



**World Health  
Organization**

**Weekly  
AFP Surveillance Update  
Pakistan**

**Week 21** (*Ended on 24<sup>th</sup> May, 2014*)

***National Surveillance Cell  
Federal EPI***

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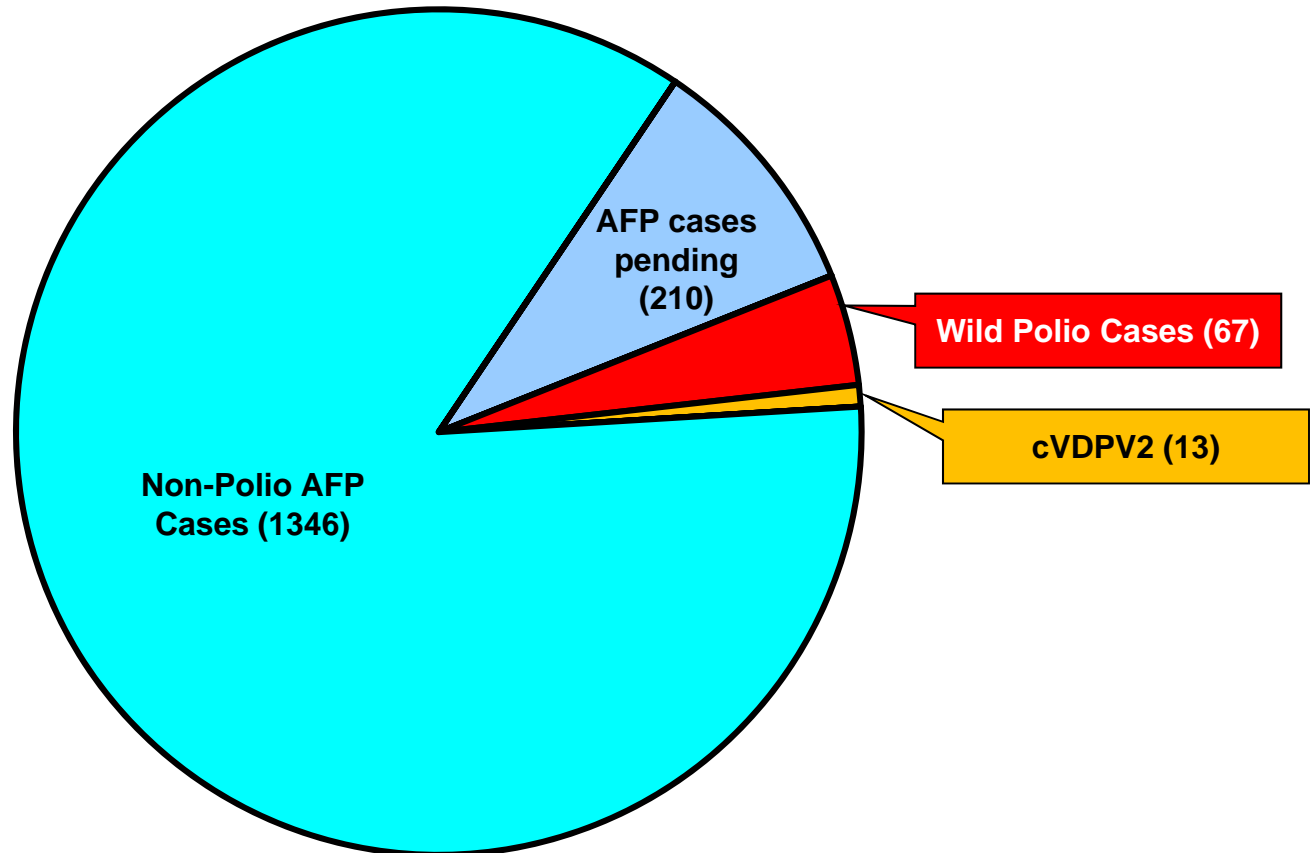
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AFP Surveillance



# AFP Case Profile, 2014\*



**Total AFP Cases Reported = 1636**

**^27 Inadequate cases pending classification by ERC;  
^65 Inadequate cases not due for FUP  
^118 Pending in the Lab**

## Point in Time Comparison of polio cases by province/region 2013 & 2014\*

Region/ Province	No. of polio cases		No. of infected districts/towns		Last polio case
	2013	2014	2013	2014	
Khyber Pakhtunkhwa	4	9	3	2	19-Apr -14
FATA / FR Areas	9	53	3	4	02-May -14
Sindh	2	5	2	3	08-Apr-14
Balochistan	0	0	0	0	02-Oct-12
Punjab	2	0	2	0	12-Dec-13
<b>Pakistan</b>	<b>17</b>	<b>67</b>	<b>10</b>	<b>9</b>	<b>02-May-14</b>

Five additional districts/town declared infected based on environmental samples in 2014

\* Afp.rec Data as of 22-05-2014

**Table 1: List of Confirmed Polio Cases, Pakistan 2014\* (1/3)**

S.NO.	PROVINCE/ REGION	DISTRICT	TEHSIL	EPID NO.	SEX	AGE (m)	DATE OF ONSET PARALYSIS	NO. OPV DOSES (based on parents recall)		FEVER	Asymetric Paralysis	Rapid Progression	REFUSAL	W/PV TYPE	GENETICS
								Route	SIA's						Cluster
1	FATA	WAZIR-N\$	MIR ALI	FT/64/14/006	F	19	03-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
2	FATA	WAZIR-N\$	MIR ALI	FT/64/14/003	M	14	03-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
3	FATA	WAZIR-N\$	MIR ALI	FT/64/14/007	F	8	04-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
4	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/004	F	13	04-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
5	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/005	F	17	05-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
6	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/011	F	12	10-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
7	FATA	WAZIR-N\$	MIR ALI	FT/64/14/018	M	12	11-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
8	FATA	KHYBER\$	BARA	FT/34/14/003	F	13	12-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
9	FATA	WAZIR-N\$	MIR ALI	FT/64/14/012	M	23	16-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
10	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/016	M	10	17-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
11	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/017	M	17	22-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
12	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/019	F	18	24-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
13	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/021	M	16	25-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
14	KPAKHTUNKHWA	BANNU	BANNU	KP/61/14/001	M	39	26-Jan-14	0	4	Y	N	Y	Y	NSL1	R4B
15	FATA	WAZIR-N\$	MIR ALI	FT/64/14/024	M	18	28-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
16	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/022	F	11	29-Jan-14	0	0	Y	Y	Y	N	NSL1	R4B
17	KPAKHTUNKHWA	PESHAWAR	PESHAWAR	KP/30/14/008	M	6	31-Jan-14	4	4	Y	Y	Y	Y	NSL1	R4B
18	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/028	M	18	05-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
19	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/032	M	18	08-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
20	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/027	M	12	08-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
21	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/034	F	18	09-Feb-14	3	3	Y	Y	Y	N	NSL1	R4B
22	KPAKHTUNKHWA	PESHAWAR	PESHAWAR	KP/30/14/012	M	18	10-Feb-14	1	10	Y	Y	Y	N	NSL1	R4B

\$ Security compromised area

^Under investigation

\* Afp.rec Data as of 22-05-2014

**Table 1: List of Confirmed Polio Cases, Pakistan 2014\* (2/3)**

S.NO.	PROVINCE/ REGION	DISTRICT	TEHSIL	EPID NO.	SEX	AGE (m)	DATE ONSET OF PARALYSIS	NO. OPV DOSES (based on parents recall)		FEVER	Asymmetric Paralysis	Rapid Progression	REFUSAL	W/PV TYPE	GENETICS
								Route	SIA's						Cluster
23	FATA	WAZIR-N	MIRAN SHAH	FT/64/14/041	F	18	10-Feb-14	0	0	Y	N	Y	N	NSL1	R4B
24	SINDH	KARACHI	BALDIA	SD/61/14/002	F	24	10-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
25	FATA	WAZIR-S	BIRMAL	FT/65/14/001	F	6	12-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
26	FATA	WAZIR-N	MIRAN SHAH	FT/64/14/035	M	5	12-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
27	FATA	WAZIR-N	MIRAN SHAH	FT/64/14/038	M	44	15-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
28	FATA	FR BANNU	FR BANNU	FT/69/14/009	F	18	15-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
29	FATA	WAZIR-N	MIRAN SHAH	FT/64/14/037	M	10	16-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
30	FATA	WAZIR-N\$	MIR ALI	FT/64/14/042	M	17	21-Feb-14	0	0	Y	Y	N	N	NSL1	R4B
31	FATA	WAZIR-N\$	MIR ALI	FT/64/14/047	F	7	21-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
32	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/040	M	11	22-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
33	KPAKHTUNKHWA	PESHAWAR	PESHAWAR	KP/30/14/016	M	22	24-Feb-14	3	7	Y	N	Y	N	NSL1	R4B
34	FATA	WAZIR-N\$	MIR ALI	FT/64/14/043	M	16	25-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
35	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/046	M	84	26-Feb-14	0	0	Y	Y	Y	N	NSL1	R4B
36	KPAKHTUNKHWA	BANNU	BANNU	KP/61/14/007	F	10	02-Mar-14	0	0	Y	Y	Y	Y	NSL1	R4B
37	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/050	M	13	04-Mar-14	0	0	Y	Y	Y	N	NSL1	R4B
38	KPAKHTUNKHWA	BANNU	BANNU	KP/61/14/006	F	16	07-Mar-14	0	2	Y	Y	Y	Y	NSL1	R4B
39	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/051	M	14	07-Mar-14	0	0	Y	Y	Y	N	NSL1	R4B
40	FATA	WAZIR-N\$	MIR ALI	FT/64/14/049	M	5	08-Mar-14	0	0	Y	N	Y	N	NSL1	R4B
41	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/056	M	12	14-Mar-14	0	0	Y	Y	Y	N	NSL1	R4B
42	FATA	WAZIR-S	BIRMAL	FT/65/14/002	F	6	14-Mar-14	0	0	Y	N	Y	N	NSL1	R4B
43	KPAKHTUNKHWA	BANNU	BANNU	KP/61/14/009	F	10	16-Mar-14	0	2	Y	N	Y	Y	NSL1	R4B
44	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/059	M	11	19-Mar-14	0	0	Y	Y	Y	N	NSL1	R4B

\$ Security compromised area

^Under investigation

\* Afp.rec Data as of 22-05-2014

***Table 1: List of Confirmed Polio Cases, Pakistan 2014\* (3/3)***

S.NO.	PROVINCE/ REGION	DISTRICT	TEHSIL	EPID NO.	SEX	AGE (m)	DATE ONSET OF PARALYSIS	NO. OPV DOSES (based on parents recall)		FEVER	Asymetric Paralysis	Rapid Progression	REFUSAL	WPV TYPE	GENETICS
								Route	SIA's						Cluster
45	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/057	F	34	20-Mar-14	0	0	Y	N	Y	N	NSL1	R4B
46	FATA	WAZIR-S	BIRMAL	FT/65/14/005	F	9	22-Mar-14	0	0	Y	Y	Y	N	NSL1	R4B
47	SINDH	KHIGADAP	GADAP	SD/63/14/006	F	11	26-Mar-14	0	0	Y	Y	Y	Y	NSL1	R4B
48	KPAKHTUNKHWA	PESHAWAR	PESHAWAR	KP/30/14/032	F	6	27-Mar-14	0	10	Y	Y	Y	N	NSL1	R4B
49	SINDH	KARACHI	ORANGI	SD/75/14/005	F	22	30-Mar-14	3	10	Y	Y	Y	N	NSL1	R4B
50	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/064	F	18	02-Apr-14	0	0	Y	Y	Y	N	NSL1	R4B
51	SINDH	KHIGADAP	GADAP	SD/63/14/008	M	7	02-Apr-14	0	1	Y	N	Y	N	NSL1	R4B
52	FATA	WAZIR-S	WANA	FT/65/14/006	F	15	03-Apr-14	0	0	Y	Y	Y	N	NSL1	R4B
53	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/066	F	18	04-Apr-14	0	0	Y	N	Y	N	NSL1	R4B
54	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/067	F	48	06-Apr-14	0	0	Y	Y	Y	N	NSL1	R4B
55	SINDH	KHIGADAP	GADAP	SD/63/14/010	F	18	08-Apr-14	3	10	Y	N	Y	Y	NSL1	R4B
56	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/068	F	78	09-Apr-14	0	0	Y	Y	Y	Y	NSL1	R4B
57	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/070	F	11	10-Apr-14	0	0	Y	Y	Y	N	NSL1	R4B
58	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/072	M	14	11-Apr-14	0	0	Y	Y	Y	N	NSL1	R4B
59	KPAKHTUNKHWA	BANNU	BANNU	KP/61/14/012	M	10	19-Apr-14	0	0	Y	Y	Y	N	NSL1	R4B
60	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/073	M	14	20-Apr-14	0	0	Y	Y	Y	N	NSL1	R4B
61	FATA	WAZIR-S	WANA	FT/65/14/007	F	22	20-Apr-14	0	0	Y	Y	Y	N	NSL1	R4B
62	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/077	M	14	24-Apr-14	0	0	Y	Y	Y	N	NSL1	R4B
63	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/079	M	22	27-Apr-14	0	0	Y	Y	Y	N	NSL1	
64	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/081	F	6	28-Apr-14	0	0	Y	Y	Y	N	NSL1	
65	FATA	WAZIR-N\$	MIRAN SHAH	FT/64/14/082	F	6	30-Apr-14	0	0	Y	Y	Y	N	NSL1	R4B
66	FATA	KHYBER\$	BARA	FT/34/14/010	M	27	01-May-14	0	0	Y	Y	Y	N	NSL1	R4B

