

Table S1. Agreement table, observer agreement chart, agreement indexes and relative confidence intervals for the selected nine dairy goat farms.

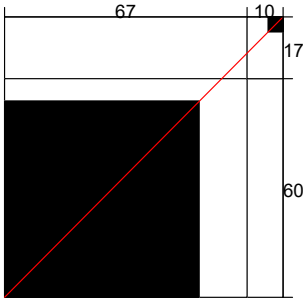
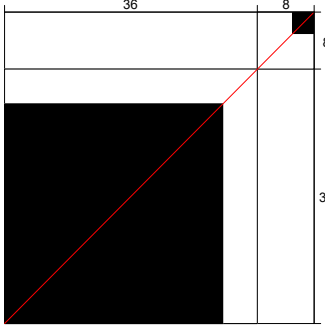
Values of the agreement indexes used with relative confidence intervals, calculated with the closed formulas of variance estimates found in published literature and through the bootstrap and exact bootstrap methods. The first column shows the agreement table [63] and the observer agreement chart [36].

¹ $\pi = \pi$ index [19]; $k = k$ index [5]; $k_c =$ correct k index [5]; k_{PABAK} and related indexes (σ index [20], G index [27] and S index [28]); $H = H$ index [29]; $\alpha = \alpha$ index [30]; $\Gamma = \Gamma$ index [31]; $J = J$ index [32]; $B = B$ index [33]; $\Delta = \Delta$ index [24]; $\gamma(AC_1) = \gamma(AC_1)$ index [21].

² E-IT1, I-IT1, I-IT2, I-IT3, I-IT4, I-IT5, I-IT6, I-IT7, I-PT1 = farms.

³ P_o = concordance rate.

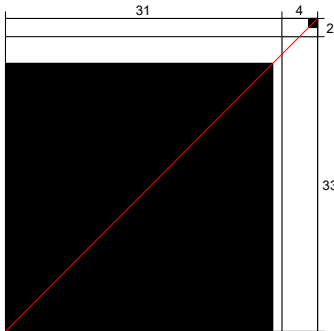
⁴ N.C. = not calculated as the closed formula or the algorithm was not able to give any value.

