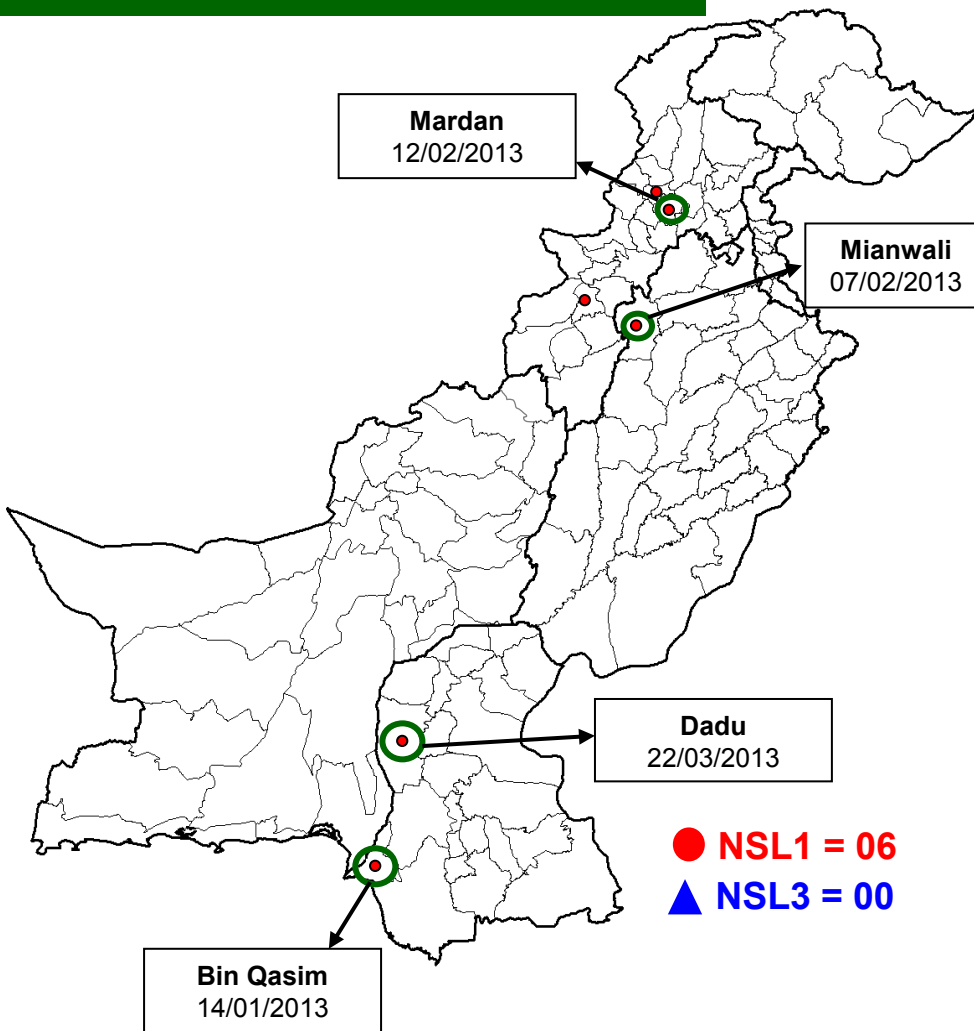
Comparison environmental sampling results 2012-13*

District/ Town	2012			2013*			Last Isolate
	Total	Wild		Total	Wild		
Lahore	11	8	73%	10	0	0%	20-Nov-12
Multan	10	3	30%	10	0	0%	18-Jun-12
Rawalpindi	3	2	67%	3	1	33%	25-Mar-13
Faisalabad	Sampling started week 36			7	1	14%	03-Jan-13
G IQbal	7	1	14%	7	0	0%	04-Oct-12
Gadap	7	4	57%	6	1	17%	29-Jan-13
Baldia	7	0	0%	6	0	0%	10-Jul-12
Sukkur	Sampling started week 17			7	0	0%	05-Sep-12
Hyderabad	Sampling started week 28			4	4	100%	10-Apr-13
Peshawar	7	7	100%	6	6	100%	26-Mar-13
Quetta	7	2	29%	7	1	14%	20-Feb-13
Total	59	27	46%	73	14	19%	10-Apr-13

* Comparison of samples till week 15 of both years with available results

Map1: Distribution of Wild Polio cases Pakistan 2013*

Districts/ Towns with Wild Polio cases = 6



Province/ Country	Date of Last Case		Number of cases 2013	
	P1	P3	P1	P3
PUNJAB	Feb, 2013	Jun, 2010	1	-
SINDH	Mar, 2013	Jan, 2010	2	-
KHYBER- PAKHTUNKHWA	Feb, 2013	Oct, 2010	3	-
FATA	Nov, 2012	Apr, 2012	-	-
BALUCHISTAN	Oct, 2012	Apr, 2010	-	-
AJK	-	Jun, 2000	-	-
GILGIT-BALTISTAN	Aug, 2012	-	-	-
ISLAMABAD	Sep, 2008	Sep, 2008	-	-
PAKISTAN	Mar, 2013	Apr, 2012	6	-

○ District with last polio case in province

Cases randomly placed
in districts

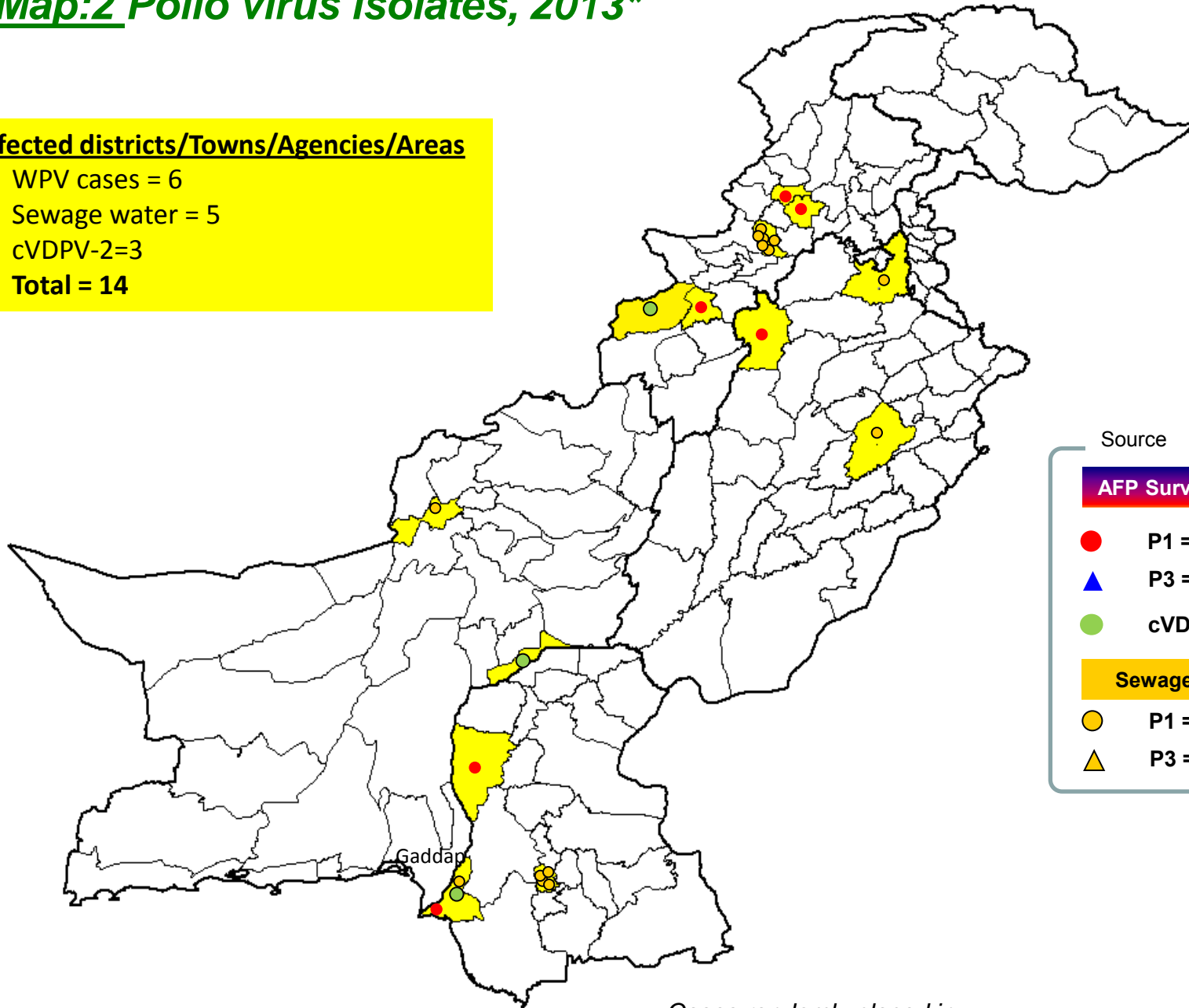
— Provincial Boundary
— Districts Boundary