\$ Security compromised area

^Under investigation

\* Afp.rec Data as of 22-05-2014

**Table 1: List of Confirmed Polio Cases, Pakistan 2014\* (3/3)**

S.NO.	PROVINCE/ REGION	DISTRICT	TEHSIL	EPID NO.	SEX	AGE (m)	DATE ONSET OF PARALYSIS	NO. OPV DOSES (based on parents recall)		FEVER	Asymmetric Paralysis	Rapid Progression	REFUSAL	WPV TYPE	GENETICS
								Routi ne	SIA's						Cluster
67	FATA	FR BANNU	FR BANNU	FT/69/14/018	F	7	02-May-14	0	0	Y	Y	Y	N	NSL1	

\$ Security compromised area

**New Case**

^Under investigation

\* Afp.rec Data as of 22-05-2014

**Table 2: LAB Update 2014\***

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	%	n	n	%
January	383	267	0	0	25	7	69	18%	17	378	99%
February	368	271	0	0	35	10	42	11%	18	366	99%
March	388	262	1	0	41	11	67	17%	14	384	99%
April	414	263	20	1	11	3	102	25%	16	392	95%
May	246	38	181	6	4	2	15	6%	2	59	24%
Pakistan	1799	1101	202	0	116	6	295	16%	67	1579	88%

\* Data as of 26-05-2014








## Table 3: Urgent / ITD Pending Cases (1/1)

Basic information										OPV doses				Urgent		Prov	Lab update			Remarks
S. #	District	Tehsil	Union council	Epid number	Date of Onset	Age (M)	Sex	Date of 1st stool	Stool Adeq	RI	S/As	Last 6 S/As	Last dose	By Field	By NSCY	Diagnosis	Lab No.	Days Inoc	Culture update	
<b>Isolates pending for ITSD</b>																				
1	FR BANNU	BANNU	BAKKA KHEL	FT/69/14/019	08-May-14	60	M	13-May-14	Y	0	2	0	01-Apr-09	Y		POLIO MYELITIS / INFECCION NEURIPS	2108	5	P2	Discordant U
2	MOHMAND §	AMBAR UTMAN	KHARAI	FT/35/14/004-C3		40	M		-	-	-			N	-		2003	5	P1	Discordant U
3	WAZIR-N	MIRAN SHAH	MIRAN SHAH	FT/64/14/083	29-Apr-14	23	M	07-May-14	Y	0	0	0		Y		POLIO MYELITIS / GBS	2007	5	P1	Discordant U
4	WAZIR-S *	WANA	WANA	FT/65/14/010	07-May-14	18	M	12-May-14	Y	0	0	0		Y	Y	POLIO	2171	7	L20B+	
5	MIANWALI *	ISAKHEL	ISAKHEL URBAN	PB/43/14/016	06-May-14	23	F	14-May-14	Y	1	7+	6	15-Apr-14	N		WPO CALEMIA	2160	7	L20B+	
6	SHEIKUPURA *	#	#	PB/33/14/023	08-May-14	15	M	16-May-14	#	#	#	#	24-Mar-14	N		*	2181	7	L20B+	
7	KHISITE	SITE	9	SD/78/14/002	04-May-14	30	F	08-May-14	Y	2	7+	0	01-May-12	Y		INFECCION NEURIPS	2045	6	P1	Discordant U
8	TMKHAN §	BS KARIM	JANAN SOOMRO	SD/26/14/011	09-May-14	24	M	13-May-14	Y	0	6	6	25-Mar-14	N	-	TRAUMATIC NEURIPS	2161	3	P2	Discordant U
<b>Reported urgent (by field / NSCY criteria)</b>																				
9	KHYBER	BARA	MILWARD	FT/34/14/011	13-May-14	18	M	14-May-14	N	3	0	0		Y	Y	POLIO/INI NEU RIPS/GBS	2156	10	UP	
10	MOHMAND	AMBAR UTMAN	KHARAI	FT/35/14/004	20-Apr-14	24	F		N	0	7	6	14-Apr-14	Y	-	INFLAMMATORY ARTHRITIS	2000		UP	
11	WAZIR-N	MIRAN SHAH	MIRAN SHAH	FT/64/14/084	07-May-14	22	F	14-May-14	Y	0	0	0		Y	Y	POLIO	2204	6	UP	
12	WAZIR-N	MIRAN SHAH	DEGAN	FT/64/14/085	05-May-14		M	13-May-14	Y	0	0	0		Y	Y	POLIO	2203	6	UP	
13	WAZIR-N	MIRAN SHAH	SHWAL	FT/64/14/088	15-May-14	6	F	17-May-14	Y	0	0	0		Y	Y	POLIO	2220	6	UP	
14	WAZIR-S	BIRMAL	ANGOODR ADDA	FT/65/14/009	02-May-14	30	F	10-May-14	Y	0	0	0		Y	Y	POLIO	2169	8	UP	
15	BANNU	BANNU	MUMBATI	KP/61/14/015	11-May-14	12	M	16-May-14	N	0	7+	6	05-May-14	Y	N	POLIO	2205	6	UP	
16	LAHORE	ALLAMA IQBAL TOWN	120	PB/31/14/050	10-May-14	11	F	16-May-14	Y	0	7+	6	07-May-14	Y	N	TRAUMATIC NEURIPS	2168	8	UP	

\* New addition    § New results    # Data not available    ¶ NSC Criteria = Fever, Rapid Progress, Age < 48 months and OPV Doses < 7    UP = Under process  
Urgent (Field/NSC) / Inadequate specimens / Age 12-35 months / Zero OPV dose    U Pending for genomic sequencing

# Environmental Surveillance Results, Pakistan (Last 52 weeks)

Sites	Proportion of Positive samples					2014																																																				
	2011	2012	2013	2014																																																						
	%	%	%	%	n	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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
<b>PUNJAB</b>	61	33	9	9	4																																																					
<b>MULTAN</b>	58	11	6	0	0																																																					
Ali Town	50	17	8	0	0																																																					
Kotla A. Fateh	50	8	0	0	0																																																					
Suraj Miani	75	8	8	0	0																																																					
<b>LAHORE</b>	53	50	7	15	3																																																					
Gulshan Ravi Station	42	42	8	0	0																																																					
Multan Road Station	58	50	8	0	0																																																					
Outfall Pump Station F	58	58	0	25	1																																																					
Outfall Pump Station G			8	25	1																																																					
Outfall Pump Station H			8	25	1																																																					
<b>FAISALABAD</b>		3	2	0	0																																																					
Pump Station 03		8	6	0	0																																																					
Pump Station 27			0	0	0																																																					
Ismail City Road		0	0	0	0																																																					
<b>RAWALPINDI</b>	92	58	50	25	1																																																					
Dhok Dallal					0																																																					
Safdarabad	92	58	50	25	1																																																					
<b>SINDH</b>	64	36	25	54	21																																																					
<b>KHI (BALDIA)</b>	46	4	13	71	5																																																					
Kumhar Wara	58	8	0	67	2																																																					
Sajjan Goth	33	0	25	75	3																																																					
<b>KHI (G.IQBAL)</b>	58	17	21	88	7																																																					
Chakora Nulla	50	25	0	75	3																																																					
Rashid Minhas Rd	67	8	42	100	4																																																					
<b>KHI (GADAAP)</b>	88	67	41	67	8																																																					
Khamiso Goth	92	50	8	25	1																																																					
Macchar Colony			70	75	3																																																					
Sorab Goth	83	83	50	100	4																																																					
<b>SUKKUR</b>		41	0	0	0																																																					
Makka P.Station		38	0	0	0																																																					
Miani P.Station		44	0	0	0																																																					
<b>HYDERABAD</b>		100	58	25	1																																																					
Tulsidas P. Station		100	58	25	1																																																					
<b>KP</b>	79	83	88	50	4																																																					
<b>PESHAWAR</b>	79	83	88	50	4																																																					
Lara Ma	67	75	75	25	1																																																					
Shaheen Town	92	92	100	75	3																																																					
<b>BALOCHISTAN</b>	83	14	6	13	2																																																					
<b>QUETTA</b>				13	2																																																					
Jam-e-Salfia	75	17	0	0	0																																																					
Killi Jattak	92	17	9	33	1																																																					
Surpul		0	8	25	1																																																					
<b>ISLAMABAD</b>	Started from week 12 of 2014				0	0																																																				
<b>CDA</b>				0	0																																																					
Sabzi Mandi				0	0																																																					
<b>PAKISTAN</b>	67	37	20	28	31																																																					

Negative  Positive  cVDPV2  cVDPV2+WPV  Under process 

Five (5) unscheduled samples from Peshawar are excluded

\* Data as of 23rd May, 2014

## Comparison environmental sampling results 2013-14\*

DISTRICT	2013			2014			Last
	TOTAL	WILD		TOTAL	WILD		
	n	n	%	n	n	%	
LAHORE	24	0	0%	20	3	15%	12-Apr-14
MULTAN	14	0	0%	11	0	0%	00-Jan-00
RAWALPINDI	4	1	25%	6	1	17%	28-Jan-14
FAISALABAD	15	1	7%	11	0	0%	00-Jan-00
KHIGIQBAL	10	0	0%	8	7	88%	15-Apr-14
KHIGADAP	10	3	30%	11	8	64%	10-Apr-14
KHIBALDIA	9	0	0%	6	5	67%	20-Mar-14
SUKKUR	9	0	0%	8	0	0%	00-Jan-00
HYDERABAD	5	4	80%	4	1	25%	08-Apr-14
PESHAWAR	9	8	89%	8	4	50%	10-Apr-14
QUETTA	12	1	8%	11	2	18%	31-Mar-14
<b>PAKISTAN</b>	<b>121</b>	<b>18</b>	<b>15%</b>	<b>104</b>	<b>31</b>	<b>28%</b>	<b>15-Apr-14</b>

