

fe	d		o ep		t ⁿ	
p			o ep			
L	s					
d						
P'						
ti	R	s	i			
d						

L4

Bie 08a
08bgn
all R, none L!
wkd?2.

large goat

106-3 from BG 08.

Notes.

↑ fused o not fused oep not f. epiphysis. ↑ fusing/fusion line visible (if measured μ , thought to be mature size) clearly

- | | | |
|-------|------------|---|
| 8459C | 1 md | neearly complete, no B. Put in comparative because old. |
| 85-66 | + hu | prefx. shaft & 2 epiph " " |
| 8510A | 1 hc | bare there, I think sheep, but can't be sure. |
| " " | 2 ti dog d | rough hole dorsal distal end 6×3.8 mm with pressure mark on posterior side 2.5 mm diameter, shaft sawn obliquely across $5\frac{1}{2}$ cm from distal end. Bone is a large one Bd 26.0 round
sawn |
| 843 | 1 ok | par. broken at suture / frontal, rather parallel. → Possibly goat. |
| 860 | 1 sk | hc base fragmt. sh? gt? - Sheep, from angle of attachment. |
| 848 | 1 md | candyke, no teeth, lamb. |
| " | 2 hu | 14 ch or k marks medial distal. |
| x862 | 3 sk | ch roughly thru midline frontal, parietal & occipital bones. |
| 855 | 1 " sk | 3 pieces, at least 3 ind. 2 with base hc, I think sheep, from angle. |
| 858 | 1 sk | the pieces recorded as hc are only the base. The only actual hc is the goat one.
✓ Check ident of sheep / goat skulls. |
| 819 | 1 hc | At least a bit large enough to be definite sheep. Rest are sheep, from the angle, the some are rather small pieces. |
| 860 ✓ | 1 skull | both frontals, polled. |

Bie09

SHEEP / GOAT

BIE

P
ti L S
d btpn

patella 1

calc R
artic. L

astr R

L

P
R S

mc d

* P
L S
d

R P - n
S i

mt d

* P
L S
d -
I F

phal 2
3

Vert atlas

p prox axis
d distal other cervical
thor humb sacr

14

23

24

36
15.36(10)
74

112 + 38 56.69
140

Fragments goat

hc SHEEP

sk

mx

md

t

sc

hu

ra

ul

pc

fe

ti

cpl

tsl

mc

mt

b?

I.

gn

g g
lamb
12cm long

rod?
sheep

gn
I

A 160
Tibias

36
15.36(10)

74

gn - ch min lamb lamb
ch ch ch

ch
0 1 n

j n

gn
I

gn
I

74

(ptdo)

0 0 0

112 + 38 56.69
140

ii

iiiiiiii

ii

ii

ii

gn

b b

gn b

gn - ch min lamb lamb
ch ch ch

n
I

(862) - n

o
n, p

o
ch p

l

n
I

mm.

o

n
I

n
I

n
I

n
I

n
I

n
I

n
I

n
I

n
I

n
I

n
I

n
I

n
I

n
I

n
I

n
I

32

28

9

7

0

1

3

13

0

7

3

15

17

6

0

9

17

21

mc	1	1	1	1	1	1	1
mt	1	1	1	1	1	1	1
mp	1	1	1	1	1	1	1
phal	1	1	1	1	1	1	1
atlas	1	1	1	1	1	1	1
axis	1	1	1	1	1	1	1
	4	8	5	1	1	1	45

Bie 10a
10b

Notes

- 04 59 D : only one bone this bag.
- " 78 B : pe 2 pieces of the wing of the ilium, chopped through shaft.
- " 78 I : mt. chopped or cut prox. dorsal, transversely, twice. ? limb finally severed from tarsals.
- 04 60 C : 2nd mca complete, parallel narrow marks ? by rodent
- 05 36 : ti fr. broken ? by dog teeth or other sharp object.
- 05 10A : pe shaft ilium, knife marks across it
- " " " b. white, also pig scrap. a sheep ti shaft fragment
- 838 : ti s shaft - gnawed by mouse / squirrel?
- 06 22 : ti imm. put ⁱⁿ comp. collection.

