

# Supplementary Material

**Table 1:** Cattle measurements (von den Driesch, 1976) (distributed by level and anatomical element). Abbreviations: Bd, (Greatest) breadth of the distal end; Bp, (Greatest) breadth of the proximal end; Dl, (Greatest) depth of the lateral half; Dm, (Greatest) depth of the medial half; Dp, (Greatest) depth of the proximal end; GL, Greatest length; GLl, greatest length of the lateral half; GLm, greatest length of the medial half; SD, Smallest breadth of the diaphysis

CE12			
Astragalus			
GLl	60.32		
GLm	57.52		
Bd	35.49		
Dm	33.15		
Dl	33.56		
CE14			
Tibia			
Bd	53.91		
Second phalanx			
GL	33.01	42.38	
SD	20.5	24.28	
Bp		30.7	
Dp		31.9	
Bd	22.58	27.29	

**Table 2:** Sheep/goat MNE, MAU and %MAU used for correlations (Spearman  $\rho$ ) with density and SFUI incices, following Lyman (1994) bone sections. MAND: mandible; SC: scapula-; H: humerus; R: radius; MC: metacarpal; AC: acetabulum; IL: ilium; IS: ischium; F: femur; T: tibia; CALC: calcaneus; ASTR: astragalus; MT: metatarsal. In the case of the CV sector, the sum of the remains of all the structures is presented

Bone sections	CE12			CE13			CE14			Level II		
	MNE	MAU	%MAU	MNE	MAU	%MAU	MNE	MAU	%MAU	MNE	MAU	%MAU
MAND3	1	0.5	14.3	1	0.5	50	—	—	—	—	—	—
MAND4	2	1.0	28.6	1	0.5	50	1	0.5	33.3	—	—	—
SC1	3	1.5	42.9	—	—	—	1	1.0	66.7	1	0.5	16.7
SC2	1	0.5	14.3	—	—	—	1	1.0	66.7	—	—	—
SC3	1	0.5	14.3	—	—	—	1	1.0	66.7	—	—	—
SC4	1	0.5	14.3	—	—	—	1	1.0	66.7	—	—	—
SC5	1	0.5	14.3	—	—	—	1	1.0	66.7	—	—	—
H1	2	1.0	28.6	—	—	—	2	1.0	66.7	—	—	—
H2	2	1.0	28.6	—	—	—	2	1.0	66.7	2	1	33.3
H3	3	1.5	42.9	1	0.5	50	3	1.5	100	3	1.5	50.0
H4	1	0.5	14.3	2	1	100	3	1.5	100	2	1	33.3
H5	4	2.0	57.1	1	1	100	2	1.0	66.7	1	0.5	16.7
R1	2	1.0	28.6	—	—	—	2	1.0	66.7	1	0.5	16.7
R2	3	1.5	42.9	—	—	—	3	1.5	100	1	0.5	16.7
R3	1	0.5	14.3	—	—	—	3	1.5	100	1	0.5	16.7
R4	—	—	—	—	—	—	—	—	—	1	0.5	16.7
R5	2	1.0	28.6	—	—	—	2	1.0	66.7	—	—	—
U1	5	2.5	71.4	—	—	—	—	—	—	2	1	25
U2	5	2.5	71.4	1	0.5	50	—	—	—	—	—	—
MC1	4	2.0	57.1	—	—	—	1	0.5	33.3	—	—	—
MC2	4	2.0	57.1	—	—	—	2	1.0	66.7	—	—	—
MC3	1	0.5	14.3	—	—	—	2	1.0	66.7	—	—	—
AC1	2	2.0	57.1	1	1	1	—	—	—	3	3	100
IL1	1	1.0	28.6	—	—	—	—	—	—	—	—	—
IS1	—	—	—	—	—	—	—	—	—	—	—	—
IS2	—	—	—	—	—	—	—	—	—	—	—	—
F2	2	1.0	28.6	1	0.5	1	1	0.5	33.3	—	—	—
F3	1	0.5	14.3	1	0.5	1	3	1.5	100	—	—	—
F4	1	0.5	14.3	1	0.5	1	3	1.5	100	—	—	—
F5	1	0.5	14.3	—	—	—	—	—	—	1	0.5	16.7
F6	1	0.5	14.3	—	—	—	—	—	—	2	1	33.3
T1	2	1.0	28.6	—	—	—	2	1.0	66.7	—	—	—
T2	7	3.5	100	1	0.5	50	3	1.5	100	—	—	—
T3	3	1.5	42.9	2	1	100	3	1.5	100	2	1	33.3
T4	4	2.0	57.1	2	1	100	2	1.0	66.7	2	1	33.3
T5	1	0.5	14.3	1	0.5	50	—	—	—	2	1	2
CALC1	4	2.0	57.1	—	—	—	1	0.5	33.3	—	—	—

