

		F61 A/SW 4 [360]		G61 [661] det. on 1957-1959	F61 summary (560 to 2 part ← part head)	I	N	Total
hc	R	1	1			hc	2	
	R					sk	2	
Skull	both	1 ⁺ 1 ⁺						
	L							
hc	L							
mx	R	stage 5			15	mx	2	
	L							
md	R	14 15 13 ch ² 1 ⁺	1 ⁺	15 1 ⁺	ws 1 ² 1 ² II	md	12	
	L	15		15	1 ² 1 ²			
Teeth		1	1	4	II 2	teeth	15	
SC.	R	ch ² Ph ² ch ² t ² t ² gn. t ²			ch ² 1 ² 1 ² k ² Ph ² ch ² t ² t ²	sc	10	
(neck present)								
	proximal							
	R shaft							
hum.	distal					hum	8	
C	P	t ²						
S	s	t ²						
d		t ²						
s prox groove p for wind pipe present	R	t ²						
rad	d	ulna fused s ² ad						
-	p							
L	s							
-	d							
ul	R	t ²				ul	3	
	L							
il.		gn. sep.						
R isch		sep?						
pub								
pelvis	n					pel	5	
L isch	path	t ²						
pub.	p	t ²						
R	s							
d								
femur	-	p				fem	6	
L	s	t ²						
d								
patella		t ²				pat	1	
P								
R	s							
tibia	d					tibia	9	
-	p							
L	s	gn. ad.	t ²					
d		t ²	t ²					
Eleven	18	3 6	8+1	8+1	10+1 5			
(whole aret psd, ps, sd bones (in arth) t fused - in wear)	3		4	1	1			
b fusing.								
o not fused	rad.	t - end of bone fused, but ulna not fused to radius.						
o ep " epiphysis								

RGF08

10 fairly complete bones

Notes

Separated

- A/SW ④ 1 ♂ md stage 6. chopped several times, c.10, lateral side
 ♂ " " 4 " further back than M₃, thru. bone
- " 2 path. pubis - pubic part of acetab. There is a foramen 8 x 2 mm. parallel to -
 and 8 mm in from the acetabular border at the point where
 the pubic and isch. parts of the acet. fused.
- " 3 ^{?path.} old mt the two d. condyles are more unequal than usual. The lateral condyle is
 3 mm shorter than the medial. Muscle attachments are
 pronounced. ? old.
- " 4 skull fragments. Much of basal & occipital area, presumably one skull, many
 pieces, both 3yo. & 3yo. pr. of molar bone, 2 maxillae - L & R, matching,
 one hc (fragmentary) ²¹
 2 x Ld R palatine bones → 2 skulls present; also 2 a R & L bas mal bone which do not match, by
 size.
 21 major pieces, 18 smaller but identification certain, 106 smaller pieces. - Some, at least carefully
 selected.
- J63 [63] 1 ♂ sc. head, chopped ? spine ch. of ; 2 ch. marks on glenoid cav.; ch on
 anterior border of neck, 3 cm long cut.
- " " ♂ " has same 3 ♂ characteristics, plus a hole in the blade cf. Schmid Atlas, p 43. It is on
 the ^{medial} inside that the bone has flaked off round the hole. Sc. is not complete.
 Also scratches on medial side, a gnawed distal tip of blade.
- " " path " There is a depression in the centre of the glen. cavity. Cf. Baker & Brathwell 1981, 110 fol.
 " " spine ch.; small ch. ant. border of head; (glen. missing); blade broken but
 a hole having been made, jagged edge on med. side; knife mks medial blade.
- " 2 ♂ calc. 5 ch. on posterior
- " [64] 1 hu shaft, new break bth ends - marrow not used.
- " " 2 ♂ phl 3 knife marks on dorsal side. ? Skinning. They are quite slight.
- J63 [74] 1 ♂ md 3 small ? knife mks post.^b, below condyle.
- " " " md 20 or so ? k. mks, as above & on buccal side of md.
- preservation 1 t. missing + several pieces of condyle (modern breaks without matching pieces).
- G661 1 pel. R & L, fused; pub symphysis pubis unfused; not f. to sacr.; no marks; substantially complete
- b [769] 1 ♂ phl 2 k. mks across shaft, ventrally.
- 1958-6 [455] 2 path hu two areas, on the shaft just above the distal condyles (anterior), have a woven appearance.
 the surface is slightly raised. looks periosteal.
- 1958-35 [452] 2 ♂ phl transverse k marks prox - ant & post; and mid shaft - ant. ? skinning.
- 1957 W/S [70] 3 ♂ mc ten heavy ^{transverse} chops on shaft near p end, ventrally.
- 58 20 [464] 4 ♂ phl 4 roughly transv. ch or k marks (how can you tell?) mid shaft dorsally.
- B57 u/svrha 5 age hu imm. GL without epiph. 110. Same size as my NW72 calf.
- " 6 ♂ phl 2 k marks trans?, middle of shaft ventrally.
- F61 1 ♂ sc no marks on head or neck, long scratches ^{surface} medial side of blade.
- " ♂ sc part of blade (probably from ↑) showing jagged break mid blade, perhaps done when fresh -
 ? mark made from fore joint being hung.
- " 2 ♂ md ch behind condyle
- " 3 ♂ sc blade has no hole (cf. Schmid); ch on medial side blade & on spine, though the spine is not ch. off.
- " 4 ♂ sc ch on beginning of spine
- " 5 path mt There is some alteration of the proximal, medial facet. Post of the prox, lateral = facet is overlaid with a thin layer of bone which shows some polish. There is no exostosis around the prox joint surface. Bob says slight - may not have been lame.
- " 6 ♂ sc ^{tool marks} k/ch mark medial side of blade. The implement had a square end, 1.0 mm thick.
- " 7 ♂ tal central + 4th tarsal, ^{distal} surface chopped away - separation of leg joint here
- H61 572 1 mt bone surface fairly rough. ? elderly. Also, there is a shallow irregularity on the distal medial condyle. 110 x 3 mm long.