* Afp.rec Data as of 02-05-2013

Map:2 Polio virus isolates, 2013*

Infected districts/Towns/Agencies/Areas

- WPV cases = 6
- Sewage water = 5
- cVDPV-2=3
- Total = 14**



Source

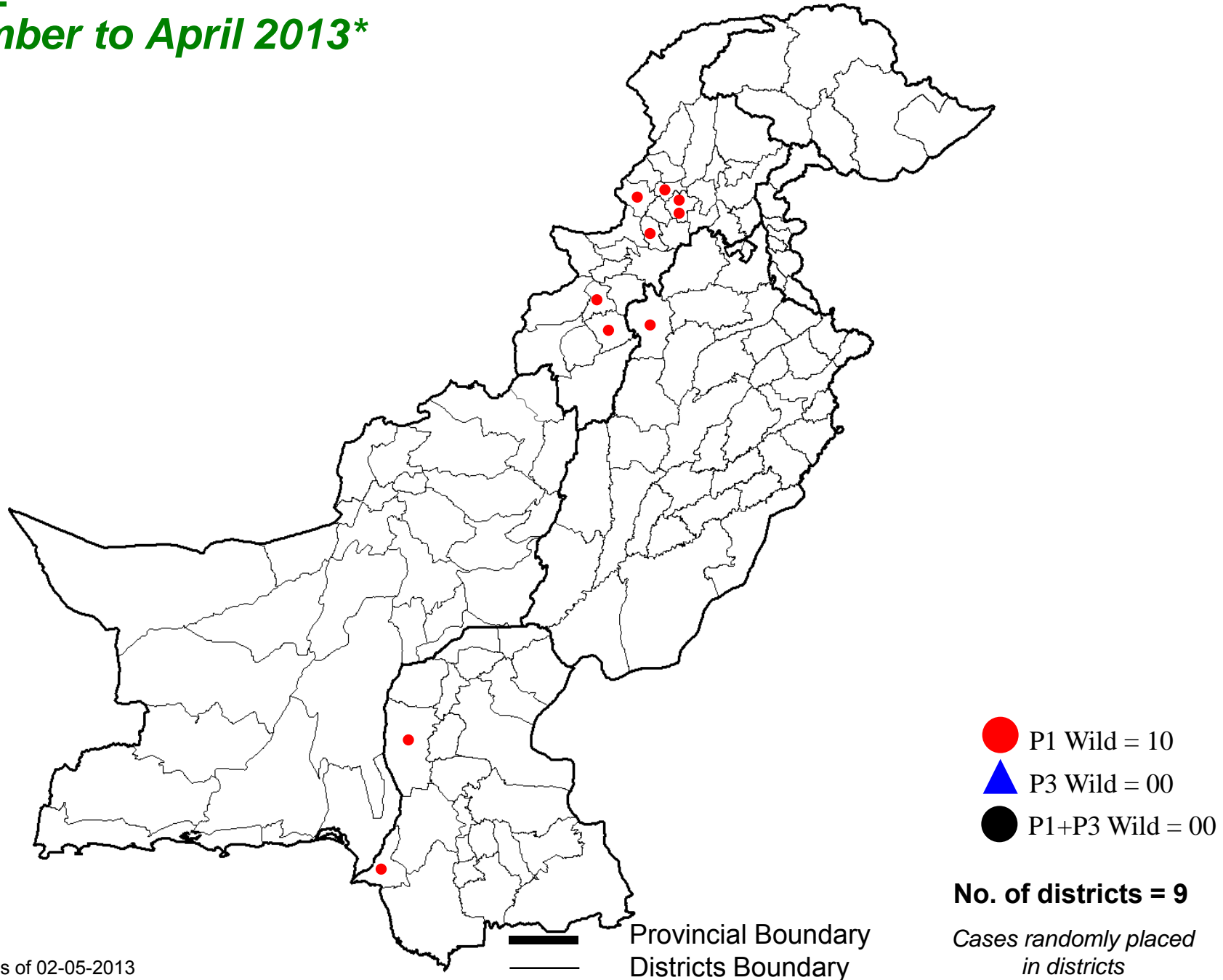
AFP Surveillance	
●	P1 = 06
▲	P3 = 0
●	cVDPV-2 = 3
Sewage water	
●	P1 = 14
▲	P3 = 0

Cases randomly placed in districts

— Provincial Boundary
— Districts Boundary

* Afp.rec Data as of 02-05-2013

Map 3: Wild Polio cases in the last 6 months from November to April 2013*

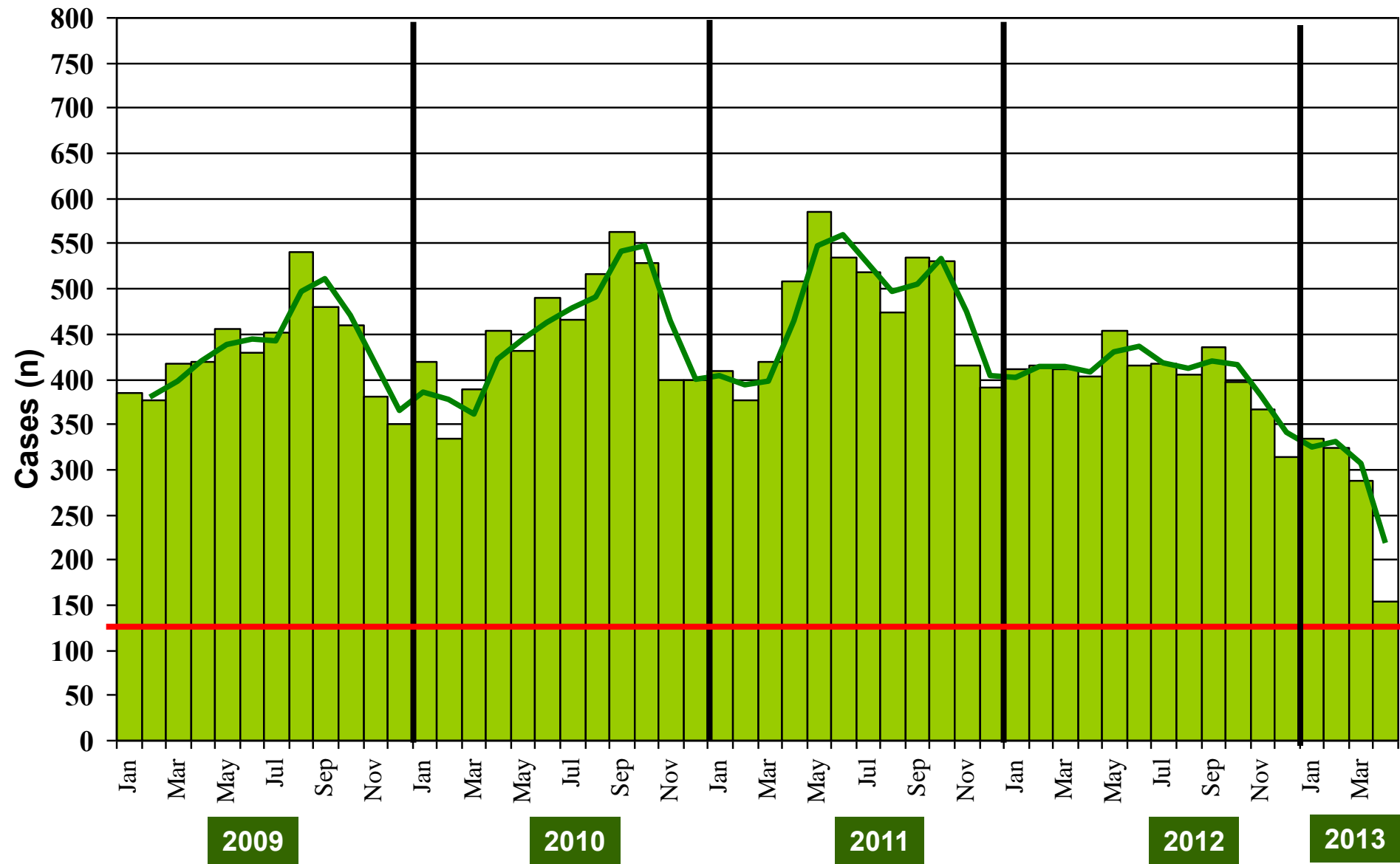


* Afp.rec Data as of 02-05-2013

**Table 5: Distribution of AFP Cases By Week of Onset ^
Pakistan 2012-2013* [Week number/Ending on]**

PROVINCE	W 3 19 Jan 2013	W 4 26 Jan 2013	W 5 02 Feb 2013	W 6 09 Feb 2013	W 7 16 Feb 2013	W 8 23 Feb 2013	W 9 02 Mar 2013	W 10 09 Mar 2013	W 11 16 Mar 2013	W 12 23 Mar 2013	W 13 30 Mar 2013	W 14 06 Apr 2013	W 15 13 Apr 2013	W 16 27 Apr 2013	W 17 02 May 2013
PUNJAB	42	35	33	50	39	48	45	44	40	38	33	41	28	48	11
SINDH	15	16	9	19	19	17	21	17	12	22	12	13	15	8	1
KP	14	16	13	11	18	11	13	12	13	12	7	12	11	15	2
FATA	2	2	1	1	3	0	3	1	2	1	1	1	3	0	3
BALUCHISTAN	0	1	3	2	1	2	2	4	0	1	3	1	3	3	0
AJK	3	2	0	1	3	2	0	0	1	0	1	1	1	0	0
GILGIT/ BILTISTAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ISLAMABAD	1	1	0	1	1	1	0	0	1	0	0	0	1	0	1
PAKISTAN	77	73	59	85	84	81	84	78	69	74	57	69	62	74	18