(Continued)

**Table 2:** *Continued*

**Table 3:** Cattle MNE, MAU and %MAU, from CE sector used for correlations (Spearman  $\rho$ ) with density and SFUI indices. following Lyman (1994) bone sections. MAND: mandible; H: humerus; U: ULNA; MC: metacarpal; T: tibia; CALC: calcaneus; ASTR: astragalus; MT: metatarsal; P1: first phalanx; P2: second phalanx; P3: third phalanx. These indices were not calculated in the structures that presented less than 10 cattle remains

Bone sections	CE12			CE13			CE14			Total CE		
	MNE	MAU	%MAU	MNE	MAU	%MAU	MNE	MAU	%MAU	MNE	MAU	%MAU
MAND8	—	—	—	—	—	—	1	0.5	100	1	0.5	33.3
H4	1	0.5	50	—	—	—	—	—	—	1	0.5	33.3
U1	1	0.5	50	—	—	—	—	—	—	1	0.5	33.3
MC1	1	0.5	50	1	0.5	50	1	0.5	100	3	1.5	100
MC2	1	0.5	50	1	0.5	50	1	0.5	100	3	1.5	100
MC3	—	—	—	—	—	—	1	0.5	100	1	0.5	33.3
T4	1	0.5	50	—	—	—	—	—	—	1	0.5	33.3
T5	1	0.5	50	—	—	—	1	0.5	100	2	1	66.7
CALC1	—	—	—	—	—	—	1	0.5	100	1	0.5	33.
CALC2	—	—	—	—	—	—	1	0.5	100	1	0.5	33.3
CALC3	—	—	—	—	—	—	1	0.5	100	1	0.5	33.3
CALC4	—	—	—	—	—	—	1	0.5	100	1	0.5	33.3
ASTR1	1	0.5	50	—	—	—	1	0.5	100	2	1	66.7
ASTR2	1	0.5	50	—	—	—	1	0.5	100	2	1	66.7
ASTR3	1	0.5	50	—	—	—	1	0.5	100	2	1	66.7
MT2	1	0.5	50	—	—	—	—	—	—	1	0.5	33.3
P12	—	—	—	1	0.25	25	—	—	—	1	0.1	8.3
P13	—	—	—	1	0.25	25	—	—	—	1	0.1	8.3
P21	—	—	—	—	—	—	2	0.2	50	2	0.1	8.3
P22	—	—	—	—	—	—	2	0.2	50	2	0.1	8.3
P23	—	—	—	—	—	—	2	0.2	50	2	0.1	8.3
P31	1	0.1	12	—	—	—	—	—	—	1	0.1	8.3

**Table 4:** NISP and MNE (in parentheses) of taxa, from CE and CV, represented by a low number of remains and/or their %MAU were not calculated

		<b>Skull</b>	<b>Mandible</b>	<b>Tooth</b>	<b>Vertebra</b>	<b>Rib</b>	<b>Scapula</b>	<b>Humerus</b>	<b>Radius</b>	<b>Ulna</b>	<b>Carpal</b>	<b>Pelvis</b>	<b>Femur</b>	<b>Tibia</b>	<b>Tarsal</b>	<b>Metapodio</b>	<b>Phalanx</b>	<b>Articular</b>	<b>Long</b>
											<b>metacarpal</b>								
CE12	Roe											1(1)							
	deer																		
	Wild			1(1)															
	boar/																		
	pig																		
	Rabbit	2(1)	3(3)		1(1)	1(1)			1(1)			1(1)	4(3)	4(4)		4(4)		1(1)	
	Birds								1(1)										
CE13	Wild					1(1)			3(3)	1(1)									
	boar/																		
	pig																		
	Rabbit																		
	CE14	Red										1(1)							
	deer																		
	Roe																		
	deer																		
	Wild																		
	boa-																		
	r/pig																		
	Rabbit	1(1)	1(1)	2(2)					1(1)		1(1)		1(1)	8(6)		2(2)	1(1)		
	Dog										1(1)								
	Birds																		
H1	Rabbit																1(1)		

