

EXCAVATION OF AN
ENIGMATIC
MULTI-PERIOD SITE
ON THE ISLE OF PORTLAND, DORSET

BONES: Section 3.2, by Mark Maltby

Table 1 Contexts

Group	Contexts
Structure S59	285 304
Structure S60	61 118 125 127-8 144 165 185-6 191 202 212 214 223 227 236 245 252
Structure S97	129 198 216
Structure S200	138 189 192 199 205 238 254-5
Structure S299	50 130 140 149 275 279 310
Ditch F22	23-4 78 203 215
Other Linear	115 187 204 222 224
Grave fills	231 234-5 249-50 288 315
	15 18-9 33 36 39 120 123 170-2
Walls	179
Rubble layer 121	121 121a 121b 121c 121b/c 121e
Other rubble layers	25 41 53 56 64 163 177 188 190 209 242 251 291 298
Soil layers 12, 100-110	12 100-2 109 109a-c 109g 109w 110 110a-e
	110w
Other soil layers	16 51 57 63 65-6 82 116 143 157 161-2 164 246 262 269 271 293
Other contexts	21 62 106 132 137 142 145 302

Table 2: Animal bones recorded by group

Group	Mammal	Bird	Fish	Amphibian	Total
Structure S59	98	3	30		131
Structure S60	2067	49	106		2222
Structure S97	1520	15	132	1	1668
Structure S200	1398	29	157	1	1585
Structure S299	228	6	4		238
Ditch F22	241	8	12		261
Other Linear	86		2		88
Grave fills	354	1	1		356
Walls	275	9	10		294
Rubble layer 121	1633	8	38		1679
Other rubble layers	938	20	129		1087
Soil layers 12, 100-110	1561	20	43	4	1628
Other soil layers	2139	20	92	1	2252
Other contexts	149	4	7		160
Total	12687	192	763	7	13649

Counts are of number of individual specimens (NISP) and include unidentified fragments

Table 3: Preservation indicators

Group	Gnawed NISP		Eroded NISP		Burnt		Ivori- ed NISP		Modern breaks NISP		Uni	
	(I)	%	(I)	%	NISP	%	(I)	%	(I)	%	NISP	%
Structure S59	1	2	1	2	6	5	0	0	0	0	75	57
Structure S60	71	7	68	7	24	1	2	0.2	41	4	1273	57
Structure S97	75	8	20	2	15	0.9	3	0.3	47	5	759	46
Structure S200	63	7	19	2	41	3	4	0.5	39	5	721	45
Structure S299	15	12	1	0.8	2	0.8	15	12	7	6	111	47
Ditch F22	13	12	2	2	3	1	0	0	4	4	148	57
Other Linear	8	17	0	0	0	0	0	0	3	6	40	45
Grave fills	7	6	8	7	1	0.3	0	0	13	11	234	66
Walls	10	7	14	9	23	8	0	0	16	11	145	49
Rubble layer 121	73	10	47	6	18	1	6	0.8	26	3	912	54
Other rubble layers	41	8	12	2	23	2	3	0.6	20	4	555	51
Soil layers 12, 100-110	41	5	85	10	2	0.1	1	0.1	86	10	776	48
Other soil layers	96	8	22	2	25	1	2	0.2	64	6	1109	49
Other contexts	14	14	7	7	1	0.6	0	0	6	6	61	38
Total	528	8	306	5	184	1	36	0.5	372	6	6919	51

NISP = number of individual specimens; NISP (I) = number of specimens of identified species

Table 4: Mammal bones recorded by group

Species	S59	S60	S97	S20 0	S29 9	D22	Other Linear	Grav e	Wall s	(121)	Other r Rubb	100- 10	Other r Soil	Other r	Total	% Dom	% Id Mamm
Cattle	5	145	110	153	23	18	22	20	25	108	88	93	128	22	960	16	16
Sheep/Goat	39	618	605	491	49	64	19	80	92	527	294	590	859	57	4384	71	71
Pig	4	96	85	96	6	17	6	17	13	88	61	95	81	11	676	11	11
Horse		4	9			1		4	2	8	3	2	3	1	37	0.6	0.6
Dog		10	22	8	44	2			2	3		7	4		102	2	2
Cat				2						2		13		1	18	0.3	0.3
Red Deer			1							1	1				3		0.05
Roe Deer											1				1		0.02
Hare				1								1	1		3		0.05
Cetacean											1				1		0.02
Field Vole											1				1		0.02
Rat													1		1		0.02
<i>Total Identified</i>	<i>48</i>	<i>873</i>	<i>832</i>	<i>751</i>	<i>122</i>	<i>102</i>	<i>47</i>	<i>121</i>	<i>134</i>	<i>737</i>	<i>450</i>	<i>801</i>	<i>1077</i>	<i>92</i>	<i>6187</i>		
Large Mammal	3	193	177	200	38	37	19	37	50	201	142	132	218	33	1480		
Medium Mammal	40	909	491	413	67	93	15	188	86	504	315	561	816	21	4519		
Small Mammal		4		1							1	4			10		
Unid Mammal	7	88	20	33	1	9	5	8	5	191	30	63	28	3	491		
<i>Total Undetified</i>	<i>50</i>	<i>119</i>	<i>688</i>	<i>647</i>	<i>106</i>	<i>139</i>	<i>39</i>	<i>233</i>	<i>141</i>	<i>896</i>	<i>488</i>	<i>760</i>	<i>1062</i>	<i>57</i>	<i>6500</i>		
<i>Total</i>	<i>98</i>	<i>2067</i>	<i>1520</i>	<i>1398</i>	<i>228</i>	<i>241</i>	<i>86</i>	<i>354</i>	<i>275</i>	<i>1633</i>	<i>938</i>	<i>1561</i>	<i>2139</i>	<i>149</i>	<i>12687</i>		

Counts are of number of individual specimens (NISP)

Table 5: Totals and percentages of major domestic mammals by group

Species	Other							Other				Other			Total
	S59	S60	S97	S200	S299	D22	Linear	Grave	Walls	(121)	Rubb	100-	Soil	Other	
Cattle	5	145	110	153	23	18	22	20	25	108	88	93	128	22	960
Sheep/Goat	39	618	605	491	49	64	19	80	92	527	294	590	859	57	4384
Pig	4	96	85	96	6	17	6	17	13	88	61	95	81	11	676
<i>Total</i>	<i>48</i>	<i>859</i>	<i>800</i>	<i>740</i>	<i>78</i>	<i>99</i>	<i>47</i>	<i>117</i>	<i>130</i>	<i>723</i>	<i>443</i>	<i>778</i>	<i>1068</i>	<i>90</i>	<i>6020</i>
Large Mammal	3	193	177	200	38	37	19	37	50	201	142	132	218	33	1480
Medium Mammal	40	909	491	413	67	93	15	188	86	504	315	561	816	21	4519
<i>Total</i>	<i>43</i>	<i>1102</i>	<i>668</i>	<i>613</i>	<i>105</i>	<i>130</i>	<i>34</i>	<i>225</i>	<i>136</i>	<i>705</i>	<i>457</i>	<i>693</i>	<i>1034</i>	<i>54</i>	<i>5999</i>
Cattle	10%	17%	14%	21%	29%	18%	47%	17%	19%	15%	20%	12%	12%	24%	16%
Sheep/Goat	81%	72%	76%	66%	63%	65%	40%	68%	71%	73%	66%	76%	80%	63%	73%
Pig	8%	11%	11%	13%	8%	17%	13%	15%	10%	12%	14%	12%	8%	12%	11%
Large Mammal	7%	18%	26%	33%	36%	28%	56%	16%	37%	29%	31%	19%	21%	61%	25%
Medium Mammal	93%	82%	74%	67%	64%	72%	44%	84%	63%	71%	69%	81%	79%	39%	75%

Counts are of number of individual specimens
(NISP)

Table 6: Percentages of Cattle, Sheep/Goat and Pig from Romano-British sites in Dorset and neighbouring counties.