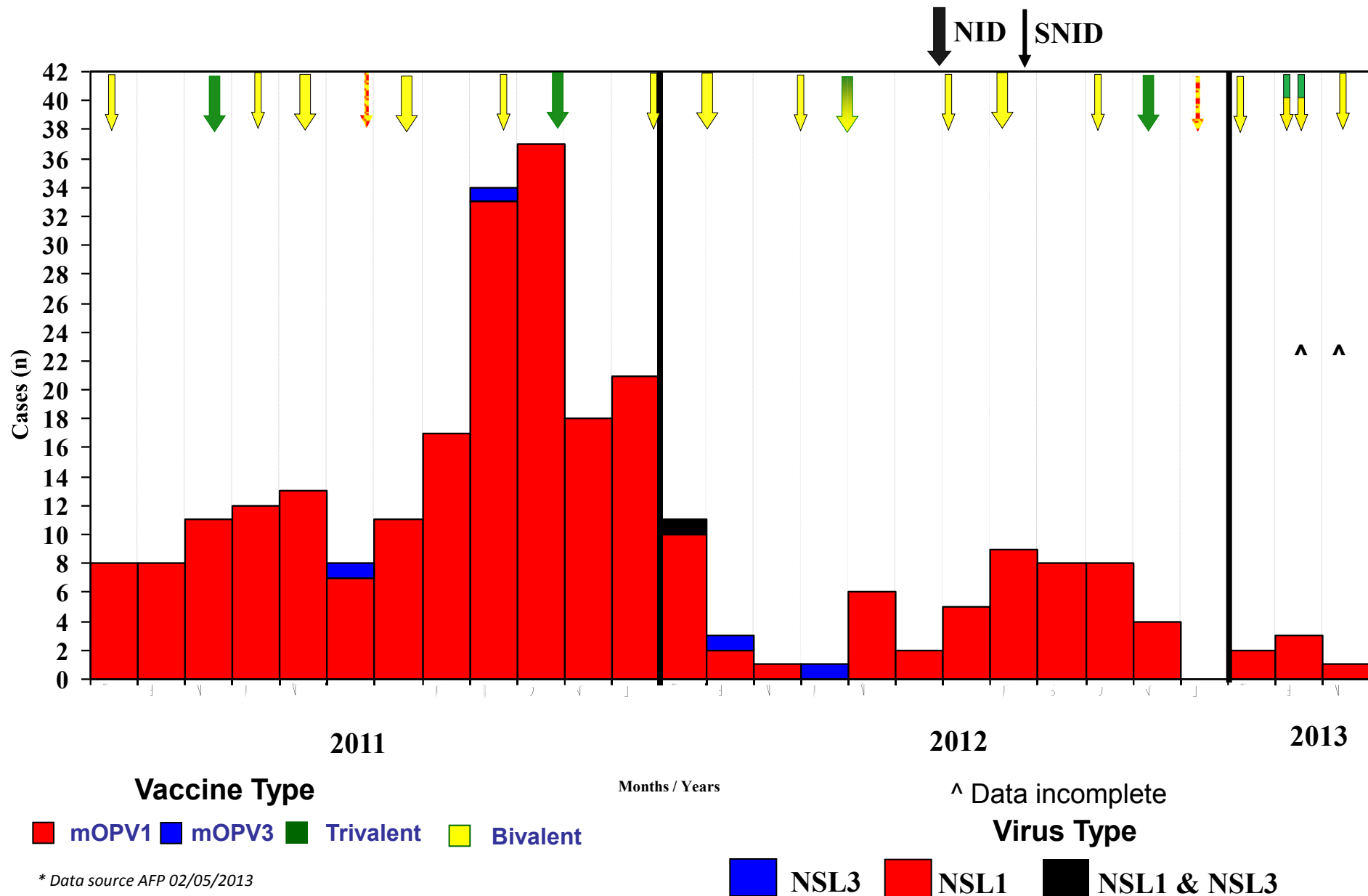
Graph 1: Distribution of AFP Cases by Month, Pakistan 2009-2013*