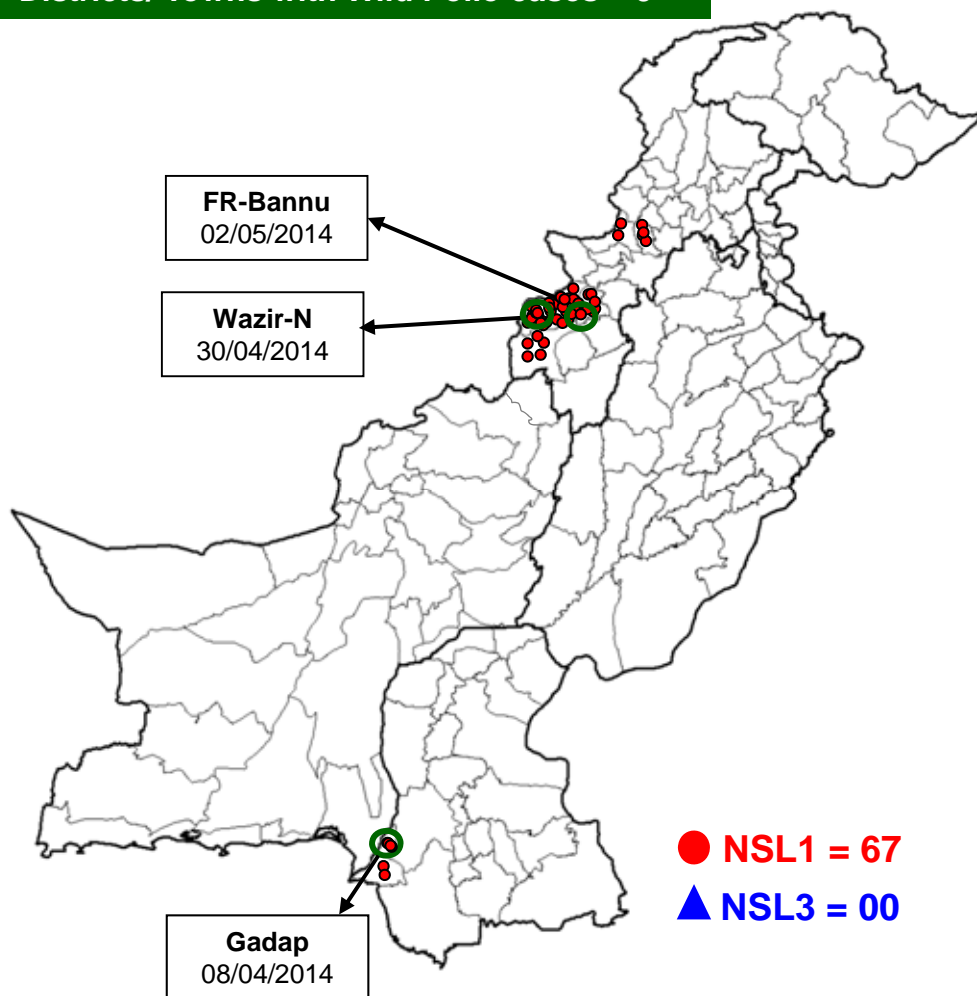
\* Data as of 22-05-2014  
Five (4/5) unscheduled samples from Peshawar are excluded in 2014

Data source Polio RRL



# Map1: Distribution of Wild Polio cases Pakistan 2014\*

Districts/ Towns with Wild Polio cases = 9



Province/ Country	Date of Last Case		Number of cases 2013	
	P1	P3	P1	P3
PUNJAB	Dec, 2013	Jun, 2010	-	-
SINDH	April, 2014	Jan, 2010	5	-
KHYBER- PAKHTUNKHWA	April, 2014	Oct, 2010	9	-
FATA	May, 2014	Apr, 2012	53	-
BALUCHISTAN	Oct, 2012	Apr, 2010	-	-
AJK	June, 2000	Jun, 2000	-	-
GILGIT-BALTISTAN	Aug, 2012	-	-	-
ISLAMABAD	Sep, 2008	Sep, 2008	-	-
<b>PAKISTAN</b>	<b>May, 2014</b>	<b>Apr, 2012</b>	<b>67</b>	<b>-</b>

○ District with last polio case in province

Cases randomly placed  
in districts

— Provincial Boundary  
— Districts Boundary

\* Afp.rec Data as of 22-05-2014

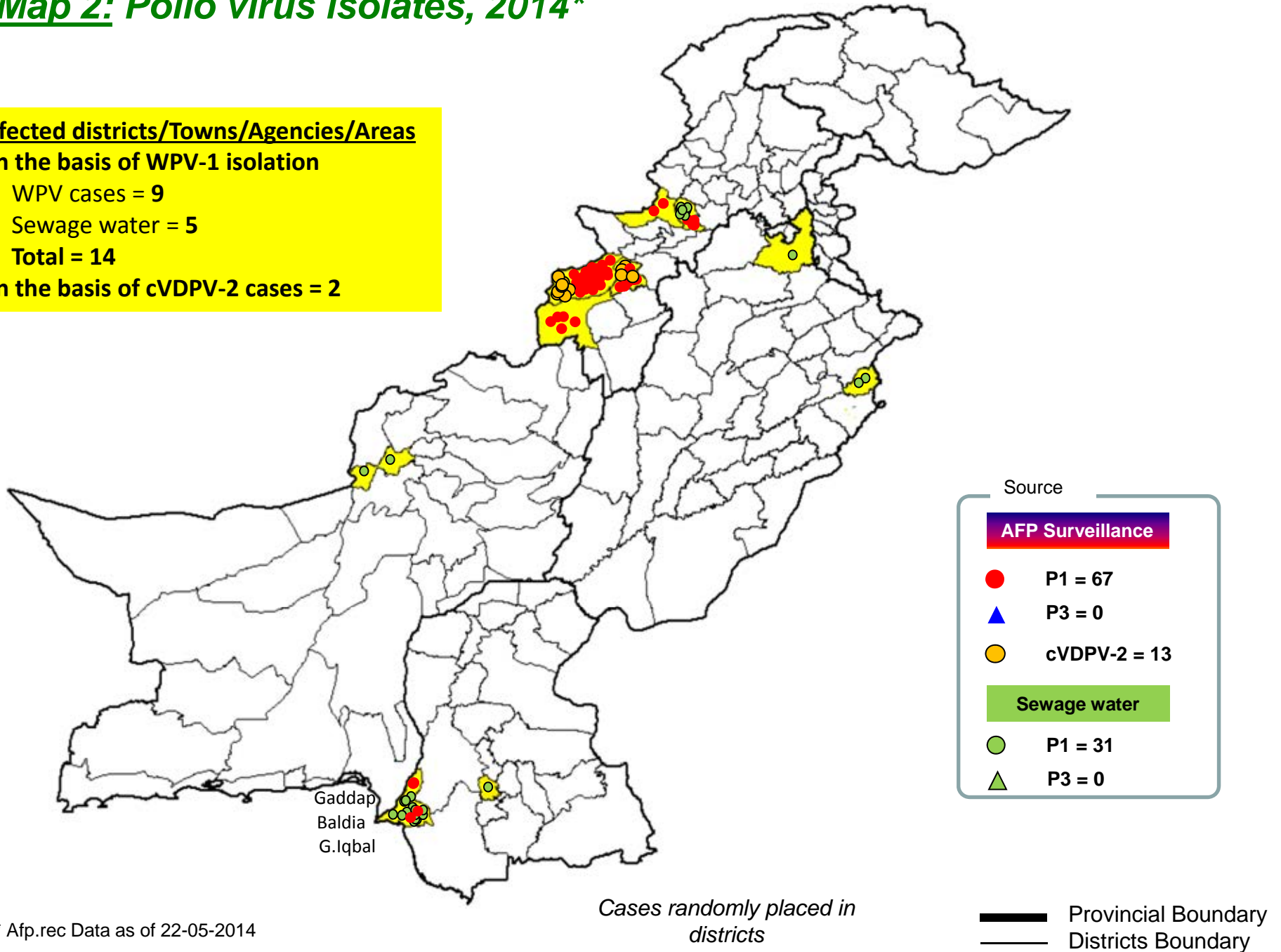
## Map 2: Polio virus isolates, 2014\*

### Infected districts/Towns/Agencies/Areas

#### On the basis of WPV-1 isolation

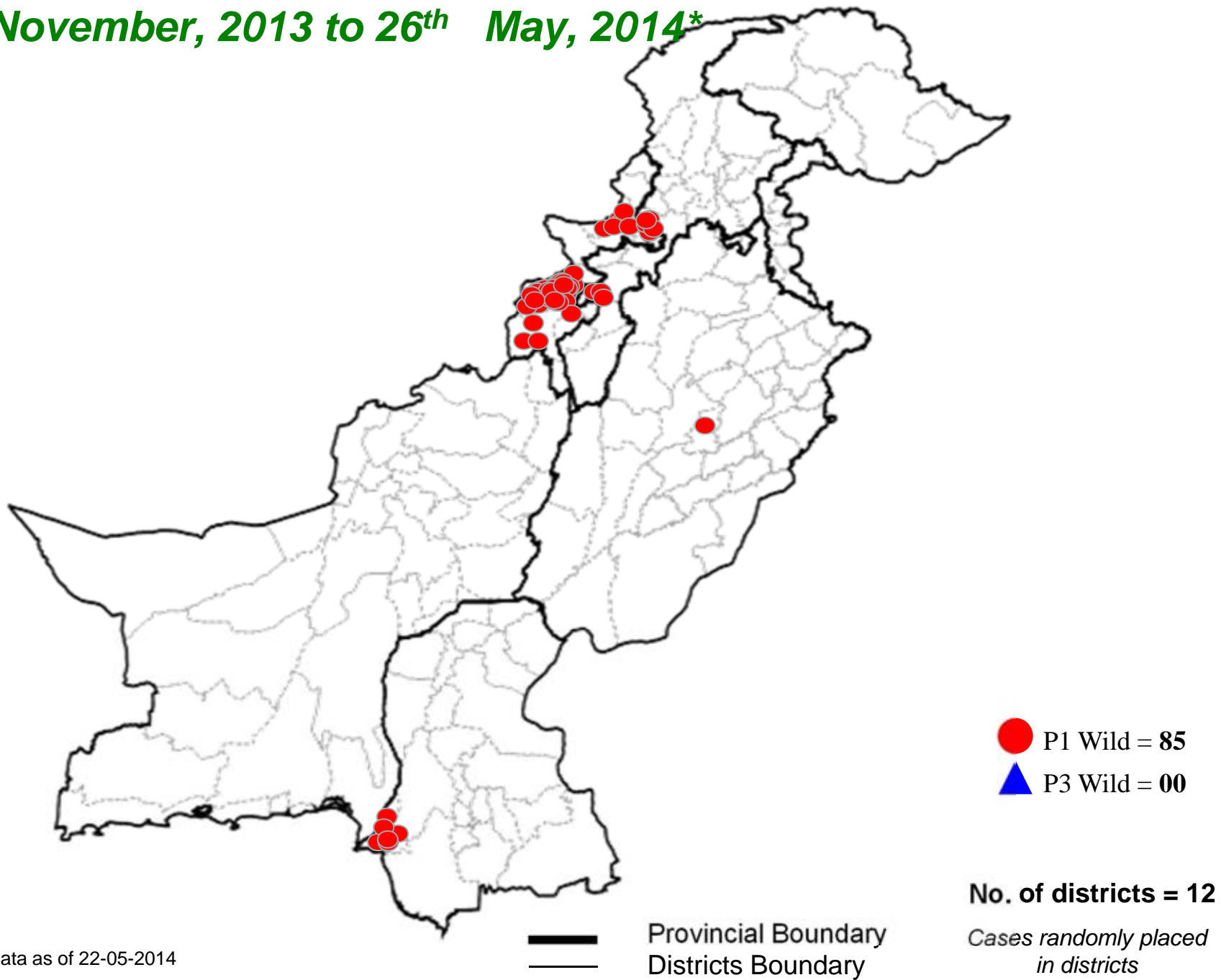
- WPV cases = 9
- Sewage water = 5
- Total = 14