Data adapted from King 1984: 1999; 2005; Hambleton 1999; Maltby 2002; in press

County	Location	Site	Type	NISP	Cattle	Sheep/G	Pig	S/G:P
Dorset	Portland	Weston Road		6020	16	73	11	87
Dorset	Dorchester	Charles St/WC II	Large Town	3281	32	49	19	72
Dorset	Dorchester	Colliton Park	Large Town	1431	35	58	7	89
Dorset	Dorchester	Greyhound Yard	Large Town	17485	38	37	25	60
Devon	Exeter	various	Military	1161	43	33	24	58
Devon	Exeter	Goldsmith St	Large Town	2978	46	31	22	58
Devon	Exeter	Rack St	Large Town	1242	74	19	7	73
Devon	Exeter	St Mary Major	Large Town	1563	37	31	32	50
Devon	Exeter	Trickhay St	Large Town	1278	60	19	21	48
Hampshire	Silchester	Basilica	Large Town	6842	36	38	26	60
Hampshire	Silchester	Manor Farm	Large Town	213	51	31	18	63
Hampshire	Silchester	South Gate	Large Town	1104	58	25	17	59
Hampshire	Winchester	Crowder Terrace	Large Town	416	69	29	3	89
Hampshire	Winchester	Defences	Large Town	1362	46	38	17	69
Hampshire	Winchester	Hyde Abbey	Large Town	1662	36	47	17	73
Hampshire	Winchester	Oram's Arbour	Large Town	423	37	46	17	72
Hampshire	Winchester	Staple Gardens	Large Town	1354	45	34	21	62
Hampshire	Winchester	Victoria Rd G2-4	Large Town	2069	63	24	13	66

Hampshire	Winchester	Victoria Rd IV-VI	Large Town	2142	41	40	19	68
Hampshire	Winchester	Victoria Rd X-XVI	Large Town	9384	54	34	12	74
Somerset	Ilchester		Large Town	1229	66	30	5	87
Dorset	Dorchester	Alington Avenue	Rural	857	53	42	6	88
Dorset	Ower	(4th C)	Rural	435	42	40	18	69
Dorset	Rope Lake Hole		Rural	1408	23	71	6	92
Dorset	Whitcombe		Villa	338	38	56	6	91
Dorset	Hod Hill		Military	494	14	74	12	87
Hampshire	Winnall Down Micheldever		Rural	1791	46	46	7	50
Hampshire	Wood	(LIA-ERB)	Rural	830	39	43	19	70
Hampshire	Little Somborne		Rural Small	592	44	50	6	89
Hampshire	Neatham		Town	1383	67	26	8	78
Hampshire	Abbotstone Down Brighton Hill	(LIA-ERB)	Rural	647	50	40	10	80
Hampshire	South	(LIA-ERB)	Rural	1803	53	40	7	84
Hampshire	Hayling Island		Temple	4939	1	55	44	56
Hampshire	Porchester Castle		Military	16504	65	19	16	55

%S/G:P = percentage sheep/goat of total sheep/goat and pig

Table 7: Sheep/Goat element counts

Element	Other						Other					100-	Other		NISP	%	%	%		
	S59	S60	S97	S200	S299	D22	Linear	Grave	Walls	(121)	Rubb		Soil	Other				MNE	MNE	WBE
Horn Core		2	4	3	1	1					2		6		19	0.4	5.2	10	6.8	
Maxilla		6	16	8		2	1	2	2	1	3	2	6		49	1.1	13.4	22	15.1	
Skull frag	1	24	33	37	4	6		4		21	14	24	49	6	223	5.1	61.1	39	26.7	
Mandible	2	40	88	50	7	6	2	11	10	26	20	52	46	5	365	8.3	100.0	89	61.0	54.45
Hyoid				1		1			1				1		4	0.1	1.1			
Loose Teeth	6	183	147	141	7	20	2	17	24	188	65	164	189	10	1163	26.5				
Scapula	1	22	19	15	2	3			3	9	9	6	26	1	116	2.6	31.8	49	33.6	23.20
Humerus		26	16	18	2	3	2	3	7	30	15	29	33	2	186	4.2	51.0	112	76.7	43.55
Radius	3	26	27	23	4	1		7	9	29	21	35	65	4	254	5.8	69.6	97	66.4	70.05
Ulna	1	13	15	8	2			4	1	7	5	16	19	3	94	2.1	25.8	57	39.0	
Pelvis	2	26	35	26	5	2	1	2		25	15	16	47	1	203	4.6	55.6	104	71.2	27.45
Femur	2	35	17	19	3	1	1	1	6	20	10	28	40	7	190	4.3	52.1	69	47.3	39.20
Patella		3	2	1						2		3	4		15	0.3	4.1			
Tibia	2	47	37	26	3	3	3	6	3	27	29	39	72	2	299	6.8	81.9	146	100.0	82.35
Carpals		2	4	4						5		2	6		23	0.5	6.3			
Astragalus	2	12	8	9			2		1	11	1	12	26	2	86	2.0	23.6	81	55.5	
Calcaneus		14	5	7			2		2	7	4	10	18		69	1.6	18.9	67	45.9	
Centroquartal	1	4	7	1				1		6	3	3	11		37	0.8	10.1	37	25.3	
Other Tarsals								2							2	0.0	0.5			
Metacarpal	2	15	24	15		3		1	4	22	15	30	26	8	165	3.8	45.2	64	43.8	51.15
Metatarsal	2	30	31	26	2	3	1	1	7	21	24	35	46	3	232	5.3	63.6	70	47.9	71.10
Metapodial	1	2	4	1				1	1	4	1	6	5		26	0.6	7.1			
Phalanx 1	4	14	18	14	2	5		4	3	23	8	28	30	2	155	3.5	42.5	35	24.0	
Phalanx 2	1	7	2	2	1	1		2	1	5	5	7	12		46	1.0	12.6	11.5	7.9	
Phalanx 3		6	3	2					1	6	2	5	5		30	0.7	8.2	7.5	5.1	
Atlas (VC1)		5	4	4		1		2		4	2	5	6		33	0.8	9.0	58	39.7	
Axis (VC2)		3	2	1			1	1		1	4	4	2		19	0.4	5.2	34	23.3	
Cervical V		8	4	6				2	2	5	1	9	18		55	1.3	15.1			
Thoracic V	2	13	6	5		1		3	1	11	5	7	12		66	1.5	18.1			
Lumbar V	2	12	12	6	1			3	1	2	6	6	4	1	56	1.3	15.3			
Sacral V		1	2	4		1						1	1		10	0.2	2.7	14	9.6	
Caudal V		1		1									1		3	0.1	0.8			
Ribs	2	15	13	7	3		1		2	7	5	6	25		86	2.0	23.6			

Sternebrae		1								2			2		5	0.1
Total	39	618	605	491	49	64	19	80	92	527	294	590	859	57	4384	

