

Skeleton

feature 622

fill no. 539

mud little
1 = 488 - see other horse bones.

long bones.

L R = fr.

hu sd L

F

? deg gnawed - not sure, probably sharp stained.

BT 71

nat ulna L

F

ra. GL lat. 321 Bp 79 SD 35.0 Bd 74
decoration missing.Height est. $GL \times 4.34 = 1393$ 1 1/2 hands
4 54.8"

scap

R

F

SLC 90

right, not same limb as above.

fe.

R

F

GLC 359

Bd 90

tibia

R

F

GL lat 320 Bp 91 SD 37.3 Bd 74 Ht est. 1395 = 54.9" - 12 1/2 hands.

calc

R

F

like prox hum, ? gn.

astr.

R

F

centrotars + third tarsal -

fully fused together.

(The rest of leg normal.) The articulatory surfaces are ~~to be~~ fused, although there is no proliferation or extra bone as is the case in sparrow.

mc - see other p.

fourth tarsal. R

F

metatarsal. R

F

all fit. (D & B 1980) Not sure it needs a photo.
GL lat 264 50.2 27.3 47.5 Ht. est. 1407 = 55.4" - 14 hands.

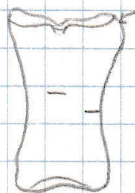
phal 1st

F

GL 82

2nd

F



ventral

3 knife marks, quite light, but probably showing that the hide of the leg was used.

(Walter & Hailey c. 41)

abaxial mt 4

1

not fused to mt.

other abaxial mt missing, also phal 3.

carpal

1

seamoids

2

presumed to be horse.

ribs. bagged in 5 groups -

front left - 4 with articulation, + 27 pieces. (d a pig tooth & ? slt/pt fe).

back left - 7 " " + 11 " : 8 modern breaks, 17 old ones.

front right - 5 " " + 8 how much are human ribs broken anciently?

back right - 9 " " , six of them virtually complete, unbroken.

+ 7 fr. (d a ? slt/pt rib)

with vert. - 7 " " , just the prox. artic. broken off.

32 should be 36

AGS 21

vertebrae.

cerv. 7th

F

vert. threaded on string, v. useful.

thor. 17 all f.

Simon & Gr. says 18 usual, 19 sometimes, rarely 17. page 32.

" + 1 spine, not any of others, which makes it up to a full 18.

lumbar - first 3 all fused.

where's the rest. Hal is sending notes & photos.

A95

horse, 539, cont.

= fr.

11, probably all ribs or vert.

vert., lumb. 4 ~~fr.~~ transverse processes.

feature. bone ^{ele-}_{mt.} LR zone fr.

622: 488	ph 2. psd	1
622: 487	abaxial	2
"	mp	1
"	ph 2nd	1
"	ph 3rd	1

fat fairly well.

639 : 462 f e d R t
440: 392 tooth t

253	252	hu s	$\bar{i}$	
484	431	med front la R	$\bar{i}$	Px, C bkn, I3 & X X & & C bkn vestigial w
"	t	4		all incisors, don't know which, 3 worn worn (with infundibulum), one very worn.

436 381 skull 1 — nine pieces, look like one skull. occ/par fused.
mx R 1 9-10 8-9 8-9 7-8 yrs 7-8 yrs Reas. of P2 unclear which?
2 teeth 2 3 upper M3 2 1 P2. P3 or 4
? same individual.
" 1 I₃ worn (oval infundibulum).
- ? one large 7-9 yrs old.

all on
summary ✓

ch 622 missed: skidator
r 622, 337 ✓

Med. - layer in mediocral cress pit.

adult dentition.

W = ~~wear~~ some dentine exposed.

right M

a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a				
2	1	P	4	3	X	I	C	3	2	1		2	3	C	P	1	2	3	4	T	1	2
X	2	1	4	3	2	1	c	3	2	X	y	2	3	c	i	2	3	4	i	2	3	
missing/ absent	a	a	a	a	a	a	a	a	a			a	a	a	a	a	a	a	a	a	a	a

Dentine not exposed on any of the teeth

left > 7 mo + 3 mo
(faint handwritten notes)

meas. (Harcourt 1975).

C1 Cephalic index (I) $\frac{IV.100}{I}$ 58.0

SI Snout index $\frac{\pi \pi \cdot 100}{I}$ 46.9

SW1 " width " XII. 100 / III 42.8

R 18.6

Carnassials. M_1 length $L 18.6$ width 7.3
 7.4

suture fusion: par / fro visible; fro / max. vis.; occ / par. vis.

damage. There is a hole 18×10 mm just forward & to the left of the nuchal crest, definitely a blow from outside, ^{two} pieces of skull being pushed in. Not modern, and possibly indicating the dog was killed. A crack extends to the occiput. (see femur)

A second piece of skull, an ear ossicle & several fragments were recovered from sealing the earth in the braincase.

v.d.D. page 75.

from long bones - > 18 months.

