

Jgg77b-Scole
Measurements

Animal bones. should have been printed.

Bone

Cattle

Sheep, or Goat

horn core	basal circum- ference	106 110 135 140 195 198 1173	Mean (all sheep) basal circumference	57 105 135
	outer edge	120 - 127 190 200 c.180 163.4	outer edge	- - 260
humerus	DW	68 72		DW 28-33 (9 specimens; mean 30.2)
radius	L	273		
	PW	77 77		PW 26-34 (7; 29.9)
	MSW	36		
tibia	PW	90 - - - -		
	DW	- 62 66 69 69		DW 24-29 (14; 26.0)
astragalus	medial L	58 59 61 61 62 64 60.8	Mean	
	lateral L	64 64 67 - 66 70 66.2		lateral L 24
	DW	41 40 45 44 38 44 42.0		
calcaneum	L	126		
metacarpal	PW	52 53 58 52-68 (10 speci- mens; mean 55.5)		L 127 129 139 144 - - -
	DW	- - - 54-68 (11; 58.9)		PW - - - 24 25 24 22 23
	MSW	27 31 34		DW 25 24 26 27 - - -
metatarsal	L	227 233		MSW 14 14 15 17 15 14 14
	PW	51 - 42-56 (12; 47.1)		L 135 137 138 141
	DW	60 51 48-54 (7; 52.0)		PW 20 20 - - 20 - 19 18 20
	MSW	30 28		DW 22 25 26 23 - 26 - -
1st phalanx	L	55-68 (55; 61.2)		MSW 11 12 13 12 12 13 13 12 12
	DW	22-38 (46; 27.3)		L 30 33 35 35 40
				DW 9 11 10 11 12

Horse

metatarsal	L	246 293
	PW	47 55
	DW	46 53
	MSW	28 33
1st phalanx	L	77

Fowl

coracoid	L	62
radius	L	72
ulna	L	73
metacarpus	L	34

Red Deer

metatarsal	DW	38
1st phalanx	L	62
	DW	18

Note: Measurements in mm, to the nearest mm. L - length; P - proximal; D - distal; W - width; MS mid-shaft.

Additional

MEASUREMENTS NOT PRINTED.

CATTLE

mandible cheek tooth row 148 135 141 129 136 126 (73 only 2
length M₃, gum level 37 36.5 39 37 35.5 34 36 41 38.5 37
crops & gap P₄/P₃.

astragalus medial length 58
dist. w. 41 48

metacarpal K
PW 52 68 c53 57 57 52 54 56 54 52
DW
MOW 57 59 54 68 c55 57 57 61 59 56 65

[illegible]

1st phalanx L 57 57 58 59 58 56 58 55 56 56 59 60 60 60 61 61 61 61 62 62 62
DW 26 25 27 27 26 32 27 25 25 27 25 27 26

Cont	L	65	64	64	65	68	68	69	65	65	65	63	63	63	-	61	56	60	-	64	62
	DW	.	26	29	26	25	34	27	31	38	28	26	25	25	27	28	25	26	28	26	25

cont	L	59	60	65	66	67	63	66	58	61	61	62	55	58	58	59
	DW	27	27	28	31	31	33	25	22	27	25	-	26	26	25	32

2nd phalanx L 40 37 39 39 36 36 37 37 38 39 39 39 39 40 40 37 38 37 41 41 41
DW 23 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28

3rd phalanx L along plantar surface 66 75 62 60 63 67 63 46 57 64 65 62 69 75 53

scapula min. neck width 50 c. 59 54 49 39?

Scms02

MEASUREMENTS NOT PRINTED, cont.SHEEP OR GOAT

mandible cheek tooth row 65 79 70 57 65 64 72
 M3 length, c-gum level 20.0 21.0 24 20.5 21

scapula min. neck width c.20 19 19 20 21 18 18
 min length base of spine to glenoid cavity 20 21 c.20 20 c.21 20 c.30 (goat)

humerus distal width 33 28 30 c.32 30 c.28 30 30 31

radius max prox w. 33 26 29 34 30 27 30
 shaft width at top of groove for ulna 18 18 18 19 17

tibia PW c.27
 DW 26 27 28 25 25 26 26 24 25 26 24 29
 MSW 16 c.14 c.12 c.15 12 15 13 c.14 c.15 15 14

metacarpal PW
 DW
 MSW 14 14 14 13 13 14 16 14 c.14 c.14 c.13 ~~12 13 13 14 11 12 12 14~~
~~cont. 13 c.11 12 15 11 c.14 12~~

metatarsal PW 19
 MSW 12 13 12 14 11 13 12 14 13 c.11 12 15 11 c.14 12

HORSE

2nd phalanx L 43 40

1st phalanx L 77

PW 49

~~DW~~

DOG

Well I skull. measurements as in Harcourt 1974

This skull has mature dentition but unfused sutures, probably not mature.

