

**Table S1.** Univariate analysis of explanatory risk factors associated to *T. gondii* infection goat population from Northeastern Algeria, with P-value  $\geq 0.05$ .

Variable	Categories	Negative	Positive (%)	OR (95% CI)	P-value
Individual related factors					
Gender	Male	73	85 (53.8)	1.0334 (0.7026-1.52)	0.862
	Female	142	160 (52.98)		
Age	<2 years	89	92 (50.83)	—	0.272
	2-5 years	88	118 (57.28)	0.7709 (0.516- 1.1517)	
	>5 years	38	35 (47.95)	0.6869 (0.402- 1.1737)	
Body conditions	Poor	59	55 (48.25)	—	0.597
	Medium	47	56 (54.37)	0.7824 (0.4586-1.3347)	
	Good	100	120 (54.55)	1.0071 (0.6296-1.6112)	
	Very good	9	14 (60.87)	0.7714 (0.3205-1.857)	
	Non breeder	49	42 (46.15)	—	
Management system	Extensive	13	11 (45.83)	0.2962 (0.0913-0.961)	0.102
	Intensive	7	20 (74.07)	0.4113 (0.1681-1.006)	
	Semi-intensive	120	141 (54.02)	1.2072 (0.8061-1.8079)	
	Semi-extensive	75	73 (49.32)	—	
Herd related factors					
Type of production	Milk	80	97 (54.8)	—	0.804
	Meat	31	37 (54.41)	1.0159 (0.5794-1.7813)	
	Mixed	104	111 (51.63)	0.8942 (0.5174-1.5454)	
Herd size	1-10	106	103 (49.28)	—	0.294
	11-30	101	131 (56.47)	0.7492 (0.5147-1.0904)	
	≥31	8	11 (57.89)	1.0601 (0.4112-2.7329)	
Size of pasture area	10H	80	101 (55.80)	—	0.059
	11-50H	124	122 (49.59)	1.2832 (0.8728-1.8865)	
	≥51H	4	2 (33.33)	0.5082 (0.0914-2.8259)	
Type of pasture area	Plain	77	85 (52.47)	—	0.160
	Hill	121	131 (51.98)	1.0196 (0.6868-1.5138)	
	Mountain	10	9 (47.37)	0.8313 (0.3267-2.1151)	
Common pastures	No	134	140 (51.09)	0.9096 (0.615- 1.3453)	0.631
	Yes	74	85 (53.46)		
Use of concentrate feed	No	76	68	1.423 (0.958-2.114)	0.080
	Yes	139	177		
Watering type	Surface water	129	165 (56.12)	1.375 (0.9386- 2.0142)	0.101
	Surface and deep water	86	80 (48.19)		
	Tap water	111	142 (56.13)		
Water source	Tap + valley water	30	37 (55.22)	—	0.218
				1.0373 (0.6034-1.7831)	
	Tap + well water	74	66 (47.14)	0.7232 (0.403-1.2978)	
Location of the water trough	Internal	107	134 (55.6)	—	0.444
	External	14	11 (44.00)	1.5939 (0.6953-3.6538)	
	Mixed	94	100 (51.55)	1.354 (0.5855-3.1313)	
Species on the farm	Goats	78	104 (57.14)	1.2955 (0.8894-1.8871)	0.177
	Goats+Sheep	137	141 (50.72)		
Presence of other farm animals	No	3	3 (50)	1.1415 (0.228-5.716)	0.872
	Yes	212	242 (53.3)		
Presence of cattle	No	131	147 (52.88)	1.0397 (0.7148-1.5123)	0.841
	Yes	84	98 (53.85)		
Presence of equids	No	199	223 (52.84)	1.227 (0.6268-2.4021)	0.548
	Yes	16	22 (57.89)		
Presence of	No	11	138 (55.42)	0.8276 (0.5729-1.1955)	0.312

poultry	Yes	104	107 (50.71)		
Presence of rodents	No	157	173 (52.42)	1.1266 (0.7493-1.6937)	0.565
	Yes	58	72 (55.38)		
<b>Cat-related factors</b>					
Presence of cats	No	47	51 (52.04)	1.0642 (0.6807-1.6638)	0.791
	Yes	168	194 (53.59)		
Access of cats to feed	No	155	160 (50.79)	1.3724 (0.9222-2.0423)	0.118
	Yes	60	85 (58.62)		
Access of cats to water	No	86	103 (54.5)	0.9191 (0.6332-1.334)	0.654
	Yes	129	142 (52.4)		
Cats for control of rodents	No	168	174 (50.88)	0.6856 (0.4481-1.0489)	0.081
	Yes	47	71 (60.17)		
Control of cat's population	No	161	183 (53.2)	1.3825 (0.5236-3.6507)	0.511
	Yes	07	11 (61.11)		
Birth of cats in the farm	No	153	185 (54.73)	0.8003 (0.5287-1.2115)	0.292
	Yes	62	60 (49.18)		
Cats consume placenta	No	73	68 (48.23)	1.4238 (0.9315-2.1764)	0.102
	Yes	95	126 (57.01)		
Presence of wild cats	No	189	217 (53.45)	0.938 (0.5313-1.6558)	0.823
	Yes	26	28 (51.85)		
<b>Hygiene related factors</b>					
Quarantine	No	166	197 (54.27)	0.8254 (0.5272-1.2925)	0.402
	Yes	49	48 (49.48)		
Special place for parturition	No	180	199 (52.51)	1.1888 (0.7329-1.9282)	0.483
	Yes	35	46 (56.79)		
Exchange of breeder	No	124	151 (54.91)	0.8483 (0.5839-1.2324)	0.388
	Yes	91	94 (50.81)		
Slaughtering in the farm	No	201	229 (53.26)	1.003 (0.478-2.106)	0.993
	Yes	14	16 (53.333)		
<b>Disease and herd health related factors</b>					
Deworming	No	86	113 (56.78)	0.7788 (0.5374-1.1284)	0.185
	Yes	129	132 (50.57)		
Use of Antimicrobials	No	133	155 (53.82)	0.9418 (0.6451-1.375)	0.751
	Yes	82	90 (52.33)		
<b>Reproduction related factors</b>					
Reproductive disorders	No	15	11 (42.31)	1.5955 (0.7165-3.5529)	0.248
	Yes	200	234 (53.92)		
History of abortion	No	92	88 (48.89)	1.5682 (0.9823-2.5035)	0.058
	Yes	48	72 (60.00)		
Stillbirth	No	56	65 (53.72)	0.9685 (0.6373-1.4719)	0.887
	Yes	153	172 (52.92)		
New born death	No	138	141 (50.54)	1.3233 (0.8993-1.9473)	0.155
	Yes	71	96 (57.49)		
Elimination of aborted products	No	146	167 (53.35)	1.0564 (0.6788-1.644)	0.806
	Yes	48	58 (54.72)		
<b>Spatio-temporal related factors</b>					
	Mila	130	140 (51.85)	—	
Province	Constantine	64	75 (53.96)	0.919 (0.6098-1.385)	0.682
	Guelma	18	23 (56.10)	0.9171 (0.4549-1.8491)	
	El-Taref	3	7 (70.00)	0.5476 (0.1238-2.4214)	
Environment	Rural	177	202 (53.3)	1.0085 (0.6236- 1.6312)	1
	Peri-urban	38	43 (53.09)		
Climate	Humid	108	132 (55.00)	—	0.554

Sub-humid	102	105 (50.72)	1.1873 (0.8179-1.7236)
Semi-arid	5	8 (61.54)	0.6434 (0.2037-2.0322)

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Ref.—reference value; OR—odds ratio; CI—confidence interval.