

Supplementary Information I

Table showing the results of the relationships between larvae counts and soil parameters.

	Number of larvae			
	Unadjusted effect size estimate		Adjusted effect size estimate	
	uPRR [95% CI]	p-value	aPRR [95% CI]	p-value
pH	2.06 [1.26-3.38]	0.004	3.69 [2.06-6.63]	<0.001**
carbon	1.38 [0.71-2.65]	0.340	0.35 [0.13-0.95]	0.039*
nitrogen_cat				
<0.15	ref		ref	
>=0.15	1.68 [0.77-3.69]	0.194	0.17 [0.08-0.35]	<0.001**
organic_cat				
< 3.01	ref		ref	
>=3.01	1.52 [0.82-2.83]	0.184	1.75 [0.82-3.73]	0.146
ca_me_100g_cat				
< 9.14	ref		ref	
>=9.14	1.69 [0.89-3.23]	0.112	0.92 [0.44-1.90]	0.814
mg_me_100g	1.55 [0.84-2.87]	0.157	1.01 [0.56-1.84]	0.970
k_me_100g	1.45 [0.66-3.22]	0.358	0.14 [0.06-0.32]	<0.001**
na_me_100g	0.21 [0.00-12.50]	0.454	1.58 [0.03-92.66]	0.826
teb_me_100g	1.08 [1.00-1.17]	0.053	1.02 [0.81-1.28]	0.871
acidity_me_100g	0.42 [0.17-1.03]	0.058		
cation_me_100g	1.05 [1.02-1.09]	0.001	0.01 [0.00-0.20]	0.002**
bs	1.21 [1.07-1.38]	0.003	1.31 [1.19-1.43]	<0.001**
p_mg_kg	1.01 [1.00-1.02]	0.005	0.65 [0.43-0.98]	0.042*
cu_mg_kg	1.01 [1.00-1.02]	0.005	1.01 [1.00-1.02]	0.008**
zn_mg_kg	1.52 [0.99-2.35]	0.057	1.11 [0.61-1.99]	0.737
cd_mg_kg	1.01 [1.00-1.02]	0.026	0.97 [0.95-0.99]	0.011*
fe_mg_kg	0.30 [0.01-15.30]	0.552	0.06 [0.00-2.09]	0.119
silt	1.18 [1.03-1.36]	0.017	1.15 [0.98-1.35]	0.098
clay	1.05 [0.94-1.17]	0.390	1.02 [0.96-1.08]	0.559
	0.88 [0.82-0.95]	<0.001	0.76 [0.65-0.89]	0.001**
Soil texture				
Loamy soil	ref		ref	
Sandy loam	0.74 [0.35-1.54]	0.414	6.68 [2.34-19.07]	<0.001**

Legend. *, **, denote the levels of significance

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Supplementary Information II

The movement of uninfected participants is represented in blue while that of the infected in red.