III nasion to alveolar 60

IV zygomatic width (max) c.75

IX palatal length 64

X " width between PM⁴ & M¹ 47

XI maxillary cheek tooth row L41 R40

another specimen: 68

XV mandibular " " " L48 R48

tibia L c9½-10½ i.e. small.

MSW c 8

c.16 c.10.5

Scms03

ANATOMICAL ANALYSIS

$$\text{Sc mol 4}$$

ANATOMICAL ANALYSIS, cont.

	PIG		HORSE	DOG	RED DEER	FOWL
	Total					
	MNI	Grant	Frgs.	Frgs	Frgs	Frgs
antler						
maxilla	6	10	12	2		
other skull	2		14	2		
mandible	10	14	16	2		
teeth		42	4	1		
atlas & axis	2	2	2	2	1	
scapula	7	1	8		2	4
humerus	2	1	10			2
radius	3	4	6			3
ulna	4	8	9	1		4
pelvis	3	2	3			
femur	1		3			2
tibia	2		4	6		2
calcaneum	3	3	3			
astragalus	1	1	1			
metacarpal	4	9	14	3		1
metatarsal	2	2	2	2	1	6
phalanx 1					1	
2	1	1	1	2		
3	1	2	2	1		
coracoid						2
furcula						1

Note:

MNI minimum number of individuals present

Grant see Annie Grant's Portchester report. Counts epiphyses only, plus mandibles with teeth. Whole bone counts as 2 (except phalanges)

Frgs fragments.

SPECIES AND NUMBER OF FRAGMENTS IN EACH FEATURE.

PERIOD	FEATURE	DOMESTIC							WILD						
		CATTLE	SHEEP/ GOAT	PIG	HORSE	DOG	CAT	FOWL	ROE DEER	RED DEER	JACKAW	CROW or ROOK	CORVID sp.	DUCK	TOAD
I	Pit. 143, 144	40	94	5	1	-	-	8	-	2	-	-	-	-	-
	Pit. 248, 249, 272, 273. 540	43	86	21	1	-	-	5	-	-	-	4	1	-	-
	Pit. 131, 135, 136, 223.	10	12	1	1	1	-	-	-	-	-	-	-	-	-
II	Pit. 407, 408	12	4	1	-	-	-	-	-	-	-	-	-	-	-
	Pit. 244, 254, 260, 261, 262. 267	8	35	8	1	1	-	3	-	1	-	-	-	-	-
III	19	157	118	39	5	1	-	84	-	2	1	1	-	-	-
	43	140	78	22	2	2	-	81	-	2	-	-	-	2	-
	59	27	41	5	-	-	-	41	-	-	-	-	-	-	-
IV	65	148	79	19	1	2	-	-	2	2	-	-	-	-	-
	Well I	212	96	23	6	7	-	5	-	4	-	-	-	1	3
	Well II	51	26	3	-	skele- ton	2	-	1	-	-	-	-	-	-

Scms 06

Scapula

(mandible - over page)

16¹⁹ marked

? nearly complete unmarked

~~In all but~~In 16⁵ the head is missing, probably cut right through as in modern practice.(12)
In all but one of the rest, the coracoid was cut off.

All but 2 of the 12 cut on both sides of head

19 of them have cuts on the glenoid cavity surface itself.

Most of the marks are confined to the head; and the spines don't appear to have been cut off deliberately, although 2 are nicked in places. One has a ^{round} hole 2 cm x 3½ cm ~~cut~~ in the lower centre of the bladepelvis

cuts on shaft of 5 pubic bones & also on articular surface of 2 of these.

cuts on shaft of 2 ilium bones.

humerus

6 distal ends cut:- - pretty well hacked about.

5 cut on epicondyles.

4 cut on articular surface.

3 cut on anterior side of shaft above condyle

radius

5 proximal ends cut:-

4 ~~1~~ cut a short way down on side of shaft

3 cut on articular surface but not strongly. One damaged by a pointed tool, & the prox. ulna cut off.

3 distal ends:-

cut through distal end - 2 split, 1 has distal part of ulna & part of joint knocked off

femurOnly two ^{shaft} femur ^{with marks} fragments were noticed; also one distal end cut on

articulatory surface.

tibia

One fairly complete bone: tibial crest cut off, prox joint missing;
Small cut on lateral side near tibial crest; distal end complete and just
a small cut on lateral side very near the articulatory surface.

i.e. astragalus not separated when fresh.

2 shafts cut suggesting bone broken for marrow / ~~stew~~ stew.

1 shaft small scrapes from removal of $\frac{1}{2}$ meat.