NISP = number of individual specimens; WBE = whole bone equivalents

MNE = minimum number of elements represented; counts of phalanges divided by 4; counts of VC1,VC2 and VS multiplied by 2

Table 8: Sheep/goat body areas represented

Area	Other										Other		Other		NISP	
	S59	S60	S97	S200	S299	D22	Linear	Grave	Walls	(121)	Rubb	100-10	Soil	Other	Total	
Cranial	3	72	141	99	12	16	3	17	13	48	39	78	108	11	660	
Upper forelimb	5	87	77	64	10	7	2	14	20	75	50	86	143	10	650	
Upper hindlimb	6	111	91	72	11	6	5	9	9	74	54	86	163	10	707	
Foot	13	106	106	81	5	12	5	12	20	110	63	138	185	15	871	
Trunk	6	59	43	34	4	3	2	11	6	32	23	38	71	1	333	
Total	33	435	458	350	42	44	17	63	68	339	229	426	670	47	3221	

Percentage	Other										Other		Other		Total	
	S59	S60	S97	S200	S299	D22	Linear	Grave	Walls	(121)	Rubb	100-10	Soil	Other	Total	
Cranial	9	17	31	28	29	36	18	27	19	14	17	18	16	23	20	
Upper forelimb	15	20	17	18	24	16	12	22	29	22	22	20	21	21	20	
Upper hindlimb	18	26	20	21	26	14	29	14	13	22	24	20	24	21	22	
Foot	39	24	23	23	12	27	29	19	29	32	28	32	28	32	27	
Trunk	18	14	9	10	10	7	12	17	9	9	10	9	11	2	10	

Cranial = mandible, maxilla, hyoid, horn core, skull fragments but excludes loose teeth

Upper forelimb = scapula, humerus, radius, ulna

Upper hindlimb = pelvis, femur, patella, tibia

Foot = carpals, tarsals, metapodials, phalanges

Trunk = ribs, sternebrae and vertebrae

Table 9: Elements displaying cut, chop and saw marks

Element	Cow	S/G	Pig	Cat	Med. Duck	Great Auk	Gannet	Scad
Horn Core	2	1						
Maxilla		1	6					
Skull frag	3	3						
Mandible	3	3	1					
Hyoid		1						
Furcula					1			
Scapula		9	2					
Humerus		4	2			1	1	
Radius	1	2						
Ulna	1	1						
Pelvis	3	11	2					
Femur	4	3	1					
Tibia	1	4	6	1				
Astragalus	4	12	2					
Calcaneus		5						
Centroquartal	1	5	1					
Metatarsal		1						
Phalanx 1	7	2						
Atlas (VC1)	1	8	3					
Axis (VC2)	1	2	1					
Cervical V	1	5	1					
Thoracic V	2	7	1					
Lumbar V	1	8	2					
Sacral V	1							
Caudal V								1
Ribs		6	1					
Sternebrae								
Total	37	104	32	1	1	1	1	1

Table 10: Cattle, sheep/goat and pig mandibular tooth ageing data

Mandibles				
Cattle	No.	%	Cum %	MWS scores
Stage 1	1	25	25	2e
Stage 2	0	0	25	
Stage 3	0	0	25	
Stage 4	1	25	50	28
Stage 5	0	0	50	
Stage 6	1	25	75	43e
Stage 7	1	25	100	47-49
Total	4			

Mandibles				
Sheep/ Goat	No.	%	Cum %	MWS scores
Stage 1	5	9	9	1e <u>1e 2 2 2e</u>
Stage 2	1	2	11	3
Stage 3	15	28	40	8e 9-10 10 11 11e 11e 11-14 12e 12e <u>13</u> 13 13 15 15 15e
Stage 4	10	19	58	19-20 20e 20e 21-25 21-25 21-25 21-25 22e 23 23-25
Stage 5	8	15	74	28-30 30-31 31 33-36 34 34e 35 35e
Stage 6	13	25	98	37 37 37-41 37-41 37-41 37-41 38e 38e 39 40 41 41 41-43
Stage 7	1	2	100	48
Total	53			Sheep <u>Goat</u> S/G

Mandibles			
Pig	No.	%	Cum %
Stage 1	0	0	0
Stage 2	0	0	0
Stage 3	8	40	40
Stage 4	3	15	55
Stage 5	6	30	85
Stage 6	1	5	90
Stage 7	2	10	100
Total	20		

Stage 1 = 4th deciduous premolars (dp4) not in wear
Stage 2 = dp4 in wear; 1st molar (M1) not in wear
Stage 3 = M1 in wear; 2nd molar (M2) not in wear
Stage 4 = M2 in wear; 3rd molar (M3) and permanent premolars not in wear
Stage 5 = M3 in wear; 4th permanent premolar (P4) not in wear (Cattle)
Stage 5 = M3 in wear; M1 at Grant (1982) wear stage g (S/G)
Stage 5 = P4 in wear; M3 not in wear (Pig)
Stage 6 = P4 in wear; M3 < Grant wear stage k (Cattle)
Stage 6 = M1 at Grant wear stages h-m; M2 at Grant wear stage g (S/G)
Stage 6 = M3 at Grant wear stages a-b (Pig)
Stage 7 = M3 at Grant wear stages k-m (Cattle)
Stage 7 = M1 and M2 at Grant wear stages h-m (S/G)
Stage 7 = M3 at Grant wear stages c-g (Pig)

MWS = mandible wear stage (Grant 1982); e = estimated MWS

Table 11: Epiphyseal fusion data

Cattle					Pig				
Early Fusing	Unfused	Fused	Total	% Fused	Early Fusing	Unfused	Fused	Total	% Fused
Radius P	2	10	12	83	Scapula D		4	4	
Scapula D		5	5		Acetabulum	3	4	7	
Acetabulum	2	5	7		Radius P	2	6	8	
Humerus D		8	8		Humerus D	6	6	12	50
1st Phalanx P	8	27	35	77	Total	11	20	31	65
2nd Phalanx P	5	26	31	84	Later Fusing				
Total	17	81	98	83	1st Phalanx P	9	1	10	10
Later Fusing					2nd Phalanx P	5	5	10	50
Tibia D	5	1	6		Tibia D	12	1	13	8
Metacarpal D	4	5	9		Metapodial D	11	3	14	21
Metatarsal D	3	1	4		Lateral Mp D	5	2	7	
Metapodial D	6	1	7		Total	42	12	54	22
Total	18	8	26	31	Latest Fusing				
Latest Fusing					Ulna P	5		5	
Ulna P	3		3		Radius D	4		4	
Femur D	8		8		Femur D	13		13	0
Radius D	7	1	8		Humerus P	1		1	
Humerus P	4	2	6		Calcaneus P	8	1	9	
Femur P	11	1	12	8	Femur P	4		4	
Calcaneus P	6	3	9		Tibia P	3		3	
Tibia P	8	4	12	33	Total	38	1	39	3
Total	47	11	58	19					
Sheep/Goat					Horse				
Early Fusing	Unfused	Fused	Total		Early Fusing	Unfused	Fused	Total	% Fused
					Scapula D			0	