LB / HO

LA

Bie 11

BIE

		SHEEP (GOAT)		
		Presumed I.A.		Presumed I.A.
		05 14 39 14 15 15 04 12 35 68, 70, 84 31, 46, 56		05 15 15=371, 17 48 383 374 390, 396.
		14, 35 68, 70, 84 79.		
GT R		28, 29, 23		
hc L		tup.		
SH R		1		
L		1		
R pre		0		
ok both		1		
L par	o	1		
L par	par	occ		
L par	pre	occ		
max R		15+		
L 13		828.		
md R	1 2 1 2 1 3	15+ 1, 2 1, 2 1, 2 1, 2	Romany Med. 1/3 stage	1 - 14 15E 383 14 15 25 13 15 25 15 56 13 14 15 37
L 15 1, 2 1, 2		1, 2 1, 2	1/3, 3	1 1 1 31 15 48 383 15 14
Teeth Up P				
M ^{1,2}		t t t t t t t t t	t	t t t
R (850)	o	-		
M ³ L	(stage 5)	t (stage 5)	t (stage 5)	
lwr I				
P				
M _{1,2} g g d		e		
M ₃ R			c	c
L (850)	-			
SC R	p	1		
L	-		F	
R S	o	i i i i	oop	
hu d	p	o	F	
L S	-	k 06 23	oop	
d	s	1 1 2 k	F	396 k-distal mu-medial
R S	p	1 1 1 1 1 1	g	
ra d		1 1 1 1 1 1	1	
L S	d	1 1 1 1 1 1	383	
d		1 1 1 1 1 1	1 2	
ul p R		1 1 1 1 1 1	1 2 1 2	
L		1 1 1 1 1 1	1 2 1 2	
il		1 1 1 1 1 1	1 2 1 2	
R isch		1 1	k	
pe pub		1 1		
il				
L isch				
pub				
P 06 25				
R S	1	1		
fe d				
foram				
A d post				
P 828				

R S I

d

foramen
A dist post
B post/mid shaft
C prox/ant L

828/
1 B

d

P ti R s i i i i i

d w3

0623
1 w3
1 2

ch
t
Bie 12a
12b

distal
anterior

t
tep

828 md. complete, which is unusual in this bone sample - there are few lots of carvage or md with carvage. It is chopped through diastema behind incisors.

0621C 1 - skull, left side, not complete enough to glue & photograph. hc broken. Old break between hcs - possibly split for brain. Teeth virtually flat (stage 6) tho sutures not fully closed. Put aside as of interest. ? Publish details.

" " 2 - hu shaft, h marks; also very light brown marks? in a cross cross pattern. separated.

06 23 1 - ti shaft, some patina on bone surface, and bone is ^{thinned down} cut down on distal anterior surface.

F04 68 1 - hc
3 md
2 hu
unevenly grown. ? nutritional x erosion. ^{I think it's just} photo, if dating ok.
large. Bob says not impossible. large ram or goat.
min. put in comparative collection.

14 15 1 sk seems to be ch down midline - ch on parietal bone.

14 15 2 - 2 ra both have holes knocked thru to cavity, one prox ant, other prox rotar.
6x5mm roughly.

F383 sk possibly ch thru midline.

Bie 13

ti	L	P	s i i i i	lamb.		1		371				
		d t				1						
patella		R				1						
calc. artic.		L				1						
astr	R	R				1						
	L					1						
P	0625 gn	R	s	i		1						
mc	d	d	-	-		1	gr					
P	-	L	s	-		1	f					
d	-	d	-	-		1	-					
t P	gn	R	s	lamb	tooth	1	gn					
mt	d	d	-	-		1	-					
L	p	L	s i	gn		1	-					
d	-	d	-	-		1	-					
1	-	o	-	-		1	-					
phal	2	-	-	-		1	-					
3	kn	-	1	-		1	-					
Vert atlas	t	-	-	-		1	-					
axis	-	-	-	-		1	-					
other	-	-	-	-		1	-					
cerv.	o	-	-	-		1	-					
thor	(834)	-	-	-		1	-					
lumb	o	-	-	-		1	-					
sacr	-	-	-	-		1	-					
hyoid	164	-	-	-		1	-					
	43	-	-	-		1	-					
	59	-	-	-		1	-					
	29	-	-	-		21	-					
	-	-	-	-		29	-					
	-	-	-	-		10	✓					

Fragments, GT

hc - SH

sk

mx

md c-candylic

t

sc 1 1 1 1

hu

ra 1 1

ul

pe 1 (834)

fe 1

ti 1 1

cpt

tsl

mc 1 1 gn 0625

mt 1 1

mc | | |
mt | | |

ga 0625

mp

p phal

atlas

(834) axis |

17

20

Bie 14a
14b

8

7

3

3

OB 15 i attas. 10 K or light chopper marks ventral surface, in mure.

