

## Chapter 7: Tables

Table 7.1: Catalogue of human remains

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### Skeleton number: 15005

Archaeological context: Flexed inhumation within early Iron Age pit (15003). The individual lay on his right side, orientated east-west, facing north. No associated grave goods. The skeleton of a 36-37 week foetus (15131) was also buried within the pit. This crouched, individual lay immediately south of the feet of skeleton 15005.

Completeness: 75-85 % (feet missing through truncation)

Preservation: good

Age: 18-20 years

Sex: male

Stature: 1.69 m ± 0.02 m

Dental inventory:

k	k				k				k	k	k	k	k	k		
U																U
-	7	6	/	4	3	/	1	/	2	3	4	5	6	7	-	
-	7	6	5	4	3	2	1	/	2	3	4	5	6	7	-	
U																U
	k	k	k	k	k	k	k		k	k	k	k	k	k		

Dental Pathology: Moderate DEH (16/23), slight calculus 22/24, caries 0/24; AMTL 0/24, abscess 0/24, non-eruption of M3

Skeletal pathology: Active osteochondritis dissecans on left medial femoral condyle, healed lesion on medial left condyle; intervertebral osteochondrosis on T10-L5

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### Skeleton number: 15131

Archaeological context: Crouched inhumation of foetus placed within an early Iron Age pit (15003). Foetus orientated east-west, positioned on right side with head facing north. Skeleton 15005 was also buried within this pit immediately to the north. No grave goods.

Completeness: 70-80%

Preservation: good

Age: 36-37 week foetus

Sex: unknown

Skeletal pathology: nil noted

*Table 7.2: Distribution of animal bone between phases. \* small proportion of fragments probably dating to phase included*

<b>Data</b>	<b>LBA*</b>	<b>EIA*</b>	<b>MIA</b>	<b>IA</b>	<b>LIA/ER</b>	<b>R*</b>	<b>PM</b>	<b>Mod</b>	<b>U</b>	<b>Total</b>
Number of fragments	452	5190	2924	82	111	530	28	383	409	10115
Weight (g)	3934	23713	16171	70	1211	4215	81	1641	2325	53361

Table 7.3: Condition of the animal bone assemblage.\* small proportion of fragments probably dating to phase included

<b>Condition</b>	<b>LBA*</b>	<b>EIA*</b>	<b>MIA</b>	<b>IA</b>	<b>LIA/ER</b>	<b>R*</b>	<b>PM</b>	<b>Total</b>
Excellent	29%	24%	17%	16%	37%	24%	18%	21%
Good	50%	65%	67%	79%	59%	55%	36%	65%
Moderate	22%	10%	16%	4%	3%	18%	43%	13%
Poor	-	1%	-	1%	1%	4%	4%	1%
Very Poor	-	-	-	-	-	-	-	-
<b>Number of fragments</b>	<b>452</b>	<b>5190</b>	<b>2924</b>	<b>82</b>	<b>111</b>	<b>530</b>	<b>28</b>	<b>9780</b>

*Table 7.4: Frequency of gnawing, burning and recent breaks in bone fragments of each phase . \* small proportion of fragments probably dating to phase included*

<b>Phase</b>	<b>Number of fragments</b>	<b>Gnawed</b>	<b>Burnt</b>	<b>Recent breaks</b>
Late Bronze Age*	452	1%	2%	47%
Early Iron Age*	5190	3%	3%	21%
Middle Iron Age	2924	2%	2%	29%
Iron Age	82	-	7%	16%
Late Iron Age to early Roman	111	3%	1%	41%
Roman*	530	2%	1%	46%
Post-medieval	28	-	-	43%
<b>Total</b>	<b>10115</b>	<b>3%</b>	<b>2%</b>	<b>29%</b>



Table 7.6: Number of measured bones.\* *small proportion of fragments probably dating to phase included*

Phase	Cattle	Horse	Sheep	Sheep or goat	Pig	Dog	Wolf	Mallard	Total
Late Bronze Age	6	2		4		1	1		14
Early Iron Age*	19	3	-	15	9	2	-	3	51
Middle Iron Age	9	3	1	4	2	2	-	-	21
Iron Age	-	-	-	-	-	-	-	-	0
Late Iron Age to Early Roman	1	-	-	-	-	-	-	-	1
Roman	1	-	-	3	-	-	-	-	4
Post-medieval	1	-	-	-	-	-	-	-	1
Modern	3	-	-	-	-	-	-	-	3
Unphased	1	-	-	2	-	-	-	-	3
<b>Total</b>	<b>41</b>	<b>8</b>	<b>1</b>	<b>28</b>	<b>11</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>98</b>

Table 7.7: Late Bronze Age element representation. Trench 15 specimens are probably late Bronze Age in date

