

Table 1: Comparison of species and densities of sand flies captured in El Borouj (ACL endemic) and Sidi Hajjaj (ACL free) in the two sampling periods, June and October 2015. Intra-domiciliary captures, where CDC light traps were used, and peridomiciliary captures, where adhesive papers were used are represented. *Phlebotomus chabaudi*, *Phlebotomus alexandri*, *Phlebotomus duboscqi*, *Sergentomyia antenata* and *Sergentomyia dreyfussi* were caught in low numbers in El Borouj and were absent in Sidi Hajjaj; these species have not been included in the table but the number of specimens captured is included in the total of El Borouj. N = Number of captured sandflies, M = males, F = females, D = density (No. of captured sandflies / CDC trap / night or No. captured sandflies / Area, m²), A = relative abundance (representative percentage of each species with respect to total captured in a given period), Fr = frequency (presence of a given species in the stations sampled in each time period). J=June, O=October, G=global results. *Statistical differences were detected at p<0.05 level, **p<0.001, ***p<0.0001.

		El Borouj						Sidi Hajjaj					
		Capture intradomiciliary			Capture peridomiciliary			Capture intradomiciliary			Capture peridomiciliary		
		J	O	G	J	O	G	J	O	G	J	O	G
Number of stations		7	46	53	35	44	79	4	9	13	10	18	28
Number of traps		14 CDC traps	69 CDC traps	83 CDC traps	693.2 ST (85.9 m ²)	381.6 ST (47.3 m ²)	1074.9 ST (133.2 m ²)	8 CDC traps	11 CDC	19 CDC	133 ST (16.5 m ²)	309.8 ST (38.4 m ²)	442.8 ST (54.9 m ²)
<i>P. sergenti</i>	N (M/F)	352 (189/163)	231 (108/123)	583 (297/286)	462 (370/92)	274 (232/42)	736 (602+134)	105 (47/58)	7 (4/3)	112 (51/61)	10 (6/4)	51 (32/19)	61 (38/23)
	D	25.14	3.35**	7.02*	5.38**	5.79	5.53*	13.13	0.64**	5.89*	0.61**	1.33	1.11*
	A	42.21	57.61	47.21	27.62	15.21	21.18	82.68	25.93	72.73	45.45	6.49	7.53
	Fr	0.86	0.83	0.83	0.89	0.64	0.75	1.00	0.44	0.62	0.40	0.67	0.57
<i>P. longicuspis</i>	N (M/F)	415 (257/158)	56 (22/34)	471 (279/192)	45 (39/6)	21 (21/0)	66 (60/6)	20 (8/12)	11 (5/6)	31 (13/18)	2 (2/0)	86 (82/4)	88 (84/4)
	D	29.64	0.81	5.67	0.52	0.44***	0.50*	2.50	1.00	1.63	0.12	2.21***	1.60*
	A	49.76	13.97	38.14	2.69	1.17	1.90	15.75	40.74	20.13	9.09	10.91	10.86
	Fr	0.71	0.37	0.42	0.31	0.20	0.25	0.75	0.56	0.62	0.10	0.67	0.46
<i>P. perniciosus</i>	N (M/F)	43 (31/12)	25 (21/4)	68 (52/16)	78 (72/6)	73 (62/11)	151 (134/17)	1 (0/1)	1 (1/0)	2 (1/1)	0.00	91 (81/10)	91 (81/10)
	D	3.07	0.36	0.82	0.91*	1.54	1.13	0.13	0.09	0.11	0.00*	2.35	1.66
	A	5.16	6.23	5.51	4.66	4.05	4.35	0.79	3.70	1.30	0.00	11.55	11.23
	Fr	0.57	0.26	0.30	0.46	0.34	0.39	0.25	0.11	0.15	0.00	0.56	0.36
<i>P. langeroni</i>	N (M/F)	4 (4/0)	1 (1/0)	5(5/1)	0 (0.0)	0 (0.0)	0 (0.0)	1 (1/1)	7 (6/1)	8(7/1)	0 (0.0)	9 (8/1)	9 (8/1)
	D	0.29	0.01*	0.06*	0.00	0.00***	0.00***	0.13	0.64*	0.42*	0.00	0.23***	0.16***
	A	0.48	0.25	0.40	0.00	0.00	0.00	0.79	25.93	5.19	0.00	1.15	1.11
	Fr	0.29	0.02	0.06	0.00	0.00	0.00	0.25	0.22	0.23	0.00	0.33	0.21
<i>P. papatasi</i>	N (M/F)	17 (10/7)	35(19/16)	52(29/23)	119 (90/29)	218 (180/38)	337 (270/67)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	9 (2/7)	9 (2/7)
	D	1.21*	0.51*	0.63**	1.39**	4.61	2.53**	0.00*	0.00*	0.00**	0.00**	0.23**	0.16

	A	2.04	8.73	4.21	7.11	12.10	9.70	0.00	0.00	0.00	0.00	1.15	1.11
	Fr	0.71	0.37	0.42	0.54	0.43	0.49	0.00	0.00	0.00	0.00	0.28	0.18
<i>P. bergeroti</i>	N (M/F)	0 (0.0)	6(0/6)	6(0/6)	3 (2/1)	4 (0/4)	7 (2/5)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1 (0/1)	1 (0/1)
	D	0.00	0.09	0.07	0.03	0.08	0.05	0.00	0.00	0.00	0.00	0.03	0.02
	A	0.00	1.50	0.49	0.18	0.22	0.20	0.00	0.00	0.00	0.00	0.13	0.12
	Fr	0.00	0.13	0.11	0.09	0.02	0.05	0.00	0.00	0.00	0.00	0.06	0.04
<i>S. minuta</i>	N (M/F)	1 (0/1)	13(8/5)	14 (8/6)	671 (358/313)	674 (269/405)	1345 (627/718)	0 (0.0)	1 (1/0)	1 (1/0)	10 (3//7)	538 (318/220)	548 (321/227)
	D	0.07	0.19	0.17	7.81***	14.25	10.10	0.00	0.09	0.05	0.61***	14.02	9.99
	A	0.12	3.24	1.13	40.11	37.40	38.71	0.00	3.70	0.65	45.45	68.45	67.65
	Fr	0.14	0.22	0.21	0.89	0.89	0.87	0.00	0.11	0.08	0.20	0.94	0.68
<i>S. fallax</i>	N (M/F)	1 (0/1)	29(17/12)	30 (17/13)	290 (198/92)	538 (264/274)	828 (462/366)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	3 (2/1)	3 (2/1)
	D	0.07	0.42	0.36	3.38**	11.38**	6.22***	0.00	0.00	0.00	0.00**	0.08**	0.05***
	A	0.12	7.23	2.43	17.33	29.86	23.83	0.00	0.00	0.00	0.00	0.38	0.37
	Fr	0.14	0.22	0.21	0.63	0.59	0.61	0.00	0.00	0.00	0.00	0.11	0.07
TOTAL	N (M/F)	834 (491/343)	401 (197/204)	1235 (688/547)	1673 (1134/539)	1802 (1028/774)	3475 (2162/1313)	127 (56/71)	27 (17/10)	154 (73/81)	22 (11/11)	788 (525/263)	810 (536/274)
	D	59.57	5.81	14.88	19.48***	38.11	26.09	15.88	2.45	8.11	1.34***	20.48	14.77
	A	100	100	100	100	100	100	100	100	100	100	100	100
	Fr	0.86	0.89	0.89	1.00	0.95	0.97	1.00	0.67	0.77	0.60	1.00	0.86