@ Non-polio AFP rate of 2/100,000 children < 15 years

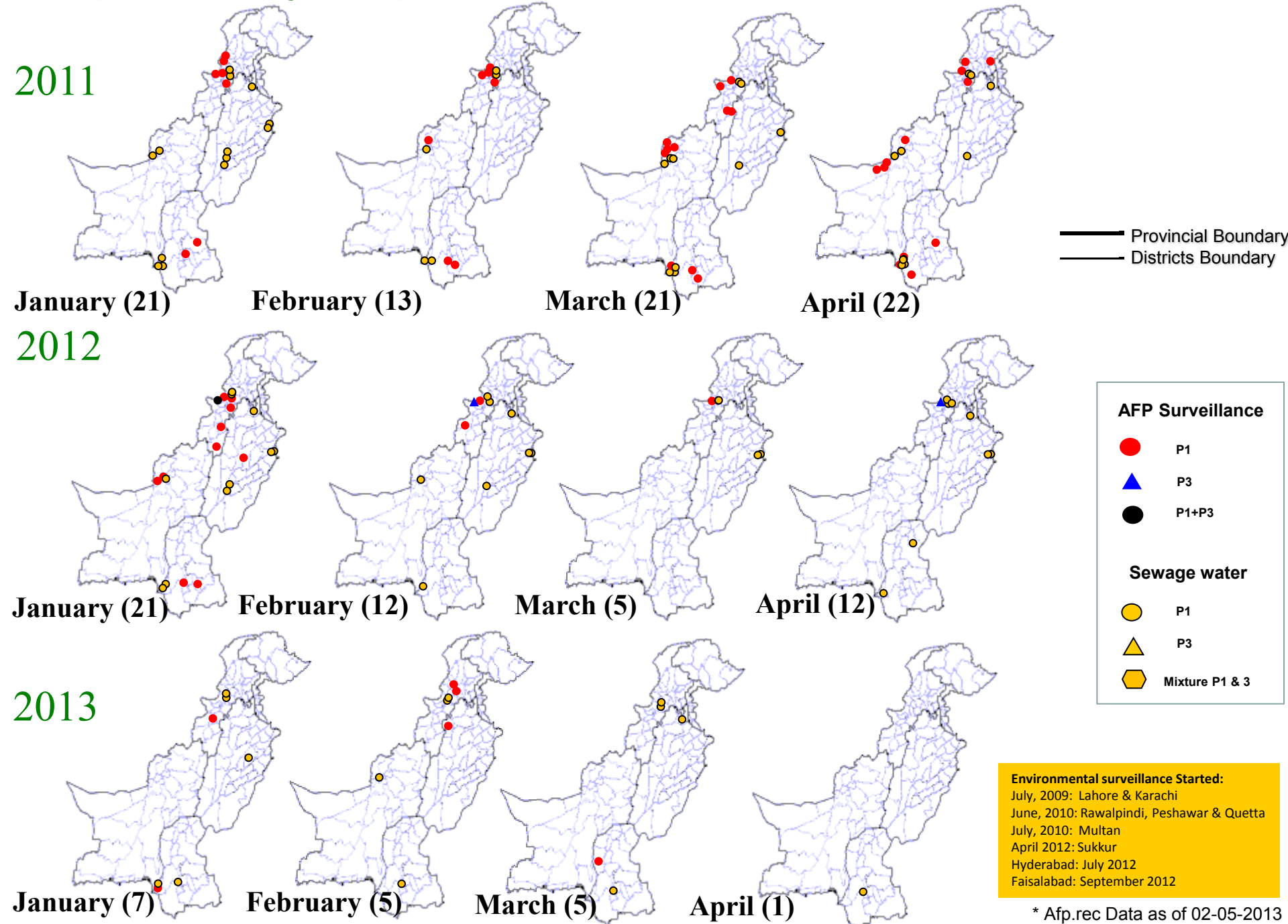
*Afp.rec Data as of 02-05-2013

Confirmed Polio Cases By Poliovirus Type, 2011-2013*

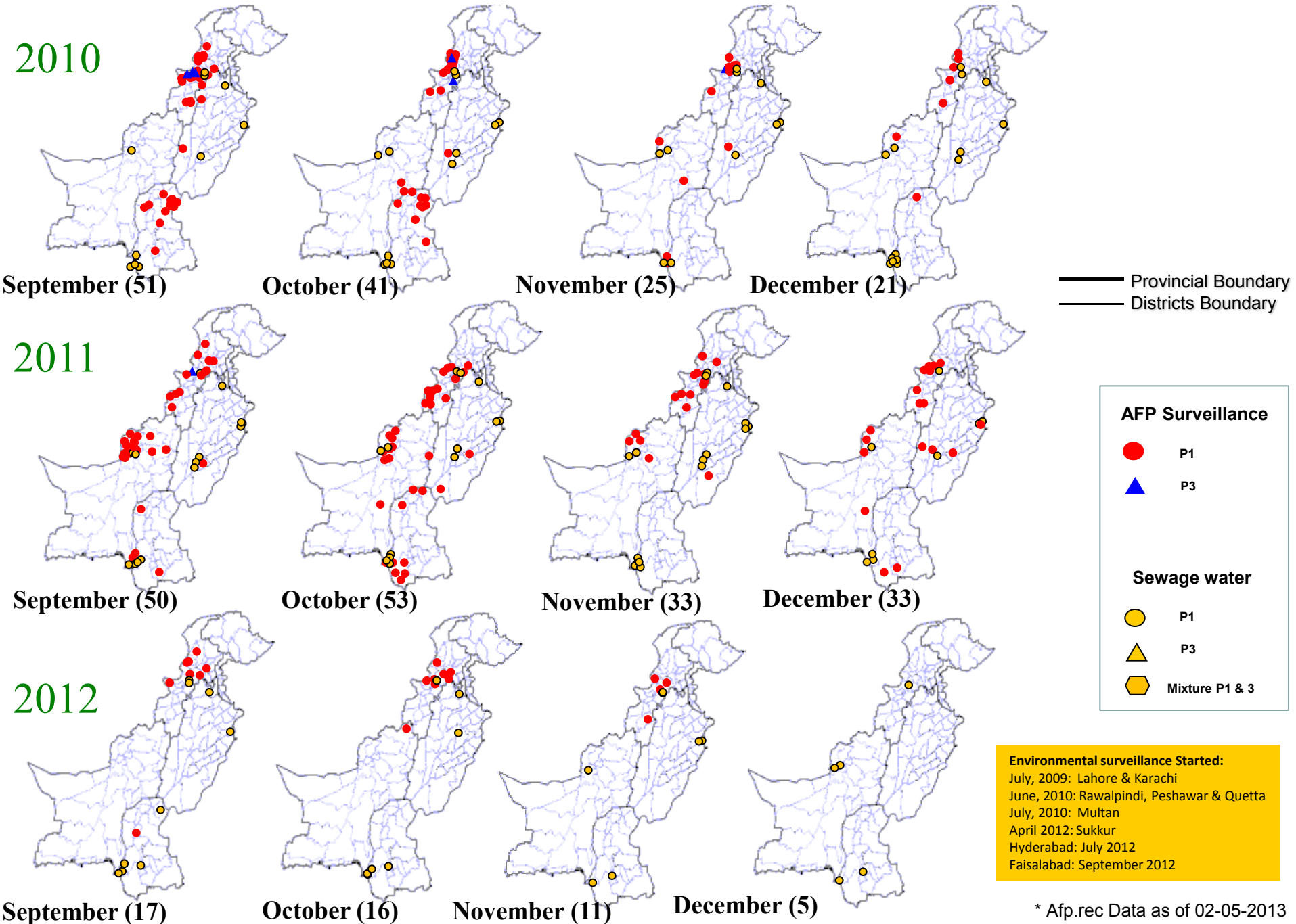


* Data source AFP 02/05/2013

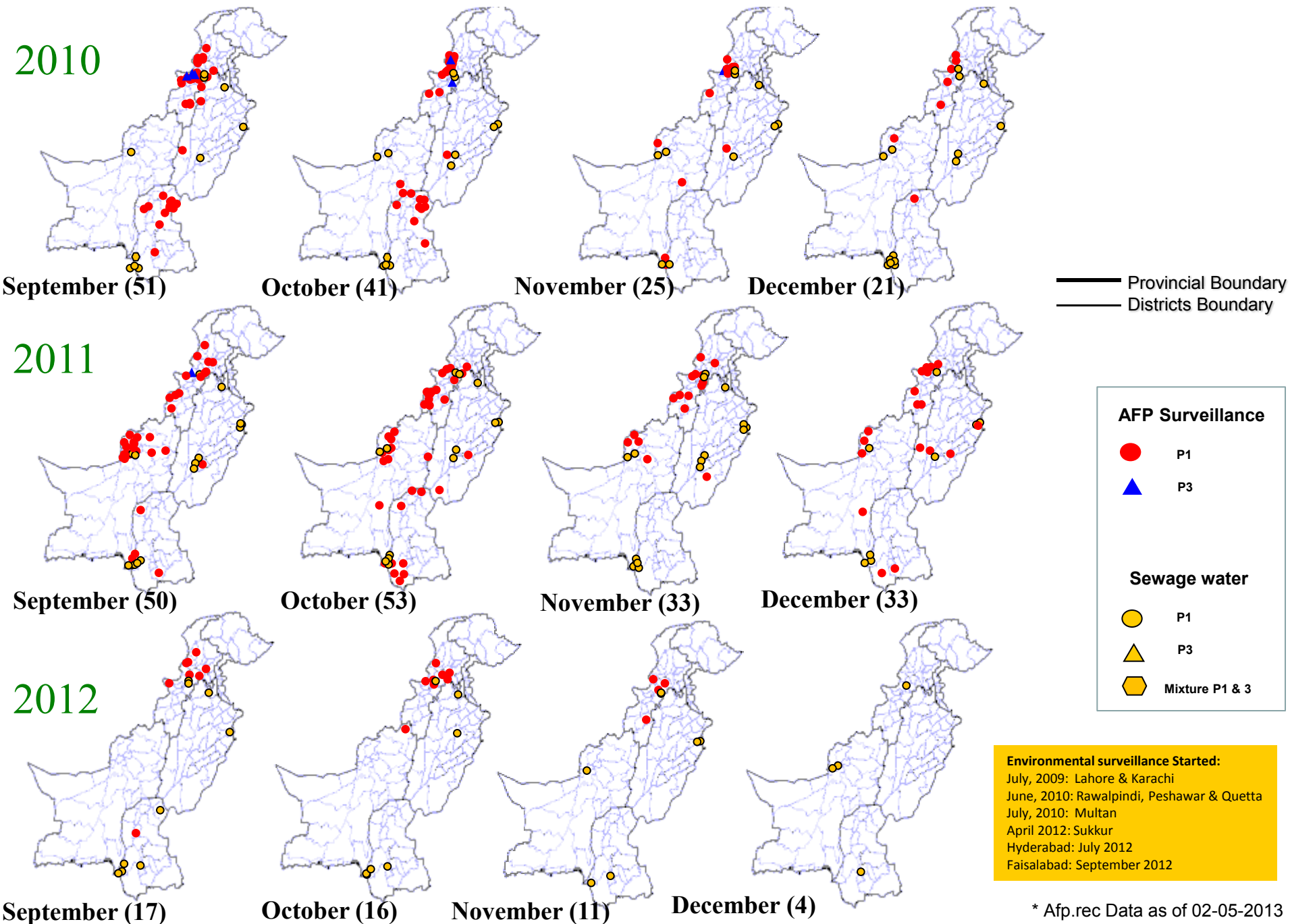
Map 4: Monthly Comparison of P1 & P3 Polio Cases/Isolates 2011-2013*



