1 **Predicting milk yield in Pelibuey ewes from the udder volume measurement with a**

2 **simple method**

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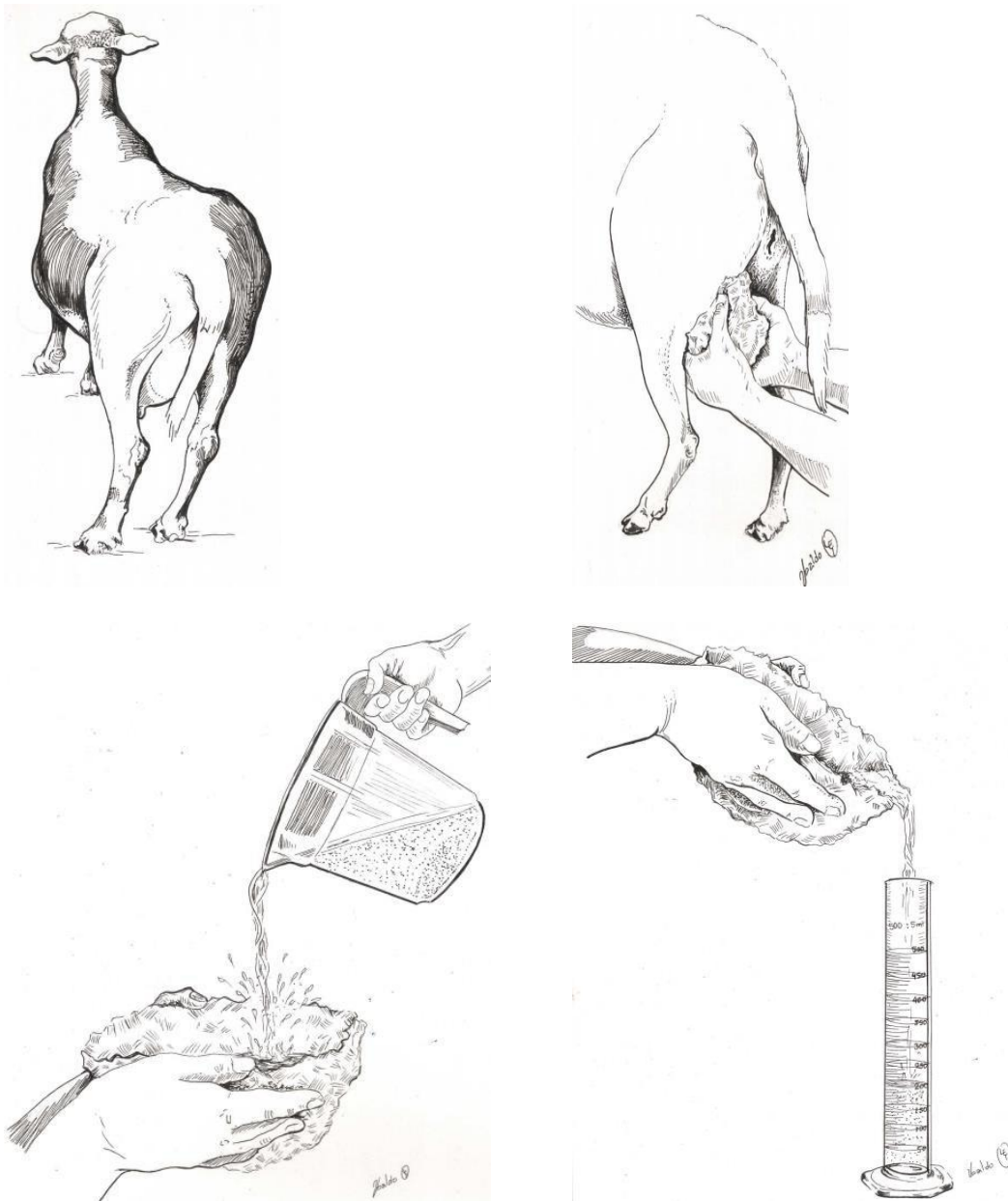6 Cruz, Manuel González Ronquillo, Augusto C Lizarazo Chaparro and Alfonso J. Chay-

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SUPPLEMENTARY FILE

Supplementary files

Figure S1. Schematic of the udder volume measurement using the aluminium foil technique

(Graphics by Isidro U. Gutierrez Lopez).

31   **Table S1.** Correlation coefficients among measured variables

	MY	UVBM	UVAM
UVBM	0.78***		
UVAM	0.58***	0.76***	
UVD	0.63***	0.79***	0.28***

32   UVBM: Udder volume before milking; UVAM: Udder volume after milking; UVD: Udder

33   volume difference; MY: Daily milk yield

34   ***P<0.0001

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37   **Table S2.** Mean and descriptive statistics of the accuracy and precision of the equation for

38   predicting milk yield based on udder volume in Pelibuey ewes.

Variable[1]	Obs	[Eq. 1]
Mean	0.34	0.33
SD	0.14	0.10
Maximum	0.83	0.77
Minimum	0.09	0.15
r^2	---	0.61
CCC	---	0.73
Cb	---	0.94
MEF		0.59
CD		1.91

Regression analysis

Intercept (β_0)

Estimate	---	-0.02
SE	---	0.02
P-value ($\beta_0 = 0$)	---	0.37

Slope (β_1)

Estimate	---	1.10
SE	---	0.05
P-value ($\beta_1 = 1$)	---	0.05

MSEP source, % MSEP

Mean bias	---	3.83
Systematic bias	---	1.27
Random error	---	94.90

Root MSEP

Estimate	---	0.09
% of the mean	---	25.18

39 [1]Obs: observed evaluation data set; CCC: concordance correlation coefficient; Cb: bias

40 correction factor; MEF: modelling efficiency statistics; CD: coefficient of model

41 determination; MSEP: mean square error of the prediction.

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