CAMBODIA MALARIA BULLETIN

JUNE 2013 BULLETIN, DATA TO 2ND QUARTER, CNM, CAMBODIA

Estimated coverage with LLIN or retreated mosquito net	Target [1]	Mobile [2]
No. of persons at risk of malaria	3,340,275	448,680
No. of LLIN distributed YTD	2,072	2,024
No. of LLIHN distributed YTD	1,607	167
No. of conventional nets distributed and retreated YTD	23,553	300
No. of long lasting nets distributed in last 3 years	2,921,313	2,191
Estimated coverage with LLIN / treated net (1 net / 1 pers)	88%	1%

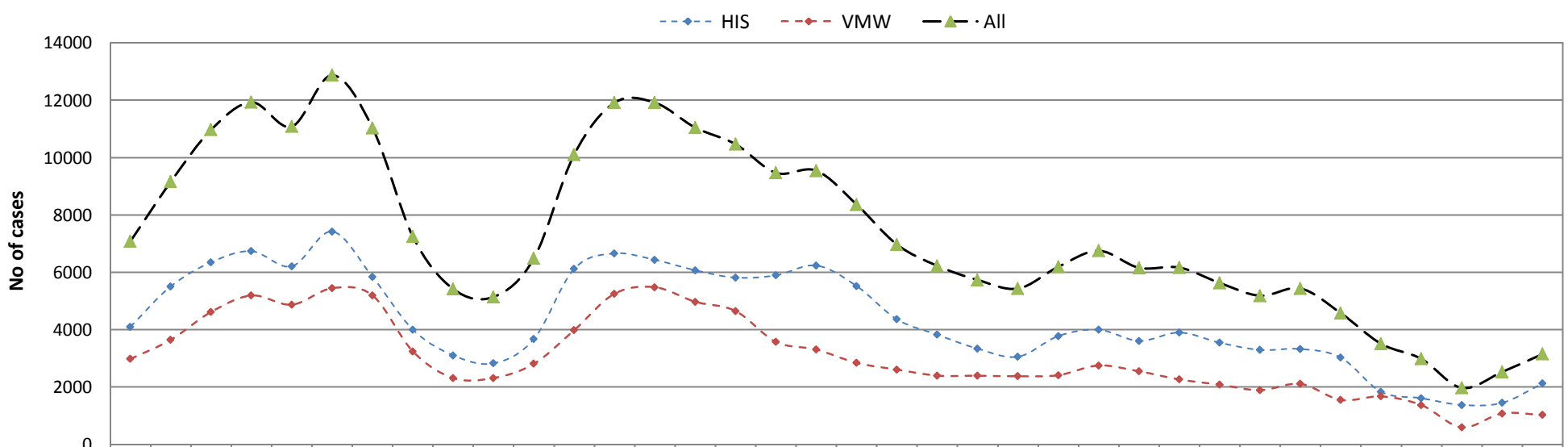
[1] Pop of target villages [2] Mobile pop (est from census)

National Surveillence data for the period Jan - Jun									
Indicators	HIS			VMW			**Total**		
	2012	2013	Change	2012	2013	Change	**2012**	**2013**	**Change**
Malaria cases	23,879	11,415	-52%	15,036	7,288	-52%	**38,915**	**18,703**	**-52%**
Malaria Incidence [3]	1.62	0.76	-53%	12.80	6.43	-50%	2.65	1.24	-53%
Malaria deaths	28	3	-89%	0	0	0%	**28**	**3**	-89%
Mortality rate [4]	0.19	0.02	-90%	0.00	0.00	0%	0.19	0.02	-90%

[3] Cases per 1000 pop [4] Deaths per 100,000 pop [4 5] VMW rates uses VMW village populations