OB 21A + attas

OB 21B i mt tool.

BIE 15

84/91

BIE 1A

SHEEP/GOAT MANDIBLES

calculus
Green - periodontal disease see p. 4.

deciduous t in brackets.

Stage 6. "teeth wearing flat", fairly subjective.

Payne's later stage as good.

Estimated

Feature	LR	I	P				M			Ne	Stage-	Perio-	Comment
			1	2	3	4	1	2	3				
04 59B	R		(1) (w) (k)	g	c	v		22	3	(-)	* tooth wear both these 2 unusual on molars - 2nd cusp more in wear than, 1st, relative to normal.		
" "	L		(1) (l) (m)	g	d	/		23E	3	(-)	I suppose they might be a pair.		
" 59C	L		/ w / m	k	g		44	6	none			put in comparative	
" 59E	R		(1) (w) (h)	d	1½E		11	2					
04 78A	R		/ a a g	e	bcd		30	20E	4E	none			
" 78B	L		absent w h	k	g	g	39	6	none	P ₂ absent			
" 78B	R		/ w j	? ante k	h		45E	6	-yes.	teeth wearing flat			
" 78B	R									No P ₂ , slight pitting; I ₃ 2 cusped.			
" 78B	R									worn flat.			
" 78B	R		(g) g				3E						
" 78D	L		/ / / / / /	g	e		35E	5		perhaps slight - roughening bone surface I ₁ , think normal.			
" 78F	R		/ w	g	e	e	30	4					
" 78L	L		/ / / / (1) E	g	f	b	30	4					

Uni 59 & 78 ditch. 10 mand.

max.	04 60A	R		(w)	w	/				3/4			
04 60B	R		/ / / / /	w	h	g	c	c	"	3	none		
" "	R									D			
" " C	L		(h)	g	f	b		30	4	none	I ₃ loose but looks like this jaws of wear fit.		
" " C	L		(j)	g	d	V		23	3	none			
" " C	R		(g)	d	E		12	2	none				
" " D	L		(w) (w) (h)	g	c	V		22(E)	3	none			
04 71	L		"2 "2	w	s					D			
05 31	R		(w) (w)	g	c	V		10	2	none	estimated pretty certain.		
" "	R		(w) (w)	h	c	V		10	2	none			

Recorded of Coy, not grant

05	31	R	(w) (w)	g c v - "	10 2	none
"	"	R	(w) (w)	h c v - "	10 2	none
"	"	L	/ w e g f d "	32 4		
"	"	L	w	Bie 16a 16b	-	

My Payne drawings are drawings of the drawing tooth rather than the nearest Payne stage.

BIE

SH/GT MAND.

LR I 2 3 4 P 2 3 4 T 1 2 3

recorded

Period.

05 06 R (v) (w) (f)

Coy

2E

lost cap

none

in use

4

Don't record maxillae in detail.

05 10A R

(1) g d c .22 3

none

II II D

" " R

(1) (w) ← k ← g f E .26 3

none

← II II D

" " R / / / / / / /
L-one > R.

16 12 12 l 9 g .40 6

Photo 19 bottom. Slight thickening of the jaw on
affecting both sides of jaw by P_4 & M_1 .

II II II G

teeth, wearing flat. M_1 is imparted onto M_2
nearly $\frac{1}{2}$ of the upper cusp is worn away.

1 w j m g g .41 6

yes, slight buccal sides by P_4 and lingual side
by P_4 and T_1 . great deal of calculus.