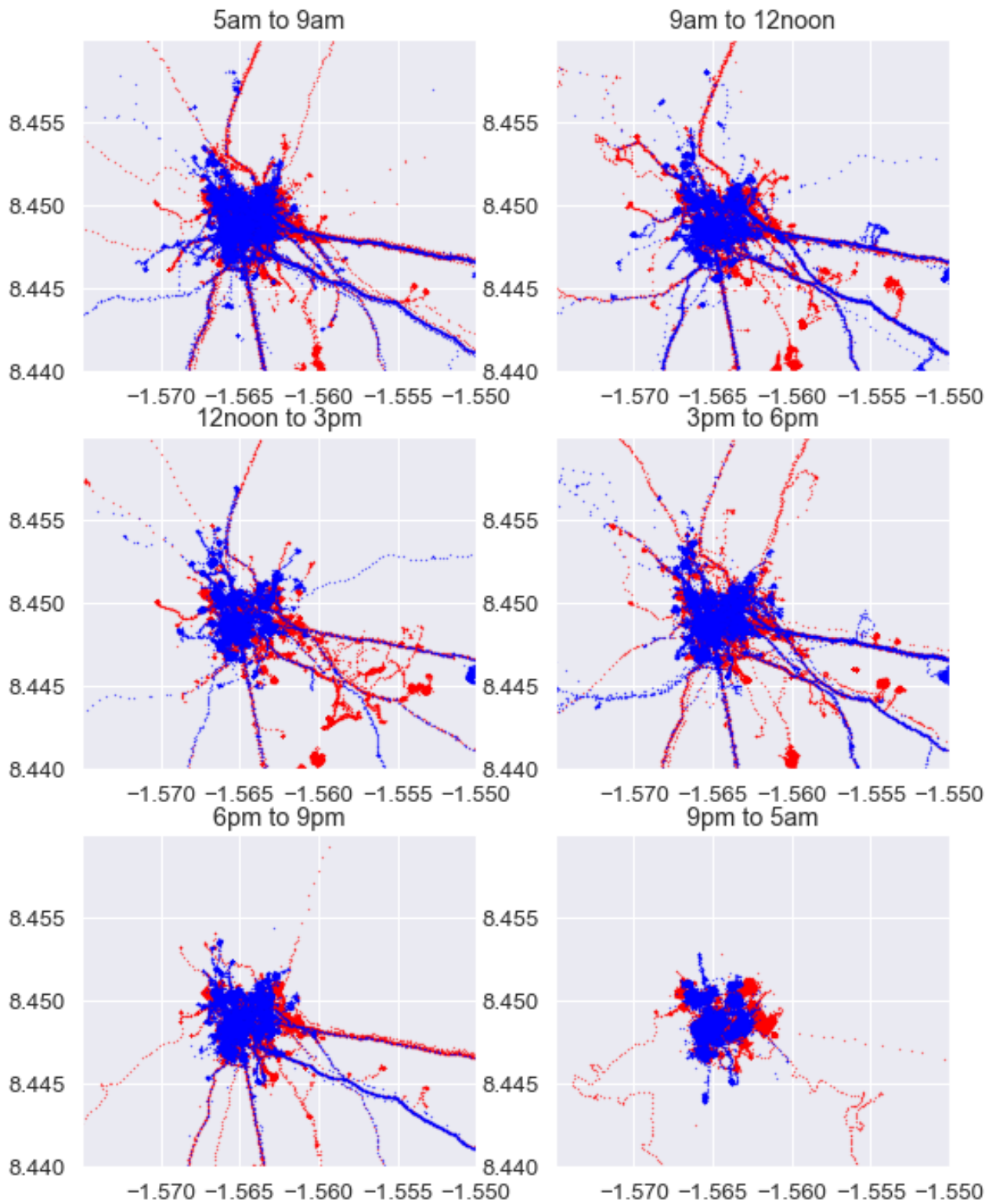


Figure 1: #Participant movement according to time of day: Most occurred during daylight hours (5am-9pm) with minimal movement at night (9pm-5am).