Acetabulum	17	52	69	75	Radius P	1		1
Radius P	10	56	66	85	Acetabulum		1	1
Scapula D	4	36	40	90	1st Phalanx			
Humerus D	9	73	82	89	P	2		2
Total	40	217	257	84	2nd Phalanx			
					P			0
Later Fusing					Total	3	1	4
1st Phalanx P	43	81	124	65	Later Fusing			
2nd Phalanx					Tibia D			0
P	2	44	46	96	Metacarpal			
Tibia D	56	36	92	39	D		1	1
Metacarpal D	20	16	36	44	Metatarsal D	1		1
Metatarsal D	28	20	48	42	Metapodial			
Metapodial D	15	5	20	25	D		1	1
Total	164	202	346	58	Total	1	2	3
Latest Fusing					Late Fusing			
Calcaneus P	29	24	53	45	Humerus P	1		1
Ulna P	13	8	21	38	Femur D			0
Humerus P	24	5	29	17	Radius D		1	1
Femur P	37	26	63	41	Total	1	1	2
Femur D	33	13	46	28				
Tibia P	28	9	37	24				
Radius D	28	21	49	43				
Total	192	106	298	36				

D = Distal; P = Proximal

Table 12: Common measurements of sheep and goat from Weston Road and Dorchester (Maltby 1993)

	Weston Road						Greyhound Yard, Dorchester					
	N	Min	Max	Mean	s.d	c.v	N	Min	Max	Mean	s.d	c.v
Astragalus GLl	61	22.2	28.8	25.5	1.4	5.3						
Astragalus GLm	57	21.5	30.1	24.5	1.6	6.5						
Astragalus Bd	54	14.1	19.6	16.3	1.1	6.7						
Calcaneus GL	13	45.8	53.5	48.0	2.5	5.1						
Humerus BT	31	23.3	27.9	25.3	1.2	4.9	103	22.3	30.4	26.6	1.6	
Humerus HT	32	14.9	19.9	16.6	1.0	6.1						
Metacarpal Bp	28	18.0	23.0	20.3	1.3	6.6	102	18.0	23.6	20.6		
Metacarpal Dp	23	12.9	16.1	14.6	0.9	5.9						
Metacarpal Bd	13	20.4	24.5	22.3	1.3	5.9						
Metatarsal Bp	28	15.3	20.0	17.9	1.1	6.0	81	15.6	22.2	18.5	1.3	7.0
Metatarsal Bd	12	19.8	24.4	21.9	1.5	6.9						
Radius Bp	26	24.8	32.5	26.8	1.7	6.5						
Radius Dp	22	12.6	15.2	13.9	0.7	5.3						
Radius BFp	26	22.5	30.2	24.9	1.8	7.2	66	21.4	29.8	25.7	1.6	6.2
Scapula GLP	20	25.9	32.5	28.6	1.9	6.8	70	25.6	34.2	29.1	2.0	
Scapula BG	19	14.9	20.2	17.7	1.3	7.1						
Tibia Bd	33	20.9	28.2	23.6	1.8	7.6	166	20.0	27.8	23.8	1.3	5.5
Tibia Dd	26	15.3	22.1	17.9	1.6	9.2						
Withers Ht (cm)	13	51.1	62.1	56.3	3.1	5.5	61	50.0	67.4	58.1	4.0	6.9

GLl = greatest lateral length; GLm = greatest medial length; GL = greatest length;

Bp = proximal breadth; Bd = distal breadth; BT = breadth trochlea; Height trochlea;

BFp = proximal articular breadth; GLP greatest glenoid length; BG = glenoid breadth

Withers height estimated from length measurements of complete limb bones

Table 13: Cattle element counts

Element	Other										Other		Other		NISP		WBE
	S59	S60	S97	S200	S299	D22	Linear	Grave	Walls	(121)	Rubb	100-10	Soil	Other	Total	MNE	
Horn Core		4	2	5						7	1	3	8		30	11	
Maxilla		1	3	3			1			1		3	1	1	14	5	
Skull frag		8	4	12	1	3		4	1	3	4	4	5	2	51	10	
Mandible	1	13	9	23	1	1	4		2	8	8	3	6		79	15	10.05
Hyoid											1				1		
Loose Teeth	1	57	32	32	2	1	2	6	4	32	20	29	29	2	249		
Scapula		2	2	4	2	1	2	1		3	2	1	3		23	7	3.00
Humerus		4	3	8	2	1		1	2	4	2	4	6	1	38	15	5.60
Radius	1	3	3	6	1	1			4		3	4	5	1	32	10	5.90
Ulna	1	2	4	4			1			2	1	2	3	1	21	10	
Pelvis		2		5	2		1	1	1	1	6	1	3		23	9	2.30
Femur		1	6	8		1				4	2	4	5	2	33	8	4.95
Patella						1								1	2		
Tibia		5	9	2			1	1	1	1	3	2	7	1	33	8	5.65
Carpals		3	2	3	2		1		1	5	3	3	7		30		
Astragalus		3	1	1		1					1	1	2		10	8	
Calcaneus		3	1		1		1			2		3	2	1	14	12	
Centroquartal		2	2	1			1				2				8	7	
Other Tarsals		1									1		1		3		
Metacarpal		4	4	3	2		2	2	1	4	7	1	3		33	15	9.05
Metatarsal		2	4	2	1	1			2	4	4		7	1	28	8	6.80
Metapodial			1	1					1	4		1	1		9		
Phalanx 1	1	7	6	6		2	2	1	3	4	3	7	3	3	48	9.25	
Phalanx 2		5	3	7			1	1		3	3	5	3	1	32	7.75	
Phalanx 3			2	4		1	1	1		1	2	2	5		19	4.75	
Sesamoids		3		1						2		2	3		11		
Atlas (VC1)										1	1			1	3	6	
Axis (VC2)		1					1					2			4	8	
Cervical V		1	1	4	1					1	1		2		11		
Thoracic V		4	4	3				1		4	2	2	2	1	23		

Lumbar V	1			2	2				4		2	1		12	
Sacral V	1		2	1					1	2		1	1	9	4
Caudal V		2	2								1	1		6	
Ribs	2		1	2	1			2	2	3	1	2	1	17	
Sternebrae												1		1	
Total	5	145	110	153	23	18	22	20	25	108	88	93	128	22	960

NISP = number of individual specimens; WBE = whole bone equivalents

MNE = minimum number of elements represented; counts of phalanges divided by 4; counts of VC1,VC2 and VS multiplied by 2

Table 14: Pig element counts

Element	S5 9	S6 0	S9 7	S20 0	S29 9	D22	Other Linea r	Grav e	Wall s	(121)	Othe r Rub b	100 -10	Othe r Soil	Othe r	NIS P Tota l	MN E	WB E
Maxilla		5	8	5	1		1		1	3	3	1	3		31	21	
Skull frag	1	9	10	13		2		2		8	4	9	23	1	82	21	
Mandible		12	4	13		1		1		6	6	12	4		59	21	8.95
Loose Teeth	2	24	20	15	1	3		6	3	22	14	26	10	2	148		
Scapula		3		1						5		3	5		17	7	3.00
Humerus		3	6	2			1	2		6	2	2	7	1	32	16	6.35
Radius		3	2	1		1		2		1		3	2		15	7	4.35
Ulna		5	1	3	1	1				1		4	3		19	8	4.10
Pelvis		5	1	2		1				2	2	2	1	1	17	8	2.15
Femur		4	5	6	1	2		1	2	4		1	1	2	29	10	5.05
Patella						1							1		2		
Tibia		3	4	8			1			6	1	3	4		30	11	5.70
Fibula		4		4						2		1			11		
Carpals				1					1				1		3		
Astragalus		1	1	1					1	2		1	1		8	8	
Calcaneus		1	3	1				1	1	3		1	1	1	13	11	
Centroquartal				1						1	1	1			4	2	
Other Tarsals													1		1		
Metacarpal 3			1	1							3	2			7	7	3.45
Metacarpal 4				1		1				2		1			5	5	2.85
Metacarpal												1			1		
Metatarsal 3										2	1	1			4	3	2.25
Metatarsal 4				1						1		1			3	3	1.25
Metatarsal				1											1		
Metapodial		1										3		1	5		
Peripheral Mp	1	3	4	1			1		1		2			1	14		
Phalanx 1		1		2		1				1	3	2			10	2.5	
Phalanx 2		2	2	1							3	1	1		10	2.5	

