Table 31: mean fragment sizes of sieved bones (cm)

	All samples		***All IA-RB pits***		***IA ditches/ gullies***		***RB ditches/ gullies***	
	n	***X***	***n***	***X***	***n***	***X***	***n***	***X***
Cattle	65	9.3	18	9.9	42	8.7	5	nc
Sheep	102	4.3	37	3.9	62	4.5	3	nc
Pig	26	5.4	8		17		1	
Horse	7	16.2	1				1	
Dog	2	7.5			2			
Unidentified	1019	2.7	397	2.7	519	2.7	104	2.5
Burnt black	131	2	70	2	50	1.9	11	1.9
Burnt white	30	1.6	24	1.6	6			

Table 32: Cumulative percentages of unidentified and burnt fragments of different length in feature groupings of sieved bones

n Centimetre class	*n*	*0 - 1*	*1 - 2*	*2 - 3*	*3 - 4*	*4 - 5*	*5 - 6*	*6 - 7*	*7 - 8*	*8 - 9*	*9 - 10*	*10 - 11*	*11 - 12*	*12 - 13*	*13 - 14*	*14 - 15*	*15 - 16*	*16 - 17*	*17 - 18*	*18 - 19*
Unidentified unburnt fragments																				
a) Random sampling and wet sieving																				
IA-RB pits	165		34	72	81	93	95	96	96	98	98	98	99	99	99	99				100
IA ditches	173		31	72	88	95	98	99	100											
D F200, 203, 206 a	119		36	77	94	98	99	99	100											
RB ditches	104		48	78	90	95	98	99	99	99	100									
b) Judgement sampling and dry sieving																				
IA-RB pits	232		46	76	89	93	96	97	99	100										
D F200, 203, 206	346		38	67	86	93	96	97	98	99	99	100	100	100	100	100				
Burnt fragments																				
a) Random sampling and wet sieving																				
IA-RB pits	22		55	95	100															
IA ditches	30	13	77	97	100															
D 200, 203 and 206	15	27	87	93	100															
RB ditches	11		64	100																
b) Judgement sampling and dry sieving																				
IA-RB pits	48	6	67	90	96	98	98	98	100											
d F200, 203 and 206	20		35	85	95	100														

Ditches F200, F203 and F206 are also included in the results for IA ditches.

Table 33: Minimum numbers of individuals (MNI) determined from mandible from mandible and tooth data

	Neo	***MBA***	***LBA/EIA***	***MIA***	***LIA***	***all IA***	***RB (certain)***	***All RB (a)***	***Saxon***
Cattle	+ c	+	8	8	1	18	12	17	4
Sheep/ goat	1	2	13	24	2	43	13	18	3
Pig	1		2	7	2	9	4	7	1
Horse			+	2	+	2	3	3	+
Dog		1	2	2	+	4	2	2	+
Cattle				+		+			+
Red Deer	+		+			+			
Roe Deer	+			+		+			

Determined from sieved and unsieved debris. The contribution of elements recovered by sieving is insignificant.

a) This group includes probable Roman material of less certain date.

+ - pecies indicated by other skeletal elements.

Table 34: Percentages of species from estimates for each period of minimum numbers of individuals

	LBA/EIA	***MIA***	***All IA***	***All RB***	***Sax***
Total MNI	26	43	76	47	8
%					
Cattle	31	19	24	36	50
Sheep/ goat	50	56	57	38	38
Pig	12	16	12	15	12
Horse	+	5	3	16	+
Dog	8	5	5	4	+

Table 35: Selected measurements of cattle bones (mm)

		Length (GL, GLC or GL1)				***Proximal width (Bp)***				***Distal width (Bd)***			
		n	***r***	***X***	***s***	***n***	***r***	***X***	***s***	***n***	***r***	***X***	***s***
Humerus (GL)	*IA*	1	257 (a)							15	69 - 82	75.07	
	RB	2	270 - 272	271						3	73 - 76	75	
Femur (GLC)	*IA*	5 (b)	288 - 304	294.8	(6.42)								
	RB	2	376 - 380 (c)	388									
Radius (GL)	*BA*					1	82						
	IA	7	245 a - 263	251.71	(6.52)	14	62 - 74	68.29	3.73				
	RB	4	252 - 271	258		6	72 - 84	75.67	(4.41)				
	Sax	1	256			1	72						
Tibia (GL)	*BA*									2	56 - 62	59	
	IA	7	280 - 314	302.86	(11.38)					13	51 - 60	54.23	2.43
	RB	2	308 - 377 c	342.5						9	53 - 68	58.11	(4.96)
	Sax									4	60 - 61	60.5	
Metacarpal (GL)	*BA*									1	54		
	IA	9	168 - 184	177	(6.74)					10	49 - 60	53.48	4.24
	RB	4	175 - 187	182.5						6	50 - 63	56.83	(4.83)
	Sax	1	196										
Metatarsal (GL)	*IA*	14	196 - 236	207.07	10.20					15	44 - 60	50.29	4.90
	RB	6	196 - 245 c	207.5	(18.66)					7	49 - 62	53.87	(5.24)
	Sax	2	206 - 215	210.5						4	45 - 48	49.23	
Astragalus (GL2)	*IA*	8	55 - 61	58.88	(2.30)								
	RB	4	60 - 74 c	64									
	Sax	3	57 - 61	59.33									

a) Articulated limb, probably female F652a

b) Articulated limbs, possibly all female, F652a (Table 13)

c) Articulated limb, possible castrate, F 513 f (Tables 12 and 35)