Map 4.2: Monthly Comparison of P1 & P3 Polio Cases/Isolates 2010-2012*



Map 4.2: Monthly Comparison of P1 & P3 Polio Cases/Isolates 2010-2012*

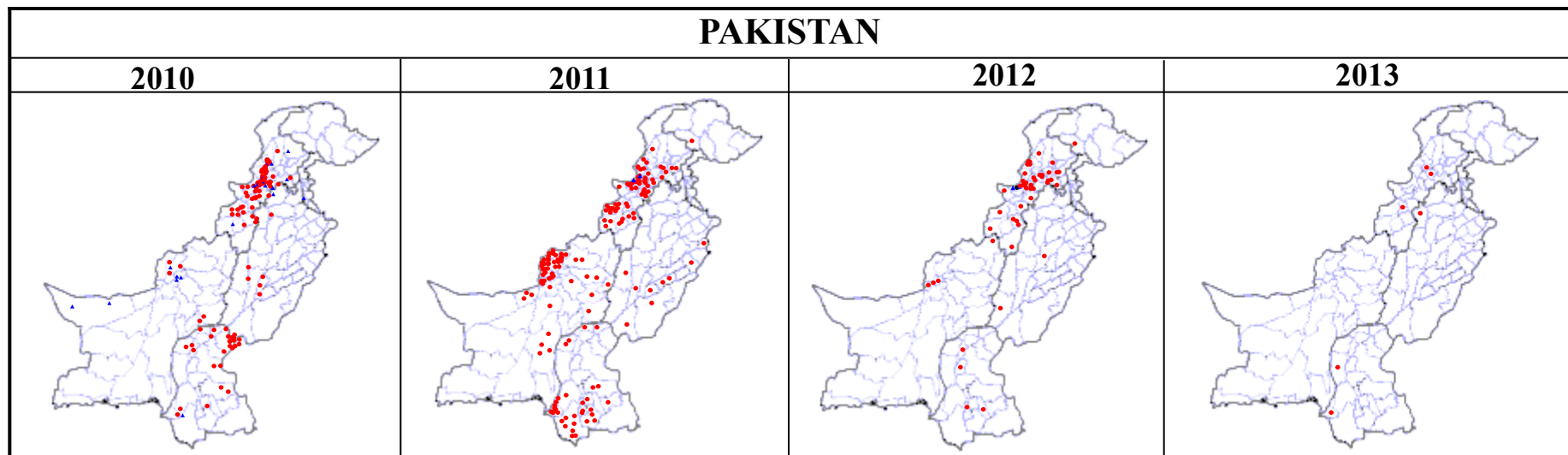


* Afp.rec Data as of 02-05-2013

Table 6: Polio Eradication Update, Pakistan 2010-2013*

Province/Region	Polio 1				Polio 3				Total Wild			
	2010	2011	2012	2013	2010	2011	2012	2013	2010	2011	2012	2013
PUNJAB	6	9	2	1	1	0	-	-	7	9	2	1
SINDH	26	33	4	2	1	0	-	-	27	33	4	2
KP	19	23	27	3	5	0	-	-	24	23	27	3
FATA^	63	57	17	-	11	2	2	-	74	59	20^	-
BALUCHISTAN	6	73	4	-	6	0	-	-	12	73	4	-
AJK	0	0	-	-	0	0	-	-	0	0	-	-
Gilgit-Baltistan	0	1	1	-	0	0	-	-	0	1	1	-
ISLAMABAD	0	0	-	-	0	0	-	-	0	0	-	-
PAKISTAN	120	196	55	6	24	2	2	-	144	198	58	6

^ FATA reported mixture of NSL1 & NSL3



* Afp.rec Data as of 02-05-2013

Table 7: Vaccination status of non polio AFP cases age 6-59 months 2010-2013*

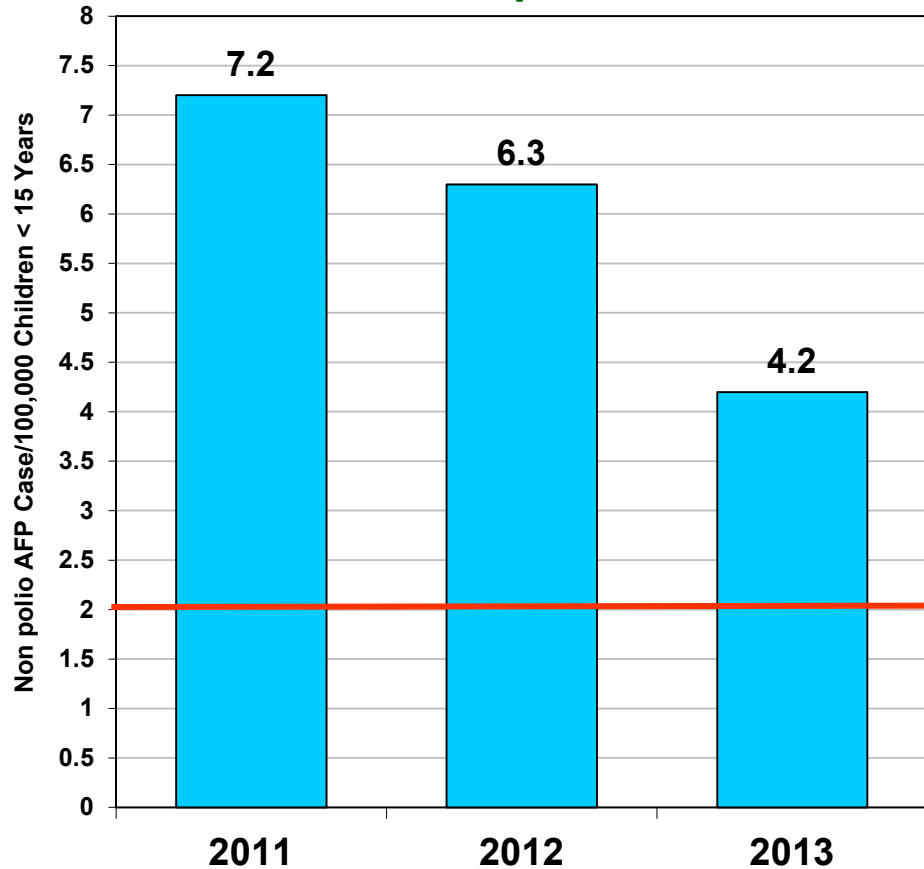
REGION	0 dose				1-2 doses				3 doses				4-6 doses				7+ doses			
	10	11	12	13	10	11	12	13	10	11	12	13	10	11	12	13	10	11	12	13
Central Punjab	0%	0%	0%	0%	1%	1%	0%	0%	1%	2%	0%	2%	7%	6%	4%	4%	91%	92%	95%	95%
North Punjab	0%	0%	0%	0%	0%	1%	0%	0%	2%	1%	0%	0%	6%	5%	4%	6%	91%	93%	96%	94%
South Punjab	0%	0%	0%	0%	1%	0%	0%	0%	0%	1%	0%	0%	5%	5%	4%	2%	94%	93%	96%	98%
PUNJAB	0%	0%	0%	0%	1%	1%	0%	0%	1%	1%	0%	1%	6%	5%	4%	3%	92%	93%	96%	96%
Karachi	2%	4%	1%	0%	0%	1%	1%	4%	3%	0%	2%	0%	7%	6%	6%	9%	88%	88%	90%	87%
North Sindh	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	1%	0%	4%	5%	4%	0%	95%	94%	95%	100%
South Sindh	0%	1%	0%	0%	1%	1%	1%	2%	1%	0%	2%	0%	9%	6%	4%	7%	89%	93%	93%	91%
SINDH	1%	1%	0%	0%	1%	1%	1%	2%	1%	0%	1%	0%	7%	6%	4%	5%	91%	92%	93%	94%
Central Khyber Pakhtunkhwa	1%	1%	2%	0%	0%	1%	1%	0%	1%	0%	0%	2%	2%	3%	2%	0%	97%	95%	95%	96%
North Khyber Pakhtunkhwa	2%	1%	2%	0%	1%	2%	2%	6%	2%	1%	2%	0%	6%	7%	9%	6%	89%	90%	85%	85%
South Khyber Pakhtunkhwa	3%	2%	2%	0%	3%	4%	1%	0%	3%	4%	1%	0%	14%	7%	9%	6%	76%	83%	87%	88%
Khyber Pakhtunkhwa	1%	1%	2%	0%	1%	2%	1%	2%	2%	1%	1%	2%	6%	5%	6%	3%	90%	91%	89%	90%
FATA	14%	14%	18%	0%	11%	10%	6%	0%	6%	5%	3%	0%	18%	11%	12%	0%	51%	61%	62%	3%
North Balochistan	12%	4%	12%	14%	0%	12%	10%	0%	4%	23%	3%	0%	12%	12%	17%	14%	72%	50%	57%	71%
Quetta Block	0%	31%	14%	14%	11%	10%	10%	0%	0%	3%	0%	0%	9%	14%	14%	14%	81%	43%	62%	71%
Rest of Balochistan	6%	7%	9%	33%	2%	2%	7%	0%	2%	5%	4%	0%	11%	10%	22%	33%	78%	76%	89%	33%
BALUCHISTAN	5%	16%	8%	17%	4%	6%	8%	0%	2%	6%	3%	0%	11%	12%	17%	17%	78%	60%	64%	67%
PAKISTAN	1%	2%	1%	0%	1%	1%	1%	1%	1%	1%	1%	1%	7%	6%	5%	4%	89%	89%	92%	94%