RGF 09

CATTLE JAWS & TEETH

g - mature wear stage - Grant.

Upper teeth w - in wear; < - < g ; g ; > - > g, i.e. pillars in wear.

	mx	md	U	L	R	I	1	2	3	4	P	2	3	4	M _{1/2}	1	2	3	N.v.	Stage
F61 A/5W	(4)	*	nd	R							(w)(w)(j)	12	9	2		23	3			
"	nd	R									/	16	15	13						
"	nd	R									E (v)	12	11	7		46	65	wr. on M _{1/2} flats becoming flat.		
"	(mx	R									w	>	>	>		30	4			
"	{mx	L									w	>	>					mx 5		

J63	[63]	nd	L				a	w	c		k	j	g		41	5			
"	ndfr.	R									/					5 or 6			
"	L.t.															un-worn.	4 est		
"	[64]	ut	R													>			
"	[74]	md	R				a	w	c		k	j	g		41	5	}	rode a pair.	
"	md	L		/	/	/	/	/	c		k	/	g						
"	L.t.																		
G61	[661]	md.	R				/	/	f		/	/	/		32	5 est			
"	"	"ut.						w											
"	"	L.t.																	
57 villa	md	R																	
" "	md	L																	
58	[433]	ut.																	
58	[416]	L.t.																	
I62	67	BA	md	L															
I62	78	BA	nd	L															
"	78	BA	L.t	L															
"	80	BA	L.t	(w)	vv														
"	99	?	L.t																
"	107	IA	mx																
"	120	not R	nd	R															
"	119	latenco	L.t																

F61	[493]	*	nd	R			/	/	/		/	k	j		5				
"		L.t										k			5 or 6		2 radio.		
1959	[292]	nd	L				(v)	(1/2)	(b)						1	Dp ₃	vvvv	enamel only.	
J63	[34]	ut																	
F61	[495]	L.t	L									m+		6		island of 2nd cuop 1/2 gone; worn below			

enamel on 3rd cuop.