#3 distal ends chopped ~~heavily~~ heavily - i.e. separated from astragalus.

Tarsal.

1 central tarsal cut on lateral - dorsal corner underneath
i.e. ~~leg~~ limb separated at that point (just above ~~metatarsal~~ metatarsal).

Astragalus.

2 cut in half. i.e. limb separated ~~above~~ at bottom of tibia.

2 less severely damaged.

Calcaneum

3 cut :-

2 on shaft

1 cut through, at the articulation.

metacarpal.

metatarsal

small cuts parallel with proximal surface, ^{on bone} one on lateral side,
on another bone on medial side.

1st phalanx cut on proximal surface i.e. to separate from metacarpal or
to sever tendons.

mandible

#6 condyles and/or coronoid processes :-

4 cut heavily, in one case right through, below condyle; in 2 of these
the cor. pro. is undamaged, in the other two it may have been
cut off.

2 have cuts on cor. pro., level with condyle.

1 has ~~on~~ 9 small cuts below condyle i.e.? removal of meat.

SCMS08

BUTCHERY.CATTLE. cont.~~(SHEEP over)~~

GENERAL NOTES SHEET 2.

skull - over page

mandible, cont.

i.e. ~~22~~ mandible was separated from skull. - see skull, too.
 1 front part cut on chaserna.

skull

frontal bone cut through 3cm behind orbit.

occipital bone cut on articulatory surface i.e. ⁺ head removed above atlas.Atlas Vertebracut on cranial end. i.e. ⁺ →Axio Vertebrae

3 cut in various places suggesting removal of meat rather than dismembering; however, one is chopped on cranial joint (no sell as elsewhere) ^{which} ~~and~~ may show separation of skull below atlas.

Other Vertebrae

- not identified definitely but probably cattle.

Various marks.

○ Ribs. presume mainly cattle. 158 not cut, 104 cut i.e. $\frac{2}{5}$ cut. These mainly chopped to break bone. Many also have finer cuts. Ribs cut from both sides.

GENERAL.

The marks appear to have been made by knives and choppers.

No definite evidence of saw marks were noticed, except on antler

and also a sheep calcaneum (143)

An ⁽²⁴⁸⁾wind is a little eroded on projecting parts. Otherwise, the bones don't seem to have been exposed to treading & weathering.

A few cattle bones bear probable chew marks.

93 burnt pieces; mainly small fragments; some may just be stained not burnt.

over

Scms09

Skull.

One fairly complete. Middle part of frontal bones and whole top and back of cranium missing (no horn cores). Consistent with the animal having been poll axed / and the ~~skull~~ brain removed - but proving neither.

Cuts on basal part of occipital bones & on occiput itself showing that the head was removed above the atlas vertebra. There ~~is a cut~~ The bone is cut ^{away} ~~off~~ from the right occiput to the right zygomatic arch - ~~for~~ which would allow the mandible to be separated.

Another, less complete. No marks, but whole back & top ^{of skull} missing.

Horncores.

~~5~~ of 5 horn cores only one has cuts round the base, none of these 5 nor another (broken off above ~~skull~~ frontal bone) were apparently marked on the horn core itself.

Scms10

SHEEP / GOAT

More signs of bones being chewed by dogs than + butchery marks.

Scapula.

4 blades all ~~cut~~ ^{chopped} on medial side, not on lateral.

Pelvis

3 ilium shafts, chopped in varying spots.

Humerus

Various marks on 6 humeri but no general comment. cuts on upper end of shaft, in middle of shaft & on distal end.

Rachis

4 shafts all cut quite heavily on lateral side near the linea groove; one of these also cut on medial side.

Femur

1 cut on prox end ^{posterior} below distal end of shaft, ~~at~~ posteriorly.

Calcaneum

1 cut

Metatarsal.

2 complete bones have just a few fine cuts on proximal dorsal side just below the articular surface.

At least sixteen bones show marks which are probably the result of being gnawed by dogs.

Horn cores

Don't dogs consume the whole of a sheep bone?
The goat horn core was cut off the rest of skull.

A sheep horn core was also probably cut right off - surviving frontal of stub is cut half way through, rest broken.

Small

The ~~only mark noticed~~ was on a scapula, on the medial side of the blade. and probable cuts into the glenoid cavity.

DEER.

Antler fragment $4\frac{1}{2}$ cm long, which could be sawn through, probably is. Plus 2 other pieces sawn. Other pieces have cuts on. - all Red deer.

No marks on 2 roe deer antlers.

Pig, cont.

(Wear I) atlas cut on both sides.

" R mand. cut thru buccal & lingual sides.

" R ulna cut round joint

" R hum. cut on back in middle of sh.

DOG

No marks.

FOWL

No marks.