(Continued)

**Table 4:** *Continued*

		Skull	Mandible	Tooth	Vertebra	Rib	Scapula	Humerus	Radius	Ulna	Carpal	metacarpal	Pelvis	Femur	Tibia	Tarsal	Metapodio	Phalanx	Articular	Long
H8	Rabbit																			
H9	Wild boar/	Wild																		
	pig																			
	Rabbit																			
	Birds																			
P9	Cattle																			
PH12	Cattle																			
Level	Cattle																			
II	Wild boar/	Wild																		
	pig																			
	Rabbit																			
Total		3(2)	7(7)	7(8)	2(2)	1(1)	3(3)	9(8)	3(3)	5(5)	3(3)	1(1)	3(3)	7(6)	15(13)	1(1)	11(11)	4(4)	1(1)	3(3)

**Table 5:** Age at death of sheep/goat and cattle from CE. Abbreviations: Estimation: fetus (FETUS), neonatus (NEO), immature (IMM), juvenile (JUV); adult (AD); indeterminate age (INDET); months (m), years (yrs); criteria (Crit.): bone (B); teeth (T)

	CE12		CE13		CE14	
	Estimation	Crit.	Determination	Criteria	Determination	Criteria
Cattle	IMM (<18 m) AD (>24–30 m)	TB	IMM (<7–10 m)	B	JUV/AD (>15 m)	B
Sheep	AD >24 m	B	JUV/AD (>6–12 m)	B	JUV/AD (>18 m)	B
Goat	NEO (0–1 m)	T	IMM (12 m)	T	INDET	
	IMM (<24 m)	B	JUV (20–24 m)	B		
	AD (>24 m)	B				
Sheep/Goat	NEO/FETUS (<1 m)	B	IMM (6–12 m)	B	FETUS (<0 m)	B
	IMM (6–12 m)	B&T	JUV/AD (12–30 m)	B	IMM (1–6 m)	B&T
	AD (24 m)	B			AD (24–36 m)	B
	AD (>24 m)	B			AD (8–10 yrs)	T

**Table 6:** Age at death of domestic animals and wild boar/pig determined from the structures of CV that present remains of these taxa. Abbreviations: Estimation: fetus (FETUS), neonatus (NEO), immature (IMM), juvenile (JUV); adult (AD); indeterminate age (INDET); months (m), years (yrs); Criteria (Crit.): bone (B); Teeth (T)

	<b>H1</b>		<b>H8</b>		<b>H9</b>		<b>P9</b>		<b>PH12</b>		<b>Level II</b>	
	Estimation	Crit.	Estimation	Crit.	Estimation	Crit.	Estimation	Crit.	Estimation	Crit.	Estimation	Crit.
Cattle					JUV/AD (>15–18 m)	B	JUV/AD (>14 m)	B	IMM (<14 m)	T		
Sheep									JUV/AD (>14 m)	B		
Goat									AD (>36–48 m)	B		
Sheep/goat	AD (36–48 M)	B&T	JUV/AD (>15–18 m)	D	AD (>24–48 m)	B			JUV/AD (>6–12 m)			
									NEO/FETUS (<1 m)	B		
									IMM (2–12 m)	B&T		
									AD (>24 m)	B&T		