F61 496 W.L. L

H61 571 mx

H61 572 ut w

	Min	Max	No. loose	No. max	11. md.
Stage 1	1e	1	2 (+1)		
2	1e	1	-		4/10 mandibles have adult dentition,
3	1	1	-		5/10 3rd molar in full wear.
4	1	1 (+1)			
5	11111	5 (+2)			
6	0 (+1)†				

mini 15

RGF II

hc (J63 (57-
[63] [132])

L outer curve ~ c.176

Basal circumf. 160 c.176

Max bas. diam. 59 65

Min. bas. diam. 46 47

→ Index

I Age (2) porous porous

II L. group (2) or (3) (3)

III curve c.v.e. c.v.e

IV tip - ? pointed

V sex ? ♂ ? ♂

direction of horn (out/
fixed) out down

scap. LG (J63 (57-
[63] [132]) (J63 (57-
[64]) 63.5

SLC 40 52 56

hum. BT (J63 (57-
[63]) 73

rad. GL (J63 (J63
[64]) 246 (63.8)

Bp 74 - 69

SD 35.0 (ulna
fused)

Bd

pel.

fem. GLC (A/SW(4)) (57-1)

Bp -

SD 31.3

Bd 85 c.78

tib. GL (J63 (J63 (961) (F61
[63] [64]) 57.0
Bp not
SD redder
Bd 0.65 51 53.6 57 -

calc GL (J63 (661) 59.10 (H61 (F61
[63] [64] 27.71 57.2) 60.1)

astr. GLL 70.2 69 59 64.8 62

GLM 63.3 64.4 52 58.4 58

Bd 44.1 47 39.0 40.4 39.4

GL (A/SW(4)) (J63 (J63 (J63 (57-15
[63] [64] [64] villa) (57-15
193 27.71 (70) (F61
187 57.2) 57.2)

mc GL 50.0 51.9 - 67.1 ✓ 50.7 ✓ 53 51.4 63 62.0

Bp 31.0 (looks
SD 56.1 matured)

Bd (A/SW(4)) (A/SW(4)) (J63 (J63 (J63 (F61 (H61
[63] [64] [63] [64] 27.71 (961) (57-villa) (F61
233 206 226 217 206 218)

mt GL 48.3 - - 46.1 41.4 47.0 50.2

Bp 31.0 - - 24.0 23.9 59.0

Bd 49.4 59.7 49. 48.3 52.7 -

1st phal GL peripheral (A/SW(4)) (J63 (J63 (J63 (57-16
a. 56 55.5 63 a. 56 p. 57 a. 56 a. 58 a. 55 a. 57.2 p. 55 a. 55 e p. 51 p. 56

Bp 28.8 30.1 32.1 26.5 34.1 ✓ 26.0 32.0 30.5 25.2 24.1 ✓ 26 -

3rd phal DLS (58-10 (57)
54 small

a - anterior} using r.d. Driesch

p - post. } 1976. No idea how true.

c. approximately, but within 5 mm or less. useable

e " ± 2 mm.

no 1/10 place - to 1 mm.

$$(944.5 + 4673) : (8+4) = 14118 \div 12 \\ = 1.177 \text{ m}$$

$$\times 6.125 \rightarrow 1225 + 3448 \rightarrow 4673 \div 4 \rightarrow$$

1.168 m

$$\times 5.45 \rightarrow 1220 + 8225 \rightarrow 9445 \div 8 \rightarrow$$

$$200 \quad 1.181 \text{ m}, \\ 224 \quad \rightarrow \text{mean } (159 + 224) \div 8 = 216.63 \\ 173.3$$