bones	R	L
oc	L	T
hu	L	T
ra	R	T
ul	L	T

GLP	21.4	16.1
GLP	21.5	SLC 16.4
GL	119	
GL	118.	ST
	122	12.6
	121	Bp 12.7
	140	
	141	

SD	8.5	Bd 23.0	Height est. $(GL \times 4.34) - 26.54 =$	378 mm.
2.6	8.3	16.3		407
2.7	8.0	16.1	" " $(GL \times 3.18) + 19.51 =$	404
			" " $(GL \times 2.78) + 6.21 =$	395

Height est. $(GL \times 4.43) - 26.54 = 382$
 " " $(GL \times 3.18) + 19.51 = 378$
 " " $(GL \times 2.78) + 6.21 = 395$

pe	R	F
fe	R	F

The femur is broken just below the proximal end and although there is extra ^{of bone} bony growth, the two ends were not re-joined. [The prox. end is much altered and there is an area 8 x 8 mm on the ^{upper part of the} femoral head which is polished. The opposing part of the pelvis, ^{which is} is similarly polished, and much thickened. The ~~for~~ GL of the femur is only about 106 (left one is 125)].

The prox bit has the trochanter major ^{15% shorter} normal & fused to part of the shaft; there's a knob ^{has been} b/t in the trochanteric fossa and :- no head, the weight ^{resting} on a bony outgrowth - this bone or the head has broken & been displaced ^{downwards} by c. 2 cm shows pish, so does the

I think the bony knob is in fact the femoral head, broken & displaced.

femur R- 21.8 12.4
 L t GL 12.5 Bp 25.3 SD 8.4 Bd 22.0 shaft w. at p end of d epiph. 13.2
 Ht est. (GL x 3.14) - 12.96 = 380
 tibia R t 130.6 Bp 23.7 SD 6.8 Bd 15.8 (by bending fib. out of way) fib. f., lower shaft.
 131.5 97.2% 97.9% 81.9% 97.5% 7.5 86.2%
 L t 132 24.2 8.3 16.2 mid shaft w. 8.7 Ht est. 395
 - Left one 1 mm shorter

fib. LAR tt R one fused,
 L one unfused to fib.
 fib. cont. R shaft near p. end 7.5 7.1 7.3 7.8 8.0 (c.) (c.) incl. fib. fib. 7.7
 L at 1 cm intervals; 9.8 8.8 8.6 8.7 8.7 8.5 8.4 8.4 8.7 9.5
 n. keeping p end in same plane 85.2% 80.6 84.8 89.6 94.1 95. 91.6 81.4

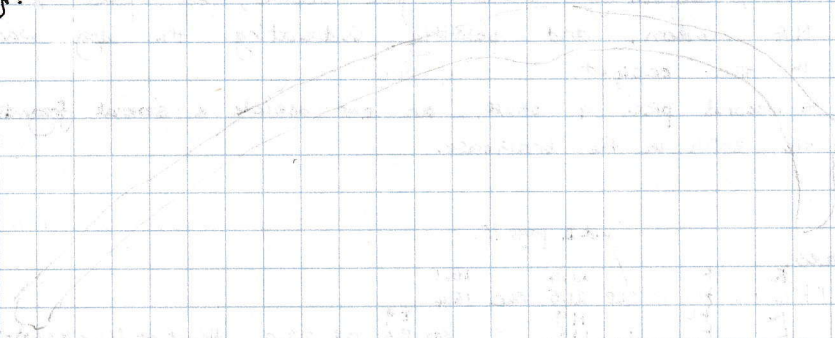
R tibia is slightly shorter and more slender than the left. The difference is least apparent in the total length, the central part of the shaft and the ends of the bones and most pronounced at the extremities of the shaft especially at the proximal end; where the R shaft is only 80% of the width of the left tibia. It is likely therefore that the injury occurred before growth of the bone was complete, the later stages of bone development being more affected than the earlier.

fe R in 1 cm intervals, 11.3 9.8 8.8 8.1 mid shaft 8.4
 L 2 cm from d. end. 12.5 10.7 9.5 8.9 8.4 8.4
 92.4% 91.6 92.6 91.0 100

The distal end of the femur is also more slender.

calk R t GL 31.3
 cpl/tol 3
 ph 1st 911 all fused.

ribs 24⁵ one of them has a swelling, more severe on medial side than lateral
 sternal vert, cost. cost. 8 fr.



verte. atlas t
 axis t
 cerv. 3x t
 thor 9x t before tibia but
 lumbar 5x t last lumbar (d the sacrum) has extra bone on the left lateral process,
 sacrum t the sacrum also has similar exostosis. The left pelvis' auricular surface of the L. pel.
 caudal t is increased by a half; the pelvis has been resting as normal on the sacrum, and
 also on a bony extension of the left lat. proc. of the last lumbar v.

broken fe, not properly healed, resulting in shortening of left leg. Pelvis on the acetabulum shows that the leg was used to some extent. The right leg is more slender than the left and the strain on the left leg has caused alteration in the left part of the ilium, sacrum & last lumbar vertebra.