					Index ¹	Value	Confidence intervals																									
							By closed formula	By bootstrap method (BM; mean) By exact bootstrap method (EBM; mean)																								
<div>E-IT1²</div> <div><table><tr><td colspan="2"></td><td colspan="2">A2</td><td></td></tr><tr><td colspan="2"></td><td>0</td><td>1</td><td></td></tr><tr><td rowspan="2">A1</td><td>0</td><td>54</td><td>13</td><td>67</td></tr><tr><td>1</td><td>6</td><td>4</td><td>10</td></tr><tr><td colspan="2"></td><td>60</td><td>17</td><td>77</td></tr></table></div> <div>Agreement table</div> <div></div> <div>Observer agreement chart</div>							A2					0	1		A1	0	54	13	67	1	6	4	10			60	17	77	$P_o = 0.75^3$			
							A2																									
							0	1																								
					A1	0	54	13	67																							
						1	6	4	10																							
							60	17	77																							
					π	0.15 (with paradoxes)	-0.19; 0.48 [19]	BM: -0.12; 0.42 (0.13) EBM: -0.11; 0.39 (0.14)																								
					k α	0.16 (with paradoxes)	-0.01; 0.33 [62]	BM: -0.08; 0.40 (0.14) EBM: -0.08; 0.41 (0.15)																								
					k_c	0.23 (with paradoxes)	0.01; 0.45 [62]	BM: -0.14; 0.62 (0.21) EBM: -0.13; 0.60 (0.22)																								
					k_{PABAK}	0.51 (without paradoxes)	0.31; 0.69 [19]	BM: 0.30; 0.69 (0.50) EBM: 0.30; 0.69 (0.51)																								
H	0.75 (without paradoxes)	0.65; 0.85 [19]	BM: 0.65; 0.85 (0.75) EBM: 0.65; 0.84 (0.75)																													
Γ J	0.25 (with paradoxes)	0.22; 0.29 [59]	BM: 0.09; 0.47 (0.26) EBM: 0.09; 0.47 (0.27)																													
B	0.70 (without paradoxes)	N.C. ⁴	BM: 0.57; 0.82 (0.70) EBM: 0.57; 0.82 (0.70)																													
Δ	0.52 (without paradoxes)	$\Delta_I = 0.33; 0.71$ $\Delta_{II} = 0.35; 0.69$ [24]	BM: 0.33; 0.72 (0.52) EBM: 0.33; 0.72 (0.53)																													
$\gamma (AC_1)$	0.65 (without paradoxes)	0.54; 0.77 [21]	BM: 0.46; 0.80 (0.64) EBM: 0.47; 0.80 (0.65)																													
<div>I-IT1</div> <div><table><tr><td colspan="2"></td><td colspan="2">A2</td><td></td></tr><tr><td colspan="2"></td><td>0</td><td>1</td><td></td></tr><tr><td rowspan="2">A1</td><td>0</td><td>31</td><td>5</td><td>36</td></tr><tr><td>1</td><td>5</td><td>3</td><td>8</td></tr><tr><td colspan="2"></td><td>36</td><td>8</td><td>44</td></tr></table></div> <div>Agreement table</div> <div></div> <div>Observer agreement chart</div>							A2					0	1		A1	0	31	5	36	1	5	3	8			36	8	44	$P_o = 0.77$			
							A2																									
							0	1																								
					A1	0	31	5	36																							
						1	5	3	8																							
							36	8	44																							
					π	0.24 (with paradoxes)	-0.18; 0.65 [19]	BM: -0.17; 0.70 (0.24) EBM: -0.14; 0.56 (0.22)																								
					k α	0.24 (with paradoxes)	-0.18; 0.65 [62]	BM: -0.15; 0.65 (0.24) EBM: -0.12; 0.56 (0.23)																								
					k_c	0.24 (with paradoxes)	0.24; 0.24 [62]	BM: -0.26; 0.74 (0.29) EBM: -0.22; 0.86 (0.33)																								
					k_{PABAK}	0.54 (without paradoxes)	0.29; 0.79 [19]	BM: 0.22; 0.87 (0.55) EBM: 0.27; 0.77 (0.54)																								
H	0.77 (without paradoxes)	0.64; 0.90 [19]	BM: 0.73; 0.97 (0.88) EBM: 0.64; 0.88 (0.77)																													
Γ J	0.30 (with paradoxes)	0.23; 0.36 [59]	BM: 0.07; 0.63 (0.31) EBM: 0.07; 0.60 (0.31)																													
B	0.71 (without paradoxes)	N.C.	BM: 0.46; 0.91 (0.72) EBM: 0.54; 0.87 (0.71)																													
Δ	0.54 (without paradoxes)	$\Delta_I = 0.30; 0.79$ $\Delta_{II} = 0.32; 0.77$ [24]	BM: 0.28; 0.83 (0.56) EBM: 0.30; 0.79 (0.57)																													
$\gamma (AC_1)$	0.68 (without paradoxes)	0.56; 0.79 [21]	BM: 0.33; 0.90 (0.68) EBM: 0.44; 0.86 (0.67)																													