#### On the basis of cVDPV-2 cases = 2



\* Afp.rec Data as of 22-05-2014

**Map 3: Wild Polio cases in the last 6 months from 27<sup>th</sup> November, 2013 to 26<sup>th</sup> May, 2014\***



\* Afp.rec Data as of 22-05-2014

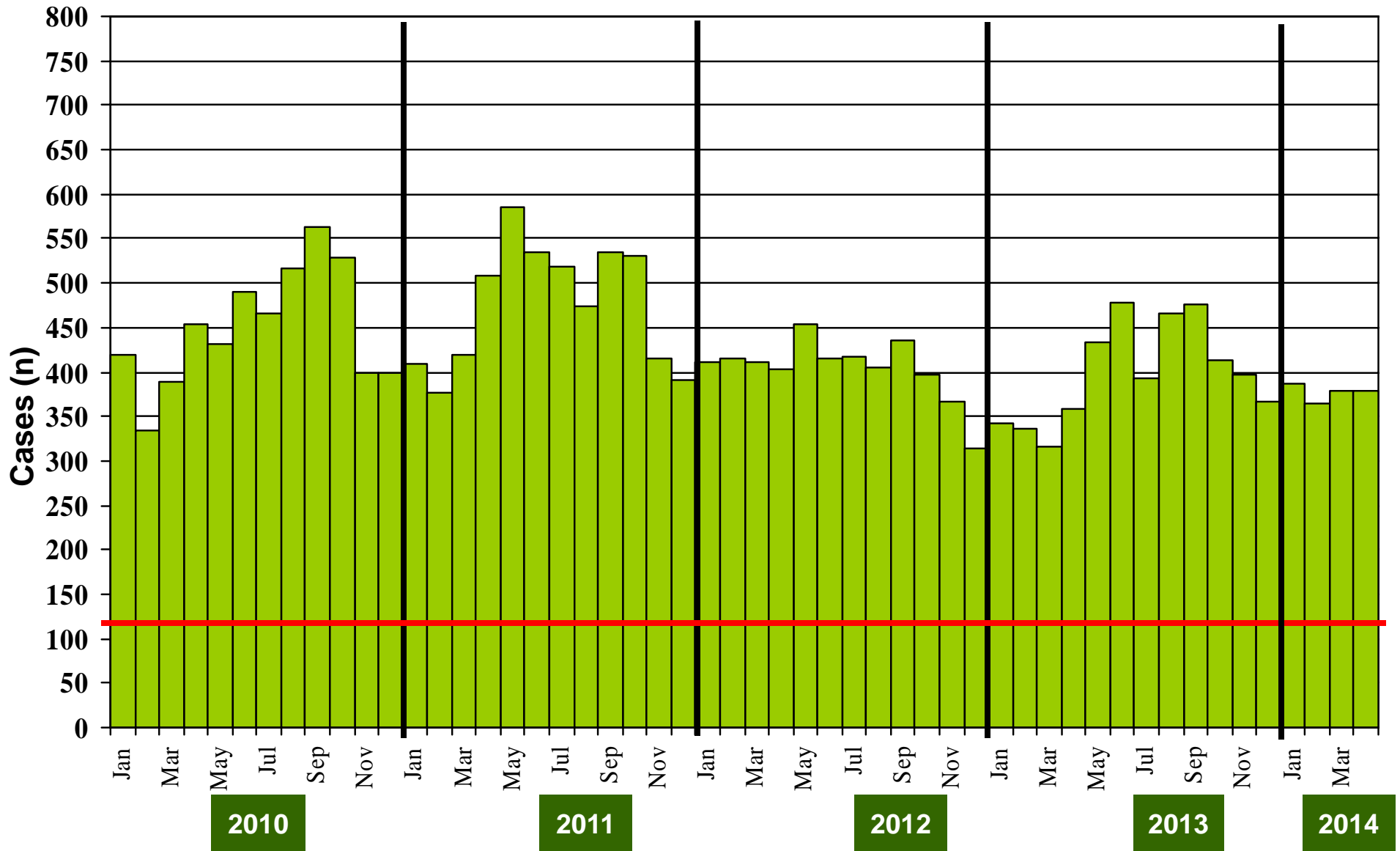
**Table 4: Distribution of AFP Cases By Week of Onset ^  
Pakistan 2013-14\* [Week number/Ending on]**

PROVINCE	W 06 08 Feb 2014	W 07 15 Feb 2014	W 08 22 Feb 2014	W 09 01 Mar 2014	W 10 08 Mar 2014	W 11 15 Mar 2014	W 12 22 Mar 2014	W 13 29 Mar 2014	W 14 05 Apr 2014	W 15 12 Apr 2014	W 16 19 Apr 2014	W 17 26 Apr 2014	W 18 03 May 2014	W 19 10 May 2014	W 20 17 May 2014
PUNJAB	39	42	34	47	39	32	50	39	36	32	60	55	54	60	18
SINDH	20	23	17	20	23	19	26	27	25	24	21	19	20	15	10
KP	24	12	23	18	17	20	19	15	15	15	21	22	20	11	6
FATA	11	12	6	6	7	5	7	7	7	7	5	8	8	8	2
BALUCHISTAN	2	5	5	1	3	1	2	4	1	1	0	6	5	5	0
AJK	2	1	2	1	1	0	0	0	0	0	0	0	0	0	0
GILGIT BILTISTAN	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0
ISLAMABAD	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<b>PAKISTAN</b>	<b>99</b>	<b>95</b>	<b>89</b>	<b>93</b>	<b>90</b>	<b>77</b>	<b>104</b>	<b>92</b>	<b>84</b>	<b>79</b>	<b>109</b>	<b>111</b>	<b>107</b>	<b>99</b>	<b>36</b>

\* Afp.rec & Afplab.rec: Data as of 22-05-2014

^ MMWR Epidemiological Weeks

**Graph 1: Distribution of AFP Cases by Month, Pakistan 2010-2014\***

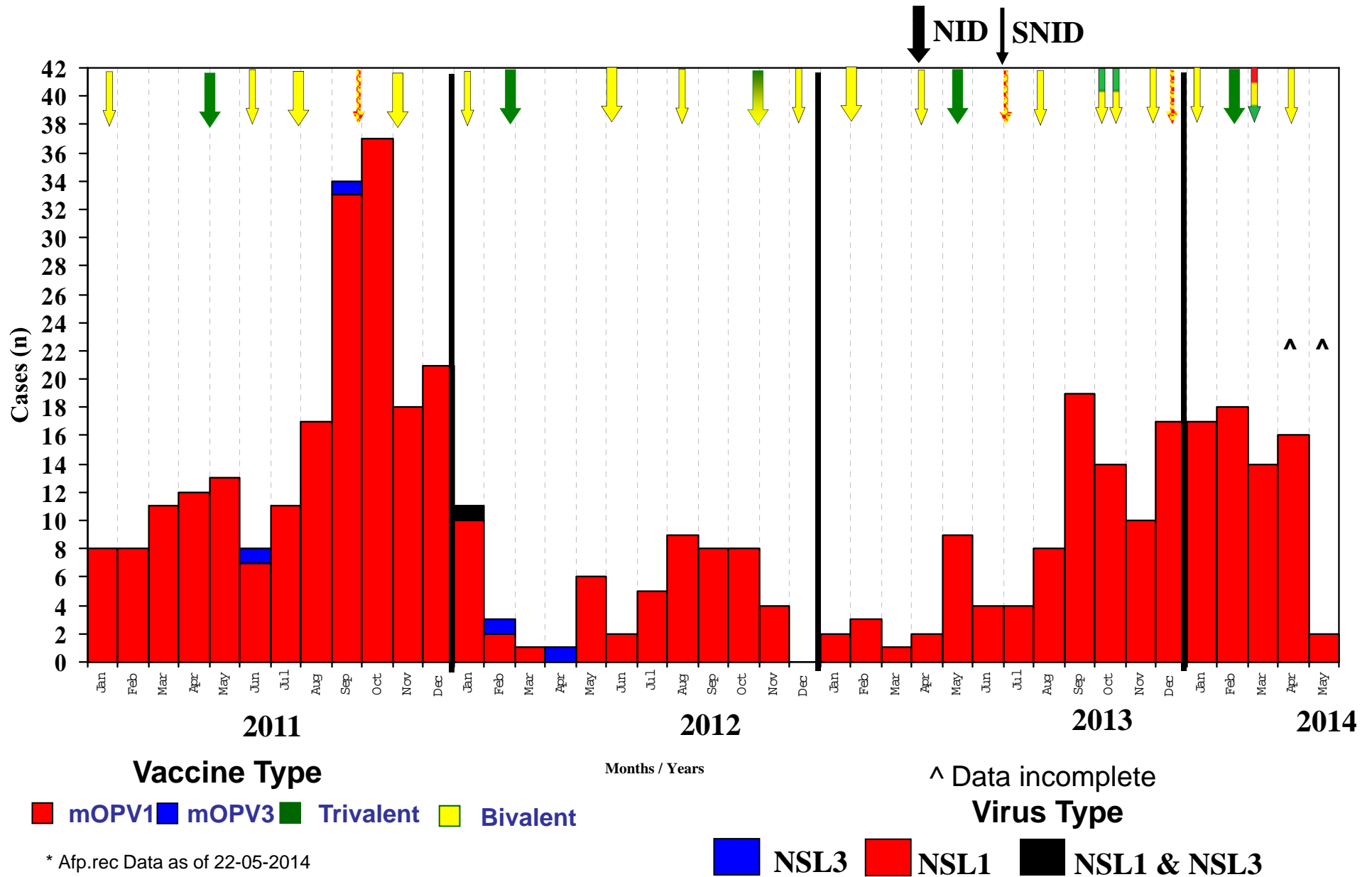


**@ Non-polio AFP rate of 2/100,000 children < 15 years**

\* Afp.rec Data as of 22-05-2014



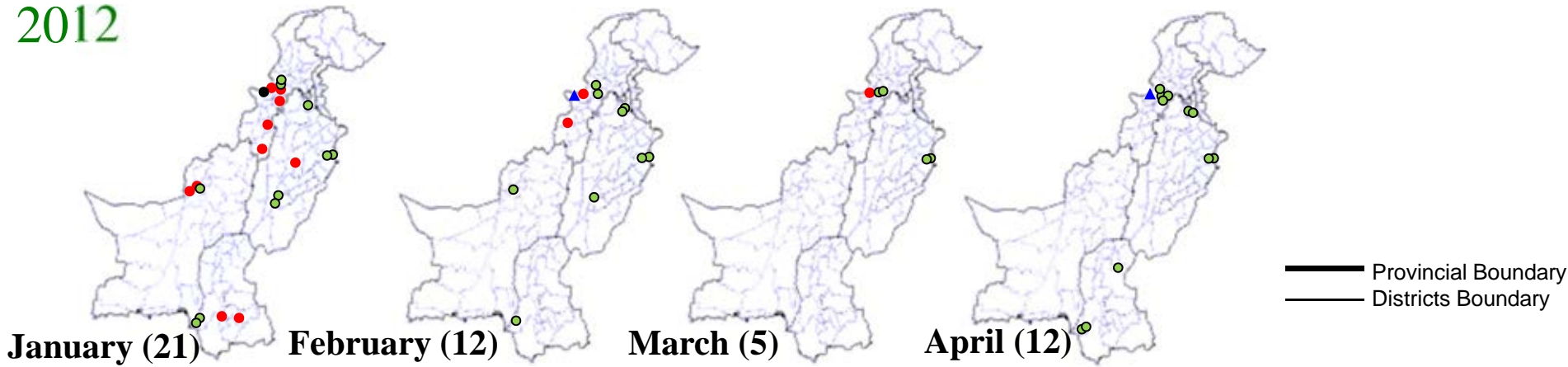
# Confirmed Polio Cases By Poliovirus Type, 2011-2014\*