* Afp.rec Data as of 02-05-2013

Key Surveillance Indicators; 2011-2013*

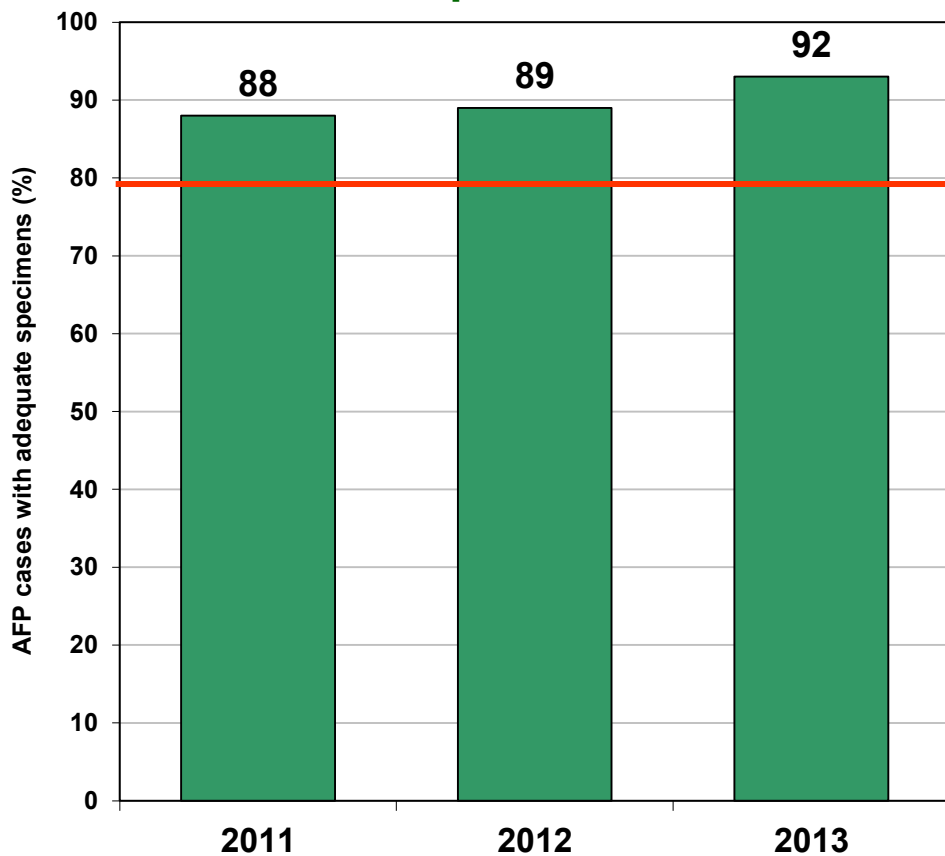
(Non polio AFP rate and % AFP cases with adequate specimens)