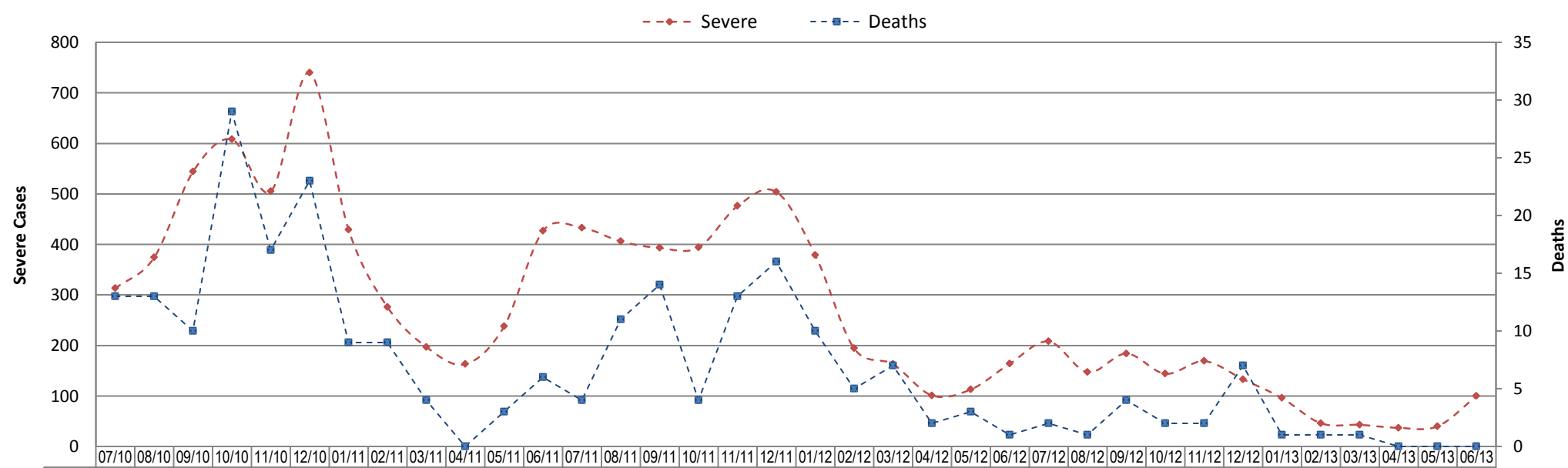
TRENDS IN SURVEILLANCE

Treated malaria cases from HIS and VMW by month



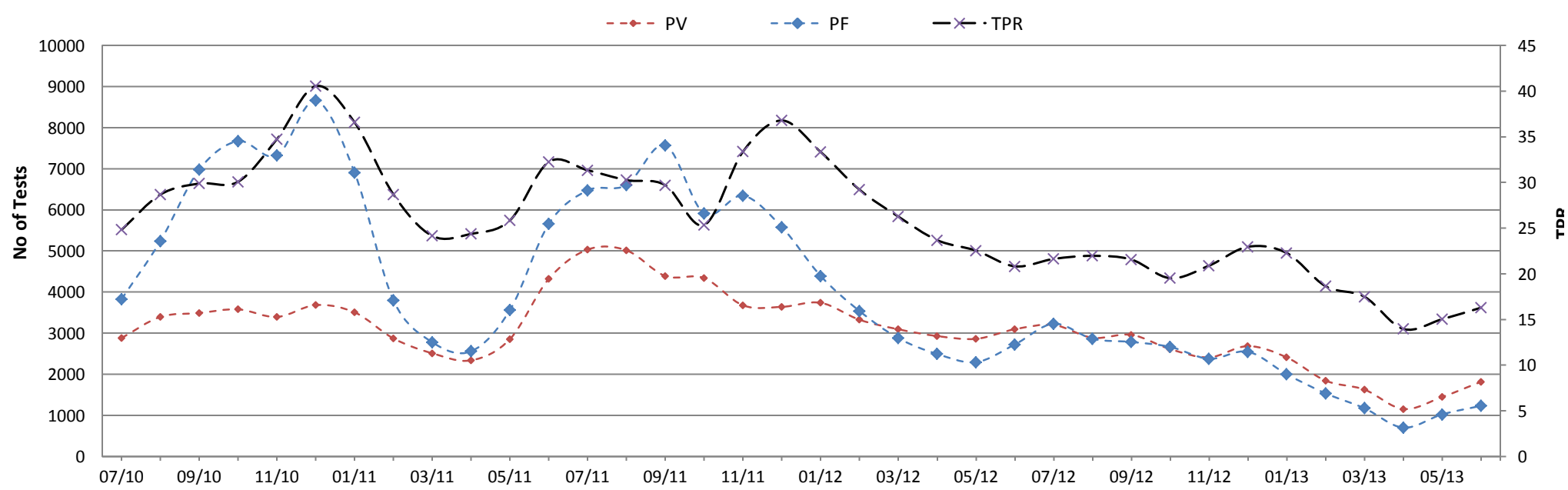
	07/10	08/10	09/10	10/10	11/10	12/10	01/11	02/11	03/11	04/11	05/11	06/11	07/11	08/11	09/11	10/11	11/11	12/11	01/12	02/12	03/12	04/12	05/12	06/12	07/12	08/12	09/12	10/12	11/12	12/12	01/13	02/13	03/13	04/13	05/13	06/13
HIS	4101	5510	6351	6737	6209	7423	5841	4005	3104	2827	3672	6123	6659	6434	6071	5815	5893	6236	5521	4359	3826	3337	3057	3779	3999	3608	3900	3547	3293	3327	3026	1834	1610	1375	1449	2122
VMW	2980	3645	4619	5192	4871	5447	5195	3243	2315	2315	2811	3985	5255	5480	4973	4650	3573	3307	2843	2608	2400	2396	2376	2414	2752	2549	2265	2081	1890	2111	1550	1673	1371	595	1079	1027
All	7081	9155	10970	11929	11080	12870	11036	7248	5419	5142	6483	10108	11914	11914	11044	10465	9466	9543	8364	6967	6226	5733	5433	6193	6751	6157	6165	5628	5183	5438	4576	3507	2981	1970	2528	3149

Severe malaria cases and deaths from HIS by month



	07/10	08/10	09/10	10/10	11/10	12/10	01/11	02/11	03/11	04/11	05/11	06/11	07/11	08/11	09/11	10/11	11/11	12/11	01/12	02/12	03/12	04/12	05/12	06/12	07/12	08/12	09/12	10/12	11/12	12/12	01/13	02/13	03/13	04/13	05/13	06/13
Severe	313	374	544	608	505	740	429	276	197	163	238	427	433	406	393	394	476	504	379	194	163	101	113	164	208	147	184	144	169	133	96	46	43	37	40	100
Deaths	13	13	10	29	17	23	9	9	4	0	3	6	4	11	14	4	13	16	10	5	7	2	3	1	2	1	4	2	2	7	1	1	1	0	0	0

Malaria test results (VMW and HIS) by species [6]