Table 36: Lengths and distal widths of sexed cattle bones and estimates of shoulder height. Key and additional information on word document

Females	***Radius a***					***Metacarpal b***					***Metatarsal c***			
		n	***r***	***X***	***s***	***n***	***r***	***X***	***s***		***n***	***r***	***X***	***s***
Data (mm)	IA ♀	7	245 - 263	251.71	(6.52)	5	168 - 187	175.20	(8.38)		10	196 - 211	204.4	4.53
Est. height (cm)			105 - 113	108.2			101 - 112	105.2				104 - 113	109.3	
	RB ♀		252 - 257	253.67		1	187				1	200		
			108 - 111	109.1			112					107		
	Sax.	1	256								2	206 - 215	210.5	
												110 - 115	112.6	
Intact Males (♂) and														
Castrates (♂)														
		n	r	$\bar{X}$	s	n	r	$\bar{X}$	s		n	r	$\bar{X}$	s
					Bulls ? (♂) c						Bulls?			
Data	IA				(♂) c	3	179 - 184	181		(♂ ♀ ♂) c	1	203 e	(♂ ♀ ♂)	
Est. height							107 - 110	108.6 (if ♀				109 (if ♀ ht est.		
								est.) d				used) d		
							112 - 115	113.1 (if ♂)				113 (if ♂ ht est. used)		
	RB	1	271		RB (♂) c	2	175 - 185	180		(♂) c	1	196	1199 e	
			117				105 - 111	108 (♀)				105	106 (if ♀ est) d	
	Sax.						109 - 116	111.5 (if ♂)				109	110 (if ♂)	
Castrates ? Possibly females														
	IA									IA(♀ / ♂) c	1	236	d	
												126 (if ♀ est.)		
												131 (if ♂ est.)		
	RB									RB (♀ / ♂) c	1	245		
												131 (if ♀ est.)		
												136 (if ♂ est.)		
					Distal width metacarpal					Distal width metatarsal				
					IA ♀	5	49 - 53	50.9	(1.36)	♀	10	47 - 50	48.58	1.01
					♂	3	59 - 60	59.47		♂♂	2	58 - 60	59	

Table 37: Metatarsal lengths of cows

		n	*r*	*X*	*s*
UTV (a)	*IA*	6	188 - 214	203.33	
BCF (b)	*RB (3rd to 5th C AD)*	16	200 - 238	215.93	11.29
MF	*IA*	10	196 - 211	204.4	4.53

a) Upper Thames Valley sample, Wilson 1986, table 17

b) Barton Court Farm, Abingdon.

MF v BCF + test : t = 3.08 > t = 2.06 at p >0.05: df 25

Table 38: Mean height estimates at the withers of cows from the metatarsals.

		m
UTV	IA	1.088
BCF	RB (3rd to 5th Century)	1.16
MF	IA	1.093 (1.109 if based on $\underline{X}$=207.27)

Table 39: Separation of the sexes of cattle as determined from the pelves

	Female	***Intact / castrate***	***Indeterminate***
IA	8 - 10	2 - 4	3
RB	1	2	2
Sax.	4	1 - 3	1

Table 40: Selected measurements of sheep bones

		Length GL				***Distal width (Bd)***			
		n	***r***	***X***	***s***	***n***	***r***	***X***	***s***
Humerus	*IA*	2	136 - 141	138.5		13	24 - 30 a	26.69	1.7
	RB					2	24 - 28	26.0	
	Mod (b)	6	142 - 168	160.33	(9.85)	6	35 - 42	38.83	(2.40)
Radius	*IA*	3	145 - 158 (a)	153.67		2	26 - 30 a	28	
	RB	1	146			1	25		
	Mod (b)	5	170 - 174	172.0	(2.00)	4	37 - 38	37.5	
Tibia	*BA*					1	24		
	IA	3	175 -208 (a)	197.0		13	21 - 24	22.15	0.99
	RB					4	20 - 28	22.75	
	Sax.					1	23		
	Mod (b)	3	201 -236	217.67		4	30 - 33	31.75	
Metacarpal	*IA*	3	121 - 131(a)	127.67		3	23 -24	23.33	
	RB	1	123			1	23		
	Sax.	1	115			1	22		
	Mod (b)	3	143 - 146	145.00		3	33-34	33.33	
Metatarsal	*?Neo/BA*	1	131 e			1	21		
	IA	2	141 a-142 (a)	141.5		2	22-22	22.00	
	RB	1	125			1	20		
	Mod (b)	6	136 - 159	148.17	(10.50)	3	29-32	30.00	
Scapula Index	*IA*	1.01, 1.08, 1.11 (♀), 125, 127, 139 (unfused epip.)							
	RB	1.24 (fusion line)							
	Sax.	0.90 and 1.04							
	Mod (b)	0.81 (♀), 0.9, 0.92, 0.99							