II II II G

Teeth wearing flat. Great deal of calculus.
top

(w) (g) /

rec Coy

" " L

(w) (w) (g) 10 3 E

none

III III C

" " C L

(1) (w) (g) /

2E

II II

06 10 L

1 1 1 myn j 17 14 12 9 .43 6

Photo 16 yes alteration of bone on buccal side P_4 - T_2
teeth wearing flat. A small amount of
calculus and swelling

II II H

06 10 L

(w) (w) (f) b 7 E

no

II II

L

(1) (1) (g) e E

no

II II

L

12 est 11 10 f e .33 5

no

II II F

837=0610 R

g est 10 7 e b .29 34

II II E

Overcrowding. Photo 17

838=" " L

r w h K g g .39 6

slight
very little alteration of bone between P_4 & T_1 and M_1 , T_2 .
considerable wear of P_4 against P_3 and of M_1 ag. M_1

II II II G

841 " " R / / / / / w h

17 14 12 m j g .43 6

yes alteration of bone lingual side of P_4 / T_1 ,
excessive growth swelling of bone on the buccal side extending P_4 / M_1 inclusion
enlargement nearly affecting whole depth of mandible; anterior root
of T_1 resorbed. The bone on the basal side

from 842

Photo 18
bottom

842 " " R / V , , w w f

e E .13 2

part
not a pair

II II

C

E

2

" L

r w h 17 m g g .41 6 just.

.

II II

G

860 " " L

1 1 1 f 10 1 e c .22 3

.

II II

D

848 " " L

(1) 12 10 g e c .23 3

.

II II

D

" " R

(1) 12 8 1 f c c .20 3

.

II II

D

855 " " L

(w) (w) (g) 10 3 e E .13 2

.

II II

C

819 " " R

(w) (w) (f) 7 1 b c .8 2

.

II II

C

" " R

(1) (w) (h) 10 1 g e c .23 3

.

819 .. "	R	(w) (w)	(g)	b	c	8	2
" .. "	R	/	(w) (h)	g	e	c	23 3
819 ... "	R	/	/	^{12 ast} g	¹² e	^{8 10} 34	5 just
							E-F

Could arrange using Payre, or Grant amalgamating units c. 10 groups.

B16 17a
17b

		L R	I, 2 3 4	P ₂ 3 4	M ₁ 2 3	Stage	Perio disease.
06 15		ER		(w) (w) (h)	d V	" 11 2	-
				■■■ ■■	e		
" "	R			(w) (w) (h)	■■■ V	" 12 2	-
					e	C	
" "	R			(s) (w) (h)	g 8 1	C 21 3	-
				■■■ ■■	D		
" "	L			w w /	7 ^{est.} 12 g f	" 35 ^{corred} 5 anchor	no, but broken at that point.
					■■■ F		x
+ P ₃ no wr. - min! 5 + ? lamb tub.							
= 868	L		1 1 1 1	(w) (w) (f) d	q 4 ^{est.}	" 13E 2	
				■■■	C		
= 828	R		/ w g g g	f	35 5		poorly preserved - less complete except where chopped through diastema anterior to premolars.
			■■■ ■■ ■■■	F-ready			
= 830	L		(r) (r) (g)	d	9 3	" 12 2	-
			■■■ ■■	C			
06 21A	L			(w) (w) (g)	d	" 12E 2	-
				q	C		
" "	R			(w) (w) (g)	d	" 12E 2	-
				3 ^{est.}	C		
06 21C	L			(w) (l) (h)	d	q 2	" 11 2
06 21C				■■■ ■■	C		
" "	R			(s)	h d V	7 ^{est.} 11 2	
					"	C	
" "	R			h d V		" 11 2	
				"	C		
" "	R			w w f	g 1	" 4E	
06 21/29. min! 4				12 9 8			
06 22				(r) (r) (r) g	d e	Est 29E 4E	
				■■■	EE		
04 68	R			h g	8 2	22 3	Roman or possibly Medieval. discount no v large P ₂ 37 root - crown
				■■■	E	D	
" "	L			13 ^{est.} 12 12	9 9	37 5	? goat/ram. Not deer. - see note back & sharp sheet.
" "				■■■	C		
" "				h d	g 3	E 2	
" "				■■■ ■■	C		
" "	84			f g g	f	35 5	no
				■■■ ■■ ■■■	F		
I.A. South 09 46				(r) (r) (r) (r) (w) (w) (f)	q 4	" 4 E	-
					B		
14 15				(r) (r) (r) g	b	E 20 3	-
				■■■	D		
15 48	L			f g m	g 9	" 4 E	5 nearly gone P ₄ very high. ? upper tooth missing. Payne's g stage a good definition.
				■■■ ■■ ■■■	G		
390	L		quite wear	(r) (r) w w e	g f c	31 4	Very few md, P ₄ at a, b, c Photo 21

390

L 1 wear (1) (1) w w e g " f c 8 31 4
 light wear (1) (1) w w e g " f c 8 31 4
 Photo 21

Very few rd, P₄ at a, ~~etc.~~

" " (1) (1) Soot to erupt (3/4)
 383 (=946) L (1) (1) g g c 32 4 none
 Bie 18a E broken - -
 18b

none (3 yrs (uncis) using Jewell - Huta Soay sheep.
 the Publish this gap. is very slight.
 mesot part of, buccal side between P₄ & M.
 Also, the jaw has 2 foramina on the diastema, buccal
 side, instead of the normal one.
 over.