Generated from CNM Malaria Database with data from Online MOH HIS

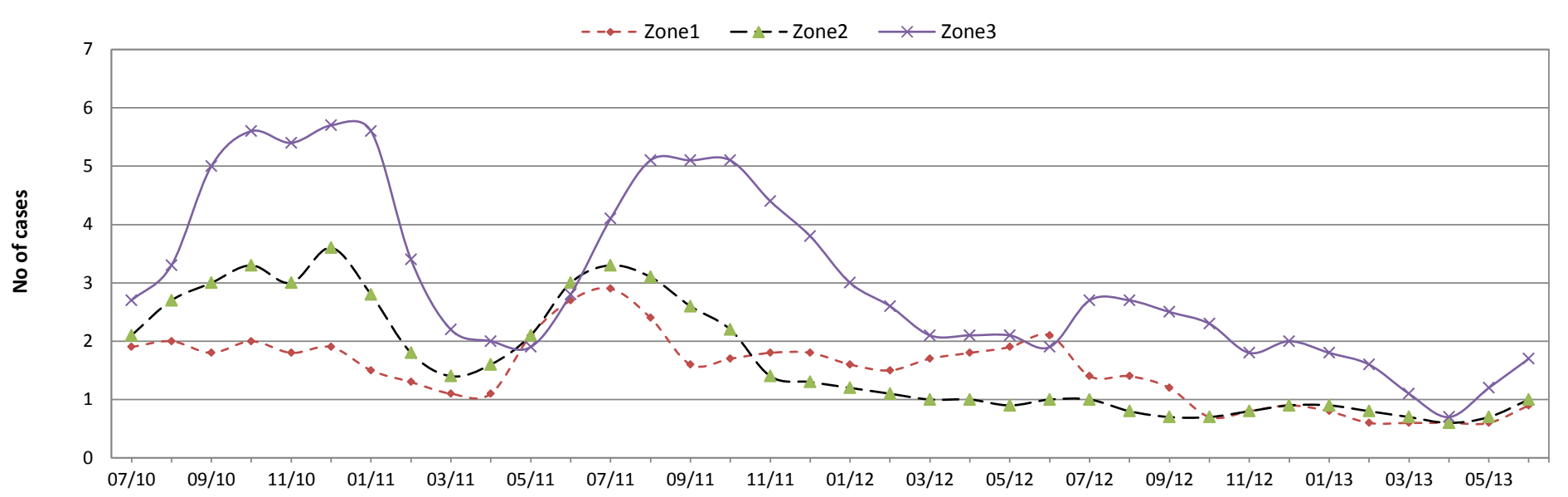
CONTAINMENT INDICATORS

Estimated coverage (possession) with LLIN or retreated mosquito net				
Indicators	**Zone 1**	**Zone 2**	**Zone 3**	**Total**
No. of persons at risk of malaria (pop of target villages)	381,083	1,354,753	1,589,931	3,340,275
No. of LLIN distributed YTD	80	50	1,942	2,072
No. of LLIHN distributed YTD	0	0	1,607	1,607
No. of conventional nets distributed and retreated YTD	7,611	10,739	4,891	23,241
No. of long lasting nets distributed in previous 3 years	260,225	1,092,476	1,555,550	2,908,251
Estimated coverage with LLIN / treated net (1 net / 1 pers)	70%	81%	98%	88%

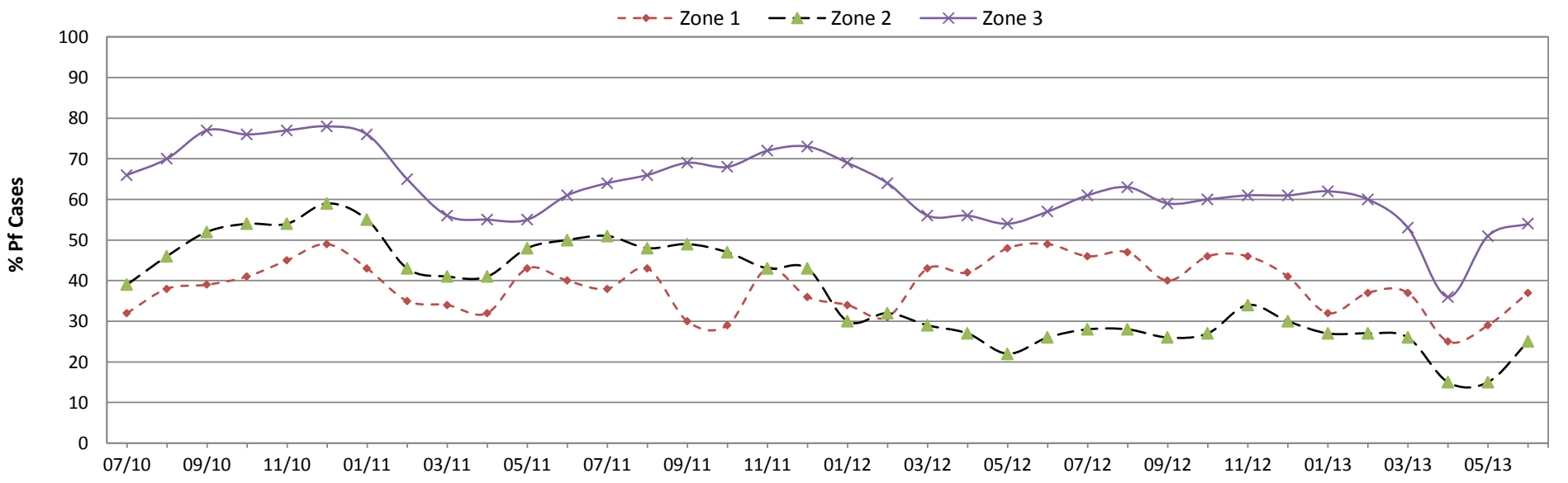
VMW RDT tests						
Zone	**TPR**			**%Pf**		
	2012	2013	Change	2012	2013	Change
Zone 1	39%	28%	-30%	42%	32%	-23%
Zone 2	23%	20%	-14%	28%	25%	-11%
Zone 3	33%	25%	-25%	60%	55%	-8%

National Surveillence data for the period Jan - Jun												
Indicators	HIS treated cases			VMW treated cases			Total treated cases			Incidence (per 1000 pop)		
	2012	2013	Change	2012	2013	Change	2012	2013	Change	2012	2013	Change
Z1 Total malaria cases	1,782	761	-57%	2,664	1,479	-44%	4,446	2,240	-50%	11.67	5.88	-50%
Z1 Severe malaria cases	142	29	-80%				142	29	-80%	0.37	0.08	-80%
Z1 Malaria deaths	1	0	-100%	0	0	0%	1	0	-100%	0.00	0.00	-100%
Z2 Total malaria cases	7,105	3,126	-56%	4,920	2,328	-53%	12,025	5,454	-55%	8.88	4.03	-55%
Z2 Severe malaria cases	288	105	-64%	`			288	105	-64%	0.21	0.08	-64%
Z2 Malaria deaths	3	0	-100%	0	0	0%	3	0	-100%	0.00	0.00	-100%
Z3 Total malaria cases	8,823	4,278	-52%	7,441	3,479	-53%	16,264	7,757	-52%	10.23	4.88	-52%
Z3 Severe malaria cases	491	159	-68%				491	159	-68%	0.31	0.10	-68%
Z3 Malaria deaths	18	3	-83%	0	0	0%	18	3	-83%	0.01	0.00	-83%
Z4 Total malaria cases	6,169	3,251	-47%	1	7	600%	6,170	3,258	-47%	n/a	n/a	n/a
Z4 Severe malaria cases	193	69	-64%				193	69	-64%	n/a	n/a	n/a
Z4 Malaria deaths	6	0	-100%	0	0	0%	6	0	-100%	n/a	n/a	n/a