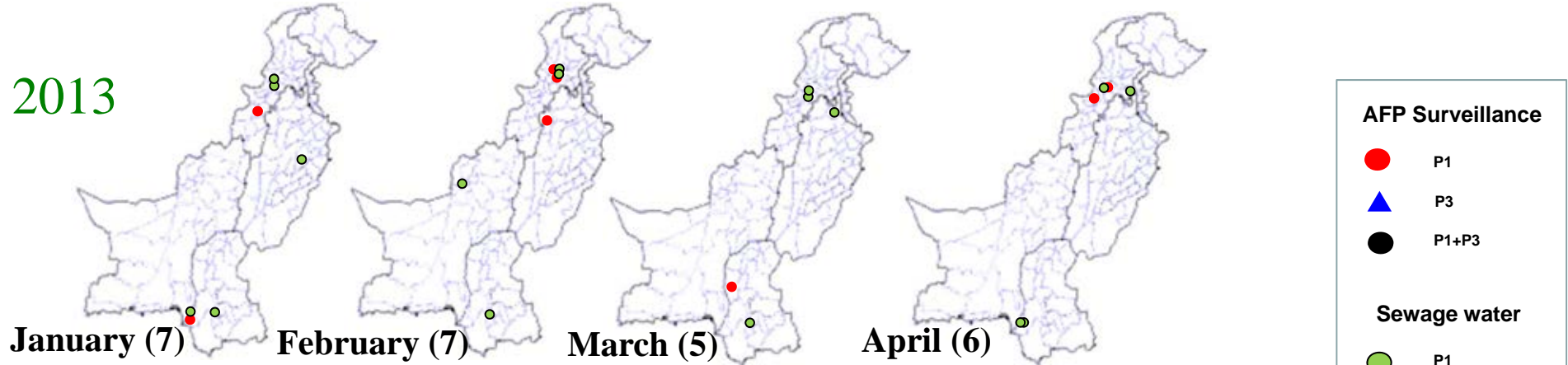
\* Afp.rec Data as of 22-05-2014

# Map 4: Monthly Comparison of P1 & P3 Polio Cases/Isolates 2012-2014\*

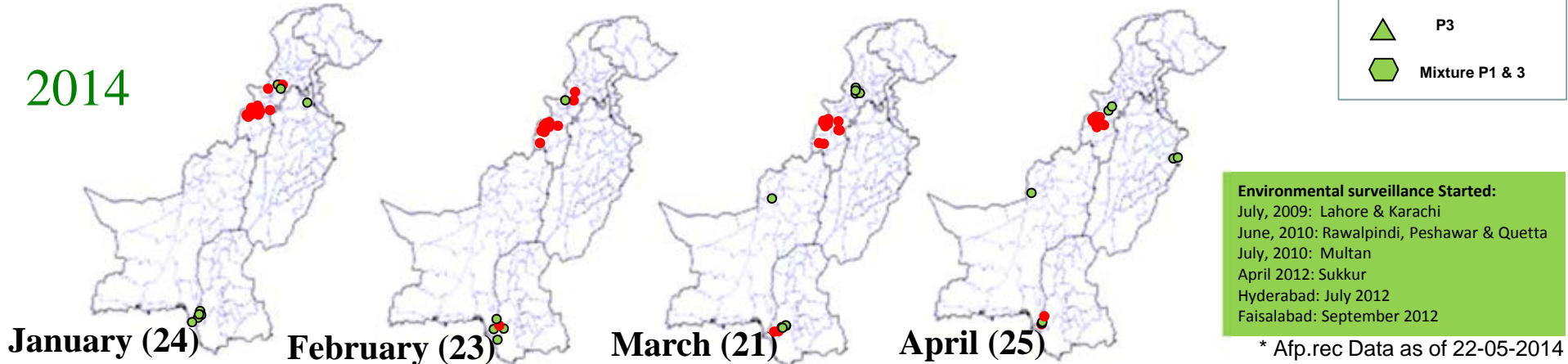
2012



2013



2014



**AFP Surveillance**

- P1
- ▲ P3
- P1+P3

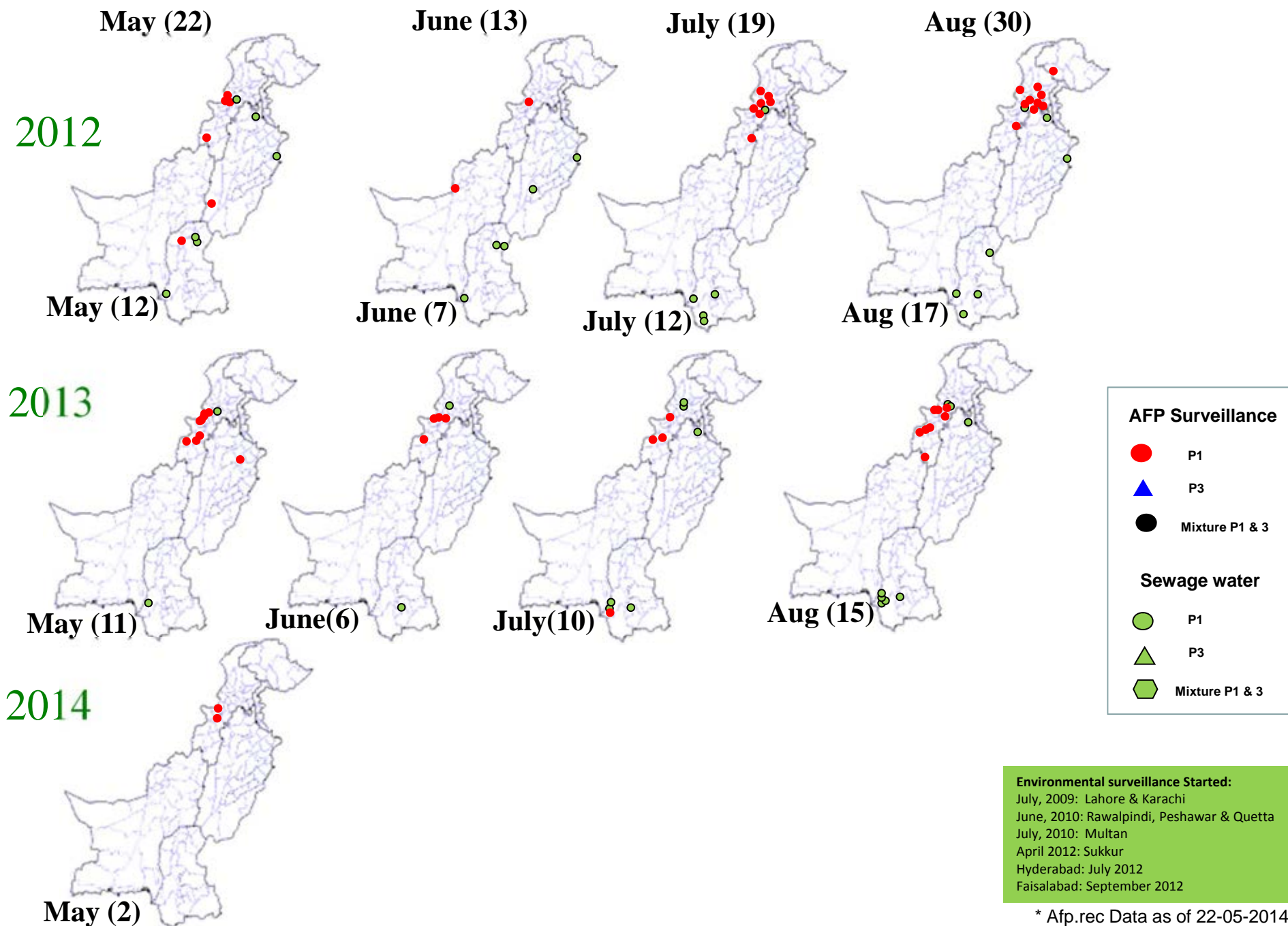
**Sewage water**

- P1
- ▲ P3
- ◈ Mixture P1 & 3

**Environmental surveillance Started:**  
 July, 2009: Lahore & Karachi  
 June, 2010: Rawalpindi, Peshawar & Quetta  
 July, 2010: Multan  
 April 2012: Sukkur  
 Hyderabad: July 2012  
 Faisalabad: September 2012

\* Afp.rec Data as of 22-05-2014

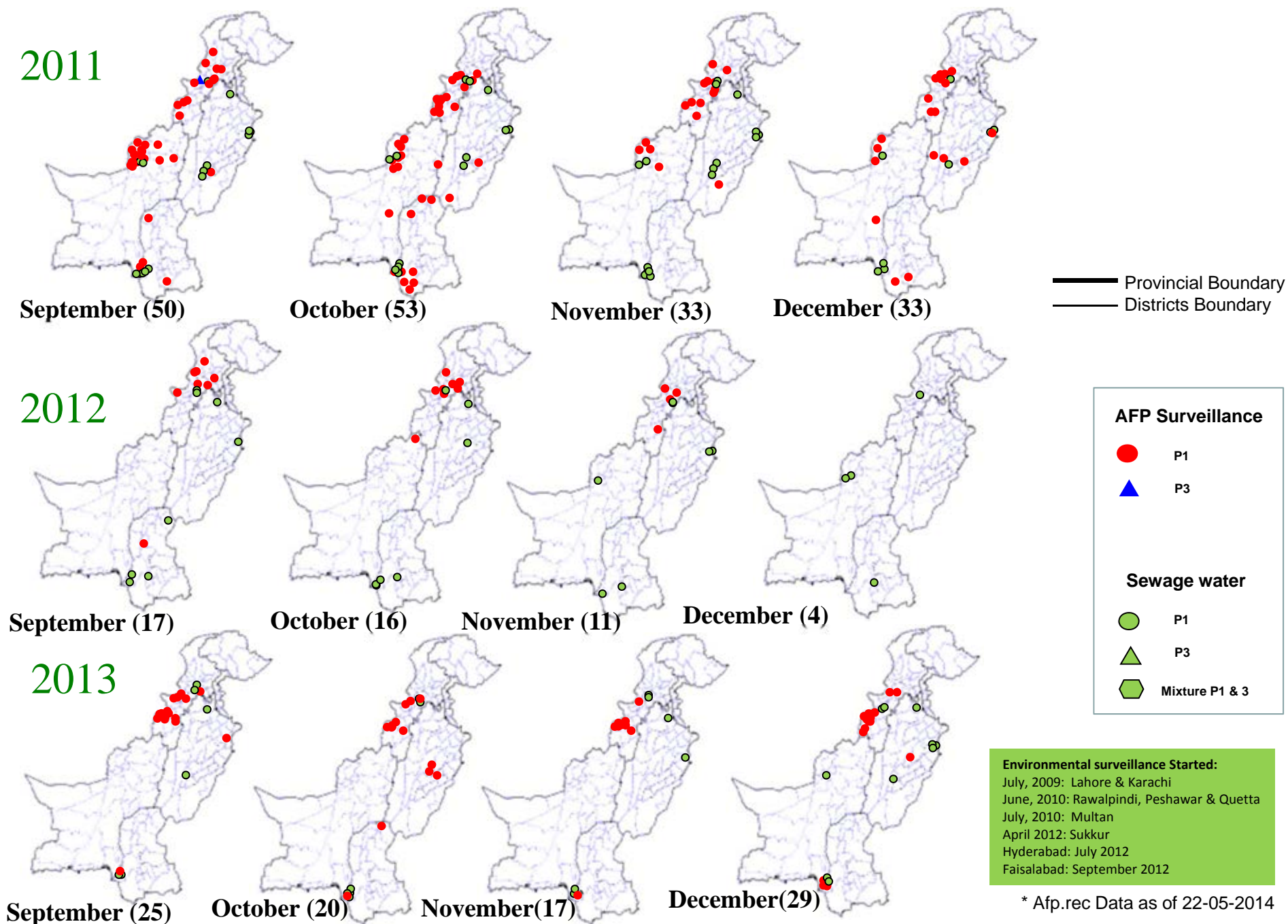
# Map 4.1: Monthly Comparison of P1 & P3 Polio Cases/Isolates 2011-2013\*



\* Afp.rec Data as of 22-05-2014



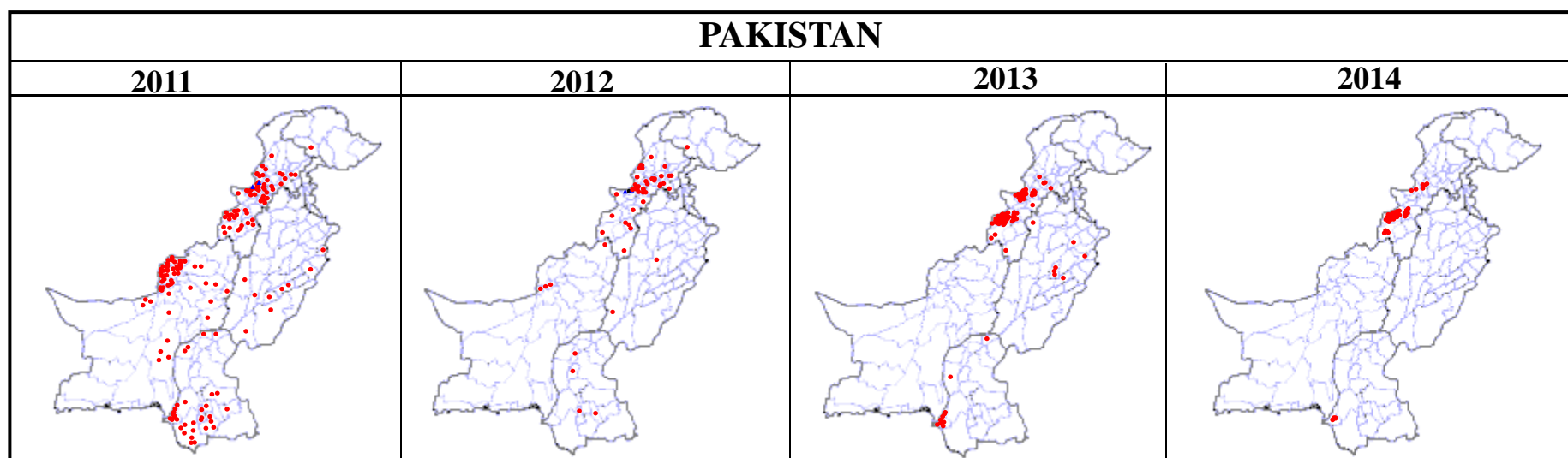
# Map 4.2: Monthly Comparison of P1 & P3 Polio Cases/Isolates 2011-2013\*