Element	Trench 14										Trench 15			
	Cattle	Horse	Large mammal	Large or medium mammal	Sheep or goat	Pig	Dog	Wolf	Medium mammal	Unidentified	Cattle	Pig	Medium mammal	Unidentified
Skull	1		1						1					
Tooth	5	2	2		12	4					1	1		
Mandible	2		5		2	2								
Hyoid					1									
Cervical vertebra	1													
Thoracic vertebra			1						2					
Vertebra			6						3					
Rib			11						10					
Ossified cartilage			1											
Scapula	2		7		3	1								
Humerus	6								1					
Radius	4				1		1		1					
Ulna	2				1									
Metacarpal	2				1									
Innominate	2		1											
Sacrum	1		1						1					
Femur	2	1												
Tibia	2		1		8				1					
Astragalus	2				3									
Calcaneum	4				1			1						
Metatarsal	4				2									
Flat bone			2	1					3					
Long bone			45	2					41					
Metapodial	2				1									
Phalanx I	2				1									
Phalanx II	1													
Unidentified			68	1	1				42	84			1	6
<b>Total</b>	<b>47</b>	<b>3</b>	<b>152</b>	<b>4</b>	<b>38</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>106</b>	<b>84</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>6</b>

Table 7.8: Early Iron Age element representation from Trench 14

Element	Cattle	Horse	Red deer	Large mammal	Large or medium mammal	Goat	Sheep	Sheep or goat	Pig	Dog	Medium mammal	Medium or small mammal	Rabbit	Small mammal	Mammal	Vole	Water vole	Rodent	Microfauna	Bird	Fish	Unidentified	
Antler			3																				
Horn core	3					3	6																7
Skull	7			20	8	1	7	15			87	3		4	5								
Maxilla	4			2			5	6			4												
Mandible	25			13	1		3	34	9		15				1	1							
Jaw				5	3		6	6			29				1								1
Tooth	51	4		8	2		5	119	24	7	5	1			2			1					2
Hyoid	1																						
Atlas	3						3	1															
Axis	1						3																
Cervical vertebra				3				3			3												
Thoracic vertebra				6				1			16												
Lumbar vertebra				4							16												
Vertebra				10	3						53			1					2				3
Rib				54	14		1				213	1		1	2								
Ossified cart.				1																			
Sternum											1												
Scapula	16	1		13	1		13	2			13												2
Humerus	7	1		1			9	4			4												
Radius	6						21	1			7												
Ulna	6			1			4		1														
Carpal	6						1																
Metacarpal	7						9																
Metacarpal III								2															
Metacarpal IV								1															
Innominate	3			4			10	2	1	2			3										
Sacrum								2			1												
Caudal vertebra											7												
Femur	3			1			4									1							
Patella											2												
Tibia	7			4			25	2			2												
Tibio-fibula																	1						
Fibula?								1						1									
Astragalus	5						2																
Calcaneum	4						7	1															
Navicular-cuboid	2						2																
Tarsal								1															
Metatarsal	6						9																
Metatarsal III								1															
Metatarsal IV								1															
Long bone		1		136	6		5	1			427	2		2	2					6			1
Metapodial	7	1		1			21	4	1														
Phalanx I	13						16	2															
Phalanx II	6						4	4															
Phalanx I/II	1																						
Phalanx III	1						5	2			1												
Indeterminate	4			113	59		3				293	10		2	1					1	5		477
<b>Total</b>	<b>205</b>	<b>8</b>	<b>3</b>	<b>400</b>	<b>97</b>	<b>4</b>	<b>8</b>	<b>354</b>	<b>93</b>	<b>10</b>	<b>1201</b>	<b>17</b>	<b>3</b>	<b>11</b>	<b>14</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>5</b>	<b>493</b>	