Malaria Cases per VMW by month



Percentage of Pf cases diagnosed by VMW per month



Generated from CNM Malaria Database with data from Online MOH HIS

Surveillance Data by District, Jan-Jun 2013

Province / Op. District	Population (x1000)		Health Facility (HIS)									Village Malaria Workers																		Incidence (per 1000 pop)		
			All Cases			Severe			Deaths			All Cases			Treated Pf			Treated Pv			Referred Pf			Referred Pv			TPR					
	2012	2013	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 %	2013 %	Change %	2012 n	2013 n	Change %
Mongkol Borei	252	258	121	108	-11%	1	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0	0.48	0.42	-13%
Ou Chrov	216	221	83	56	-33%	12	4	-67%	0	0	0%	18	12	-33%	11	0	-100%	6	11	83%	1	0	-100%	0	1	100%	4%	3%	-40%	0.46	0.30	-35%
Preah Net Preah	148	151	34	7	-79%	1	1	0%	0	0	0%	5	0	-100%	0	0	0%	5	0	-100%	0	0	0%	0	0	0%	2%	0%	-100%	0.26	0.05	-82%
Thma Puok	128	131	27	9	-67%	0	2	200%	0	0	0%	20	29	45%	4	11	175%	15	18	20%	0	0	0%	1	0	-100%	5%	12%	122%	0.36	0.29	-19%
Banteay Meanchey	**744**	**762**	**265**	**180**	**-32%**	**14**	**7**	**-50%**	**0**	**0**	**0%**	**43**	**41**	**-5%**	**15**	**11**	**-27%**	**26**	**29**	**12%**	**1**	**0**	**-100%**	**1**	**1**	**0%**	**4%**	**6%**	**48%**	**0.41**	**0.29**	**-30%**
Thma Koul	219	224	116	53	-54%	1	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.53	0.24	-55%
Mong Russei	179	183	340	96	-72%	5	0	-100%	1	0	-100%	155	43	-72%	53	5	-91%	101	35	-65%	0	0	0%	1	3	200%	20%	16%	-23%	2.76	0.74	-73%
Sampov Luon	145	148	482	239	-50%	9	4	-56%	0	0	0%	212	84	-60%	57	10	-82%	151	72	-52%	3	1	-67%	1	1	0%	25%	15%	-38%	4.77	2.17	-55%
Battambang	382	391	635	326	-49%	59	7	-88%	1	0	-100%	766	630	-18%	377	299	-21%	382	322	-16%	6	3	-50%	1	6	500%	33%	31%	-6%	3.65	2.42	-34%
Sangkae	192	196	62	39	-37%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.32	0.20	-39%
Battambang	**1126**	**1153**	**1635**	**753**	**-54%**	**74**	**11**	**-85%**	**2**	**0**	**-100%**	**1133**	**757**	**-33%**	**488**	**314**	**-36%**	**634**	**429**	**-32%**	**9**	**4**	**-56%**	**3**	**10**	**233%**	**29%**	**27%**	**-8%**	**2.45**	**1.30**	**-47%**
Chamkar Leu - Stueng Trang	172	176	470	167	-64%	24	3	-88%	0	0	0%	209	101	-52%	64	23	-64%	144	78	-46%	1	0	-100%	0	0	0%	45%	31%	-30%	3.94	1.52	-61%
Choeung Prey - Batheay	205	210	86	41	-52%	1	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.42	0.20	-53%
Kampong Cham - Kampong Siem	300	307	326	139	-57%	55	11	-80%	4	1	-75%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	1.09	0.45	-58%
Kroch Chhmar - Stueng Trang	111	113	161	94	-42%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	1.46	0.83	-43%
Memut	163	167	232	99	-57%	15	2	-87%	0	0	0%	131	50	-62%	34	20	-41%	97	30	-69%	0	0	0%	0	0	0%	15%	8%	-46%	2.23	0.89	-60%
O Reang Ov - Koh Soutin	89	91	315	192	-39%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	3.54	2.11	-40%
Ponhea Krek - Dambae	237	243	709	345	-51%	4	3	-25%	0	0	0%	109	59	-46%	28	21	-25%	81	38	-53%	0	0	0%	0	0	0%	35%	22%	-38%	3.45	1.66	-52%
Prey Chhor - Kang Meas	193	198	183	72	-61%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.95	0.36	-62%
Srei Santhor - Kang Meas	149	152	37	33	-11%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.25	0.22	-13%
Tbong Khmum - Kroch Chhmar	224	229	584	269	-54%	66	18	-73%	3	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	2.61	1.17	-55%
Kampong Cham	**1844**	**1888**	**3103**	**1451**	**-53%**	**165**	**37**	**-78%**	**7**	**1**	**-86%**	**449**	**210**	**-53%**	**127**	**64**	**-50%**	**322**	**146**	**-55%**	**1**	**0**	**-100%**	**0**	**0**	**0%**	**27%**	**17%**	**-36%**	**1.93**	**0.88**	**-54%**
Kampong Chhnang	234	240	197	114	-42%	20	7	-65%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.84	0.47	-43%
Kampong Tralach	160	163	223	87	-61%	8	5	-38%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	1.40	0.53	-62%
Boribo	124	126	131	48	-63%	4	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	1.06	0.38	-64%
Kampong Chhnang	**518**	**530**	**551**	**249**	**-55%**	**32**	**12**	**-63%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0%**	**0%**	**0%**	**1.06**	**0.47**	**-56%**
Kampong Speu.	429	440	501	191	-62%	31	4	-87%	0	0	0%	684	220	-68%	222	91	-59%	459	127	-72%	0	2	200%	3	0	-100%	33%	25%	-24%	2.75	0.93	-66%
Kong Pisey	246	252	497	149	-70%	12	2	-83%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	2.02	0.59	-71%
Ou Dongk	112	115	299	181	-39%	4	2	-50%	0	0	0%	203	0	-100%	66	0	-100%	135	0	-100%	0	0	0%	2	0	-100%	31%	0%	-100%	4.45	1.57	-65%
Kampong Speu	**788**	**807**	**1297**	**521**	**-60%**	**47**	**8**	**-83%**	**0**	**0**	**0%**	**887**	**220**	**-75%**	**288**	**91**	**-68%**	**597**	**127**	**-79%**	**0**	**2**	**200%**	**5**	**0**	**-100%**	**32%**	**25%**	**-23%**	**2.77**	**0.92**	**-67%**
Baray and Santuk	254	260	380	150	-61%	2	1	-50%	0	0	0%	259	39	-85%	104	15	-86%	127	15	-88%	21	2	-90%	7	7	0%	35%	10%	-72%	2.40	0.69	-71%
Kampong Thom	294	301	444	201	-55%	27	18	-33%	3	1	-67%	835	545	-35%	282	148	-48%	460	381	-17%	35	3	-91%	58	13	-78%	34%	29%	-15%	4.04	2.43	-40%
Stong	146	150	104	43	-59%	2	4	100%	1	0	-100%	193	91	-53%	54	28	-48%	139	63	-55%	0	0	0%	0	0	0%	19%	13%	-31%	2.03	0.89	-56%
Kampong Thom	**694**	**711**	**928**	**394**	**-58%**	**31**	**23**	**-26%**	**4**	**1**	**-75%**	**1287**	**675**	**-48%**	**440**	**191**	**-57%**	**726**	**459**	**-37%**	**56**	**5**	**-91%**	**65**	**20**	**-69%**	**31%**	**23%**	**-26%**	**3.02**	**1.47**	**-51%**
Angkor Chey	113	116	47	41	-13%	5	3	-40%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.41	0.35	-15%
Chhouk	209	214	481	249	-48%	42	26	-38%	0	0	0%	435	152	-65%	81	30	-63%	354	122	-66%	0	0	0%	0	0	0%	32%	16%	-50%	4.39	1.87	-57%
Kampong Trach	164	168	72	29	-60%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.44	0.17	-61%
Kampot	158	161	421	117	-72%	10	1	-90%	0	0	0%	146	80	-45%	42	32	-24%	104	48	-54%	0	0	0%	0	0	0%	33%	59%	77%	3.60	1.22	-66%
Kampot	**643**	**659**	**1021**	**436**	**-57%**	**57**	**30**	**-47%**	**0**	**0**	**0%**	**581**	**232**	**-60%**	**123**	**62**	**-50%**	**458**	**170**	**-63%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**32%**	**21%**	**-34%**	**2.49**	**1.01**	**-59%**

