

## Biometrical database of European aurochs and domestic cattle

### Measurements included in database

Measurements included in the online database are listed here (Table 1 for postcranial bones and Table 2 for teeth), along with their definition and associated reference. In the online database von den Driesch (1976) measurements are indicated in the column heading by the widely used codes included below, but all other measurements are indicated using a full description. This is in line with the OpenContext.org formatting guidelines.

A full description of the recording methodology used for this project is laid out in Wright (2016).

**Table 1: Measurements taken on postcranial bones.**

Element	Code	Description	Reference
Atlas	H	Height	Albarella & Payne (2005)
	BFcr	Breadth of cranial articular surface	von den Driesch (1976)
Scapula	SLC	Smallest width of the collum	von den Driesch (1976)
Humerus	BT	Width of the trochlea	Payne & Bull (1988)
	HTC	Minimum height of the trochlea	
Radius	GL	Greatest length	von den Driesch (1976)
	Bd	Breadth of distal end	
	BFp	Breadth of the humeral articular surface	
	Bp	Breadth of proximal end	
Metacarpus III & IV	GL	Greatest length	von den Driesch (1976)
	SD	Smallest diameter of the diaphysis	von den Driesch (1976)
	BFd	Breadth of the distal end	von den Driesch (1976)
	Dd	Depth of the distal end	von den Driesch (1976)
	BatF	Breadth at the distal fusion line	Davis (1992)
	a	Breadth of medial condyle	Davis (1992)
	b	Breadth of lateral condyle	Davis (1992)
	3	Diameter of the lateral part of the medial condyle	Davis (1992)
	6	Diameter of the medial part of the lateral condyle	Davis (1992)
Pelvis	LA	Length of the acetabulum including the lip	von den Driesch (1976)
Femur	DC	Diameter of the caput	von den Driesch (1976)
Tibia	GL	Greatest length	von den Driesch (1976)
	Bd	Breadth of the distal end	
	Dd	Depth of the distal end	
Astragalus	GLl	Greatest length of the lateral side	von den Driesch (1976)
	GLm	Greatest length of the medial side	
	Bd	Breadth of the distal end	
Calcaneum	GL	Greatest length	von den Driesch (1976)
	GD	Greatest depth	Albarella & Payne (2005)
Metatarsus III & IV	GL	Greatest length	von den Driesch (1976)
	SD	Smallest diameter of the diaphysis	von den Driesch (1976)
	BFd	Breadth of the distal end	von den Driesch (1976)
	Dd	Depth of the distal end	von den Driesch (1976)
	BatF	Breadth at the distal fusion line	Davis (1992)
	a	Breadth of medial condyle	Davis (1992)
	b	Breadth of lateral condyle	Davis (1992)
	3	Diameter of the lateral part of the medial condyle	Davis (1992)
	6	Diameter of the medial part of the lateral condyle	Davis (1992)

**Table 2: Measurements taken on teeth**

Element	Code	Description	Reference
dP <sup>4</sup>	W	Width, taken at the widest part of the tooth	My own definition
M <sup>1</sup>	W		
M <sup>2</sup>	W		
M <sup>3</sup>	W		
dP <sub>4</sub>	W		
M <sub>1</sub>	W		
M <sub>2</sub>	W		
M <sub>3</sub>	W	Length, take at the widest part of the tooth	von den Driesch (1976) - as for Pig M3
	L		
Mandible	Mand H	Mandible Height in front of the M1 on the buccal side	von den Driesch (1976)

**References:**

Albarella, U. & Payne, S., 2005. Neolithic pigs from Durrington Walls, Wiltshire, England: a biometrical database. *Journal of Archaeological Science*, 32(4), pp.589–599.

Davis, S., 1992. A rapid recording method for recording information about animal bones from archaeological sites. In *AML report 19/92*. London: English Heritage.

Driesch, von den, A., 1976. *A guide to the measurement of animal bones from archaeological sites*, Harvard University.

Payne, S. & Bull, G., 1988. Components of variation in measurements of pig bones and teeth, and the use of measurements to distinguish wild from domestic pig remains. *Archaeozoologia*, 2, pp.27–66.