## Table 5: Polio Eradication Update, Pakistan 2011-2014\*

Province/Region	Polio 1				Polio 3				Total Wild			
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
PUNJAB	9	2	7	-	0	-	-	-	9	2	7	-
SINDH	33	4	10	5	0	-	-	-	33	4	10	5
KP	23	27	11	9	0	-	-	-	23	27	11	9
FATA^	57	17	65	53	2	2	-	-	59	20^	65	53
BALUCHISTAN	73	4	-	-	0	-	-	-	73	4	-	-
AJK	0	-	-	-	0	-	-	-	0	-	-	-
Gilgit-Baltistan	1	1	-	-	0	-	-	-	1	1	-	-
ISLAMABAD	0	-	-	-	0	-	-	-	0	-	-	-
<b>PAKISTAN</b>	<b>196</b>	<b>55</b>	<b>93</b>	<b>67</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>198</b>	<b>58</b>	<b>93</b>	<b>67</b>

^ FATA reported mixture of NSL1 & NSL3



\* Afp.rec Data as of 22-05-2014

***Table 6: Vaccination status of non polio AFP cases age 6-59 months 2011-2014\****

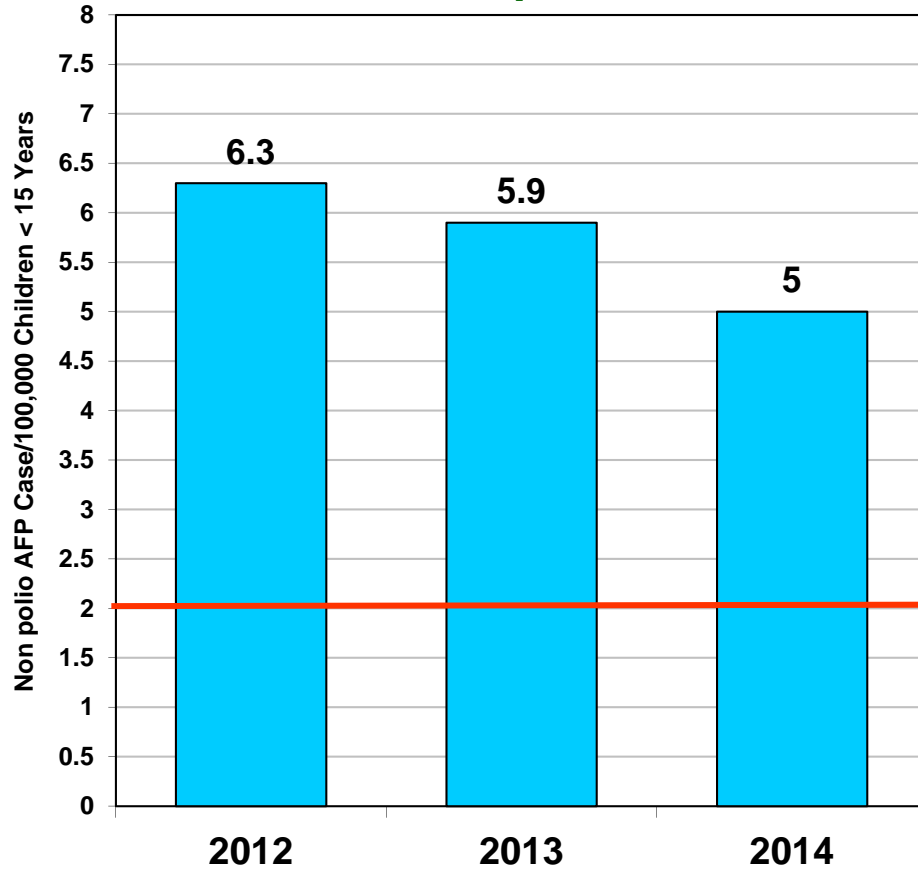
REGION	0 dose				1-2 doses				3 doses				4-6 doses				7+ doses			
	11	12	13	14	11	12	13	14	11	12	13	14	11	12	13	14	11	12	13	14
Central Punjab	0%	0%	0%	0%	1%	0%	0%	0%	2%	0%	1%	2%	6%	4%	7%	3%	92%	95%	91%	95%
North Punjab	0%	0%	0%	0%	1%	0%	0%	1%	1%	0%	0%	1%	5%	4%	4%	5%	93%	96%	96%	93%
South Punjab	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	5%	4%	5%	1%	93%	96%	94%	99%
<b>PUNJAB</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>1%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>1%</b>	<b>0%</b>	<b>0%</b>	<b>1%</b>	<b>5%</b>	<b>4%</b>	<b>6%</b>	<b>2%</b>	<b>93%</b>	<b>96%</b>	<b>93%</b>	<b>96%</b>
Karachi	4%	1%	1%	7%	1%	1%	5%	2%	0%	2%	0%	5%	6%	6%	6%	0%	86%	90%	88%	86%
North Sindh	0%	0%	0%	0%	1%	0%	0%	0%	0%	1%	0%	0%	5%	4%	5%	5%	94%	94%	95%	95%
South Sindh	1%	0%	0%	0%	1%	1%	0%	0%	0%	2%	1%	0%	6%	4%	7%	7%	96%	93%	91%	93%
<b>SINDH</b>	<b>1%</b>	<b>0%</b>	<b>0%</b>	<b>1%</b>	<b>1%</b>	<b>1%</b>	<b>1%</b>	<b>0%</b>	<b>0%</b>	<b>1%</b>	<b>0%</b>	<b>1%</b>	<b>6%</b>	<b>4%</b>	<b>5%</b>	<b>5%</b>	<b>92%</b>	<b>93%</b>	<b>92%</b>	<b>92%</b>
Central Khyber Pakhtunkhwa	1%	2%	2%	1%	1%	1%	1%	0%	0%	0%	1%	2%	3%	2%	2%	4%	95%	95%	95%	93%
North Khyber Pakhtunkhwa	1%	2%	1%	3%	2%	2%	1%	0%	1%	2%	1%	1%	7%	9%	7%	6%	90%	85%	91%	90%
South Khyber Pakhtunkhwa	2%	2%	1%	0%	4%	1%	0%	0%	4%	1%	1%	0%	7%	9%	4%	0%	83%	87%	95%	100%
<b>Khyber Pakhtunkhwa</b>	<b>1%</b>	<b>2%</b>	<b>1%</b>	<b>2%</b>	<b>2%</b>	<b>1%</b>	<b>0%</b>	<b>0%</b>	<b>1%</b>	<b>1%</b>	<b>1%</b>	<b>2%</b>	<b>5%</b>	<b>6%</b>	<b>4%</b>	<b>4%</b>	<b>91%</b>	<b>89%</b>	<b>94%</b>	<b>93%</b>
<b>FATA</b>	<b>14%</b>	<b>18%</b>	<b>39%</b>	<b>60%</b>	<b>10%</b>	<b>6%</b>	<b>6%</b>	<b>8%</b>	<b>5%</b>	<b>3%</b>	<b>6%</b>	<b>2%</b>	<b>11%</b>	<b>12%</b>	<b>6%</b>	<b>0%</b>	<b>61%</b>	<b>62%</b>	<b>43%</b>	<b>30%</b>
North Balochistan	4%	12%	9%	14%	12%	10%	11%	0%	23%	3%	3%	14%	12%	17%	28%	0%	50%	57%	49%	71%
Quetta Block	31%	14%	8%	0%	10%	10%	8%	9%	3%	0%	0%	0%	14%	14%	9%	0%	43%	62%	64%	82%
Rest of Balochistan	7%	9%	5%	0%	2%	6%	3%	5%	5%	5%	5%	14%	10%	10%	25%	10%	76%	70%	60%	71%
<b>BALUCHISTAN</b>	<b>16%</b>	<b>8%</b>	<b>6%</b>	<b>2%</b>	<b>6%</b>	<b>8%</b>	<b>6%</b>	<b>2%</b>	<b>6%</b>	<b>3%</b>	<b>4%</b>	<b>7%</b>	<b>12%</b>	<b>17%</b>	<b>20%</b>	<b>5%</b>	<b>60%</b>	<b>64%</b>	<b>64%</b>	<b>84%</b>
<b>PAKISTAN</b>	<b>2%</b>	<b>1%</b>	<b>3%</b>	<b>3%</b>	<b>1%</b>	<b>1%</b>	<b>1%</b>	<b>1%</b>	<b>1%</b>	<b>1%</b>	<b>1%</b>	<b>1%</b>	<b>6%</b>	<b>5%</b>	<b>6%</b>	<b>3%</b>	<b>89%</b>	<b>92%</b>	<b>89%</b>	<b>91%</b>

\* Afp.rec Data as of 22-05-2014

# Key Surveillance Indicators; 2012-2014\*

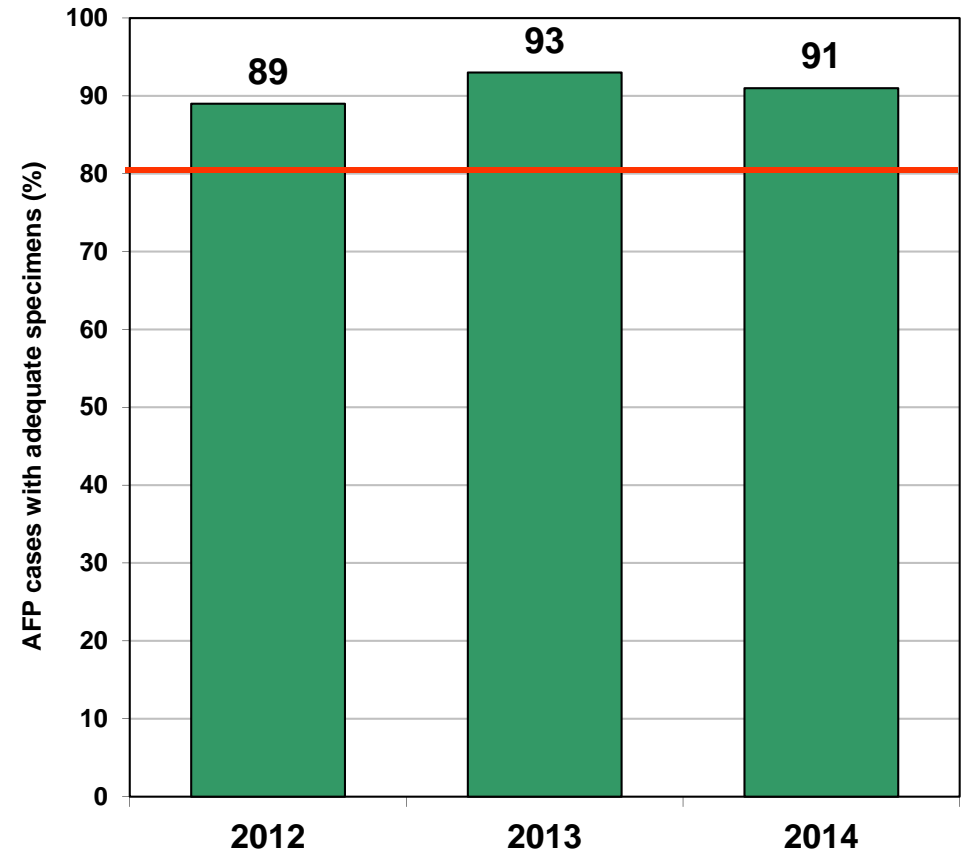
(Non polio AFP rate and % AFP cases with adequate specimens)