Surveillance Data by District, Jan-Jun 2013

Province / Op. District	Population (x1000)		Health Facility (HIS)									Village Malaria Workers																		Incidence (per 1000 pop)		
			All Cases			Severe			Deaths			All Cases			Treated Pf			Treated Pv			Referred Pf			Referred Pv			TPR					
	2012	2013	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 %	2013 %	Change %	2012 n	2013 n	Change %
Ang Snuol	0	0	3	10	233%	0	0	0%	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Kean Svay	0	0	4	27	575%	0	1	100%	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Koh Thom	0	0	56	40	-29%	0	0	0%	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Ksach Kandal	0	0	35	31	-11%	0	0	0%	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Muk Kam Poul	0	0	48	12	-75%	0	0	0%	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Ponhea Leu	0	0	1	31	3000%	0	0	0%	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Saang	0	0	8	18	125%	0	0	0%	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Takhmau	0	0	60	3	-95%	1	1	0%	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Kandal	**1390**	**1424**	**215**	**172**	-20%	**1**	**2**	100%	**0**	**0**	0%	**0**	**0**	0	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0%**	**0%**	**0%**	**0.15**	**0.12**	**-22%**
Smach Mean Chey	63	65	224	68	-70%	16	7	-56%	0	0	0%	179	62	-65%	48	28	-42%	131	34	-74%	0	0	0%	0	0	0%	21%	18%	-13%	6.37	2.01	-68%
Srae Ambel	67	68	97	35	-64%	7	3	-57%	0	0	0%	20	3	-85%	3	2	-33%	16	1	-94%	0	0	0%	1	0	-100%	28%	17%	-40%	1.74	0.56	-68%
Koh Kong	**129**	**132**	**321**	**103**	-68%	**23**	**10**	-57%	**0**	**0**	0%	**199**	**65**	**-67%**	**51**	**30**	**-41%**	**147**	**35**	**-76%**	**0**	**0**	**0%**	**1**	**0**	**-100%**	**22%**	**18%**	**-15%**	**4.02**	**1.27**	**-68%**
Chhlong	100	102	685	291	-58%	131	15	-89%	1	0	-100%	148	77	-48%	69	30	-57%	79	46	-42%	0	1	100%	0	0	0%	30%	25%	-16%	8.34	3.59	-57%
Kratie	244	250	1543	743	-52%	61	25	-59%	3	0	-100%	1242	944	-24%	873	653	-25%	368	291	-21%	1	0	-100%	0	0	0%	44%	40%	-9%	11.42	6.76	-41%
Kratie	**350**	**359**	**2228**	**1034**	-54%	**192**	**40**	-79%	**4**	**0**	-100%	**1390**	**1021**	**-27%**	**943**	**683**	**-28%**	**447**	**337**	**-25%**	**1**	**1**	**0%**	**0**	**0**	**0%**	**42%**	**38%**	**-9%**	**10.33**	**5.73**	**-45%**
Sen Monorom	65	67	855	594	-31%	7	3	-57%	0	1	100%	604	374	-38%	359	230	-36%	243	144	-41%	2	0	-100%	0	0	0%	32%	0%	-100%	22.28	14.46	-35%
Mondul Kiri	**67**	**69**	**855**	**594**	-31%	**7**	**3**	-57%	**0**	**1**	100%	**604**	**374**	**-38%**	**359**	**230**	**-36%**	**243**	**144**	**-41%**	**2**	**0**	**-100%**	**0**	**0**	**0%**	**32%**	**25%**	**-22%**	**21.73**	**14.10**	**-35%**
Cheung	0	0	0	1	100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Kandal	0	0	137	30	-78%	3	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Lech	0	0	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Tbong	0	0	12	19	58%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
MOH Central Office	0	0	179	68	-62%	108	27	-75%	3	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Phnom Penh	**1456**	**1491**	**328**	**118**	-64%	**111**	**27**	-76%	**3**	**0**	-100%	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0%**	**0%**	**0%**	**0.23**	**0.08**	**-65%**
Tbeng Meanchey	181	185	1881	1038	-45%	86	33	-62%	0	0	0%	918	423	-54%	323	155	-52%	561	260	-54%	13	4	-69%	21	4	-81%	19%	19%	0%	15.30	7.85	-49%
Preah Vihear	**185**	**190**	**1881**	**1038**	-45%	**86**	**33**	-62%	**0**	**0**	0%	**918**	**423**	**-54%**	**323**	**155**	**-52%**	**561**	**260**	**-54%**	**13**	**4**	**-69%**	**21**	**4**	**-81%**	**19%**	**19%**	**0%**	**14.93**	**7.66**	**-49%**
Kamchay Mear	0	0	75	50	-33%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Kampong Trabek	0	0	27	5	-81%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Mesang	0	0	6	2	-67%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Neak Loeung	0	0	25	29	16%	0	4	400%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Peareang	0	0	47	19	-60%	0	7	700%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Preah Sdach	0	0	60	17	-72%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Prey Veng	0	0	12	7	-42%	7	1	-86%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Prey Veng	**1041**	**1066**	**252**	**129**	-49%	**7**	**12**	71%	**0**	**0**	0%	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0%**	**0%**	**0%**	**0.24**	**0.12**	**-50%**
Bakan	137	141	317	90	-72%	8	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	2.31	0.64	-72%
Sampov Meas	299	306	1548	397	-74%	53	6	-89%	0	0	0%	1383	599	-57%	639	152	-76%	738	445	-40%	3	1	-67%	3	1	-67%	53%	31%	-41%	9.79	3.25	-67%
Pursat	**436**	**446**	**1865**	**487**	-74%	**61**	**6**	-90%	**0**	**0**	0%	**1383**	**598**	**-57%**	**639**	**152**	**-76%**	**738**	**445**	**-40%**	**3**	**1**	**-67%**	**3**	**1**	**-67%**	**53%**	**31%**	**-41%**	**7.44**	**2.43**	**-67%**
Ratanakiri	166	170	1618	1016	-37%	52	40	-23%	1	0	-100%	2170	532	-75%	1512	326	-78%	655	206	-69%	3	0	-100%	0	0	0%	29%	15%	-47%	22.82	9.12	-60%
Ratanak Kiri	**165**	**169**	**1618**	**1016**	-37%	**52**	**40**	-23%	**1**	**0**	-100%	**2170**	**532**	**-75%**	**1512**	**326**	**-78%**	**655**	**206**	**-69%**	**3**	**0**	**-100%**	**0**	**0**	**0%**	**29%**	**15%**	**-47%**	**22.92**	**9.15**	**-60%**