A hole in the skull suggests that the dog was put down.

Skeleton

Med. 397: 396

layer in medial rubber pt.

Skull. front of skull missing.

teeth.

(pencil: teeth found in bag containing other a. b. from 396 - page 7)

Right ^{wr wr wr wr wr} 2 1 P4 3 2 ^{worn worn} C I3 ^{needs checking.} ^{wr wr} 4 2 Left. fully adult.

M3 2 1 P4 3 2 1 C ^{wr wr wr wr wr wr wr} ^{broken} P1 2 3 4 M1 2 3

a ^{wr wr wr wr wr wr wr} ^{broken} wr wr wr wr wr

enamel irregular

meas. (Harcourt 1975)

(repaired - some frags. mixed with general an. bone).

II 101

I₂ 182 ~~lance~~ to 2

IV 100

III c. 90 (accurate to 2, 3 mm)

XV R75, L 71.

IX 83

X c 55

XII 38

XI R 60

Cephalic Index IV, 100/I 55.

Snout Width Index XII, 100/III. 42 ✓

Snout Index III, 100/I 49 ✓

suture fusion. fro/par fully fused. f, visible though; 2 fro inf.; fro/max partly; occ/par f, only just fused.

Long bones.

sc	R	t	GLP	SLC 22.3				
"	L	t	"	25.5	"	22.5	HS 124	
hu	R	t	GL 144	Bp	SD 11.0	Bd 28.1	msd 11.0	Ht. est. 467
"	L	t	GL 145	Bp	SD 11	Bd 28.1	10.9	" " 471
ra ps	R	t						
ul psd	L	t						
" p, d.	R	t						

pel. R t ^{pub. symph.} pubis beginning to fuse. The bone looks old - muscle attachments pronounced.

" L t

on the iliac shaft of both halves there is an area of periosteal exostosis forming a lattice.

fe	R	t	GL 153	Bp 31.9	SD 11.2	Bd 26.0	msd = SD	Ht. est. 467
"	L	t	155	32.6	11.5	26.5	=	474

Ht est. $\frac{1879}{4} = 469.7$
 $\frac{477}{(18\frac{1}{2}'')}$
 $\frac{2356}{5} = 471.2$
 $(18.55'')$

vert:-

axis t

cerv 6x t

thor 10x t

lumb. 9x t

ribs 24 with the articulation.

sacrum t

no β or marks or path other than pelvis.

and see page 3, ^{root of} skull.

396 one canine tooth, enamel wear only, not this dog.

(Skeleton) better count skull no 1, not as unrelated bones

622: 489

large skull & mandibles.

	a	wr	wr	a	a		wr	wr					wr	wr	a	wr	wr	a	
right	M2	1	P4	3	2	X	C	I3	X	X	X	X	C	P4	2	3	4	M1	2
	2	1	P4	3	2	1	C	I3	2	X	X	2	C	X	2	X	4	M1	2
	a	wr	wr	a	a	a	wr	wr	wr		wr		a		a		wr	wr	wr

It has a pronounced nuchal crest, & the bone is rough, ? fairly old, though sutures visible:

Suture fusion. fro / par fused; par / occ v. thoroughly f.; fro / fro f, line vis.

Meas. Harcourt 1975.

I	208	Cephalic Index	IX. 100 / I	53.4
II	103	Snout Index	III. 100 / I	50
III	104	Snout Width I	XII. 100 / III	43.3
IV	111			
V	99			
X	63			
XI	70, 70.			
XII	45			
XV	78, 78.			

no β

atlas vert. I matches skull. where's the not

femur psd R FR GL 192 Bp SD 13.7 Bd 36 Ht. est. $(GL \times 3.14) \div 3 = 12.96 = 590 \text{ mm.}$
bone surface v. rough, esp. distal end.

fib
metapodials I I

622: 488 MN 2

ra psd L I GL 182 20.3 14.1 26.4 Ht. est. $(GL \times 2.18) + 19.51 = 598$

pe R I not one ind.

pe L I

tib sd L FR very long. GL 227 extant + c. 11 - c. 238 > any Harc AS.

hi psd L FR SD 16 Bd 27.7 Ht. est. $(GL \times 2.92) + 9.41 = 704$
195 37.8 12.8 23.5 Ht. est. = 578

cont p 7

? Do a table like Harcourt p 170 for Oxf area dogs.

	pt layer	337 314	may 396	397 489	622 488	622 —	640 529
humerus GL	119	144					
humerus SD	8.2	11.0					
ra	122	144			598 182		
st	8.2	11.3			14.1		
ul	141						601 214
	-						
fe	125	154	192				
	8.4	11.3	13.7				
ti	131				704 6238*	575 195	552 196
	6.8				16	12.8	13.5

average
394

one 471

* 227 extant + c. 11 mm. > any AS (Harcourt)

○ height estimates.

$$3928 \div 7 = 561,14$$

29