Ancient Monuments Laboratory Report 72/87

ANIMAL BONE FROM SITES A & C AT WILSFORD.

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Summary

59 fragments of bones and teeth from two Bronze Age barrows were studied. The species identified in both barrows A and C are cattle, caprine (probably sheep only); in barrow A, horse/pony and dog; and in barrow C, ?red deer and ?pig. Cattle remains are most common, followed by those of sheep and horse/pony. Species frequencies probably reflect the methods used to recover faunal remains. The anteroposterior crown lengths of two cattle lower third molar teeth measure 39.6 and 39.4mm - equivalent to large British Bronze Age cattle. Measurements of several bones and teeth are provided. The enamel folds of a well preserved horse/pony upper (?third) premolar tooth are figured.

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wilsford

ANIMAL BONES FROM SITES A & C AT WILSFORD

A small collection of animal bones and teeth (to be housed in the Salisbury museum) has been entrusted to me for identification by Dr Edwina Proudfoot. They were excavated in 1960 from the Bronze Age Pond-barrows at Wilsford, Wiltshire, southern England - map reference SU/118398. These barrows are dated to c. 1700-1400 bc. (Among them a shaft - referred to as site B - was discovered which was excavated by Proudfoot and Ashbee. Bones from this shaft are reported separately by Caroline Grigson.)

I have been able to identify 59 fragments of bones and teeth (table 1). Most belong to cattle, horse and sheep (?and goat). Deer, pig and dog, while rare, are also present. Preservation and retrieval biasses have undoubtedly affected the frequencies of species within the assemblage, and large animals are probably over-represented. Bone preservation is fair. Several bones exhibit gnaw marks, and most of the long bones had lost their epiphyses; probably a result of the activity of dogs.

With such a small sample it is difficult to draw any far reaching conclusions. But cattle appear to be more common than sheep, and both are more common than horse. In southern Britain sheep remains become more common relative to cattle in the Iron Age. In the shaft at Wilsford, Grigson found that sheep outnumber cattle by 4:1 which, she suggests, gives it an "Iron Age look". However, a relative scarcity of sheep at Wilsford A and C (and notwithstanding recovery biasses) indicates a Bronze Age for these two barrow assemblages. A comparison of assemblage A with assemblage C (table 1) reveals the absence of horse from site C, but in view of the smallness of the samples, this observation may be of little significance. Similarly, there are insufficient bones to test whether the human inhabitants at Wilsford had a preference for any part of the anatomy of these animals.

The lengths of two complete cattle lower third molars are compared with Mas from other Bronze Age and Neolithic sites (fig 1). The two Wilsford teeth are large.

A well preserved equid upper pre-molar tooth - probably P^3 - came from site A. The enamel pattern of its occlusal surface, depicted in figure 2, shows an elongated protocone; typical of horse/pony, *Equus caballus*. The Wilsford equid tooth is slightly larger than the P³ from the Iron Age pony found at Hook, Hampshire (Davis, forthcoming; see table 2). With a crown height of 39 mm this Wilsford equid was probably aged between 9 and 13 years at death (see Levine, 1982). Another equid tooth from site A - an upper molar - is very worn and must have come from a very old animal. Perhaps these were ponies used for transport.

Measurements (see table 3 for miscellaneous teeth and bones) and figures are provided here in order to facilitate comparison with data from other sites in this part of England. Table 1

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Animal bones and teeth from Wilsford A and C according to anatomical provenience and species $\label{eq:constraint}$

. . .

	SITE	Α	SITE	С
	L	R	L	R
CATTLE				
horn core			1	
zygomatic bone		_	1	****
upper premolar	1		1	1
upper molar	1	1	1	_
Pa	1	-		
M1/2		_		1
Ma	1	~	1	1
humerus shaft	_		_	ĩ
radius prox	~~~		1	-
radius shaft			1	
ulna			*	1
digt metapodial				1
frequent	ı		_	
accord phalany	۲ س	1		
second pharanx		Ŧ		
SHEEP/(GOAT)				
upper molars	7		~-	
lower molars	2 3		1	_
humerus shaft	_	1		_
humerus distal	_	1		
metacarpal shaft	1			
acetabulum		1		
tibia shaft	- 1	1		1
tibia distal	- 1	1		_
metatarcal chaft	-	*	1	
methedisar shart				
HORSE/PONY				
incisors	3			
P ³		1	-	-
M ³	-	1	-	-
upper molar	-	1		
scapula	1			
calcaneum	1	-	-	-
?RED DEER				
antler tine			1	
D.T.4				
P1G			r	
upper canine frag			Ŧ	
DOG				
tibia distal		1	~	
LARGE UNGULATE				
occipital condyle	1		-	
vertebra	1		2	
rib	1		-	
scapula			1	
ilium	1		~	

table 2

Measurements, taken across the occlusal surface, of the Wilsford equid P^3 with those of the Iron Age pony from Hook, Hampshire

L Lp W Hook left P³ 26.1 11.2 25.4 Hook right P³ 26.4 12.0 21.9 Wilsford P²³ 27.7 14.1 27.7

> (L = mesio-distal length of crown Lp = maximum length of protocone W = bucco-lingual width of crown)

Table 3. Measurements (in millimetres)

Cattle second phalanx: (site A) proximal width = 25.8

Cattle Ma:

			1	w.ant	w.cent	ht	
(site	C)	"34"		15.9	15.1	29.6	
(site	C)	"21"	39.6	16.3	15.3	44.7	
(site	A)	"11"	39.4	15.4	13.8	32.1	

(1 = antero-posterior crown length, w.ant = maximum bucco-lingual width of first cusp, w.cent = maximum bucco-lingual width of the central cusp, ht = crown height measured up the buccal surface of the central cusp)

Cattle horn core (site C) Minimum and maximum diameters at base = 57 X 65

Dog tibia distal fragment (site A): width (Bd) = 21.9 height (antero-posterior width; Td) = 15.9

1.1

Legends to figures.