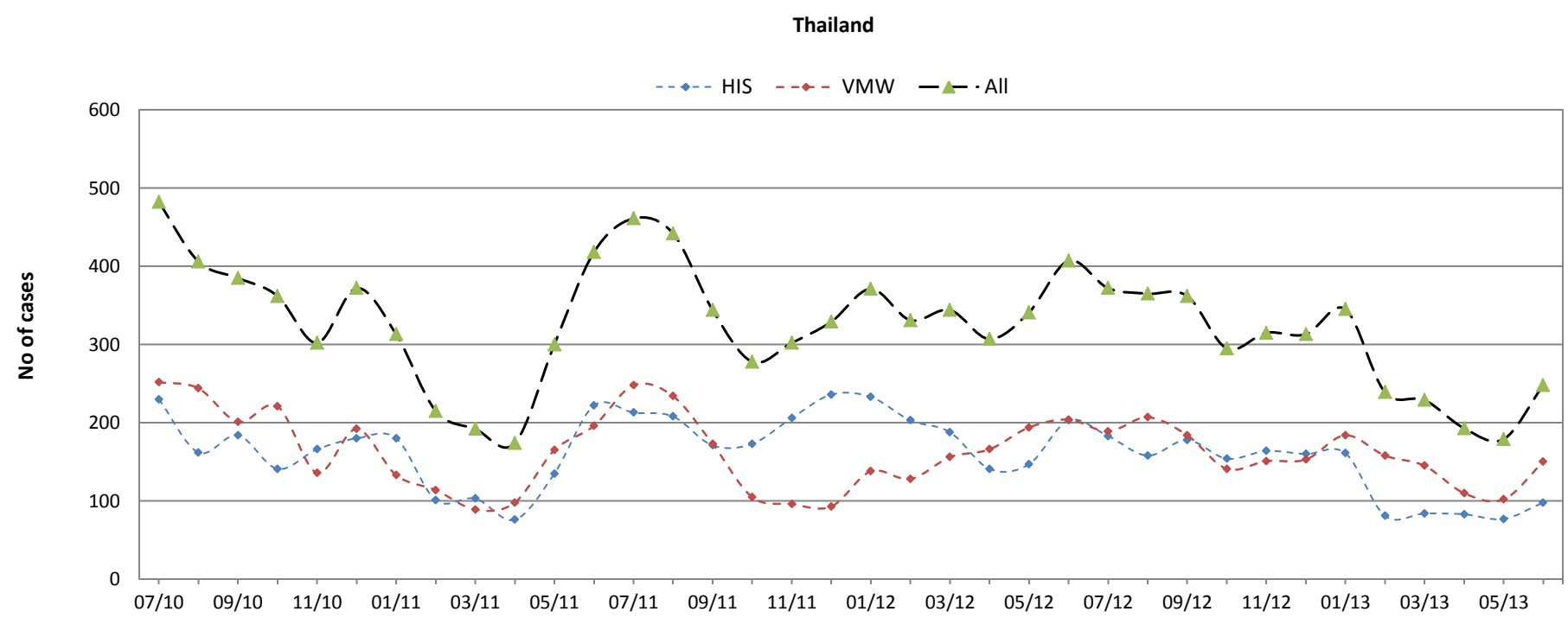
Surveillance Data by District, Jan-Jun 2013