115.5b L : - , w c g f ⁸ e 31 4 none
~~EE~~ ~~EE~~ ~~EE~~ E

Reconsider stage 6 Cf. Maltby p 42. or Payne? - used Grant.

D.A. There are ^{four} probable I.A. jaws - probably best to leave off the summary charts?
 - have included, in fact.

Parodontal Disease

~~S~~ some degree.

None stage

G F ¹¹¹¹
 # G ¹¹¹¹
 # H 1

(1) Presumed IA.

Unusual wear p.1

In three jaws the 2nd cusp of M_2

is more worn than the first cusp.

calculus.

back of foramen

lack of P_2

Incisor eruption of lower
jaw with 2 mental foramina

Include in descr. Grant stages of

each & present,? using symbols Brothwell.

Take to D.Brothwell.

P_2 M_3
 0478B absent 2 cusped photo 20
 - the only case.

Calculus.

slight

moderate - $\frac{1}{2}$ tooth covered or
 considerable thickness of calc.

severe. covering most of tooth
 and thick.

pubW 1b/H8 HT

Iron Age Definite.

0478E R / / / / (1)(W) ¹⁰ ³ e f 13 2 C -

?13 ?12 ¹⁰ ³ 35e 5 -

F

¹² ¹⁰ ¹ g e c 23 3

D

15 25 L ^{not a pair} (1) (1) (1) g d ¹⁰ 22 3

D

Bie 19

SH / GT MEAS

I.A.

	0610	848	0621C	F0468	383				
hc	outer curve	Lc 115		-	72				
	circumf.			76	75	93			
	basal			-	18	19	23		
	min basal diameter			36	29.5*	30	33.3		
	max =								
sc	GLP	0511	859	859	855	819	819	1415	
		27.2			26.4		31	28.7	26.3
	SLC	17.3	R 16.8	R 18.5	16.0	19.2	R 16.4	R 18.2	16.5
	Neck	017.5	18.7	19.5	17.8		18.5	19.2	19.6
	Index	1.01	1.11	1.05	1.11	0622	1.13	1.05	1.19
		0510C	840	848	819	0623	091	374	396
hu	BT	26	24.4	R 28	24.4	27.5	26.2	28.7	26.9
	p76. check.								
		0509	831	836	383				
ra	GL								
	Bp	27.3	28.0	R 28.9	R 25.1				
	SD								
	Bd								
pe	LA								
	SH	823							
fe	GLC								
	SD								
	Bd	34.8							
		045AD	0478F	0478I	2510A 0510C	836	0621C		
ii	CIL								
	Bp								
	SD								
	Bd	12.6	12.8						
		b	b						
		21.4	L 23.4	L 22.1	R 26.0	23.2	R 22.6	R 23.7	
		0510C	0618	848	301				
astr	CIL	24.4	24.4	L 24.5	24.2				
	CIL	23.5	23.4	24.4	R 24.2				
	Bd	16.0	15.6						
		0618		319	835	15.53			
calc	GL	50.0		R 52.2	56.0	46.8			
		0478A	0460C	0510C	840	835	836	F0468	374
rnc	GL	L 1193							
	Bp	21.1	19.6	L 19.5	R 20.5	L 21.0	20.1	F0468	R 20.7
	SD								
	Bd	21.4	22.5	24.8	21.2	18.8			
mt	GL	0459B	0478I	0460A	0510C	0510C	835	0621B	0946
	Bp	R 19.2	L 18.6		19.0	16.9			
	SD	(9.7)	11.8	11.2	10.9	64%			
	CRA				a 9.7*				
	Bd	0459B	0510C		21.7	b15.2			
1st phal	GLpe	32.0	31.9	32.4	31.7	31.2	848	1415	364
	Bp	10.8	11.3		11.7	11.7	10.1	11.3	

*Boss neck p. 115

Bie 20