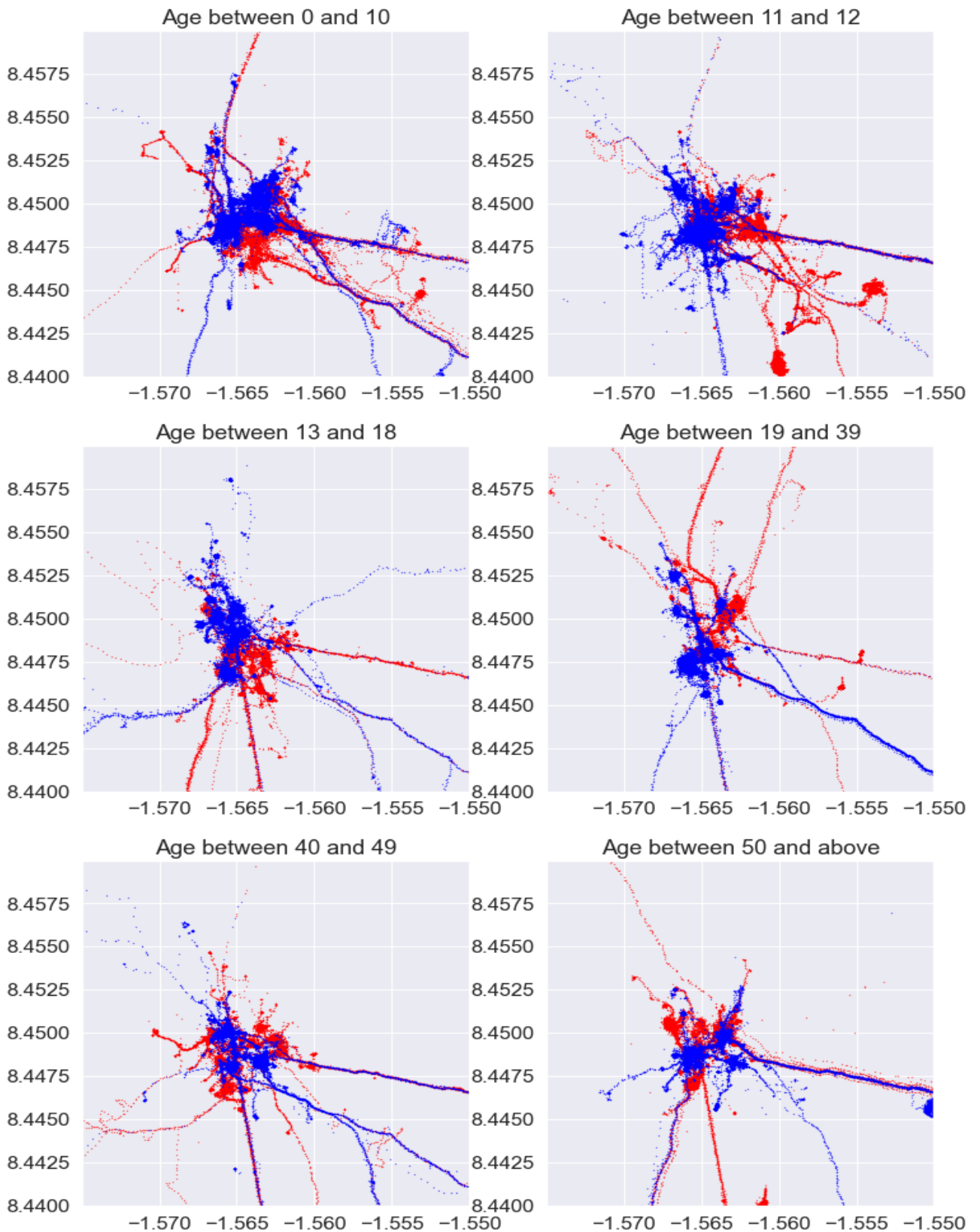


Figure 2: Participant movement according to the age range: Movement was fairly distributed within the age spectrum. Adults and Children were found within the community and their various farmlands alike.

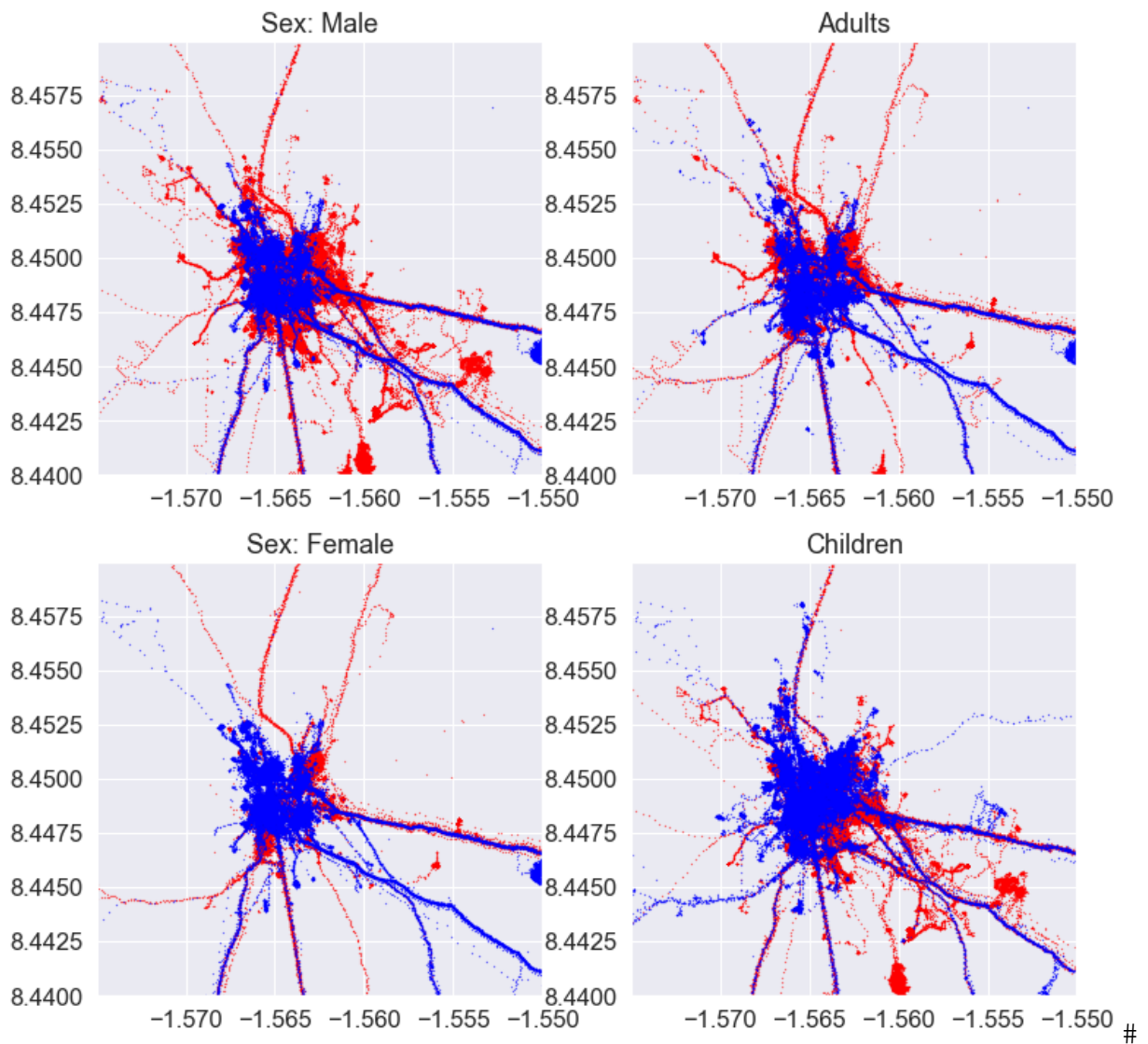


Figure 3: Participant movement according to gender: Males made most movements than females while adult males and adult females had more movements towards their farmlands than children centred within the community.

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