

Appendix 1.

Raw Osteometric Data

Animal Remains from the Early Copper Age (Epilengyel) Settlement Pits in Rannersdorf, Lower Austria

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The appendix provides the full list of bone measurements. Their numbering (in tables marked by *) and abbreviations follow the standards introduced by Angela von den Driesch.¹ All values are given in millimetres, those in parentheses are approximate. The length (L) and breadth (B) of the molar teeth in suids was measured near the biting surface, in dogs at the cingulum. The length of the cheektooth, molar or premolar row was measured along the alveoli on the buccal side.

The abbreviations used in the appendix are as follows:

a – adult	j – juvenile
AN – <i>Anas</i> sp.	m – male
BOS – <i>Bos</i> sp.	mat – mature
BT – <i>Bos taurus</i>	OA – <i>Ovis aries</i>
BP – <i>Bos primigenius</i>	O/C – <i>Ovis/Capra</i>
c – castrated male	SD – <i>Sus domesticus</i>
CF – <i>Canis familiaris</i>	s – subadult
CE – <i>Cervus elaphus</i>	se – senile
CA – <i>Castor fiber</i>	SR – small rodent
CH – <i>Capra hircus</i>	SX – <i>Sus</i> sp.
f – female	

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¹ VON DEN DRIESCH 1976.

1. <i>Bos</i> – Cornu			
Sample/spec. no.	1553/31	1549/6	160
Form	BT	BT	BOS
Sex	f	f	f BP?
Age	s	a?	s/a
44* = Horn-core basal circumference	(140)	156	206.0
45* = Greatest (oro-aboral) diameter of the horn-core base	49.5	58.5	72.3
46* = Least (dorso-basal) diameter of the horn-core base	(36.8)	42.4	55.2

2. <i>Bos</i> – Mandibula						
Sample/spec. no.	73/70	162	177	188	165	173
Form	BT	BT?	BOS	BOS	BOS	BOS
Age	a	a	a	mat	a	a
M3L	37.1	38.3	(41.5)	–	–	38.4
M3B	14.2	(13.5)	15.0	15.4	(14.5)	14.5
M3 abrasion	(++)	++	++	+++	++	+

3. <i>Bos</i> – Vertebra cervicalis	
Sample/spec. no.	73/99
Form	BT?
BFcr	87.5

4. <i>Bos</i> – Scapula				
Sample/spec. no.	73/75	173/8	165	179/11
Form	BT	BT	BT	BOS
SLC	52.5	46.7	–	70.1
LG	–	51.5	63.4	(64.9)
BG	–	43.9	54.4	–
GLP	–	62.0	–	(81.0)

5. <i>Bos</i> – Humerus												
Sample/spec. no.	173/4	1553/40	145/10	1553/39	1553/42	1553/41	173/5	177	160	179/14	145/18	1549/1
Form	BT	BT	BT	BT	BT	BT	BT	BT	BT	BOS	BOS	BP
SD	–	35.8	37.8	–	–	–	–	–	–	–	–	–
Bd	–	–	–	80.1	(85.5)	(85.5)	89.7	89.6	–	(97.9)	–	–
BT	(70.7)	–	71.3	(73.6)	75.2	78.8	79.3	82.3	68.8	(82.9)	87.5	(95.4)

6. <i>Bos</i> – Radius			
Sample/spec. no.	162	165	177
Form	BT	BT	BP?
Bp	84.2	84.4	–
BFp	75.7	76.3	–
Bd	–	–	91.6
BFd	–	–	86.0

7. <i>Bos</i> – Ulna			
Sample/spec. no.	145/14	165	160
Form	BOS	BOS	BP?
DPA	80.5	79.8	–
SDO	65.9	(61.2)	–
BPC	–	–	47.90

8. <i>Bos</i> – Metacarpus												
Sample/spec. no.	73/58	36/1	163	165	182	182	188	173/2	179/17	188	218	1553/36
Form	BT	BT	BT	BT	BT	BT	BT	BT	BT	BT	BT	BOS
Sex	m?	f	f	f	f	f	?	f	m?	f	?	?
Bp	62.8	54.8	57.43	58.9	59.2	55.5	–	–	–	–	–	(65.8)
SD	–	29.0	32.4	–	–	–	–	–	–	–	(38.4)	–
Dd	–	–	–	–	–	–	23.9	23.0	–	–	26.5	–
Bd	–	–	–	–	–	–	–	64.7	(68.2)	65.5	–	–