I-IT2

		A2	
		0	1
A1	0	30	1
	1	3	1
		33	2
			35

Agreement table



Observer agreement chart

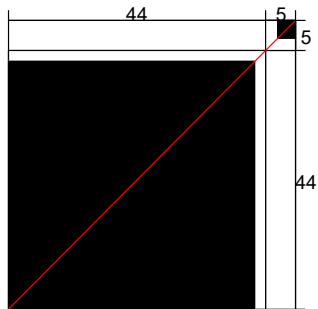
$P_o = 0.88$

π	0.27 (with paradoxes)	-0.41; 0.95 [19]	BM: -0.12; 0.86 (0.26) EBM: -0.11; 0.78 (0.23)
k α	0.27 (with paradoxes)	-0.40; 0.95 [62]	BM: -0.10; 0.78 (0.27) EBM: -0.09; 0.78 (0.25)
k_C	0.43 (with paradoxes)	-0.05; 0.92 [62]	BM: -0.17; 1.00 EBM: N.C. ²
k_{PABAK}	0.77 (without paradoxes)	0.54; 0.98 [19]	BM: 0.45; 0.95 (0.76) EBM: 0.54; 0.94 (0.77)
H	0.88 (without paradoxes)	0.77; 0.99 [19]	BM: 0.74; 0.99 (0.88) EBM: 0.77; 0.97 (0.89)
Γ J	0.59 (with paradoxes)	0.52; 0.67 [59]	BM: 0.28; 0.90 (0.59) EBM: 0.29; 0.89 (0.61)
B	0.87 (without paradoxes)	N.C.	BM: 0.73; 0.97 (0.87) EBM: 0.74; 0.97 (0.87)
Δ	0.79 (without paradoxes)	$\Delta_I = 0.58; 0.99$ $\Delta_{II} = 0.62; 0.96$ [24]	BM: 0.52; 0.97 (0.79) EBM: 0.57; 0.97 (0.81)
$\gamma (AC_1)$	0.86 (without paradoxes)	0.75; 0.98 [21]	BM: 0.66; 0.99 (0.86) EBM: 0.70; 0.97 (0.86)

I-IT3

		2	
		0	1
A1	0	42	2
	1	2	3
		44	5
			49

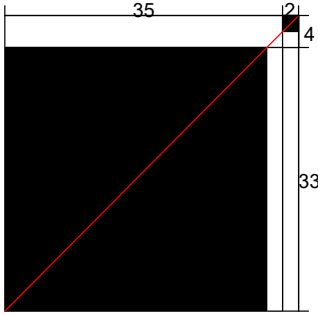
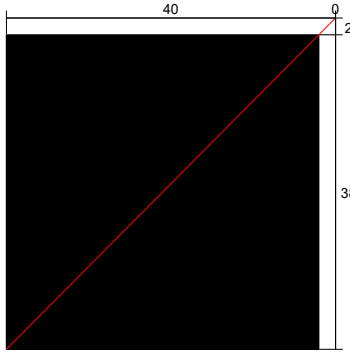
Agreement table

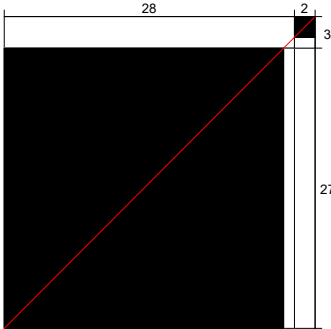


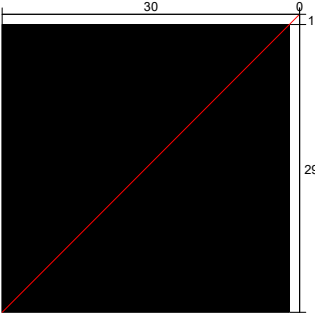
Observer agreement chart

$P_o = 0.92$

π	0.55 (with paradoxes)	0.13; 0.98 [19]	BM: 0.17; 0.83 (0.54) EBM: - 0.04; 0.90 (0.52)
k α	0.55 (with paradoxes)	0.14; 0.97 [62]	BM: 0.21; 0.83 (0.55) EBM: - 0.03; 0.90 (0.53)
k_C	0.55 (with paradoxes)	0.55; 0.55 [62]	BM: 0.20; 1.00 (0.64) EBM: -1.29; 5.09 (1.23)
k_{PABAK}	0.84 (without paradoxes)	0.69; 0.99 [19]	BM: 0.71; 0.95 (0.84) EBM: 0.67; 0.96 (0.84)
H	0.92 (without paradoxes)	0.84; 0.99 [19]	BM: 0.86; 0.97 (0.92) EBM: 0.80; 0.97 (0.90)
Γ J	0.69 (with paradoxes)	0.64; 0.76 [59]	BM: 0.51; 0.90 (0.71) EBM: 0.45; 0.92 (0.70)
B	0.90 (without paradoxes)	N.C.	BM: 0.85; 0.98 (0.90) EBM: 0.80; 0.98 (0.90)
Δ	0.84 (without paradoxes)	$\Delta_I = 0.68; 0.99$ $\Delta_{II} = 0.70; 0.98$ [24]	BM: 0.72; 0.97 (0.85) EBM: 0.68; 0.98 (0.85)
$\gamma (AC_1)$	0.90 (without paradoxes)	0.78; 1.02 [21]	BM: 0.81; 0.97(0.90) EBM: 0.78; 0.98 (0.90)