Graph 3



■ Non Polio AFP Rate

Graph 4



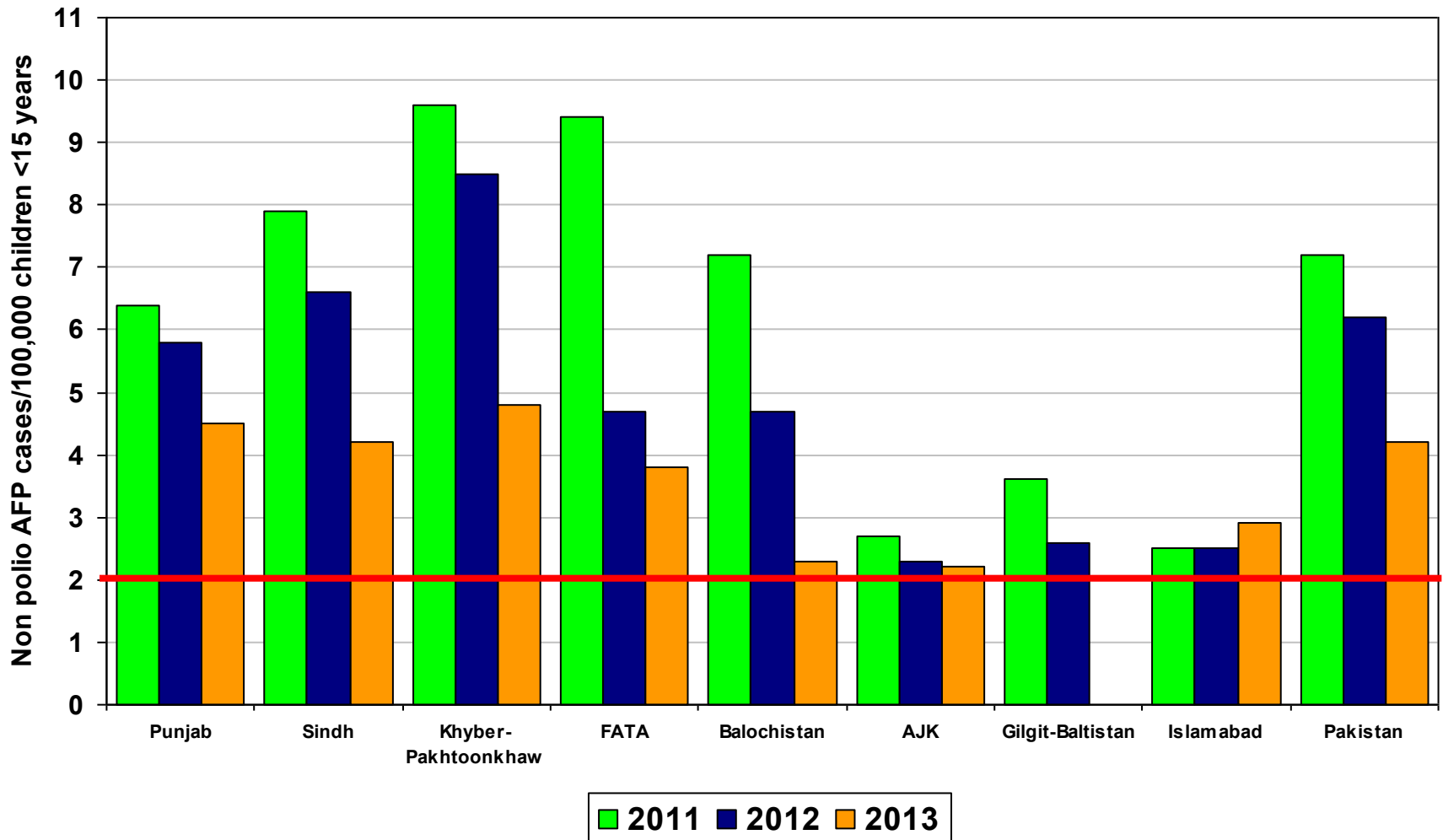
■ % AFP with Adequate Specimens

— Target

Non Polio AFP rate Up to Week No. 17 ended on 27^h April, 2013

* Afp.rec Data as of 02-05-2013

Non Polio AFP Rate By Province/Regions, 2011-2013*



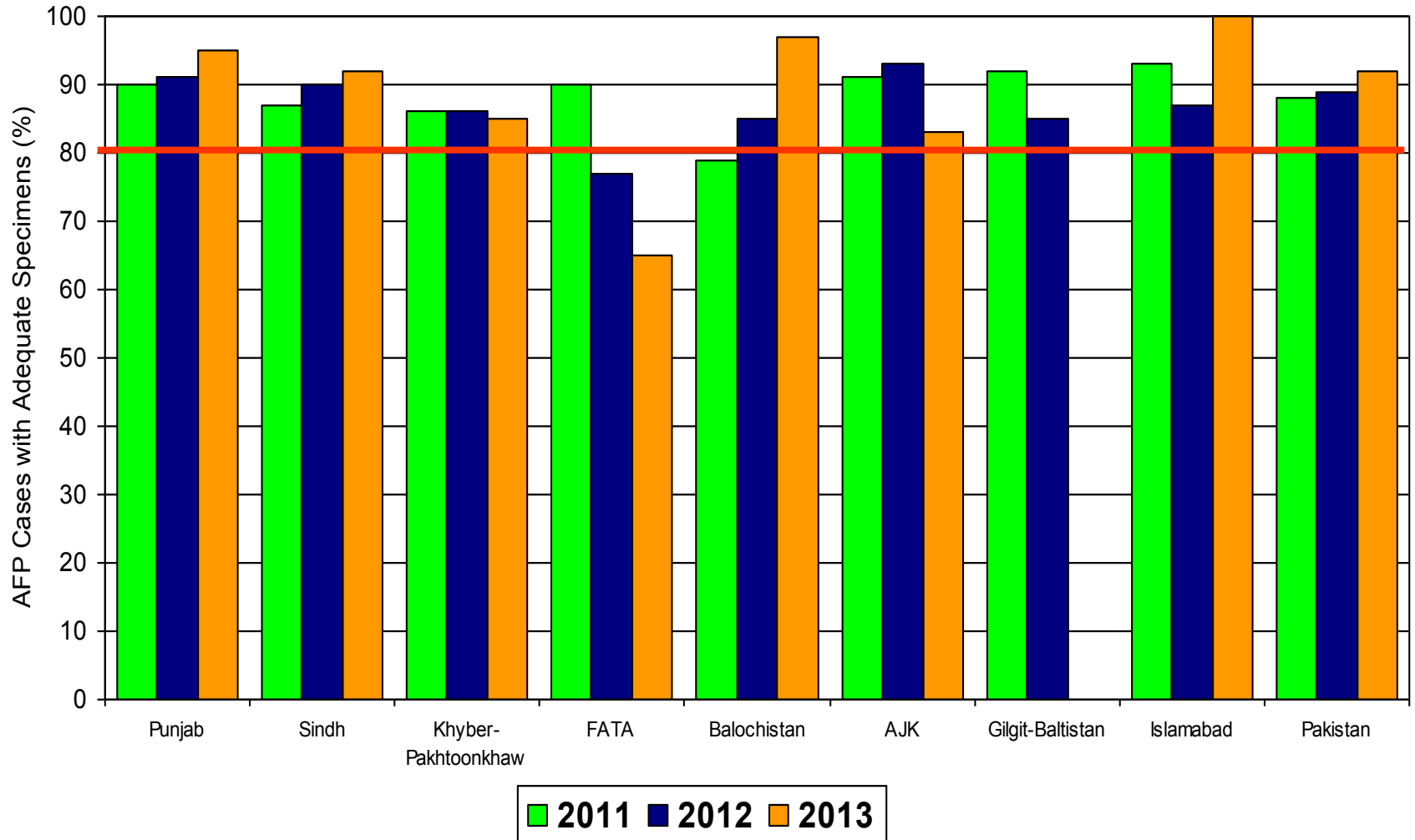
Non Polio AFP rate Up to Week No. 17 ended on 27^h April, 2013



Target Non-Polio AFP Rate 2/ 100000 < 15 years of the age

* Data source AFP 02/05/2013

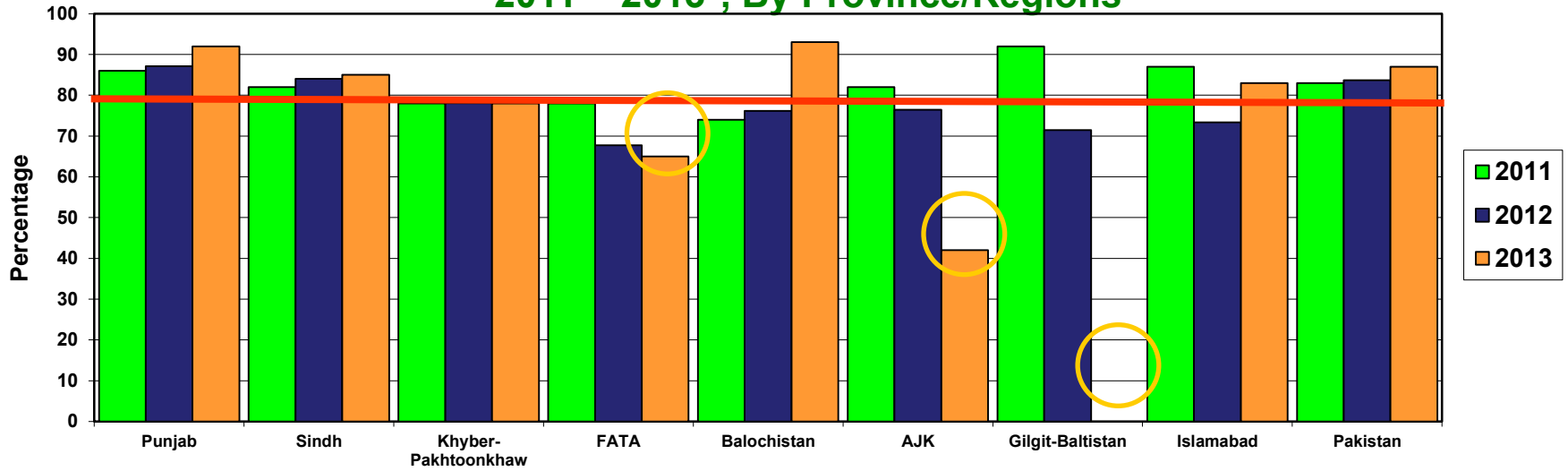
Percent AFP Cases with Adequate Specimens By Province/Regions, 2011-2013*