9. <i>Bos</i> – Pelvis	
Sample/spec. no.	145/19
Form	BP?
Sex	f?
LA	83.0

10. <i>Bos</i> – Femur	
Sample/spec. no.	1553/22
Form	BT
DC	48.5

11. <i>Bos</i> – Tibia						
Sample/spec. no.	1553/21	145/17	173/9	179/3	73/93	1553/20
Form	BT	BT	BT	BT	BOS	BOS
Bp	–	–	–	–	(109.6)	–
SD	–	45.5	–	41.2	–	–
Bd	70.8	71.4	73.1	–	–	73.1

12. <i>Bos</i> – Centrotarsale	
Sample/spec. no.	171/7
Form	BT
GB	51.9

13. <i>Bos</i> – Talus								
Sample/spec. no.	73/51	179/15	162	177	218	160	145/1	188
Form	BT	BT	BT	BT	BT	BT	BT	BOS
GLl	–	64.3	65.7	70.9	66.7	–	71.9	76.2
GLm	62.9	–	61.5	63.5	–	61.9	67.6	69
Bd	–	–	–	46.0	–	–	47.3	(47.8)
Dl	–	36.2	35.9	36.0	37.1	37.5	42.3	–
Dm	–	–	–	38.8	–	37.10	42.7	–

14. <i>Bos</i> – Calcaneus	
Sample/spec. no.	179/16
Form	BT
GL	135.1
GB	45.6

15. <i>Bos</i> – Metatarsus							
Sample/spec. no.	33/10	33/11	73/57	145/12	73/61	145/13	188
Form	BT	BT	BT	BT	BT	BOS	BOS
Sex	f	f	f	f	f	?	?
Bp	–	–	43.5	46.4	(48.1)	52.5	–
SD	–	–	(27.7)	–	–	–	(32.1)
Bd	59.8	58.4	–	–	–	–	67.4
Dd	28.5	–	–	–	–	–	33.1

16. <i>Bos</i> – Phalanx I							
Sample/spec. no.	218	162	73/54	1549/19	1553/12	182	177
Form	BT	BT	BT	BT	BT	BT	BT
GLpe	(56.4)	58.6	–	58.4	–	–	58.5
Bp	29.5	29.8	–	30.3	30.6	–	30.7
SD	24.9	25.4	–	26.0	24.7	24.9	26.2
Bd	–	26.2	27.1	27.9	27.1	–	26.9
Anterior/posterior	?	anterior	?	anterior	–	?	anterior

16. – continued								
Sample/spec. no.	1549/20	173/6	1549/21	1553/13	73/56	73/55	177	162
Form	BT	BT	BOS	BT	BP?	BP?	BP	BP
GLpe	60.9	–	69.6	–	–	–	72.1	(62.8)
Bp	(34.5)	(31.7)	35.7	–	–	34.0	(40.2)	39.1
SD	28.2	28.3	28.5	29.2	(30.2)	30.8	33.4	(35.3)
Bd	32.1	–	30.4	32.9	–	–	34.5	–
Anterior/posterior	anterior	anterior	posterior	anterior	?	anterior	posterior	anterior

17. <i>Bos</i> – Phalanx II								
Sample/spec. no.	160	162	162	177	188	160	1549/22	182
Form	BT	BT	BT	BT	BOS	BP?	BP?	BOS
GL	(36.2)	40.2	41.7	40.1	42.6	48.8	44.6	–
Bp	27.2	28.8	29.9	33.3	34.2	34.9	37.1	34.2
SD	21.5	23.0	24.3	26.6	28.3	27.9	30.3	28.1
Bd	–	23.3	23.3	27.8	27.6	27.7	31.4	(29.2)

18. <i>Bos</i> – Phalanx III		
Sample/spec. no.	1549/23	160
Form	BT?	BOS
Ld	54.2	(49.9)
MBS	23.2	24.2
DLS	–	(67.4)

19. <i>Ovis</i> – Cranium	
Sample/spec. no.	73/6
Sex	f
Age	s?
33* = Greatest neurocranium breadth: euryon – euryon	64.7

20. <i>Capra</i> – Calvarium			
Sample/spec. no.	145/32	1553/53	171/19
Sex	f?	f?	?
Age	a?	s/a	s/a
27* = Greatest breadth of the occipital condyles	–	–	(44.2)
29* = Greatest breadth of the foramen magnum	–	–	17.1
30* = Height of the foramen magnum: basion – opisthion	–	–	14.2
40* = Horn-core basal circumference	100.0	–	–
41* = Greatest (oro-aboral) diameter of the horn-core base	35.6	38.3	–
42* = Least (latero-medial) diameter of the horn-core base	25.6	26.9	–