I-IT4					$P_o = 0.95$																																																															
<table><tr><td colspan="2"></td><td colspan="2">A2</td><td></td></tr><tr><td colspan="2"></td><td>0</td><td>1</td><td></td></tr><tr><td rowspan="2">A1</td><td>0</td><td>33</td><td>2</td><td>35</td></tr><tr><td>1</td><td>0</td><td>2</td><td>2</td></tr><tr><td colspan="2"></td><td>33</td><td>4</td><td>37</td></tr></table>							A2					0	1		A1	0	33	2	35	1	0	2	2			33	4	37	<table><tr><td>π</td><td>0.64 (with paradoxes)</td><td>0.14; 1.13 [19]</td><td>BM: 0.19; 0.92 (0.62) EBM: - 0.04; 1.00 (0.59)</td></tr><tr><td>k_α</td><td>0.64 (with paradoxes)</td><td>0.16; 1.12 [62]</td><td>BM: 0.23; 0.93 (0.62) EBM: N.C.</td></tr><tr><td>k_C</td><td>1 (with paradoxes)</td><td>0.51; 1.48 [62]</td><td>BM: N.C. EBM: -4.3; 8.33</td></tr><tr><td>k_{PABAK}</td><td>0.89 (without paradoxes)</td><td>0.76; 1.00 [19]</td><td>BM: 0.79; 0.97 (0.89) EBM: 0.72; 1.00 (0.89)</td></tr><tr><td>H</td><td>0.95 (without paradoxes)</td><td>0.88; 1.00 [19]</td><td>BM: 0.88; 0.99 (0.95) EBM: 0.86; 1.00 (0.95)</td></tr><tr><td>Γ J</td><td>0.79 (with paradoxes)</td><td>0.72; 0.87 [59]</td><td>BM: 0.59; 0.95 (0.80) EBM: 0.52; 1.00 (0.79)</td></tr><tr><td>B</td><td>0.94 (without paradoxes)</td><td>N.C.</td><td>BM: 0.88; 0.99 (0.94) EBM: 0.85; 1.00 (0.94)</td></tr><tr><td>Δ</td><td>0.95 (without paradoxes)</td><td>$\Delta_I = 0.84; 1.05$ $\Delta_{II} = 0.84; 1.05$ [24]</td><td>BM: 0.87; 0.99 (0.94) EBM: 0.86; 1.00 (0.95)</td></tr><tr><td>$\gamma (AC_1)$</td><td>0.94 (without paradoxes)</td><td>0.82; 1.05 [21]</td><td>BM: 0.86; 0.99 (0.93) EBM: 0.83; 1.00 (0.93)</td></tr></table>				π	0.64 (with paradoxes)	0.14; 1.13 [19]	BM: 0.19; 0.92 (0.62) EBM: - 0.04; 1.00 (0.59)	k_α	0.64 (with paradoxes)	0.16; 1.12 [62]	BM: 0.23; 0.93 (0.62) EBM: N.C.	k_C	1 (with paradoxes)	0.51; 1.48 [62]	BM: N.C. EBM: -4.3; 8.33	k_{PABAK}	0.89 (without paradoxes)	0.76; 1.00 [19]	BM: 0.79; 0.97 (0.89) EBM: 0.72; 1.00 (0.89)	H	0.95 (without paradoxes)	0.88; 1.00 [19]	BM: 0.88; 0.99 (0.95) EBM: 0.86; 1.00 (0.95)	Γ J	0.79 (with paradoxes)	0.72; 0.87 [59]	BM: 0.59; 0.95 (0.80) EBM: 0.52; 1.00 (0.79)	B	0.94 (without paradoxes)	N.C.	BM: 0.88; 0.99 (0.94) EBM: 0.85; 1.00 (0.94)	Δ	0.95 (without paradoxes)	$\Delta_I = 0.84; 1.05$ $\Delta_{II} = 0.84; 1.05$ [24]	BM: 0.87; 0.99 (0.94) EBM: 0.86; 1.00 (0.95)	$\gamma (AC_1)$	0.94 (without paradoxes)	0.82; 1.05 [21]	BM: 0.86; 0.99 (0.93) EBM: 0.83; 1.00 (0.93)
		A2																																																																		
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$\gamma (AC_1)$	0.94 (without paradoxes)	0.82; 1.05 [21]	BM: 0.86; 0.99 (0.93) EBM: 0.83; 1.00 (0.93)																																																																	
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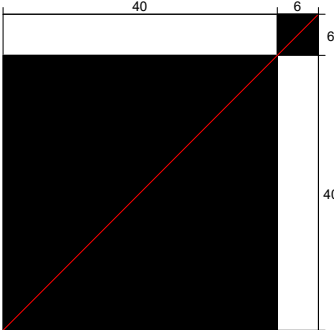
I-IT6					$P_o = 0.97$																											
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		A2																														
		0	1																													
A1	0	27	1	28																												
	1	0	2	2																												
		27	3	30																												
Agreement table																																
																																