**Table 7:** Taphonomic alterations documented in CE and CV remains expressed in percentages of NISP and NR

Alteration	Taxon	CE12	CE13	CE14	H1	H8	H9	P9	PH7	PH8	Level II
Cut marks	Cattle	6.7	25.0	18.2	—	—	—	—	—	—	33.3
	Sheep/goat	11.8	—	12.8	20	—	12.5	—	—	—	7.9
	Roe deer	—	—	100	—	—	—	—	—	—	—
	Rabbit	—	—	11.1	—	—	—	—	—	—	—
	Dog	—	—	100	—	—	—	—	—	—	—
	Large size	6.5	12.5	11.8	—	—	33.3	—	—	—	81.8
	Medium size	14.3	—	12.5	—	—	—	—	—	100	—
	Small size	11.3	20	5.6	—	—	2.7	—	—	0.0	94.3
	Very small size	16.7	—	92.3	—	—	—	—	—	—	6.7
	Indet	6.7	—	97.3	—	—	—	—	100	—	—
Breakage	Cattle	40	50	27.3	—	—	—	—	—	—	—
	Sheep/goat	54.8	58.8	53.2	—	—	75	—	—	—	50
	Roe deer	50	—	100	—	—	—	—	—	—	—
	Wild boar/pig	25	100	100	—	—	100	—	—	—	25
	Rabbit	47.8	—	11.1	—	100	100	—	—	—	66.7
	Birds	33.3	—	—	—	—	33.3	—	—	—	50
	Large size	93.5	87.5	100	—	—	83.3	100	—	—	63.6
	Medium size	100	100	87.5	—	—	16.7	—	—	—	63.6
	Small size	100	97.1	99.6	100	100	100	—	—	100.0	24.4
	Very small size	87.5	100	11.5	—	100	100	—	—	—	93.3
Tooth marks	Indet	100	100	—	—	—	100	100	—	—	95.8
	Cattle	13.3	25	36.4	—	—	—	—	—	—	—
	Sheep/goat	20.4	23.5	34	20	—	—	—	—	—	42.1
	Wild boar/pig	—	—	100	—	—	—	—	—	—	25
	Rabbit	8.7	50.0	61.1	—	—	—	—	—	—	—
	Dog	—	—	100	—	—	—	—	—	—	—
	Birds	11.1	—	—	—	—	—	—	—	—	—
	Large size	6.5	—	11.8	—	—	—	—	—	—	72.7
	Medium size	21.4	16.7	6.3	—	—	13.3	—	—	—	36.4
	Small size	19.2	17.1	13.0	50	—	5.4	—	—	—	46.3
Boiling evidences	Very small size	8.3	25	34.6	—	—	—	—	—	—	—
	Indet	—	—	10.8	—	—	25	—	—	—	12.5
	Cattle	40	—	9.1	—	—	—	1	—	—	—
	Sheep/goat	45.2	58.8	55.3	20	—	37.5	—	—	—	31.6
	Roe deer	—	—	100	—	—	—	—	—	—	—
	Wild boar/pig	25	100	—	—	—	—	—	—	—	—
	Rabbit	39.1	50	11.1	—	100	—	—	—	—	66.7
	Birds	66.7	—	—	—	—	66.7	—	—	—	—
Small size	Large size	35.5	37.5	35.3	—	—	50	100	—	—	26.4
	Medium size	21.4	50	25	—	—	16.7	—	—	100	45.5
	Small size	47	71.4	40.7	50	—	35.1	—	—	—	8.9

(Continued)

**Table 7:** *Continued*

<b>Alteration</b>	<b>Taxon</b>	<b>CE12</b>	<b>CE13</b>	<b>CE14</b>	<b>H1</b>	<b>H8</b>	<b>H9</b>	<b>P9</b>	<b>PH7</b>	<b>PH8</b>	<b>Level II</b>
Burning	Very small size	50	25	53.8	—	—	44.4	—	—	—	26.7
	Indet	16.7	37.5	59.5	—	—	37.5	—	—	—	16.7
	Cattle	26.7	—	—	—	—	—	—	—	—	1
	Sheep/goat	32.3	17.6	19.1	—	—	37.5	—	—	—	—
	Roe deer	100	—	—	—	—	—	—	—	—	—
	wild boar/pig	—	—	100	—	—	—	—	—	—	25
	Rabbit	56.5	100	61.1	—	—	—	—	—	—	—
	Birds	33.3	—	50	—	—	33.3	—	—	—	—
	Large size	38.7	37.5	35.3	—	—	—	—	—	—	21.8
	Medium size	57.1	33.3	56.3	—	—	—	—	—	—	—
Butchering	Small size	38.4	22.9	47.6	—	71.4	17.6	—	—	100	0.8
	Very small size	25	—	3.8	—	100	22.2	—	—	—	6.7
	Indet	20	37.5	21.2	—	—	—	—	—	—	8.3