21. <i>Capra</i> – Talus	
Sample/spec. no.	188
GLl	35.3
GLm	33.3
Bd	23.6
Dl	19.9
Dm	19.6

22. <i>Ovis/Capra</i> – Mandibula					
Sample/spec. no.	145/34	145/35	218	173/26	73/44
Age	mat	mat	mat	mat	mat/se
M3L	–	–	23.1	–	–
M3B	–	–	8.3	–	–
L of P2–M3	63.1	72.0	–	–	–
L of M1–M3	43.5	48.7	–	–	–
L of P2–P4	–	22.6	–	25.0	–
15a* = Height of the mandible behind M3	30.7	37.7	–	–	–
15b* = Height of the mandible in front of M1	23.0	21.6	–	24.5	17.9
15c* = Height of the mandible in front of P2	17.4	–	–	21.1	15.6
M3 abrasion	+++	++/+++	+++	++	?

23. <i>Ovis/Capra</i> – Scapula	
Sample/spec. no.	179/29
SLC	18.8

24. <i>Ovis/Capra</i> – Humerus	
Sample/spec. no.	165
SD	15.3

25. <i>Ovis/Capra</i> – Metacarpus	
Sample/spec. no.	1553/44
Bp	22.0
SD	13.2

26. <i>Ovis/Capra</i> – Pelvis		
Sample/spec. no.	73/7	179/28
Sex	?	?
LA	25.8	31.6

27. <i>Ovis/Capra</i> – Tibia								
Sample/spec. no.	73/8	73/9	73/16	1553/45	218	177	177	173/23
Bp	–	–	–	(36.8)	–	–	–	–
SD	–	13.3	12.7	11.4	13.1	12.7	–	12.8
Bd	26.4	–	–	–	–	–	29.3	–

28. <i>Ovis/Capra</i> – Metatarsus				
Sample/spec. no.	73/11	1549/13	162	179/30
SD	(10.9)	11.4	(12.8)	–
Dd	–	–	–	9.0

29. <i>Sus</i> – Maxilla	
Sample/spec. no.	33/17
Form	SX
Sex	f
Age	a
25* = Length from the aboral border of the alveolus of M3 – aboral border of the alveolus of C	123.05
27* = Length of the cheektooth row	115.58
28* = Length of the molar row	69.85
29* = Length of the premolar row	46.23
30* = Length of M3 measured near the base of the crown	36.24
31* = Breadth of M3 measured near the base of the crown	20.41
32* = Greatest diameter of the canine alveolus	15.44

30. <i>Sus</i> – Mandibula									
Sample/spec. no.	73/47	1549/17	165	165	162	173/32	173/34	174/1	173/33
Form	SD	SD	SX	SD	SD	SD	SD	SD	SD
Sex	f	–	–	–	–				
Age	a	a	s	s	a	s	s	s/a	j
L of P2–M3	102.5	–	–	–	–				
L of M1–M3	69.1	–	–	–	–				
M3L	34.3	27.9	(38.7)	–	36.0				
M3B	17.0	13.3	(18.7)	–	16.4				
M2L	20.0	–	23.3	20.5	22.1	19.5	19.5	21.0	–
M2B	14.1	–	14.8	12.4	14.4	12.7	12.9	13.0	–
M1L	17.1	–	–	16.0	–	16.1	15.4	15.9	–
M1B	12.0	–	–	10.0	–	10.7	9.6	10.0	–
16b* = Height of the mandible in front of M1	41.5	–	–	–	–				
Stage/M3 abrasion	++	+	–	–	+	–	–	?	–

31. <i>Sus</i> – Scapula	
Sample/spec. no.	162
Form	SD
SLC	21.6

32. <i>Sus</i> – Humerus		
Sample/spec. no.	165	174/3
Form	SD	SD
SD	14.7	12.8
Bd	36.9	(32.2)

33. <i>Sus</i> – Ulna		
Sample/spec. no.	73/38	177
Form	SX	SX
DPA	40.0	35.9
BPC	23.1	20.9

34. <i>Sus</i> – Tibia		
Sample/spec. no.	1553/46	182
Form	SD	SX
Bd	(24.8)	(32.7)