Phalanx 3			1						1		2	1	1		6	1.5
Peripheral P1	2	1	1							3	2	1		1	11	2.75
Peripheral P3										1					1	0.25
Atlas (VC1)	1	1	3	1	2						2	1	1		12	22
Axis (VC2)												1	1		2	4
Cervical V	1										1	1	1		4	
Thoracic V		6			1	2		1			2	4	3		19	
Lumbar V	2		2				1			3	6	1	1		16	
Sacral V										1					1	2
Ribs		1	5	4	1		1	1	2	1	3	4			23	
Total	4	96	85	96	6	17	6	17	13	88	61	95	81	11	676	

NISP = number of individual specimens; MNE = minimum number of elements represented; counts of phalanges divided by 4; counts of VC1,VC2 and VS multiplied by 2

WBE = whole bone
equivalents

Table 15: Element counts of other mammals

Element	Horse	Dog	Cat	Red Deer	Roe Deer	Hare	Cetacean	F. Vole	Rat
Antler				1					
Maxilla		1						1	
Skull frag	1	2							
Mandible	2	4							
Hyoid									
Loose Teeth	13	9							
Scapula	1	3				1			
Humerus	1	3			1	1			
Radius	2	2							
Ulna		2	1						
Pelvis	1	3							
Femur		5	1						
Patella	1								
Tibia		5	1	1		1			1
Fibula		1	1						
Carpals	4								
Astragalus			1						
Calcaneus			1	1					
Centroquartal									
Other Tarsals	2								
Metacarpal	1	8	1						
Metatarsal	1	8	5						
Metapodial	1	3							
Phalanx 1	2	4	4						
Phalanx 2			1						
Phalanx 3	1								
Sesamoids	1								
Atlas (VC1)		1					1		
Axis (VC2)		1							
Cervical V		1							
Thoracic V	1	10							
Lumbar V		8							
Sacral V		2							

Caudal V		1							
Ribs	1	14	1						
Sternebrae		1							
Total	37	102	18	3	1	3	1	1	1

NISP = number of individual specimens

Table 16: Bird bones recorded by group

	Other						Other				Other					
Species	S59	S60	S97	S200	S299	D22	Linear	Grave	Walls	(121)	Rubb	100-10	Soil	Other	Total	%
Domestic Fowl		26	5	3		2		1	3	2	8	4	7	1	62	46
Duck		6		1						2			1		10	6
Goose			1		1	2			1				1	1	7	5
Great Auk				11											11	8
Razorbill	1	2		1	1							1			6	4
Auk family												1			1	0.7
Gannet													1		1	0.7
Great B-B Gull		2								1	1	3			7	5
Gull (cf Herring/LBB)				4									2		6	4
Fulmar				1											1	0.7
Great N. Diver				2					1			3			6	4
Woodcock					1										1	0.7
Pigeon family		1				1				1	1	1	2		7	5
Raven			2												2	1
Other Corvid			1	1								2		1	5	4
Thrush family			1									2			3	2
Total Identified	1	37	10	24	3	5	0	1	5	6	10	17	14	3	136	
Unidentified	2	12	5	5	3	3			4	2	10	3	6	1	56	
Total	3	49	15	29	6	8	0	1	9	8	20	20	20	4	192	

Counts are of number of individual specimens (NISP)

Table 17: Bird element counts

Element	Fowl	Duck	Goose	Great Auk	Razor-bill	G B-B Gull	H/L B-B Gull	Great N.Diver	Pigeon family	Other Corvid
Mandible			1	1		2	1			1
Sternum	2		2	1			1		1	
Furcula	2	1		1					1	
Coracoid	8			2						
Scapula				2	1					
Humerus	6	1		2	1		2	1		
Radius	4	2	1		1		1			
Ulna	5	2				3	1	3		1
Carpals	1					1				
Carpometacarpus	5	4			1			2	2	
Wing Phalanx	3					1				
Pelvis	1									
Synsacrum	3									
Femur	1		1	1	1					2
Tibiotarsus	8								2	
Tarsometatarsus	7		2		1				1	1
Foot Phalanx										
Vertebra	6			1						
Total	62	10	7	11	6	7	6	6	7	5

Other identifications:

Auk family	humerus
Gannet	humerus
Fulmar	humerus
Woodcock	ulna
Raven	carpometacarpus; tarsometatarsus
Thrush family	humerus; ulna; femur

Table 18: Fish bones recorded by group

Species	S59	S60	S97	S200	S299	D22	Other Linear	Grave	Walls	(121)	Other Rubb	100-10	Other Soil	Other	Total	%
Shark family													1		1	0.3
Common Eel											1				1	0.3
Conger Eel		1	2	2					2		4	3	1	1	16	4
Cod		14	10	11					2	5	2	5	17	1	67	17
Haddock													1		1	0.3
Pollack			9	4						1	3				17	4
Saithe					1										1	0.3
Ling										1					1	0.3
Hake			1												1	0.3
Gadid	1	7	13	12						4	12	7	10		66	17
John Dory		2													2	0.5
Bass		1	6							5	2		1		15	4
Scad	3	3	3	21		4			1	4	24	4	9		76	19
Black Sea Bream				1											1	0.3
Red Sea Bream	2			2							4				8	2
Gilthead									2				1		3	0.8
Couch's Sea Bream			1	6							1				8	2
Sea Bream sp.		8	19	28	1	1	1		2	2	10	7	7	1	87	22
Mullet		1										1			2	0.5
Ballan Wrasse	1		1	1		1			1	1	5	2	2	1	16	4
Wrasses		1	1							1	4	1	1		9	2
Flatfish		1													1	0.3
<i>Total Identified</i>	<i>3</i>	<i>11</i>	<i>22</i>	<i>38</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>0</i>	<i>5</i>	<i>4</i>	<i>24</i>	<i>11</i>	<i>11</i>	<i>2</i>	<i>135</i>	
<i>Unidentified</i>	<i>23</i>	<i>67</i>	<i>66</i>	<i>69</i>	<i>2</i>	<i>6</i>	<i>1</i>	<i>1</i>		<i>14</i>	<i>57</i>	<i>13</i>	<i>41</i>	<i>3</i>	<i>363</i>	
<i>Total</i>	<i>26</i>	<i>78</i>	<i>88</i>	<i>107</i>	<i>3</i>	<i>8</i>	<i>2</i>	<i>1</i>	<i>5</i>	<i>18</i>	<i>81</i>	<i>24</i>	<i>52</i>	<i>5</i>	<i>498</i>	

Counts are of number of individual specimens (NISP)