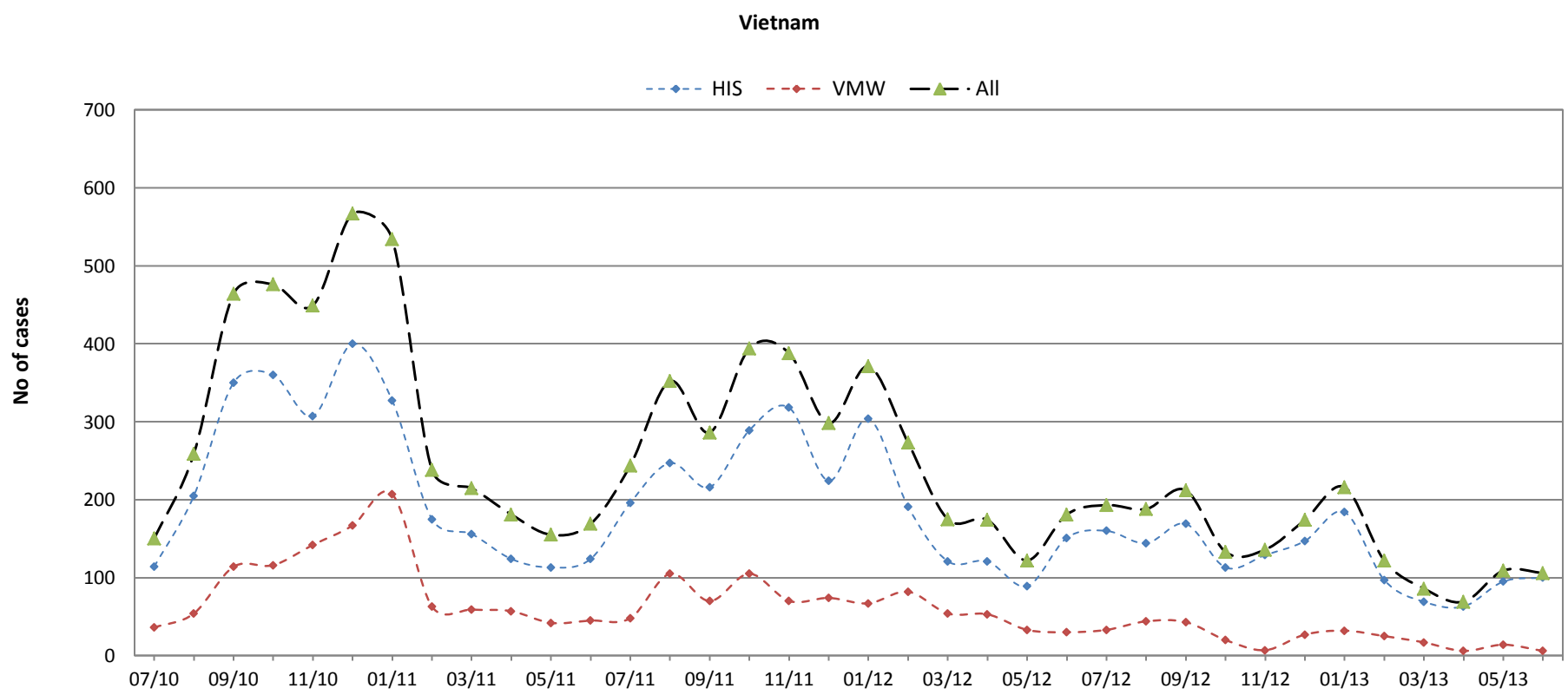
Province / Op. District	Population (x1000)		Health Facility (HIS)									Village Malaria Workers																		Incidence (per 1000 pop)		
			All Cases			Severe			Deaths			All Cases			Treated Pf			Treated Pv			Referred Pf			Referred Pv			TPR					
	2012	2013	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 n	2013 n	Change %	2012 %	2013 %	Change %	2012 n	2013 n	Change %
Kralanh	89	91	134	91	-32%	14	9	-36%	0	0	0%	101	57	-44%	58	32	-45%	43	25	-42%	0	0	0%	0	0	0%	5%	7%	37%	2.64	1.63	-38%
Siem Reap	395	404	627	307	-51%	33	2	-94%	2	0	-100%	490	94	-81%	150	17	-89%	321	77	-76%	6	0	-100%	13	0	-100%	38%	12%	-68%	2.78	0.99	-64%
Sot Nikum	278	285	759	390	-49%	1	0	-100%	0	0	0%	344	169	-51%	134	37	-72%	210	131	-38%	0	0	0%	0	1	100%	27%	18%	-35%	3.97	1.96	-51%
Ankor Chhum	215	220	557	212	-62%	0	1	100%	0	0	0%	308	81	-74%	96	21	-78%	209	59	-72%	0	0	0%	3	1	-67%	19%	7%	-61%	4.01	1.33	-67%
Siem Reap	**980**	**1003**	**2077**	**1000**	**-52%**	**48**	**12**	**-75%**	**2**	**0**	**-100%**	**1242**	**395**	**-68%**	**437**	**106**	**-76%**	**784**	**288**	**-63%**	**6**	**0**	**-100%**	**16**	**2**	**-88%**	**21%**	**11%**	**-46%**	**3.37**	**1.39**	**-59%**
Sihanouk	241	247	183	89	-51%	3	0	-100%	0	0	0%	43	7	-84%	11	4	-64%	31	3	-90%	0	0	0%	1	0	-100%	42%	35%	-17%	0.93	0.39	-58%
Sihanoukville	**243**	**249**	**183**	**89**	**-51%**	**3**	**0**	**-100%**	**0**	**0**	**0%**	**43**	**7**	**-84%**	**11**	**4**	**-64%**	**31**	**3**	**-90%**	**0**	**0**	**0%**	**1**	**0**	**-100%**	**42%**	**35%**	**-17%**	**0.92**	**0.39**	**-58%**
Steung Treng	122.02	124.95	1010	517	-49%	32	12	-63%	2	0	-100%	1662	694	-58%	1096	440	-60%	557	253	-55%	8	0	-100%	1	1	0%	37%	29%	-21%	21.82	9.68	-56%
Stung Treng	**122.02**	**124.95**	**1010**	**517**	**-49%**	**32**	**12**	**-63%**	**2**	**0**	**-100%**	**1662**	**694**	**-58%**	**1096**	**440**	**-60%**	**557**	**253**	**-55%**	**8**	**0**	**-100%**	**1**	**1**	**0%**	**37%**	**29%**	**-21%**	**21.82**	**9.68**	**-56%**
Chi Phu	0.00	0.00	11	5	-55%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Romeas Hek	0.00	0.00	58	10	-83%	4	2	-50%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Svay Rieng	0.00	0.00	62	15	-76%	9	1	-89%	2	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%			0%
Svay Rieng	**530.83**	**543.57**	**131**	**30**	**-77%**	**13**	**3**	**-77%**	**2**	**0**	**-100%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0%**	**0%**	**0%**	**0.25**	**0.06**	**-78%**
Ang Rokar	127.17	130.22	364	137	-62%	8	2	-75%	0	0	0%	16	0	-100%	1	0	-100%	15	0	-100%	0	0	0%	0	0	0%	0%	0%	0%	2.99	1.05	-65%
Bati	199.98	204.78	26	24	-8%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.13	0.12	-10%
Daun Keo	202.75	207.61	57	25	-56%	4	0	-100%	1	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.28	0.12	-57%
Kirivong	248.82	254.79	94	78	-17%	2	0	-100%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.38	0.31	-19%
Prey Kabass	150.09	153.69	11	5	-55%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.07	0.03	-56%
Takeo	**928.80**	**951.09**	**552**	**269**	**-51%**	**14**	**2**	**-86%**	**1**	**0**	**-100%**	**16**	**0**	**-100%**	**1**	**0**	**-100%**	**15**	**0**	**-100%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**28%**	**0%**	**-100%**	**0.61**	**0.28**	**-54%**
Samraong	202.75	207.61	1289	714	-45%	36	30	-17%	0	0	0%	1063	955	-10%	85	98	15%	958	836	-13%	2	6	200%	18	15	-17%	31%	33%	6%	11.50	7.94	-31%
Oddar Meanchey	**202.75**	**207.61**	**1289**	**714**	**-45%**	**36**	**30**	**-17%**	**0**	**0**	**0%**	**1063**	**955**	**-10%**	**85**	**98**	**15%**	**960**	**836**	**-13%**	**2**	**6**	**200%**	**18**	**15**	**-17%**	**31%**	**33%**	**6%**	**11.51**	**7.94**	**-31%**
Kep	39.31	40.25	33	17	-48%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0%	0%	0%	0.84	0.42	-50%
Kep	**39.31**	**40.25**	**33**	**17**	**-48%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0**	**0**	**0%**	**0%**	**0%**	**0%**	**0.84**	**0.42**	**-50%**
Pailin	77.38	79.23	241	104	-57%	8	2	-75%	0	0	0%	210	188	-10%	23	36	57%	172	128	-26%	12	2	-83%	3	22	633%	30%	28%	-4%	5.63	3.38	-40%
Pailin	**77.37**	**79.23**	**241**	**104**	**-57%**	**8**	**2**	**-75%**	**0**	**0**	**0%**	**210**	**188**	**-10%**	**25**	**36**	**44%**	**172**	**128**	**-26%**	**12**	**2**	**-83%**	**3**	**22**	**633%**	**30%**	**28%**	**-4%**	**5.66**	**3.38**	**-40%**
National Total	**14702.42**	**15055.15**	**23879**	**11415**	**-52%**	**1114**	**362**	**-68%**	**28**	**3**	**-89%**	**15280**	**7387**	**-52%**	**6963**	**2993**	**-57%**	**8073**	**4295**	**-47%**	**117**	**25**	**-79%**	**138**	**76**	**-45%**	**30%**	**24%**	**-21%**	**2.65**	**1.24**	**-53%**