Height estimates Fock 1966

$$\text{mc GL } 193 \text{ III } \times 6.125 = 1.182 \text{ m}$$

$$c. 187 \text{ ns } 1.145 \text{ m}$$

$$183 \text{ ns } 1.121 \text{ m}$$

$$3.448 \div 3 = 1.149 \text{ metres.}$$

$$\text{mt GL } 203 \text{ III } \times 5.45 = 1.106 \text{ at shoulder}$$

$$233 \text{ II } 1.270$$

$$206 \text{ III } 1.123$$

$$226 \text{ III } 1.232$$

$$217 \text{ III } 1.183$$

$$206 \text{ III } 1.123$$

$$218 \text{ III } 1.188$$

$$1.509 \div 7 = 1.175$$

$$\text{Mean} = 215.57$$

$$\text{Mean of all } 10 = 1.167$$

$$R. 1.106 - 1.270$$

(femur GLC 312 × 3.47 = 1.083 - below range
- does Lange van Caput aus mean GLC ?? - discount)

GLL 59-70.2 Mean 325 ÷ 5 = 65.0

$$Bp 233 \div 5 = 46.6$$

$$Bd 3795 \div 7 = 54.2$$

$$Bd 3795 \div 7 = 54.2$$

separated

781 , ti

as large lengthwise as my rac but wider. GL c 205

200 57 skulls : mt

young. Length w/o d. epiph. 91 mm. quality of bone prox end immature.

F61 578 , sk

definitely no proper horn, though there may have been a small scar - that part
of the skull is missing.

RGF14

Le G

	F	J	S	J	G	Restr of 57-59	F61	H61	I	M	
calc.	R					+1		5			-
(artic.)	L										-
astrag.	R										-
	L										-
	P										-
R	s										-
mc	d								mc	1	
	P										-
L	s										-
d											-
	P										-
R	s										-
mt	d								mt	4	
	P										-
L	s										-
d											-
Phal.	1st								ph.	2	
	2nd										-
	3rd										-
Vert. Atlas											-
axis											-
other cerv.											-
thor.											-
lumb.											-
sacr.											-
	-4	5	5	3	2	2	11+1	5	12	0	6
	560	↓	↓	↓	G	↓	57-59	F	H	I	

4+5 = 9 bones quite complete ($> \frac{1}{2}$)

fr. zone total.

Fragments.

hc goat											
" sheep											
sk											
mx											
md	2										
tooth											
sc											
hu											
ra			ii			i					
ul											
pe	1		i		i		1				
fe	3		i	i	i						
ti			i	i	i		1				
cpl											
tsl											
mc											
mt											
metapodial	mp										
phal											
atlas											
axis											
	-2	4	0	1	1	4		2	1	1	
						+1					

hc sheep	1	1
sk	1	+2
mx	-	1
md	2	16
t	-	9
sc	-	-
hu	-	2
ra	3	1
ul	-	-
pe	4	2
fe	3	2
ti	6	9
cpl, tsb	-	-

mc	1	1
mt	1	4
phal	-	2
vert	-	-
		-

RGF15

SHEEP/GOAT JAWS & TEETH

/ - tooth lost post mortem
maxilla in pencil

Calculus - none
sl slight
m medium
s severe. B.L.B. 1981, 151
Categories not defined

maxilla
mandible
tooth

	L	R	I	1	2	3	4	P	2	3	4	M1/2	1	2	3	N.e.	Stage	Peridental Disease	
F61 A/SW (4)	md	L		/	/	/	/	/	wr.	g		12	8	g	g	c	E	no	
"	md	R			/			/	w	f		"	g	f	"	5	F	no	
"	md	R		/	/	/	/	/	w	k		"	g	1		6	G	wr M1,2 flat.	
"	t	L							w	w	h		d	g	g	38	9	"	
J63 [63]	md	L							w	w	h		1	1	1				yes - Pd. round P4/T1, absorption of roots old. Some bone lingually.
"	md	R	no teeth																3 flattish.

feature LR 1, 2 3 4 P1 2 3 4 M1 2 3 Stage N.e. p.d. Comment

	L	R																
F61 A/SW (4) L	/	/	/	/	/	PW	II	□	□	□	E	32	no	P4 recorded differently, 2nd time				
" R	/	(P) PW	II	□	□	□	□	f	g	g	F	37	no					
" R	/	/	(P) PW	II	□	□	□	m	j	g	40	yes. P4 GA	P4 recorded differently this time	from Grant (forthcoming - book on Ageing, BAR).	40	II		

calculus

yes. P4 GA
P4 recorded differently this time
from Grant (forthcoming - book on Ageing, BAR).
p.d. P4/M1 both sides, most severe buccally - resorption of alveolar border and periosteal growth of bone P4 - M2.