Table 19: Fish element counts

	Couch's	Red Sea	Sea	Ballan					Conger	
Element	Bream	Bream	Bream	Wrasse	Bass	Cod	Pollack	Gadoid	Eel	Scad
Premaxilla	4	3	3	3	1	6	3		1	
Maxilla			3			2	2	2		
Dentary	3	1	2	3	1	2	4	3	4	
Vomer						1	1			
Parasphenoid		3				3	2	1		
Articular	1	1	4			4	1			1
Superior pharyngeal				1						
Inferior pharyngeal				9						
Quadrate			2		1	1		1		
Hyomandibular			2			1		1		
Face bone			3					1	2	
Frontal						1				
Basioccipital						2		2		
Opercular			1		1			1		
Subopercular			1							
Ceretohyal						1				
Cleithrum									1	
Supracleithrum						3	1	1		
Post-temporal						5		1		
Precaudal vertebra			34		4	29	3	36	4	20
Caudal vertebra			32		5	6		11	4	54
Unid. Vertebra								5		
Scales					2					1
Total	8	8	87	16	15	67	17	66	16	76

Other identifications:

Black Sea Bream

Gilthead

Wrasse

Saithe

parasphenoid

maxilla (2); premaxilla

precaudal vertebra (4); caudal vertebra (5)

vomer

Haddock	caudal vertebra
Hake	articular
Ling	post-temporal
Flatfish	anal pterygophore
Common Eel	precaudal vertebra
John Dory	dentary; caudal vertebra
Mullet	opercular (2)
Shark family	vertebra

GRAIN: Section 3.3, by Debra Costen

Table 1

Identification Number	Context	Finds Number	Feature Number	Identification	Common name	No of Fragments
RMF 05/06 Grain over limestone square (1)	(189) (1)	105	206	<i>Vicia</i> spp.	Vetch/pea	8
RMF 05/06 Grain over limestone square (1)	(189) (1)	105	206	<i>Hordeum Vulgare</i>	6- row hulled barley	28
RMF 05/06 From above feature 206 (1)	(189) (1)			<i>Hordeum Vulgare</i>	6- row hulled barley	>200
RMF 05/06 From above feature 206 (1)	(189) (1)			<i>Vicia</i> spp.	Vetch/pea	22
RMF 05/06 From above feature 206 (1)	(189) (1)			<i>Avena sativa</i>	Oat	3
RMF 05/06 (2)	(189)	105	206	<i>Vicia</i> spp.	Vetch/pea	9
RMF 05/06 (1)	(205)			<i>Vicia</i> spp.	Vetch/pea	5

RMF 05/06 ②	(205)	?	?	<i>Hordeum Vulgare</i>	6- row hulled barley	2
RMF 05/06 ②	(205)	?	?	<i>Vicia</i> spp.	Vetch/p ea	33
RMF 05/06	(298) ①			<i>Hordeum Vulgare</i>	6- row hulled barley	19
RMF 05/06	(298) ①			<i>Vicia</i> spp.	Vetch/p ea	2

Samian Pottery: Section 4.3, by Joanna Bird and Malcolm Lyne

APPENDIX 1: Fabric codings (M.L.)

South Gaulish, La Graufesenque

2a. Martres de Veyre

2b. Martres de Veyre Black Samian

3. Lezoux

4. Rheinzabern Samian

5. Misc Samian

Table 1: Incorporated in main text.

Table 2: Catalogue of all samian

Context	Fabric	Form	Date-range	No of sherds	Wt in gm	Comments
AC 886 (12)	1	Dr 29	c.AD.43-85	2	10g	Buried Roman soil horizon
AC 886 (14)	1	Dr 37 basal	c.AD.70-110	1		Rivetted
		Misc		1	37	
	3	Dr 37 rim	c.AD.120-200	1	4	V.abraded
		misc		1	4	Fresh
AC 886 (15)	1	Dr 18	c.AD.43-90	1	51	Clearance finds
		Dr 18/31	c.AD.120-150	2	1	Abraded
	3	Dr 27	c.AD.120-150	1	3	
		Dr 37	c.AD.150-250	1	5	
				5	60g	Clearance east of 18
AC 886 (16)	3	Misc	c.AD.120-200	1	2g	Flakes. Clearance over wall 18
AC 886 (17)	3	?Dr 37	c.AD.120-200	1	1g	Abraded. Below 16
AC 886 (19)	4	Dr 37	c.AD.200-250	2	37g	Joining. Clearance finds from over wall 18
AC 886 (20)	3	Dr 37	c.AD.120-200	2	8g	Clearance from within S42
AC 886 (21)	3	Misc		1	1g	Clearance west of wall 18
AC 886 (26)	3	Dr 31	c.AD.150-200	2	40g	Fresh, stamped. E/W linear feature
AC 886 (39)	3	Misc		2	12g	Abraded. Associated with S60

AC 886 (51)	3	Dr 33	c.AD.120-200	1	19g	Soil against outside of wall 34 west
AC 886 (61)	3	Dr 38	c.AD.140-200	1		V abraded
		Misc		1	6	V abraded
				2	6g	Clearance finds from above S60 wall
AC 886 (63)	3	Misc		1	4g	Backfill over structure 59
RMF 05(66)	1	Closed		1	1g	Roman soil layer SW S59 =161
RMF 05(100)	3	Misc		1	1g	Flake. Layer above Feature 122
RMF 05(109)	2	Dr 37	c.AD.100-130	1	6	Abraded
	3	Dr 37	c.AD.120-200			Abraded
		Dr 18/31	c.AD.120-150	6	11	Abraded
		Dr 31	c.AD.150-200	2	10	
		Misc		2	1	
			c.AD.120-200	11	28g	Roman soil west of S60
RMF 05(110)	1	Dr 29	c.AD.43-85	3	10	
		Dech 67	c.AD.70-110	2	8	rivetted
	2	Dr 18/31	c.AD.90-130	1	2	
	3	Dr 31	c.AD.150-200	1	10	Abraded
		Dr 36	c.AD.120-200	3	13	
		Misc		3	4	Abraded
	4	Misc	c.AD.150-250	1	2	Abraded
				14	49g	North side of S60
RMF 05(116)	1	Misc		1	1g	SW side of S60
RMF 05(118) = (61)	2	Misc	c.AD.90-130	1	1	
	3	Dr 37	c.AD.120-200	1		V abraded
		Misc		12	30	V abraded
				14	31g	Fill above round wall of S60
RMF 05(121)	3	Dr 33	c.AD.120-200	1	50	Fresh. Rosette stamp
		Dr 37	c.AD.120-200	2		Abraded
		Misc		14	28	Abraded
	4	Bowl	c.AD.150-250	1	11	Abraded
	5	Misc		2	1	Abraded
				20	90g	13mx4m layer between S42, S299 and F36

Context	Fabric	Form	Date-range	No of sherds	Wt in gm	Comments
RMF 05(125)	3	Dr 18/31-31	c.AD.120-200	1	1	Abraded
		Dr 36	c.AD.120-200	1	1	Abraded
		Misc		8	8	Abraded
				10	10g	Rubble layer east quad S60
RMF 05(127)	1	Dech 67	c.AD.70-110	1	1	
		Dr 18	c.AD.43-90	1	2	
		Misc		2	1	Abraded
				4	4g	Layer below 125
RMF	1a	Dr 37	c.AD.70-110	4	5	Fresh