### Graph 3



■ Non Polio AFP Rate

### Graph 4



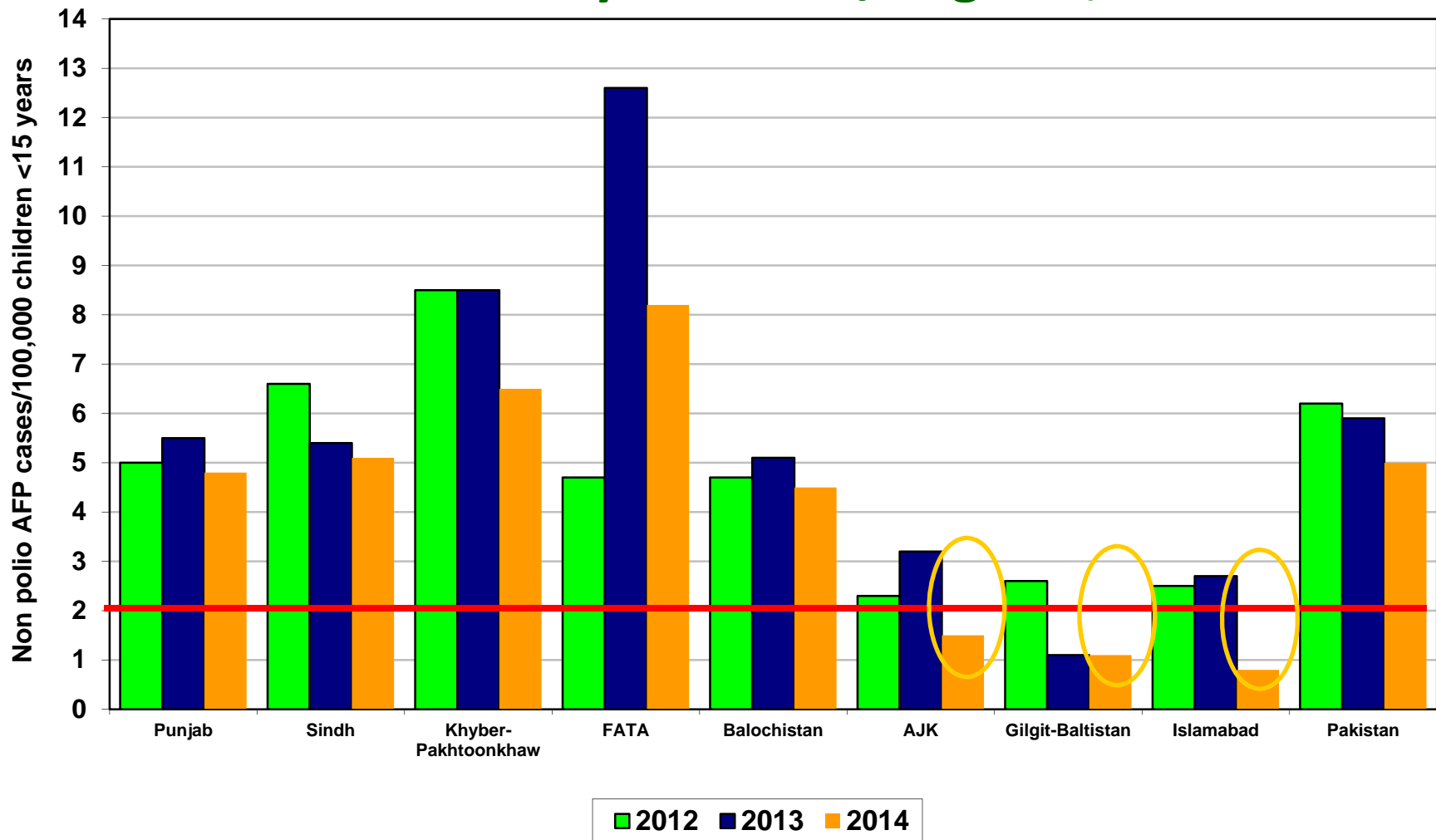
■ % AFP with Adequate Specimens

— Target

Non Polio AFP rate Up to Week No. 20 ended on 17<sup>th</sup> May, 2014

\* Afp.rec Data as of 22-05-2014

# Non Polio AFP Rate By Province/Regions, 2012-2014\*



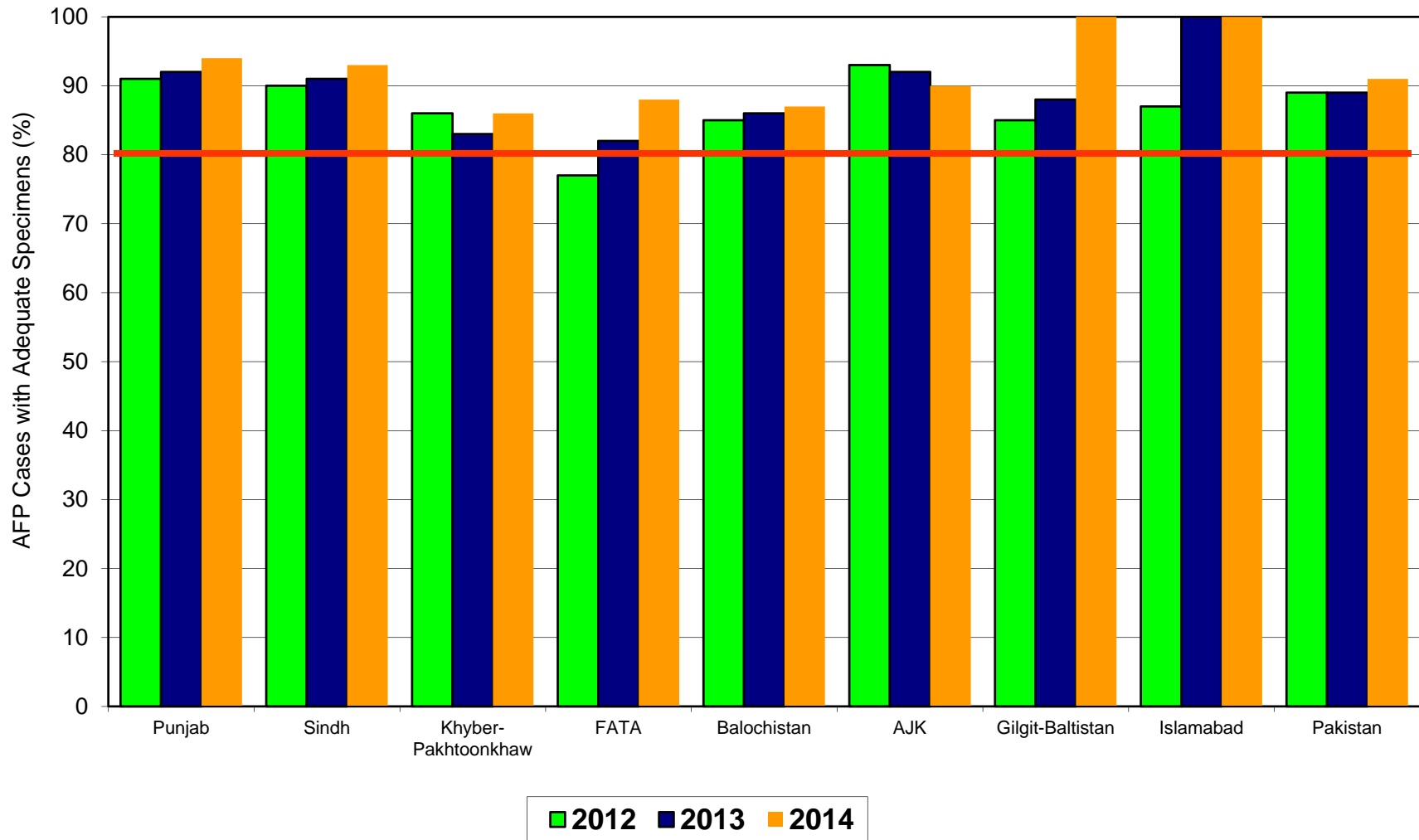
Non Polio AFP rate Up to Week No. 20 ended on 17<sup>th</sup> May, 2014

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

\* Afp.rec Data as of 22-05-2014



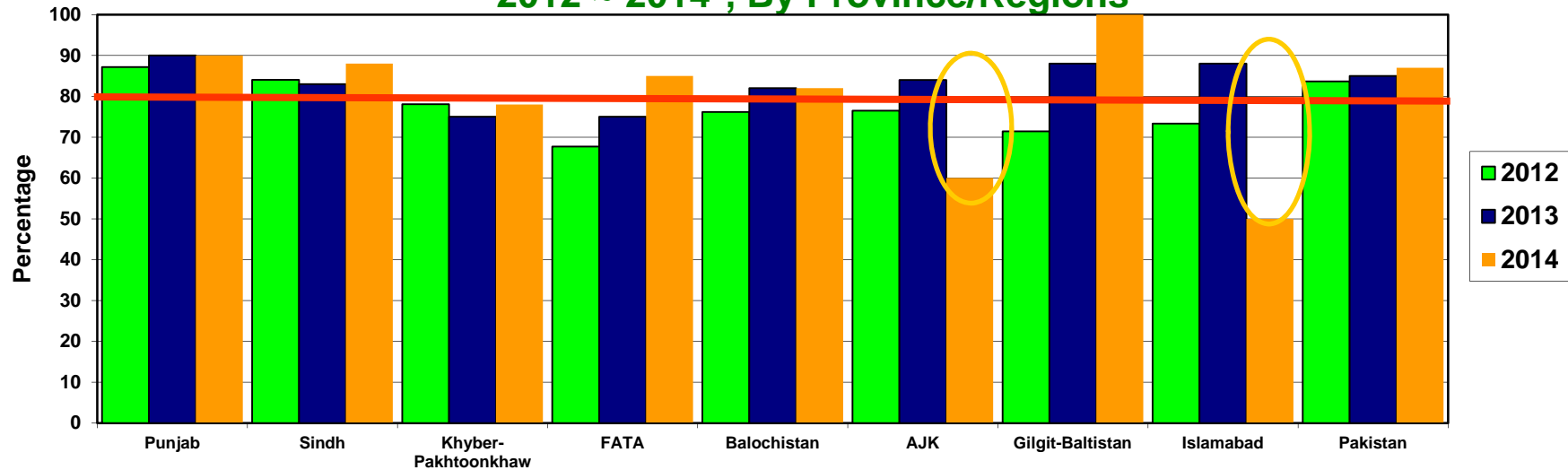
# Percent AFP Cases with Adequate Specimens By Province/Regions, 2012-2014\*