Table 7.9: Early Iron Age element representation from Trench 15

Element	Cattle	Horse	Large mammal	Large or medium mammal	Sheep	Sheep or goat	Pig	Dog	Medium mammal	Medium or small mammal	Rabbit	Small mammal	Vole	Rodent	Frog or toad	Microfauna	Mammal	Mallard	Bird	Unidentified
Skull			12	2	1		2	1	19								1			1
Maxilla	1					3			1				2							
Mandible	11	3	14	1		27	3		5				2				2			
Jaw			9				1		6											
Tooth	51	5	5		1	66	6	1	1				5	1						
Hyoid		1				2														
Atlas			1																	
Axis	1	2				1														
Cervical vertebra			1																	
Thoracic vertebra			3						4											
Lumbar vertebra									1											
Vertebra			1						19			1				1				
Rib			13			1			60		3	2								15
Scapula	4	2	12			1	1		5											
Humerus	7	2	2			5			1				1		7					
Radius	6					12	2									1		1		
Radioulna															6					
Radius and ulna		1																		
Ulna	3					2	1												1	
Carpal	2	1				2														
Carpo-metacarpus																			1	
Metacarpal	1					3														
Metacarpal III							1													
Innominate	4	1	6			6			1		1	2			2					
Sacrum			1																	
Femur	2				1	5							1		3					
Tibia	1		2			4	1						2			1				
Tibiofibula															2					
Astragalus						1														
Calcaneum						2														
Tarsal				1		1							1							
Metatarsal	3	1				4														
Metatarsal II								1												
Flat bone			27	2					14											33
Long bone			60			2			246	3					3	7	1		1	1
Carpal or tarsal	1																			
Metapodial	6					5	1						5							
Phalanx I	5					4	1													
Phalanx II	1					3			1											
Phalanx III	1					3														
Unknown			42						300	6			11			9	10		1	328
<b>Total</b>	<b>111</b>	<b>19</b>	<b>212</b>	<b>6</b>	<b>3</b>	<b>165</b>	<b>21</b>	<b>2</b>	<b>684</b>	<b>9</b>	<b>1</b>	<b>4</b>	<b>34</b>	<b>1</b>	<b>23</b>	<b>19</b>	<b>14</b>	<b>3</b>	<b>2</b>	<b>378</b>

Table 7.10: Early Iron Age element representation from Trench 19

Element	Cattle	Horse	Large mammal	Large or medium mammal	Sheep or goat	Pig	Dog	Medium mammal	Medium or small mammal	Small mammal	Vole	Microfauna	Unidentified
Horn core					1								
Skull		1	2					14					
Mandible	5				1								1
Tooth	5	1	1		14	2	1	1			2		
Axis			1										
Vertebra			1					1				1	
Rib								1					
Scapula	1		1										
Humerus	2												
Radius	2	1			1								
Metacarpal					1								
Femur					1								
Tibia			1										
Astragalus	1				2								
Flat bone			22	1				1					
Long bone			22	1				23				2	1
Metapodial		2											
Phalanx	1												
Sesamoid								1					
Unidentified			19	2				80	5	1		4	287
<b>Total</b>	<b>17</b>	<b>5</b>	<b>70</b>	<b>4</b>	<b>21</b>	<b>2</b>	<b>1</b>	<b>122</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>289</b>

Table 7.11: Middle Iron Age element representation from Trench 13

<b>Element</b>	<b>Cattle</b>	<b>Horse</b>	<b>Large mammal</b>	<b>Sheep or goat</b>	<b>Medium mammal</b>	<b>Vole</b>	<b>Unidentified</b>
Skull					1		
Mandible	56						
Jaw			28				
Tooth	34	1	1	2			
Rib			1		2		
Scapula	2						
Humerus	7					1	
Metacarpal	2						
Innominate	2						
Tibia				4			
Calcaneum	1						
Flat bone							
Long bone			14		9		
Metapodial	1						
Unidentified			126		3		7
<b>Total</b>	<b>105</b>	<b>1</b>	<b>170</b>	<b>6</b>	<b>15</b>	<b>1</b>	<b>7</b>

Table 7.12: Middle Iron Age element representation from Trench 15

Element	Cattle	Horse	Large mammal	Large or medium mammal	Sheep	Sheep or goat	Pig	Dog	Medium mammal	Medium or small mammal	Small mammal	Weasel	Mole	Vole	Rat	Rodent	Frog or toad	Cf. snake	Microfauna	Mammal	Fish	Goose	Bird	Unidentified
Skull	21	1	2	1	1	2	2	1	20	1	2						3		2		1			
Maxilla	3					3	1		1															
Mandible	13		8		1	19	2		9					1	1									
Jaw									16															
Tooth	18	2	6	1	1	41	3	4	1	1				6					3					1
Atlas		1																						
Axis	1		1																					
Cervical vertebra			1																					
Thoracic vertebra			2			1			6															
Lumbar vertebra			1						1															
Vertebra			3						11	1								9	41					
Rib			28	1		1			61		3								11					15
Scapula	7		8			4	4		4					1										
Humerus	6	1				4	1										9					1		
Radius	3	1				10			14				1			1								
Radioulnar																	8							
Ulna	2					5								1										
Carpal	1																							
Metacarpal	4	1			1	2																		
Innominate	1		4			4			1					1			10		2					
Caudal vertebra									1															
Femur						3						1		2			20							
Tibia	4					6			1					1										
Tibiofibula																	17							
Fibula								1																
Astragalus						1	1																	
Calcaneum						4	1																	
Tarsal	2																							
Metatarsal	3					3																		
Metatarsal III								1																
Flat bone			23						3															2
Long bone			78						141		2								10				2	1
Metapodial	3					9																		
Phalanx I	1					1																		
Phalanx II	1					3	1																	
Phalanx III						3																		
Unidentified			34						251	6									77	10				231
<b>Total</b>	<b>93</b>	<b>7</b>	<b>199</b>	<b>3</b>	<b>4</b>	<b>129</b>	<b>16</b>	<b>8</b>	<b>542</b>	<b>9</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>67</b>	<b>9</b>	<b>146</b>	<b>10</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>250</b>