05(129)	1b	Open form	c.AD.120-140	1	12	Fresh
	2b	Dech 67	c.AD.110-130	4	7	
	3	Dr 32	c.AD.160-200	1	3	
		Dr 27	c.AD.120-150	1	1	
		Misc		1	6	Burnt fresh
	4	Dr 37	c.AD.200-260	13	105	
				25	139g	Rubble layer above 198
RMF 05(130)	3	Closed form	c.AD.120-200	1	1	
		Dr 45	c.AD.170-200	1	4	
		Misc		2	9	Abraded
				4	14g	
RMF 05/06 (138)	3	Misc		1	3g	Rubble layer above entrance passage of S200
RMF 05 (143)	3	Misc		1	1g	Abraded flake. Roman soil layer 12m north of F36 east end
RMF 05 (144)	1	Misc	c.AD.43-110	1	3	
	2	Dech 64	c.AD.120-140	1	6	Abraded
				2	9g	Fill of F128 (Occupation level S60).East quad (sealed context)
RMF 05 (161)	1	Closed	c.AD.70-110	1	1	Fresh
	3	Closed	c.AD.150-200	2		
		Misc		3	10	
				6	11g	Roman soil layer SW of S59
RMF 05/06 (164)	2	Dr 18/31	c.AD.120-150	2	4	
	3	Misc	c.AD.120-200	4	9	Abraded
				6	13g	Rubble layer south of F75
RMF 05(189)	1	Dr 37	c.AD.70-100	3	10	Burnt
	3	Dr 31	c.AD.150-200	2	15	
		Dr 37	c.AD.150-200			
		Dr 37	c.AD.150-200	5	55	
		Dech 67	c.AD.110-130	8	100	As 129,199,205
		Misc		3	27	
	4	Dr 32	c.AD.160-260	2	20	
	5	Misc		1	1	
			c.AD.150-200	24	228g	Fill of feature 196 above 199
RMF 05(190)	3	Dr 37	c.AD.125-150	1	25	Burnt as 192,199,205
		Closed		2	1	
				3	26g	Fill of section cut on west side of F192 and Ditch 22
RMF 05(191)	3	Misc	c.AD.120-200	1	1g	Abraded. Layer in west quad of S60 above 202
RMF 05(198)	1	Dr 27	c.AD.43-110	1	2	
		Misc		4	6	Burnt
	4	Dr 37	c.AD.200-260	1	9	As 129 Abraded
			c.AD.200-260	6	17g	Layer below 129 interior S197
RMF 05(199)	1	Dr 29	c.AD.55-80			
		Dr 37	c.AD.70-100			
		Dr 37	c.AD.75-95	5	77	Fresh rivetted
	2	Dech 67	c.AD.110-130	8	20	Black. As 129,189,205

RMF 05(203)	3	Dr 18/31	c.AD.120-150	4	134	Fresh
		Dr 37	c.AD.125-150	11	114	Fresh but burnt. As 190,192, 205
		Dr 44a	c.AD.130-200	1	13	Fresh burnt
		Misc		2	6	
	3		c.AD.100-150	31	364g	Fill over Kiln 192
		Dr 37	c.AD.125-150	1	5	Burnt
		Misc		1	2	
				2	7g	Top fill of Ditch 22

Context	Fabric	Form	Date-range	No of sherds	Wt in gm	Comments
RMF 05(205)	1	Dr 37	c.AD.70-100	4	8	Fresh
	2	Dech 67	c.AD.110-130	1	1	Black as 129,189,199
	3	Dr 37	c.AD.125-150			Burnt fresh as 190,192,199
		Dr 37	c.AD.120-150			Riveted
		Dr 37	c.AD.150-200	24	355	
			c.AD.100-200	29	364g	Layer below F192 (sealed context)
RMF 05(209)	1	Dr 37	c.AD.70-85			Abraded
		Dech 67	c.AD.70-110	3	30	
	2	Dr 18/31	c.AD.90-120			
		Dr 37	c.AD.100-125	2	29	Abraded
	3	Dr 37	c.AD.135-165			
		Dr 37	c.AD.145-175	17	51	
RMF 05/06 (215) RMF 05/06 (223) RMF 05/06 (227) RMF 05/06 (245) RMF 05/06 (262) RMF 05/06 (271) RMF 05/06	4	Dr 37	c.AD.200-260	3	26	
				25	136g	Layer below 161
	3	Dr18/31	c.AD.120-150	1	1g	Abraded. Fill of Ditch 22 below 203
	3	Dr 18/31	c.AD.120-150	2	13g	Fresh. Layer below 202 S60 west quad
	3	Misc	c.AD.120-200	4	3g	Fresh. S60 North Quad of S60 above 236
	2	Dr 18/31 base	c.AD.90-120	1	13g	Fresh, burnt. Hearth in S60 North quad S60
	3	Dr 18/31	c.AD.120-150	10	160g	Fresh riveted ---ATIM. Clearing ares around F122 below 121
	2	Dr 37	c.AD.110-130	2	5g	Abraded. Riveted. Part of fill of section cut into F36 against eastern baulk
	3	Misc	c.AD.120-200	3	5g	Abraded. Fill of 276 associated with F122

(277)							
RMF	1	Dr 29	c.AD.65-85				
05/06		Dr 15/17	c.AD.43-85				
(285)		Dr 36	c.AD.70-110				
		Dr 18/31	c.AD.90-110				
		Misc		12	54		
				12	54g	Fill below ACs F77, S59	
RMF	1	Dr 36	c.AD.70-110	1	2g	Fresh. Fill below 303 S59	
05/06							
(304)							

POTTERY – Coarse Ware and Fine Ware (other than Samian): Section 4.4

by Christopher Sparey-Green

APPENDIX 1

CONTEXT DATING FROM POTTERY

From the fabrics and vessel forms the following analysis of context dating can be proposed. It should be noted, however, that some of the medieval contexts are identified purely on stratigraphic information, these contexts containing no identifiable post-Roman pottery.

PREHISTORIC

No certainly identified groups of pottery appear to be exclusively prehistoric. Scattered sherds were identified within Roman features.

LATE IRON AGE –ROMAN

Contexts of uncertain but probably Late Iron Age to Roman date

18, 32, 53, 62, 78, 100, 101, 106, 120, 140, 147, 211, 242, 251, 252, 255, 269, 271, 272, 313

LATE IRON AGE -EARLY ROMAN - Early to Mid First Century AD

Only contexts containing early pottery

30, 113, 144, 165, 185, 210, 234, 235, 239, 277, 291, 304, 315

EARLY- MIDDLE ROMAN - Mid First to Mid Third Century AD

Only contexts containing pottery of early or middle Roman period

126, 127, 132, 143, 162, 202, 205, 214, 215, 222, 223, 224, 236, 246, 293, 302, 308

LATE ROMAN – Mid Third to Late Fourth Century AD

Contexts containing Late Roman pottery

15, 16, 17, 19, 21, 24, 25, 33, 39, 56, 61, 63, 65, 66, 109, 109A, 110, 114, 116, 118, 119,

121, 123, 125, 129, 138, 161, 164, 176, 186, 189, 190, 191, 192, 198, 199, 209, 216, 227, 238, 245, 250, 262, 285

Within this group the following contained variants of Black Burnished Ware which may date to the Late Fourth or early Fifth century.