Figure 1

British Neolithic and Bronze Age cattle size. The antero-posterior lengths of the two cattle lower third molars from Wilsford (shown as black squares) are plotted with other Bronze Age (stippled) and Neolithic (line) British cattle. Data from Grigson, 1986.

Figure 2

Occlusal view of the equid upper tooth, probably P³ from site A of Wilsford (SW "37" S30' W24'6" depth 1'2" layer BDS). The enamel is shown black. Note the elongated protocone which identifies it as *Equus caballus* - horse or pony.

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2 9 1

3 cm





References

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ANIMAL BONES FROM SITES A & C AT WILSFORD INVENTORY (KEY; numbers enclosed in a triangle are here placed in double inverted commas L and R refer respectively to the left and right side of the limb or animal) SITE A X8W "50" S34 W17'6 D1'6 layer BD5 shaft frag tibia small ungulate shaft frag ? large ungulate IX "27" S37'9" W12'8" depth 1'7" layer BDS occipital condyle ?cattle L VIII "26" S18'6" W31'8" depth 1'9" layer BDS ilium part of pelvic girdle cattle L small rib X SW Quad "52" D1'7" layer BDS upper molar tooth sheep/goat middle part of mandible (L) with Ml and M2 X "36" SW S27' W30'6" depth 1'4" layer BDS acetabulum+pubis/ilium/ischium sheep/goat R three upper molars sheep/goat L distal radius shaft frag ??pig IX "18" SW S37'6" W12'3" depth 1'4" layer BDS lower molar tooth M?l sheep/goat central frag of ?horse/upper tooth P_{Pony} X SW "37" S30' W24'6" depth 1'2" layer BDS upper molar tooth cattle R distal humerus frag sheep/goat R upper P?3 horse/pony R (see figure 2) SW "16" S39' W12' depth 1' frag of parietal ?cattle/horse X SW W31'6" S23' depth 1'6" layer BDS bottom upper molar tooth M?3 sheep/goat R horse/pony incisor phalanx 2 cattle R X SW depth 2'8" chalk layer tibia shaft ?sheep/goat R (very well fossilised unlike the rest of the Wilsford bones; both ends gnawed) X S25' W29'3" depth 1'7" layer BDS metacarpal shaft - flattened at the end to make a tool ?sheep vertebra frag ?cattle/horse IX SW "33" S36' W12'2" depth 1'9" layer BDS two incisors horse/pony "65" ditch in west bank shaft frag of long bone ?tool ?cattle

shaft of humerus ?sheep/goat R

- VIII "22" SW S19'4" W30'9" D1'5" layer BDS lower molar frag sheep/goat
- X "51" SW Quad D.2'app stony layer upper M3 tooth horse/pony R lower part of calcaneum *Equus* L
- VI SW "10" edge of ditch dark silt S15' W30' depth 14" distal tibia sheep R (chewed)
- IX SW "21" S35'3" W14' D1'6" layer BDS bottom upper M3 tooth sheep/goat L lower M?2 tooth sheep/goat metapodial condyle frag cattle (burnt)
- X SW "40" S34' W26' Dl'6" layer BDS rib cattle/horse upper premolar tooth cattle R upper molar tooth cattle
- cutting VIII "11" W9'6" S3'5" depth 1'3" isolated lower third molar tooth cattle L scapula *Equus* L (coracoid fused)
- SW ditch VI lower P4 cattle L
- X SW Quad S37'6" W14'11" D1'7" layer BDS cranium frag ?parietal bone cattle/horse
- XII depth l'4" anterior part of mandible ramus horse/cattle R upper molar tooth Equus very old individual R (most of the crown worn down)
- IX "29" SW S36'7" W12'4" depth l'9" layer BDS proximal part of tibia shaft sheep/goat
- X SW "39" S30'5" W27'7" depth l'2" layer BDS upper M3 sheep/goat R distal tibia dog R

SITE C N60 "59" fragment of pig upper canine tooth N60 "7" antler fragment "27" depth 8" top of ditch I silting proximal radius + shaft cattle L two upper adult premolar teeth L,R Burial VIII next E "54" upper molar tooth cattle ?L Cutting IV top of ditch I silting "16" ulna cattle R Cutting III E24' S3'6" depth 1'8" scapula (half glenoid surface only) cattle L Cutting V "20" N21'7" E12' depth 8" radius shaft cattle ?L Cutting I "8" N12' E5'6" depth l'1" ditch II zygomatic bone cattle/horse L "31" ditch I lower molar (Ml or M2) tooth cattle SE Quad "34" top of outer ditch vertebra cattle/horse distal half of humerus shaft cattle R isolated broken lower third molar tooth cattle L NE Quadrant "19" top of ditch I upper molar tooth cattle L vertebra fragment cattle/horse lower molar tooth sheep/goat Cutting III "14" E22'8" S3'6" depth 7" layer-top of ditch shaft of tibia sheep/goat R metatarsal shaft ?sheep/?roe deer upper premolar teeth ?P3 and P4 cattle L VI top of ditch II "22" broken upper molar tooth cattle Cutting V "21" top of ditch II horn core cattle L diameters at base = 57X65 mm mandible ramus + second and third molar teeth cattle R Burial VII "45" or "10" pendant fragment of pig canine tooth Burial "44" or "10" ring this is probably bone.

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