a) Skeleton F152

b) Modern skeletons

Bones from less well dated prehistoric skeletons not included here

Table 41: Measurement comparisons of sheep humerus and tibia

Ashville	*IA*	30	23 - 32	26.3	1.76
UTV	*RB*	14	23 - 33	28.71	2.67
MF	*IA*	13	24 - 30	26.69	1.7
MF	*Modern*	6	35 - 42	38.83	2.4

MF IA v UTV RB Significant t test: t = 2.32 and exceeds t = 2.056; p > 0.05, df 26

Distal tibia		***n***	***r***	$\bar{X}$	***s***
Ashville	*IA*	18	21 - 25	22.5	0.86
BCF 3rd - 5th Century AD	*RB*	38	20 - 31	24.47	2.11
BCF	*Sax.*	12	23 - 30	25.67	2.06
MF	*IA*	13	21 - 24	22.15	0.99
MF	*Mod*	4	30 - 34	31.75	

MF IA v BCF 3rd - 5th Cent. Significant test : t=2.93 and exceeds t = c 2.010; df 50

MF IA v BCF Sax. Significant t test: t= 3.64 and exceeds t = 2.064; df 24

Table 42: Selected measurements of horse bones in mm

		Length (GL)						
		n	***r***	***X***	***n***	***r***	***X***	***s***
Humerus	*IA*				4	65 - 80	74.75	
	RB				3	68 - 82	75	
Femur	*EIA*	1	356					
Radius	*IA*	1	337					
Tibia	*IA*	1	322		5	54 - 65	59.4	(4.83)
	RB	1	325		2	62 - 65	63.5	
	Sax				2	68 - 72	70	
Metacarpal	*IA*	2	191 - 203	197	5	42 - 44	43.4	(0.89)
	RB	3	202 - 216	209	2	44 - 45	44.5	
	sax	2	208 - 211	209.5	2	45 - 47	46.0	
Metatarsal	*EIA*	4	242 - 256	248.5	4	43.49	45.75	
	RB	1	247		1	48		

Table 43: Measurements of bones of other species in mm

		Length (GL)	***Distal width (Bd)***			
Pig						
Humerus	*IA*		37			
	RB		39			
Metacarpal IV	*IA*	71	16			
Metatarsal III	*IA*	78	14			
Dog						
Humerus	*RB*		27			
Tibia	*IA*	150 (MSD 10.6)				
Cat (a)						
Humerus	*IA*		18			
	Sax.		15.6			
Red deer				Proximal width Bp		
Radius	*LBA/EIA*	F162A		n	r	X
Tibia	*Beaker*	F287	52	2	51 - 62	56.5

a) The Iron Age humerus is thought to be of wild cat *Felis Sylvestris sylvestris* and the Saxon is undoubtedly of the domestic cat *Felis Sylvestris* (domestic)

Table 44: Incidence of abnormalities on cattle metatarsals. (None of the 7 Iron Age and Romano-British metacarpals of cattle show abnormalities)

	IA	***RB***	***Sax.***
Distortion of proximal articulation surface	3	1	
Bone accretions on shaft	3/14	1/7	1/4
Enlargement of distal articulation	2/14 (pair)	1/7	-/4

Figures include those given in Table 13 for F652.

Table 45: Percentages of bone fragments for major species at nearby Romano - British sites

	Berinsfield		***Dorchester***		***Abingdon***		
	Mount Farm	***Wally Cnr. Cemetery***	***Beech House***	***Old castle Inn***	***Barton Court Farm***		
			L11	***ph.2-3***	***4***	***ERB***	***LRB***
No. of mammal bones	1038	164	190	99	398	365	3764
	%	*%*	*%*	*%*	*%*	*%*	*%*
Cattle	48	52	53	58	49	49	51
Sheep/Goat	31	25	33	19	34	27	26
Pig	9	2	8	11	17	22.00	9
Horse	11	16			0.3	1.1	10
Dog	1.1	2.4	4.2	12.1	(18.1) b		3.6
Cat	0.00				0.3	0.3	0.1
Red Deer	0.05	1.8	0.5				0.6
Roe	0.00	0.6	1.6				
As % of n	0.00						
Domestic Fowl	0.3	1.2	<2.6		<1.3	0.8	3.1
Oyster	0.3	1.6	nc	nc	nc	1.1	14.2

a) calculated independently as % of n. ct. Domestic Fowl

b) including a dog skeleton

nc - not known, not calculated