63, 66, 109a, 110, 129, 161, 189, 198, 209, 245

APPENDIX 2

DORSET BLACK BURNISHED CATEGORY 1

Summary of forms grouped by date and correlated with types as listed in Seager Smith and Davies 1993, 229-241. Exact correlations are not always possible and some types have been subdivided and occur more than once. Only the more complete vessel types are included.

Key -- IA - Iron Age

IA/R - Iron Age to Roman Period

LIA-ER- Late Iron Age to Early Roman - Early to Mid First Century AD

E-MR- Early to Middle Roman - Mid First to Late Second Century AD

M-LR- Middle to Late Roman - Late Second to Early Fourth Century AD

LR- Late Roman – Mid to Late Fourth Century AD

VLR – Late Fourth to Early Fifth Century Variants – forms possibly specific to this period.

Form	Description	Date	Type (Seager Smith & Davies 1993)
3.1-3.22	Bead rim bowls and jars	LIA/ER	7, 16, 32,
4.1-4.3;	Large bead-rim jars	L.IA/ER	1, 8
5.1-5.3;	Counter-sunk handle jar		1
6.1-6.8;	Upright-rimmed jars		5
7.1-7.6	Flat-rimmed jars		6
11.1-11.10	Shallow bowls or lids	IA/R	26,44
1; 8.1-8.9;	Bead-rim, carinated bowls	LIA/ER	42, 51, 15,33
9.1;10.1;	Lid-seated rim bowls		34

13.1-13.8 22.1	High-shouldered/ `S-profile' bowl Round-bottomed open bowl c.f. Hengistbury Head/ N Gallic wares		17
12.1-12.2	Handled tankards	LIA/ER	-----
14.1-21.1 23.1; 24-25	Imitation Samian & imported fine wares Imitation poppy head beaker Handles, imitation metal vessels	ER	13, 14, 30, 36, 39, 40, 54
28.1-28.12	Bead and everted rim jars	E-MR	2, 41, 62, 65
31.1-31.5	Counter-sunk handled jars	E-MR	4, 46
32.0 – 33.0, 37.0	Bead-rim dishes Flat-rimmed dish/bowls	E-MR	22 23, 24
49.1; 49.3; 49.15-49.17; 49.20; 49.21	Jar body sherds with variants of acute lattice burnished decoration	E-MR	D1,D3,D7, D33, D48
44.5, 44.6	Handled Jugs & Flagons, early form	E-MR	-----
29.0- 29.4	Tall, everted rim jar	LR	3
30.0	Flanged-rim jar	LR	11
31.3 – 31.5	Large, handled jars	LR	46,47,49
34.0 – 36.0	Shallow `Dog` dish,	E-LR	20, 21
38.0	Incipient flange rim bowl/dish	MR	59
39.0; 41.0	Flanged rim bowl/dish; Decorated/undecorated rims	LR	25
49.2; 49.18	Jar body sherds with obtuse lattice burnished decoration	LR	D2,
42.0; 43.0	Handled beakers	M-LR	9, 27
44.1,44.2,44.4	Handled Jugs	M-LR	29, 37, 66
45	Multi-handled flanged rim jar	LR	9
46.0, 46.1	Large, `Frimled Rim` storage jars; pierced, un-pierced	LR	12
47-48	Imitation New Forest Ware beaker and flask	LR	28, 56

27	Round-bottomed strainer bowl	LR	19
29.6 -29.12	Squat, everted rim jar	VLR	3,18
40.0	`Stubbed-Flange` rim dish/bowl	VLR	-----
44.3	Flasks, wavy comb-decorated	VLR	-----
49.10 –49.14; 49.19	Jar body sherds with diagonal/combed ornament	VLR	D8, D9, D11, D42
2.1-2.14; 50	Base Forms; body	-----	100-117

Table 1 (Total number of sherds) is incorporated within the printed text.

Tables 2 – 6 are Excel files in a separate folder on this CD.

Table 7 (Mortaria) is incorporated within the printed text.

Table 8: Amphorae and Flagons

The following catalogues all the sherds of amphorae and large flagon fabrics, as listed in the text.

Context	No. Sherds	WT. gms	Form	Fabric No	Min. No. of Vessels
12	1	90	Amphora body	20.1	1
15	1	15	Amphora body	114	1*
18	1	25	Amphora body	20.1	1
21	3	180	Amphora body	20.1	1
39	1	5	Amphora body	114	1
61	7	16	Amphora body	113	1+
61	2	15	Amphora body	114	1
61	4	35	Gaulish amphora body	119	1
61	4	22	Flagon body	120	1
61	4	101	Amphora body	20	1+
63	4	35	Gaulish amphora body	111	1

63	1	10	Amphora body	113	1
63	1	25	Flagon body?	115	1
66	1	23	Gaulish amphora body	111	1
109	1	162	Amphora body	20	1
109	2	50	Gaulish amphora body with lead rivet	111	1
109	1	13	Amphora body	114	1
109	4	16	Flagon body	120	1
109A	15	153	Flagon body	112	1+
109A	5	58	Flagon body	113	1
110	3	154	Flagon body	24	1
110	5	213	Amphora body + 2 ribbed handle	113	1+
110	2	10	Gaulish amphora body	119	1
114	8	60	Gaulish Amphora	111	1*
116	5	9	Gaulish amphora body	?111	1+
121	2	23	Amphora body	20	1
121	1	5	Flagon body	112	1
121	3	15	Amphora body	113	1
121	6	42	Amphora body	114	1
121	8	43	Flagon body	120	1
125	1	15	Flagon body	114	1
125	3	43	Flagon body	120	1
127	1	4	Amphora body	114	1
127	4	15	Gaulish amphora body	119	1
129	3	19	Gaulish amphora body	111	1
129	2	8	Amphora body	113	1
129	3	30	Amphora body	114	1
129	7	112	Flagon body	115	1+
138	1	65	Gaulish amphora –base	111	1
138	4	116	Amphora body	113	1
138	2	184	Amphora body	20.1	1
144	1	32	Amphora body	80	1
161	1	8	Gaulish amphora body	111	1

161	1	12	Body	115	1
161	1	29	Gaulish amphora body	119	1
164	10	46	Amphora body	113	1
189	8	53	Amphora body	20	1+
189	88	684	Gaulish amphora –body and rim	111	1*
189	4	12	Amphora body	113	1
189	6	34	Flagon body	115	1
189	20	93	Gaulish amphora body and handle	119	1+
189/199/ 205/238	10	165	Strap handle and ring neck of flagon	123	1+
190	17	80	Gaulish amphora- body	111	1*
191	2	13	Amphora body	113	1
198	2	110	Gaulish amphora ? – body	111	2
199	2	75	Amphora body	20.1	1+
199	20	127	Ring –neck flagon	120	1+
199	8	65	Gaulish amphora body	119	1
199	8	33	Flagon body	115	1
199	1	11	Gaulish amphora body	111	1
205	338	3345	Gaulish amphora – body & base	111	1*
205	12	25	Gaulish amphora body	119	1+
209	4	130	Amphora body	20.1	1
209	7	50	Amphora body	113	1
227	3	35	Amphora body	114	1*
236	6	20	Gaulish amphora body	119	1+
238	11	110	Gaulish amphora – body	111	1*
238	2	25	Flagon body	125	1
245	8	150	Amphora body	114	1*
262	4	25	Amphora body	113	1
302	17	305	Amphora body	113	1
302	10	300	Amphora body	20.1	1
TOTAL	768	8436			56

* Fragments of 1 vessel

+ Fragments of more than 1 vessel