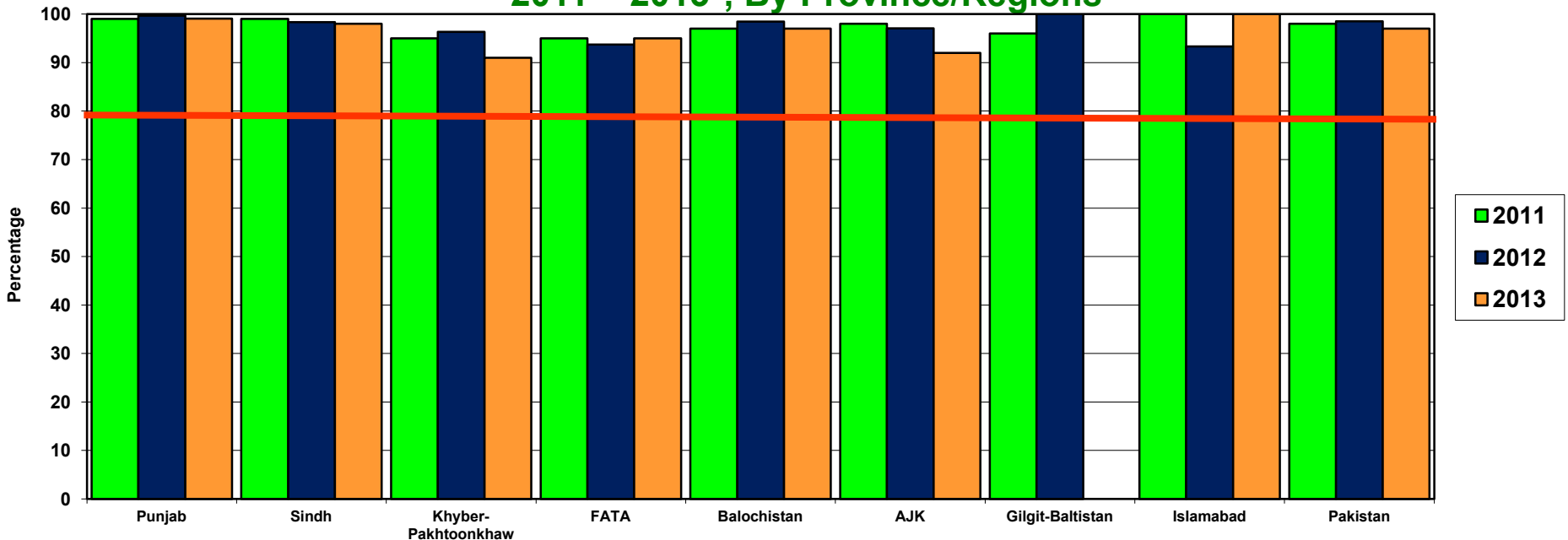
* Data source AFP 02/05/2013

Target Adequate Sample cases = 80%

**Graph 5: Percent AFP Cases Notified within 07 days of paralysis onset
2011 ~ 2013*, By Province/Regions**



**Graph 6: Percent AFP Cases Investigated within 48 hours of notification
2011 ~ 2013*, By Province/Regions**



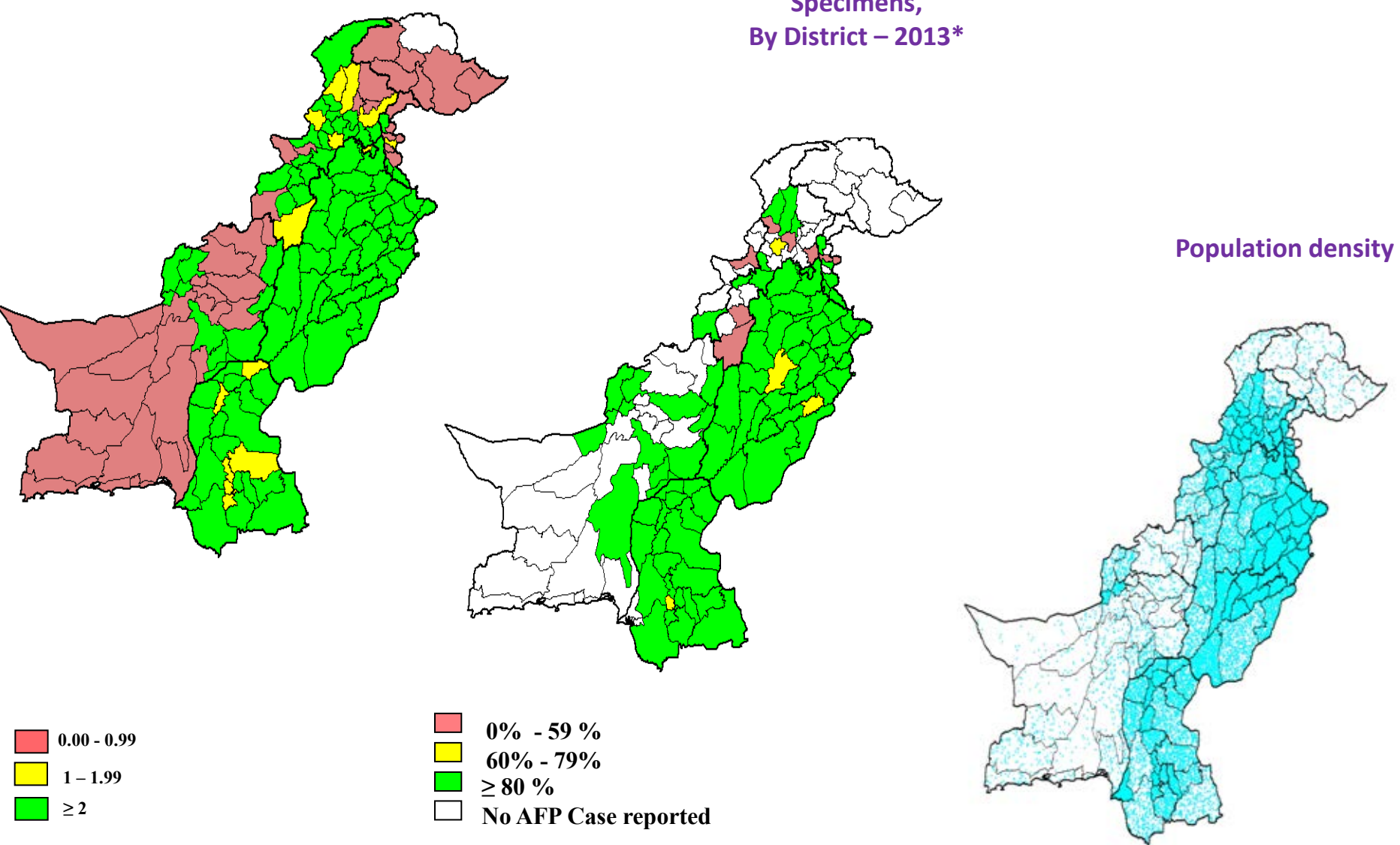
* Afp.rec Data as of 02-05-2013

— Target

**Non-Polio AFP Rate by District
2013***

**Percent AFP Cases with Adequate
Specimens,
By District – 2013***

Population density



- 0.00 - 0.99
- 1 - 1.99
- ≥ 2

- 0% - 59 %
- 60% - 79%
- ≥ 80 %
- No AFP Case reported

2000 children under 15 years of age

Non Polio AFP rate Up to Week No. 17 ended on 27th April, 2013

* Data source AFP 02/05/2013

Table 8.1: AFP CASES PENDING FOR CLASSIFICATION WITH DATE OF ONSET MORE THAN 90 DAYS* 2013

S. No	DISTRICT	TEHSIL	EPID	SEX	AGE	DONSET	DOSE€	DSTOOL1	DSTOOL2	LAB	FEVER	ASVM	PROG	FUP	PEND (DAYS)
1	ABOTABAD	HAVALIAN	KP/10/13/003	M	72	02-01-13	7+	29-01-13	30-01-13		N	Y	Y		120
2	BAJOUR	MAMUND	FT/33/13/002	M	10	04-01-13	7+	04-02-13	05-02-13		N	Y	N		118
3	BAJOUR	UTMAN KHEL	FT/33/13/003	M	24	20-01-13	7+	19-02-13	20-02-13		Y	Y	Y		102
4	DIRLOWER	SAMAR BAGH	KP/23/13/003	F	24	05-01-13	7+	31-01-13	01-02-13	EV	Y	Y	Y		117
5	KARAK	KARAK	KP/51/13/005	F	13	01-01-13	7+	15-02-13	17-02-13	EV	N	Y	Y		121
6	KHYBER	JAMRUD	FT/34/13/004	F	16	22-01-13	7+	05-03-13	06-03-13	EV	Y	Y	Y		100
7	KOHAT	KOHAT	KP/50/13/002	F	96	01-01-13	7+	16-01-13	17-01-13		Y	N	Y		121
8	MARDAN	MARDAN	KP/40/13/007	M	29	17-01-13	7+	06-02-13	07-02-13	EV	Y	Y	Y	Y	105
9	PESHAWAR	PESHAWAR	KP/30/13/008	M	96	15-01-13	7+	26-02-13	27-02-13		N	N	Y		107
10	SWABI	LAHORE	KP/41/13/003	M	60	03-01-13	7+	29-01-13	30-01-13		N	Y	Y		119
11	SWABI	LAHORE	KP/41/13/008	M	25	27-01-13	7+	11-02-13	12-02-13		Y	Y	Y		95
12	TANK	TANK	KP/63/13/001	M	85	02-01-13	7+	21-01-13	23-01-13		N	Y	Y		120
13	DGKHAN	DGKHAN	PB/81/13/008	F	16	16-01-13	7+	07-02-13	09-02-13	NVI	Y	N	Y	Y	106
14	FAISALABAD	JARANWALA	PB/51/13/015	F	11	27-01-13	7+	01-03-13	03-03-13	VACC	Y	Y	Y	Y	95
15	GUJRAT	GUJRAT	PB/23/13/016	M	30	15-01-13	7+	LATE NOTIFICATION			N	N	N	Y	107
16	HAFIZABAD	HAFIZABAD	PB/22/13/002	M	14	12-01-13	7+	28-01-13	29-01-13	NVI	Y	Y	Y	Y	110
17	JHANG	JHANG	PB/53/13/001	M	63	04-01-13	7+	CHILD DIED BEFORE COLLECTION			N	N	Y	DIED	118
18	KASUR	KASUR	PB/32/13/006	F	144	04-01-13	7+	14-02-13	16-02-13	NVI	N	N	Y	Y	118
19	MULTAN	JALALPUR PIRWALA	PB/61/13/014	M	6	26-01-13	7+	20-02-13	22-02-13	NVI	Y	Y	Y	Y	96
20	OKARA	OKARA	PB/34/13/006	M	24	24-01-13	7+	06-02-13	08-02-13	NVI	Y	Y	N	Y	98
21	PAKPATTEN	PAKPATTAN	PB/66/13/001	F	12	29-01-13	7+	17-02-13	18-02-13	NVI	Y	Y	Y	Y	93
22	RAJANPUR	RAJANPUR	PB/82/13/011	F	6	10-01-13	7+	01-03-13	02-03-13	EV	N	Y	Y	Y	112
23	GHOTKI	GHOTKI	SD/42/13/003	F	30	13-01-13	7+	18-01-13		NVI	Y	Y	Y	DIED	109
24	HYDERABAD	HYDERABAD RURAL	SD/21/13/003	F	6	25-01-13	6	20-02-13	21-02-13	NVI	N	Y	Y	Y	97
25	KAMBAR	WARAH	SD/55/13/006	M	96	01-01-13	7+	LATE NOTIFICATION			N	Y	Y	Y	121
26	KHIKAMARI	KAMARI	SD/67/13/001	M	18	10-01-13	1	LATE NOTIFICATION			Y	Y	Y	Y	112
27	THATTA	SUJAWAL	SD/22/13/001	M	1	02-01-13	1	09-01-13	31-01-13	NVI	N	N	Y	DIED	120
28	LAKKIMRWT	LAKKIMRWT	KP/62/13/008	F	120	17-01-13	7+	01-03-13	02-03-13		Y	N	Y		105
29	BAGH	BAGH	AJ/50/13/001	M	80	23-01-13	7+	17-02-13	18-02-13	NVI	N	N	Y		99
30	KHYBER	JAMRUD	FT/34/13/002	F	24	18-01-13	7+	LATE NOTIFICATION			N	Y	Y		104

€ Based on recall of parents
* Afp.rec Data as of 02-05-2013

60 days Follow-up not done

FUP = Residual Weakness at 60 days follow up.