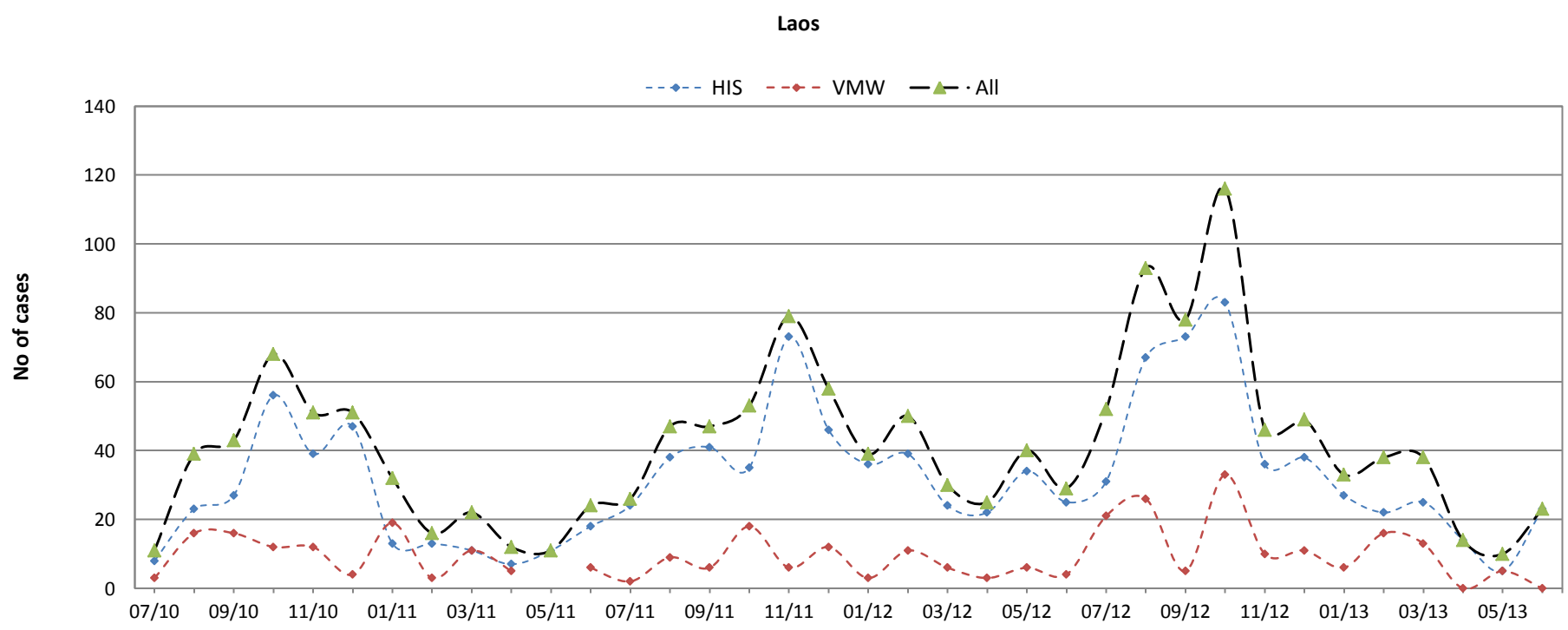
Malaria Bulletin Ver 2 - Generated from CNM Malaria Database on 23/07/2013 17:18:59 including data from Online MOH HIS

CAMBODIA MALARIA BULLETIN

MALARIA TRENDS IN BORDER AREAS*







* HIS data from health facilities serving border villages plus VMW data from border villages (<10km from the border).

Generated from CNM Malaria Database with data from Online MOH HIS