Table S1: Univariate analysis of owner/herd related potential risk factors associated with RVFV, BTV and EHDV seropositivity.

Risk factor and category	Total No. (%)	Rift Valley fever virus			Bluetongue virus			Epizootic hemorrhagic disease virus		
		No. +ve (%)	OR (95% CI)	p-value	No. +ve (%)	OR (95% CI)	p-value	No. +ve (%)	OR (95% CI)	p-value
Owner variables										
Sex										
Female	72 (18)	12 (16.7)	1.11 (0.54-2.15)	0.763	67 (93.1)	1.3 (0.53-3.93)	0.602	68 (94.4)	1.84 (0.70-6.32)	0.266
Male	328 (82)	50 (15.2)	1.0	-	299 (91.2)	1.0	-	296 (90.2)		-
Age										
19-29	56 (14)	11 (19.6)	0.87 (0.38-1.89)	0.732	52 (92.9)	0.85 (0.25-3.37)	0.803	51 (91.1)	0.67 (0.20-2.35)	0.507
30-39	67 (16.8)	3 (4.5)	0.17 (0.04-0.50)	**0.005**	57 (85.1)	0.37 (0.13-1.02)	0.058	59 (88.1)	0.48 (0.16-1.41)	0.179
40-49	96 (24)	14 (14.6)	0.61 (0.29-1.23)	0.175	86 (89.6)	0.56 (0.20-1.53)	0.263	88 (91.7)	0.72 (0.24-2.08)	0.540
50-59	67 (16.8)	9 (13.4)	0.55 (0.23-1.23)	0.161	64 (95.5)	1.40 (0.37-6.65)	0.638	59 (88.1)	0.48 (0.16-1.41)	0.179
> 60	114 (28.5)	25 (21.9)	1.0	**0.014**	107 (93.9)	1.0	0.193	107 (93.9)	1.0	0.624
Education										
Tertiary	92 (23)	14 (15.2)	0.7 (0.31-1.54)	0.368	85 (92.4)	0.83 (0.24-2.72)	0.761	83 (90.2)	0.5 (0.13-1.60)	0.263
Secondary	115 (28.8)	14 (12.2)	0.54 (0.24-1.18)	0.120	102 (88.7)	0.54 (0.17-1.49)	0.257	99 (86.1)	0.33 (0.09-0.96)	0.059
Primary	115 (28.8)	18 (15.7)	0.72 (0.34-1.53)	0386	106 (92.2)	0.81 (0.24-2.43)	0.710	108 (93.9)	0.83 (0.21-2.86)	0.778
None	78 (19.5)	16 (20.5)	1.0	0.489	73 (93.6)	1.0	0.636	74 (94.9)	1.0	0.111
Occupation										
Salaried employment	43 (10.8)	7 (16.3)	1.07 (0.42-2.39)	0.881	42 (97.7)	4.28 (0.88-77.04)	0.157	40 (93)	1.36 (0.46-5.82)	0.625
Farming	357 (89.3)	55 (15.4)	1.0	-	324 (90.8)	1.0	-	324 (90.8)	1.0	-
SEI										
Low	63 (15.8)	10 (15.9)	1.03 (0.47-2.09)	0.929	56 (88.9)	0.70 (0.30-1.81)	0.42	59 (93.7)	1.55 (0.59-5.34)	0.426
High	337 (84.3)	52 (15.4)	1.0	-	310 (92)	1.0	-	305 (90.5)	1.0	-

TLUs										
Low	271 (67.8)	45 (16.6)	1.31 (0.73-2.45)	0.377	247 (91.1)	0.86 (0.38-1.82)	0.711	250 (92.3)	1.57 (0.77-3.13)	0.208
High	129 (32.3)	17 (13.2)	1.0	-	119 (92.2)	1.0	-	114 (88.4)	1.0	-
History of RVF										
Yes	83 (20.8)	14 (16.9)	1.14 (0.57-2.13)	0.699	79 (95.2)	2.06 (0.79-7.10)	0.185	78 (94)	1.70 (0.69-5.08)	0.292
No	317 (79.3)	48 (15.1)	1.0	-	287 (90.5)	1.0	-	286 (90.2)	1.0	-
Knowledge of RVF										
High	72 (18)	10 (13.9)	0.86 (0.39-1.71)	0.677	67 (93.1)	1.30 (0.53-3.93)	0.602	64 (88.9)	0.75 (0.34-1.82)	0.491
Low	328 (82)	52 (15.9)	1.0	-	299 (91.2)	1.0	-	300 (91.5)	1.0	-
Distance to conservancy										
1-10 km	240 (60)	34 (14.2)	0.78 (0.45-1.35)	0.368	220 (91.7)	1.05 (0.51-2.14)	0.884	216 (90)	0.73 (0.34-1.48)	0.394
>10km	160 (40)	28 (17.5)	1.0	-	146 (91.3)	1.0	-	148 (92.5)	1.0	-

OR = odds ratio, CI = confidence interval. BCS = body condition score, TLU = tropical livestock units, SEI = socio-economic index, -RVF = Rift Valley fever, p-values less than 0.05 are shown in bold.