

Table S1. Prevalence of tick infestation according to studied regions and sheep breeds during 8 sampling rounds.

Location	Breeds	Number of infested sheep/Total examined (% $\pm$ SE)							
		April 2018	July 2018	October 2018	January 2019	April 2019	July 2019	October 2019	January 2020
Northeast	Barbarine	21/123 (17 $\pm$ 3.4) ^b	12/103 (11.7 $\pm$ 3.2)	1/92 (1.1 $\pm$ 1.1)	0/86 (0)	15/38 (39.5 $\pm$ 7.9)	40/81 (49.4 $\pm$ 5.6)	2/78 (2.6 $\pm$ 1.8)	0/76 (0)
	QFO	18/41 (44 $\pm$ 7.8)	6/29 (20.7 $\pm$ 7.5)	1/31 (3.2 $\pm$ 3.2)	0/27 (0)	12/22 (54.5 $\pm$ 10.6)	8/23 (34.8 $\pm$ 9.9)	1/24 (4.2 $\pm$ 4.1)	0/20 (0)
	Total Northeast	39/164 (23.8 $\pm$ 3.3) ^a	18/132 (13.6 $\pm$ 3)	2/123 (1.6 $\pm$ 1.1) ^a	0/113 (0) ^a	27/60 (45 $\pm$ 6.4) ^a	48/104 (46.2 $\pm$ 4.9) ^a	3/102 (2.9 $\pm$ 1.7) ^a	0/96 (0) ^a
Northwest	Barbarine	12/119 (10.1 $\pm$ 2.8)	19/109 (17.4 $\pm$ 3.6) ^b	1/100 (1 $\pm$ 0.9)	0/97 (0)	2/96 (2.1 $\pm$ 1.5)	19/87 (21.8 $\pm$ 4.4)	2/80 (2.5 $\pm$ 1.7)	1/78 (1.3 $\pm$ 1.3)
	QFO	2/43 (4.7 $\pm$ 3.2)	1/42 (2.4 $\pm$ 2.3)	0/41 (0)	0/41 (0)	0/39 (0)	7/38 (18.4 $\pm$ 6.3)	2/36 (5.6 $\pm$ 3.8)	0/36 (0)
	Total Northwest	14/162 (8.6 $\pm$ 2.2)	20/151 (13.2 $\pm$ 2.8)	1/141 (0.7 $\pm$ 0.7)	0/138 (0)	2/135 (1.5 $\pm$ 1)	26/125 (20.8 $\pm$ 3.6)	4/116 (3.4 $\pm$ 1.7)	1/114 (0.9 $\pm$ 0.9)
Southeast	Barbarine	0/116 (0)	0/42 (0) ^b	11/41 (26.8 $\pm$ 6.9) ^b	6/38 (15.8 $\pm$ 5.9) ^b	26/36 (72.2 $\pm$ 7.5) ^b	23/30 (76.7 $\pm$ 7.7) ^b	14/27 (52 $\pm$ 9.6) ^b	17/29 (58.6 $\pm$ 9.1) ^b
	QFO	0/67 (0)	6/57 (1.05 $\pm$ 4.1)	4/57 (7 $\pm$ 3.4)	0/52 (0)	5/38 (13.2 $\pm$ 5.5)	1/29 (3.4 $\pm$ 3.4)	2/27 (7.4 $\pm$ 5)	1/19 (5.3 $\pm$ 5.1)
	Total Southeast	0/113 (0)	6/99 (6.1 $\pm$ 2.4)	15/98 (15.3 $\pm$ 3.6)	6/90 (6.7 $\pm$ 2.6)	31/74 (41.9 $\pm$ 5.7)	24/59 (40.7 $\pm$ 6.4)	16/54 (29.6 $\pm$ 6.2)	18/48 (37.5 $\pm$ 7)
Total breeds	Barbarine	33/288 (11.5 $\pm$ 1.9)	31/254 (12.2 $\pm$ 2.1)	13/233 (5.6 $\pm$ 1.5)	6/221 (2.7 $\pm$ 1.1)	43/170 (25.3 $\pm$ 3.3)	82/198 (41.4 $\pm$ 3.5) ^b	18/185 (9.7 $\pm$ 2.2)	18/183 (9.8 $\pm$ 2.2) ^b
	QFO	20/151 (13.2 $\pm$ 2.8)	13/128 (10.2 $\pm$ 2.7)	5/129 (3.9 $\pm$ 1.7)	0/120 (0)	17/99 (17.2 $\pm$ 3.8)	16/90 (17.8 $\pm$ 4)	5/87 (5.7 $\pm$ 2.5)	1/75 (1.3 $\pm$ 1.3)
Total		53/439 (12.1 $\pm$ 1.6)	44/382 (11.5 $\pm$ 1.6)	18/362 (5 $\pm$ 1.1)	6/341 (1.8 $\pm$ 0.7)	60/269 (22.3 $\pm$ 2.5)	98/288 (34 $\pm$ 2.8)	23/272 (8.5 $\pm$ 1.7)	19/258 (7.4 $\pm$ 1.6)

SE: standard error; QFO: Queue Fine de l'Ouest breed; ^a Percentages between regions within the same column are statistically significant at $p \leq 0.001$ using χ^2 test; ^b Percentages between breeds within the same column are statistically significant at $p \leq 0.05$ using χ^2 test.