35. <i>Sus</i> – Talus	
Sample/spec. no.	177
Form	SD
GLl	41.0
GLm	37.4

36. <i>Canis</i> – Cranium	
Sample/spec. no.	145/37
Individual	CA-1
Sex	m?
Age	s/a
7* = Upper neurocranium length: akrokranium – frontal midpoint	74.5
15* = Length of cheektooth row	49.6
16* = Length of the molar row	16.8
17* = Length of the premolar row	39.5
23* = Greatest mastoid breadth: otion – otion	58.9
24* = Breadth dorsal to the external auditory meatus	59.5
28* = Height of the foramen magnum: basion – opisthion	(19.1)
29* = Greatest neurocranium breadth: euryon – euryon	52.0
30* = Zygomatic breadth: zygion – zygion	(95.1)
31* = Least breadth of skull; breadth at the postorbital constriction	35.4
32* = Frontal breadth: ectorbital – ectorbital	45.7
33* = Least breadth between the orbits: entorbital – entorbital	30.4
37* = Greatest inner height of the orbit	25.7
38* = Skull height (following WAGNER 1930, 19)	(50.8)
39* = Skull height without the sagittal crest (following WAGNER 1930, 19 ff.)	(45.8)
40* = Height of the occipital triangle: akrokranium – basion	(38.0)

37. <i>Canis</i> – Mandibula				
Sample/spec. no.	145/36	73/3	162	182
Individual	CA-1	CA-2	CA-3	CA-4
Age	s/a	s/a	s/a	s/a
1* = Total length: length from the condyle process – infradentale	(115)	–	–	–
2* = Length: the angular process – infradentale	(113)	–	–	–
3* = Length from the indentation between the condyle process and the angular process – infradentale	(110)	–	–	–
4* = Length: the condyle process – aboral border of the canine alveolus	96.5	–	–	–
5* = Length from the indentation between the condyle process and the angular process – aboral border of the canine alveolus	(91.5)	–	–	–
7* = Length: the aboral border of the alveolus of M3 – aboral border of the canine alveolus	64.1	–	–	–
8* = Length of the cheektooth row, M3–P1	62.5	–	64.7	–
9* = Length of the cheektooth row, M3–P2	59.0	–	–	–
10* = Length of the molar row	30.7	–	32.1	(32.5)
11* = Length of the premolar row, P1–P4	34.1	–	33.2	35.8
12* = Length of the premolar row, P2–P4	30.7	34.6	30.6	31.2
13* = Length/breadth of the carnassial, measured at the cingulum	18.5/7.6	–	–	–
14* = Length of the carnassial alveolus	18.2	–	19.2	(18.0)
15* = Length and breadth of M2, measured at cingulum	7.6	–	–	–
16* = Length of M3	10.5	–	–	–
19* = Height of the mandible behind M1	21.7	–	22.8	22.6
20* = Height of the mandible between P2 and P3	15.8	–	(16.3)	18.6
21* = Height (length) of the canine, measured in a straight line from point to point	32.9/6.0	–	–	–

38. <i>Canis</i> – Humerus	
Sample/spec. no.	73/5
SD	11.4
Bd	26.9
BT	21.2

39. <i>Canis</i> – Femur		
Sample/spec. no.	73/4	218
Bp	30.2	28.4
DC	15.7	14
SD	10.8	10.8

40. <i>Cervus</i> – Scapula		
Sample/spec. no.	160	160
BG	50.8	48.1

41. <i>Cervus</i> – Humerus	
Sample/spec. no.	73/39
Bd	(55.9)
BT	51.0

42. <i>Cervus</i> – Ulna	
Sample/spec. no.	73/85
LO	70.5
SDO	43.7
DPA	52.2
BPC	31.0

43. <i>Cervus</i> – Pelvis	
Sample/spec. no.	73/37
Sex	f
LA	(53.5)

44. <i>Cervus</i> – Talus	
Sample/spec. no.	162
GLm	56.1
Dm	32.6

45. <i>Cervus</i> – Phalanx I	
Sample/spec. no.	162
GLpe	63.7
Bp	25.6
SD	21.7
Bd	24.0

46. <i>Cervus</i> – Phalanx II	
Sample/spec. no.	162
GL	48.2
Bp	24.4
SD	(18.6)
Bd	(20.2)

47. <i>Castor</i> – Femur				
Sample/spec. no.	73/4	162	162	177
SD	23.6	20.4	19.7	22.0
Bd	37.7	–	–	–

48. <i>Castor</i> – Humerus	
Sample/spec. no.	73/2
SD	11.2

49. cf. <i>Anas</i> – Carpometacarpus	
Sample/spec. no.	165/1
GL	(54.4)
Bp	(12.1)

50. <i>Mustelidae</i> – Radius	
Sample/spec. no.	162/1
Bp	8.6