J63 [63] R

	no teeth	SL	SL	SL														
J63 [63] R	PJ PW	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	

J63 [64]

	(m) PV PE	P½	vv	g	g	g	38	F	no	M3 1st to w before 3rd has erupted.
J63 [64]	1/2	g	f	12	11	7	b	30		

961 = [66]

	/	PW	II	□	□	□	□	g	g	8	c	E	32	no			
57 villa R	/			g	g	g	g	sl	sl	sl							
" " R	/	/	/	g	g	g	g	sl	sl	sl							
" " L	/	/	/	g	g	g	g	sl	sl	sl							

yes. Slight P4/T1 resorption at bone buccal and lingual side.

857 w/s(villa) R

	w	w	w	g	g	g	30	E	no	
857 w/s(villa) R	a	w	e	g	f	b	30	E	no	

57 327 [205] R
(squat brackets)

	PW	PW	m	m	m	m	D	19	
57 327 [205] R (squat brackets)	g	g	b	b	b	b			

Upper in pencil

I	m1,2	m3	M	M3
P2,3	P4	R	or	R
prob. one jaw, tho				
P4	2	the t. are not adjacent		
(not one jaw and				
post of same jaw				
as 62,3)				

I62 3

I62 66

I62 77

" "

" 78 L

" 79

" 80

" 128 late neo.

Method as Enbank, Grant & Payne, followed as closely as poss.

m - deciduous premolar. Why Day decid molars? Susan doesn't eat human bks.

x (deciduous) - tooth broken (whereas, in Grant used for cattle) by me () means deciduous tooth

/ - alveolus present, tooth missing (post mortem). RGF16

Teeth. U = unworn (in jaws U means + almost full height but unworn).

	sl	sl	sl	est		
" 78 L	/	PW	□	j		

H estimated
Hor I slight, buccal side.
44e

a?

g v v
EE U
v v

13

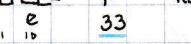
Sh/gt Jaws & Teeth

Jaws Maxilla in pencil

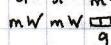
feature LR I, 2 3 4 P2 3 4

M1 2 3 Stage p.d.

Loose	Teeth	Upper - pencil
i m1,2	m3	M1
I P2,3	P4R	M3
	or2	LR

H61 490 L / / /  F no
g, f, e, 33

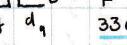
H61 543 ♀

H61 555 L  - best. Cest. 8-12est

? say 10 e (from Grant 1982)

g <
g f
FF

H61 572

H61 583 L /  F
g, d, 33e

F61 574 R /  g
j, g, g, 38

" " R w  g
k, g, g, 37

1959 [263]

15 jaws.

g in upper teeth is awkward, because that  bit doesn't wear down for some time - g in upper teeth starts a good while later, than in lower teeth. I'm recording this stage as g.

RGF17

Sheep/goat Measurements. (μ)

as v. d. Driesch 1976.

(58-63)
[1465])

hc Lateral curve c 72

basal circumference 74

max basal diameter 31^{10.9%}

min " " 16

There is a slight depression on both sides of hc.

to be repeatable, measure to 1-mm?

sc.

hu

BT

ra GL

Bp

SD

Bd

fe GLC

SD

Bd

ti 563 [63] 781 [493]

GL

(2.05
than hu,
but u-long)

SD

Bd 23.9 27 22.2

astr GLL

GLm

Bd

calc

GL

mc

GL

Bp

SD

Bd

mt 563 [63] 59.7 [321]

GL

128

122

Bp

19.0

16.7

SD

10.8

9.8

Bd

23.5

20.4

lot phal GLpe (57 villa) 34.5 58 [52]

Bp 11.7 9.6

RQF 18