Observer agreement chart																																
					π	0.78 (with paradoxes)	0.35; 1.20 [19]	BM: 0.62; 0.94 (0.77) EBM: 0.47; 0.80 (0.74)																								
					k α	0.78 (with paradoxes)	0.36; 1.20 [62]	BM: 0.00; 1.00 (0.77) EBM: 0.00; 1.00 (0.74)																								
					k_C	1.00 (with paradoxes)	0.58; 1.41 [62]	BM: N.C. EBM: N.C.																								
					k_{PABAK}	0.93 (without paradoxes)	0.82; 1.00 [19]	BM: 0.74; 1.00 (0.93) EBM: 0.80; 1.00 (0.93)																								
					H	0.97 (without paradoxes)	0.91; 1.00 [19]	BM: 0.79; 0.99 (0.90) EBM: 0.9; 1.00 (0.97)																								
					Γ J	0.87 (with paradoxes)	0.78; 0.95 [59]	BM: 0.55; 1.00 (0.87) EBM: 0.64; 1.00 (0.87)																								
					B	0.96 (without paradoxes)	N.C.	BM: 0.88; 1.00 (0.96) EBM: 0.88; 1.00 (0.96)																								
					Δ	0.97 (without paradoxes)	$\Delta_I = 0.87; 1.00$ $\Delta_{II} = 0.87; 1.00$ [24]	BM: 0.87; 1.00 (0.97) EBM: 0.90; 1.00 (0.97)																								
					$\gamma (AC_1)$	0.96 (without paradoxes)	0.84; 1.00 [21]	BM: 0.84; 1.00 (0.96) EBM: 0.80; 1.00 (0.93)																								

I-IT7					$P_o = 0.97$																											
<table><tr><td colspan="2"></td><td colspan="2">A2</td><td></td></tr><tr><td colspan="2"></td><td>0</td><td>1</td><td></td></tr><tr><td rowspan="2">A1</td><td>0</td><td>29</td><td>1</td><td>30</td></tr><tr><td>1</td><td>0</td><td>0</td><td>0</td></tr><tr><td colspan="2"></td><td>29</td><td>1</td><td>30</td></tr></table>							A2					0	1		A1	0	29	1	30	1	0	0	0			29	1	30				
		A2																														
		0	1																													
A1	0	29	1	30																												
	1	0	0	0																												
		29	1	30																												
Agreement table																																
																																