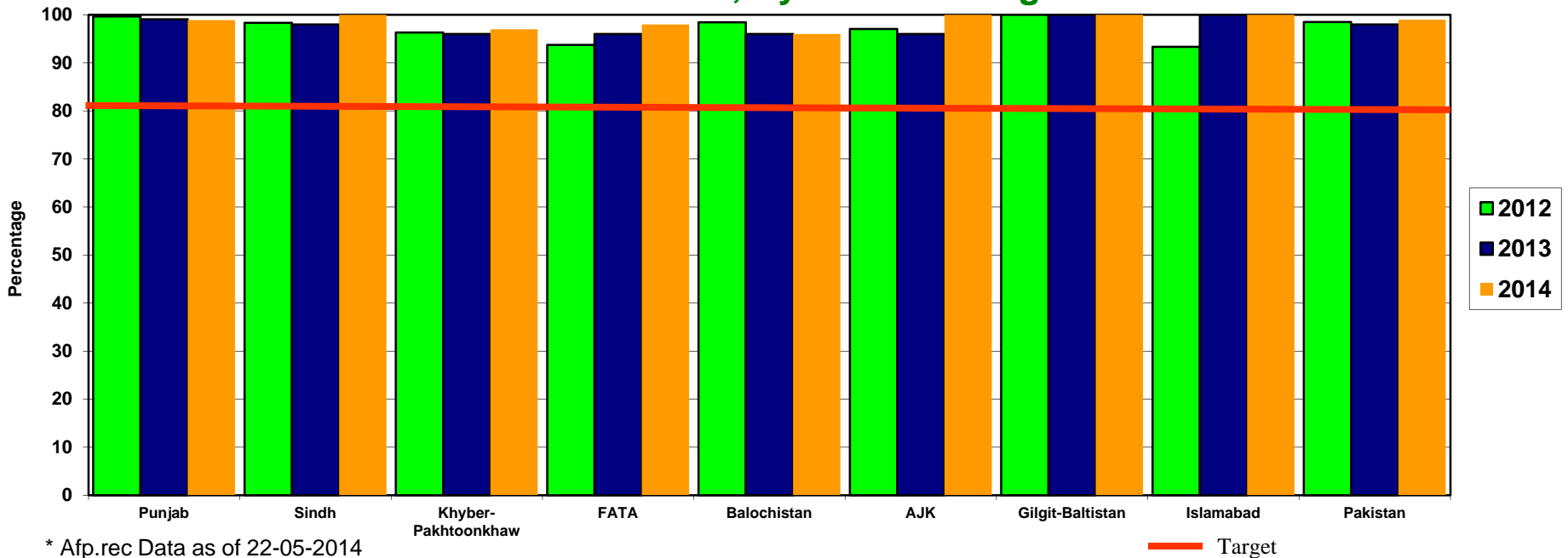
\* Afp.rec Data as of 22-05-2014

 Target Adequate Sample cases = 80%

**Graph 5: Percent AFP Cases Notified within 07 days of paralysis onset  
2012 ~ 2014\*, By Province/Regions**



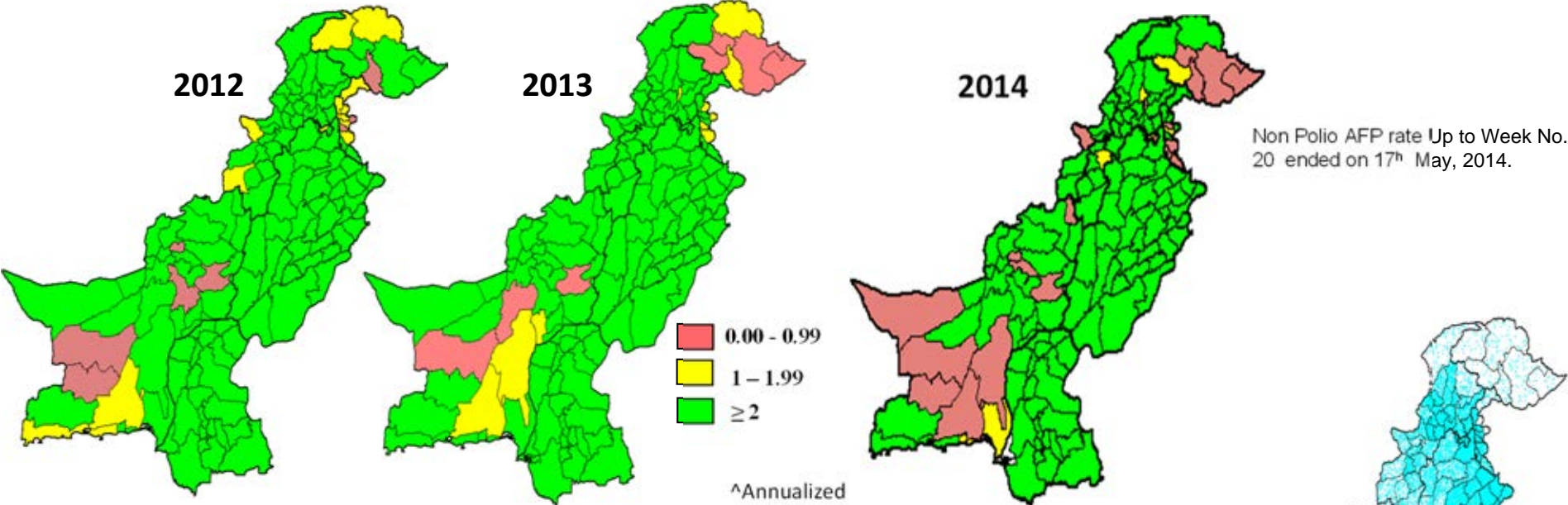
**Graph 6: Percent AFP Cases Investigated within 48 hours of notification  
2012 ~ 2014\*, By Province/Regions**



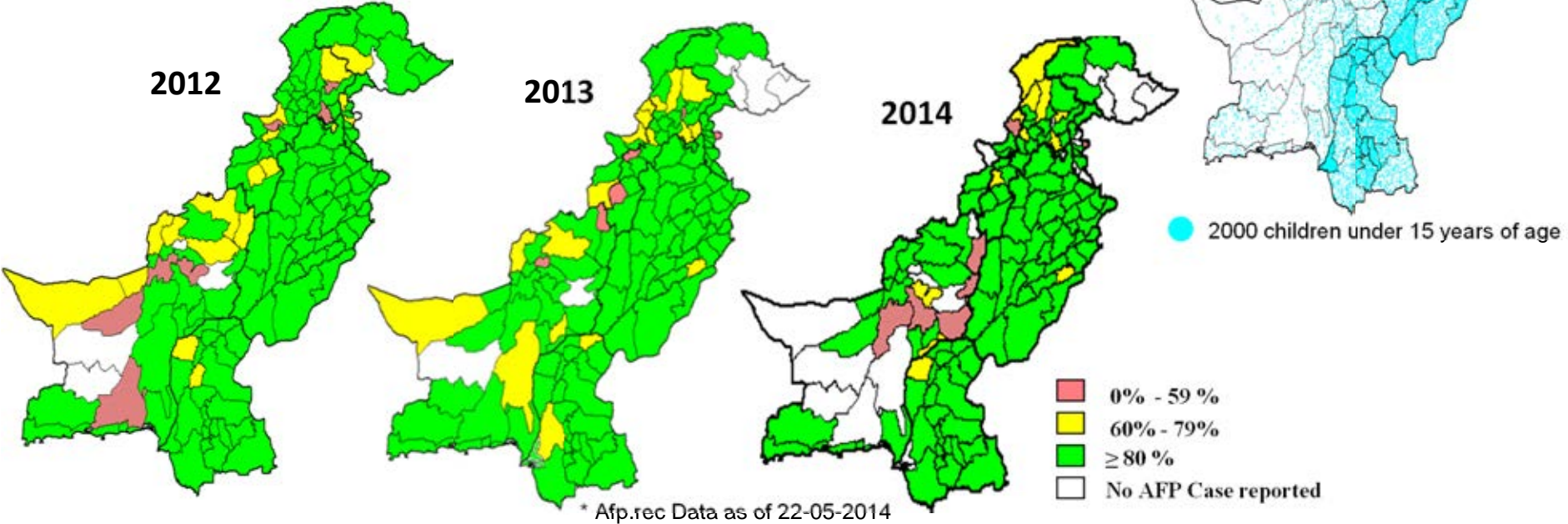
\* Afp.rec Data as of 22-05-2014

— Target

### Non-Polio^ AFP Rate by District



### Percent AFP Cases with Adequate Specimens, by District



\* Afp.rec Data as of 22-05-2014

**Table 7: AFP CASES PENDING FOR CLASSIFICATION WITH DATE OF ONSET MORE THAN 90 DAYS\* 2013 (1/1)**

S. No	DISTRICT	TEHSIL	EPID	SEX	AGE	DONSET	DOSESE	DSTOOL1	DSTOOL2	LAB	FEVER	ASYM	PROG	FUP	PEND (DAYS)
1	KHIGADAP	GADAP	SD/63/13/021	F	10	8/23/2013	1	9/23/2013	9/24/2013	NVI	Y	Y	Y	Y	272
2	KHIGADAP	GADAP	SD/63/13/031	M	14	7/15/2013	7+	Late Notified			Y	Y	Y	Y	311
3	BAGH	BAGH	AJ/50/13/012	F	34	12/22/2013	7+	1/14/2014	1/17/2014	NVI	Y	Y	Y	Y	151
4	GHIZER	PUNIAL	GB/41/13/001	M	66	9/2/2013	7+	9/6/2013		EV	N	Y	Y	DIED	262

€ Based on recall of parents  
 \* Afp.rec Data as of 22-05-2014

FUP = Residual Weakness at 60 days follow up.

**Table 7.1: AFP CASES PENDING FOR CLASSIFICATION WITH DATE OF ONSET MORE THAN 90 DAYS\* 2014 (1/1)**

S. No	DISTRICT	TEHSIL	EPID	SEX	AGE	DONSET	DOSES€	DSTOOL1	DSTOOL2	LAB	FEVER	ASYM	PROG	FUP	PEND (DAYS)
1	FAISALABAD	JARANWALA	PB/51/14/024	F	132	1/5/2014	7+	Late Notified			Y	Y	Y	Y	137
2	RAWALPINDI	RAWALPINDI	PB/11/14/004	M	10	1/26/2014	7+	2/12/2014		NVI	Y	Y	Y	Y	116
3	KHAIRPUR	KHAIRPUR	SD/43/14/003	F	72	1/28/2014	7+	Child Died Before Stool Collection			Y	Y	Y	DIED	114
4	KHIGADAP	GADAP	SD/63/14/004	M	10	1/5/2014	0	3/5/2014	3/6/2014	EV	Y	Y	Y	Y	137
5	KHIJAMSHEED	JAMSHEED	SD/66/14/001	F	121	1/14/2014	7+	1/27/2014	1/29/2014	NVI	Y	N	Y		128
6	KHIKORANGI	KORANGI	SD/68/14/001	M	23	1/5/2014	7+	Child Died Before Stool Collection			N	N	N	DIED	137
7	UMERKOT	SAMARO	SD/34/14/002	F	24	1/14/2014	7+				Y	N	Y	DIED	128
8	CHARSADA	SHABQADAR	KP/31/14/005	M	10	1/26/2014	7+	2/8/2014	2/10/2014	EV	N	Y	Y		116
9	CHARSADA	CHARSADA	KP/31/14/013	F	25	1/26/2014	7+	3/21/2014	3/23/2014	EV	N	Y	Y		116
10	CHITRAL	CHITRAL	KP/21/14/001	M	48	1/22/2014	7+	1/31/2014			Y	N	Y		120
11	DIKHAN	PAHARPUR	KP/60/14/001	F	4	2/2/2014	4	2/16/2014	2/18/2014	NVI	Y	N	Y	DIED	109
12	DIRLOWER	SAMAR BAGH	KP/23/14/004	M	9	2/1/2014	7+	2/18/2014	2/19/2014	NVI	Y	Y	N	Y	110
13	DIRUPPER	DIR	KP/25/14/002	F	42	2/16/2014	7+	3/9/2014	3/10/2014	EV	Y	Y	Y		95
14	HARIPUR	HARIPUR	KP/12/14/001	M	18	1/6/2014	7+	2/19/2014	2/21/2014	NVI	Y	Y	Y	Y	136
15	HARIPUR	HARIPUR	KP/12/14/002	M	18	2/18/2014	7+	Child Died Before Stool Collection			Y	N	Y	DIED	93
16	KOHAT	KOHAT	KP/50/14/006	F	54	2/1/2014	7+	3/2/2014	3/3/2014	NVI	Y	N	Y	DIED	110
17	PESHAWAR	PESHAWAR	KP/30/14/007	F	18	1/30/2014	5	Child Died Before Stool Collection			Y	Y	Y	DIED	112
18	BARKHAN	BARKHAN	BN/23/14/001	M	36	1/19/2014	3	1/30/2014		NVI	Y	Y	UK	DIED	123
19	DBUGTI	DERA BUGTI	BN/35/14/001	M	33	1/20/2014	7+	2/22/2014	2/23/2014	NVI	Y	Y	Y		122
20	JAFARABAD	JHAT PAT	BN/43/14/005	F	14	2/5/2014	7+	2/19/2014	2/21/2014	NVI	Y	Y	Y	Y	106
21	KALAT	KALAT	BN/53/14/001	M	120	2/1/2014	7+	3/1/2014	3/4/2014	NVI	N	Y	Y	Y	110
22	HAVELI	HAVELI	AJ/51/14/002	F	120	2/16/2014	3	Late Notified			Y	N	Y	Y	95
23	BAJOUR	BARANG	FT/33/14/006	F	23	2/12/2014	7+	3/2/2014	3/3/2014	VACC	N	Y	Y		99
24	FR BANNU	FR BANNU	FT/69/14/011	M	8	2/3/2014	0	2/20/2014	2/21/2014	NVI	Y	Y	Y		108
25	KHYBER	JAMRUD	FT/34/14/008	M	30	1/7/2014	7+	2/9/2014	2/11/2014	NVI	Y	Y	Y	Y	135
26	WAZIR-N	MIRAN SHAH	FT/64/14/044	M	12	1/27/2014	0	3/2/2014	3/3/2014	VACC	Y	Y	Y		115

€ Based on recall of parents

\* Afp.rec Data as of 22-05-2014

60 days Follow-up not done

FUP = Residual Weakness at 60 days follow up.