

**Table 4.** Effect of *C. burnetii* on the reproductive performance of animals

Locations		Effective investigation		Number of animals with symptoms			Reproductive disorders					
							Number of cows		Number of goats		Number of sheep	
	Cows	Goats	Sheep	Cows	Goats	Sheep	Abortion	Stillbirth	Abortion	Stillbirth	Abortion	Stillbirth
Beyla	30	26	28	14	10	13	9	5	6	4	7	6
Mamou	28	24	27	12	4	6	8	4	2	2	3	3
Boke	27	25	29	12	6	6	8	4	3	3	3	3
Kankan	29	24	26	10	5	8	7	3	3	2	4	4
TOTAL	114	99	110	48	25	33	32	16	14	11	17	16
%		-	-	42.11	25.25	30.00	66.67	33.33	56.00	44.00	51.52	48.48
P-value		-	-		0.0244		0.0022		0.5716		1.00	

% : percentage ; *P-value*

**Table 5.** Excretion of *C. burnetii* in vaginal swabs of ruminants during two consecutive birthing seasons

Features	Cows , n = 114		Goats , n = 99		Sheep , n= 110		p-value
	PCR positive/Number tested (%)	95% CI	PCR positive/Number tested (%)	95% CI	PCR positive/Number tested (%)	95% CI	
Episode abortion in 1 year							
0	3/15 (20)	[05.31 – 48.62]	2/11 (18.18)	[03.21 – 52.24]	2/11 (18.18)	[03.21 – 52.24]	0.9904
1	7/32 (21.87)	[09.94 – 40.44]	6/14 (42.86)	[18.81 – 70.35]	5/17 (29.41)	[11.37 – 55.95]	0.3484
2	0 /0 (0.00)	N / A	0/4 (0.00)	N / A	3/11 (27.27)	[07.32 – 60.68]	N / A
Episode of stillbirth in 1 year							
0	1/8 (12.5)	[0.65 – 53.32]	3/8 (37.5)	[10.24 – 74.10]	1/8 (12.5)	[0.65 – 53.32]	0.364
1	4/16 (25)	[08.33 – 52.59]	6/11 (54.54)	[24.56 – 81.86]	3/16 (18.75)	[04.97 – 46.30]	0.117
2	0/0 (0.00)	N / A	0/2 (0.00)	N / A	1/5 (20)	N / A	N / A
Retained placenta in 1 year							
No	3/15 (20)	[05.31 – 48.62]	9/26 (34.61)	[17.94 – 55.63]	4/17 (23.52)	[07.82 – 50.23]	0.5446
Yes	9/20 (45)	[23.82 – 67.95]	3/10 (30)	[13.69 – 72.63]	5/18 (27.77)	[10.71 – 53.59]	0.5399
Metritis in 1 year							
No	4/14 (28.57)	[00.58 – 57.99]	3/18 (16.67)	[04.40 – 42.26]	3/10 (30)	[08.09 – 64.63]	0.6735
Yes	7/18 (38.89)	[18.26 – 63.85]	4/14 (28.57)	[09.58 – 57.99]	5/16 (31.25)	[12.12 – 58.51]	0.8089

CI : Confidence Interval; n: number; Nb: number; %: percentage; p-value: p-value of Chi2 test for comparison of proportions.

**Table 6.** *C. burnetii* excretion status in goats/sheep during two successive calvings and one calving in cows

Female animals	Before first lambing		First calving			Second calving		
	Nb of positive	Nb of negative	Nb of positifve	Nb of negative	Nb of positive cases after first calving and still positive	Nb Number of positive cases after first calving and subsequently becoming negative	Nb of negative cases after first calving became positive	Nb of negatives after first calving and still negative
Cows	4	19	12	36	NA	NA	NA	NA
Goats	5	14	12	13	0	6	0	11
Sheep	3	16	8	25	4	4	1	2

Nb : number