Observer agreement chart																																
					π	-0.02 (with paradoxes)	-2.01; 1.98 [19]	BM: N.C. EBM: -0.05; 1.00 (0.35)																								
					k α	0.00 (with paradoxes)	-1.93; 1.93 [62]	BM: N.C. EBM: 0.00; 1.00 (0.36)																								
					k_C	0.00 (with paradoxes)	N.C.	BM: N.C. EBM: 0.00; 1.00 (0.00)																								
					k_{PABAK}	0.93 (without paradoxes)	0.82; 1.00 [19]	BM: 0.77; 1.00 (0.93) EBM: 0.80; 1.00 (0.93)																								
					H	0.97 (without paradoxes)	0.91; 1.00 [19]	BM: 0.90; 1.00 (0.97) EBM: 0.90; 1.00 (0.97)																								
					Γ J	0.87 (with paradoxes)	0.78; 0.96 [59]	BM: 0.63; 1.00 (0.88) EBM: 0.64; 1.00 (0.87)																								
					B	0.97 (without paradoxes)	N.C.	BM: 0.91; 1.00 (0.97) EBM: 0.90; 1.00 (0.97)																								
					Δ	0.97 (without paradoxes)	$\Delta_I = 0.87; 1.00$ $\Delta_{II} = \text{N.C.}$ [24]	BM: 0.88; 1.00 (0.97) EBM: 0.90; 1.00 (0.97)																								
					$\gamma (AC_1)$	0.96 (without paradoxes)	0.85; 1.00 [21]	BM: 0.88; 1.00 (0.97) EBM: 0.89; 1.00 (0.96)																								

I-PT1

		2		
		0	1	
A1	0	40	0	40
	1	0	6	6
		40	6	46

Agreement table



Observer agreement chart

$P_o = 1.00$

π	1.00 (with paradoxes)	1.00; 1.00 [19]	BM: 1.00; 1.00 (1.00) EBM: 1.00; 1.00 (1.00)
k_α	1.00 (with paradoxes)	1.00; 1.00 [62]	BM: 1.00; 1.00 (1.00) EBM: 1.00; 1.00 (1.00)
k_C	1.00 (with paradoxes)	-1.00; 1.00 [62]	BM: 1.00; 1.00 (1.00) EBM: 1.00; 1.00 (1.00)
k_{PABAK}	1.00 (without paradoxes)	N.C.	BM: 1.00; 1.00 (1.00) EBM: 1.00; 1.00 (1.00)
H	1.00 (without paradoxes)	N.C.	BM: 1.00; 1.00 (1.00) EBM: 1.00; 1.00 (1.00)
Γ J	1.00 (with paradoxes)	0.94; 1.00 [59]	BM: 1.00; 1.00 (1.00) EBM: 1.00; 1.00 (1.00)
B	1.00 (without paradoxes)	N.C.	BM: 1.00; 1.00 (1.00) EBM: 1.00; 1.00 (1.00)
Δ	1.00 (without paradoxes)	$\Delta_I = 1.00$ $\Delta_{II} = 1.00$ [24]	BM: 1.00; 1.00 (1.00) EBM: 1.00; 1.00 (1.00)
$\gamma (AC_1)$	1.00 (without paradoxes)	0.88; 1.12 [21]	BM: 1.00; 1.00 (1.00) EBM: 1.00; 1.00 (1.00)

References

63. Agresti, A. *Categorical Data Analysis*, 2nd ed.; Wiley: New York, NY, USA, 2002; pp. 1–356.

Table S2. Agreement table.

Observations can be organized in a contingency 2 (rater) \times 2 (categories) table, in which the N objects are evaluated by a categorical scale of 2 categories. This table is known as agreement table [63].

		Rater B q		Total
		1	2	
Rater A q	1	n_{11}	n_{12}	$n_{1.}$
	2	n_{21}	n_{22}	$n_{2.}$
Total		$n_{.1}$	$n_{.2}$	n

q = categories; n = subjects