Table 7.13: Middle Iron Age element representation from Trench 19

Element	Cattle	Horse	Large mammal	Large or medium mammal	Sheep	Sheep or goat	Pig	Dog	Medium mammal	Cat	Rabbit or hare	Small mammal	Rat?	Vole	Microfauna	Unidentified
Horn core						1										
Skull	1		1			1		1	30		1					
Maxilla	4						3	1								
Mandible	8		4	1		27	5	1								
Jaw						3			10							
Tooth	24	1	4	4	2	56	14	3	5	1				1		1
Atlas	2															
Axis			1			1										
Thoracic vertebra			2													
Lumbar vertebra			2						1							
Vertebra			2						3							
Rib			7						7			4				
Scapula	2		4			1	2		4							
Humerus	10		1				1		4							
Radius	4					4	1									
Ulna	4					2										
Carpal	4					1										
Metacarpal	2					1										
Innominate		9	2			2			1							
Caudal vertebra													1			
Femur	1													2		
Patella	1					1										
Tibia	1					4			1							
Astragalus	2					1										
Calcaneum	2					1										
Metatarsal	2	1				1										
Metatarsal III								1								
Flat bone			14						7							
Long bone			90	1					105			1				8
Metapodial						6										
Phalanx I	1	1				2	2									
Phalanx II	1						2									
Phalanx III							1									
Unidentified			41	2		1			234							308
<b>Total</b>	<b>76</b>	<b>12</b>	<b>175</b>	<b>8</b>	<b>2</b>	<b>117</b>	<b>31</b>	<b>7</b>	<b>412</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>8</b>	<b>309</b>

Table 7.14: Iron Age element representation

Element	Trench 15				Trench 19			
	Large mammal	Unidentified	Large mammal	Large or medium mammal	Sheep or goat	Medium mammal	Medium or small mammal	Unidentified
Skull							1	
Tooth					1	3		
Thoracic vertebra	1							
Rib	1		1			1		
Radius					1			
Carpal					11			
Flat bone						1		
Long bone	1		3		1	4		
Unidentified		7		2		6		36
<b>Total</b>	<b>3</b>	<b>7</b>	<b>4</b>	<b>2</b>	<b>14</b>	<b>15</b>	<b>1</b>	<b>36</b>

Table 7.15: Late Iron Age to early Roman element representation from Trench 15

Element	Cattle	Horse	Large mammal	Sheep or goat	Pig	Medium mammal	Unidentified
Skull			2		1	4	
Mandible				2			
Jaw						1	
Tooth	3			2			
Rib			1			1	
Humerus	1				1		
Radius	1			1			
Ulna	1			1			
Metacarpal	1			1			
Innominate			1				
Femur	1						
Tibia	1			2			
Calcaneum		1		1			
Metatarsal	1			1			
Flat bone			1				6
Long bone			8			17	
Metapodial	2			1			
Phalanx II					1	1	
Unidentified			4			35	
<b>Total</b>	<b>13</b>	<b>1</b>	<b>17</b>	<b>12</b>	<b>3</b>	<b>59</b>	<b>6</b>





Table 7.16: Roman element representation

Element	Trench 12			Trench 13										Trench 15											
	Cattle	Red deer	Large mammal	Cattle	Horse	Red deer	Large mammal	Sheep or goat	Medium mammal	Vole	Frog or toad	Microfauna	Unidentified	Cattle	Horse	Large mammal	Sheep	Sheep or goat	Pig	Dog	Medium mammal	Mammal	Unidentified		
Horn core							6																		
Skull														1		3		1	1				18		
Maxilla																			1						
Mandible				3	1									5	1	4	1	5	1		3				
Jaw							1									2									
Tooth		1		2			1	2		1				10			1	10	1						
Cervical vertebra			1		1		4																		
Atlas														1											
Axis				1										1											
Thoracic vertebra							1														1				
Lumbar vertebra							1																		
Vertebra							6					1										2			
Rib							7		2							2						15			
Scapula														1				2	1						
Humerus	1				1							1		4				3			1				
Radius			1											2				5		1					
Radioulna											1														
Ulna														1	1			2							
Carpal						1																			
Metacarpal														1				1							
Innominate				1												4									
Femur					1										1			2							
Tibia			10	1														5							
astragalus														1											
calcaneum								1																	
Metatarsal																		2		1					
Flat bone																12							2		
Long bone			3				17		9		2					19		6			35				
Metapodial																		4	1						
Phalanx I																		2							
Phalanx II					1													1	2						
Unidentified							64					6	38	1		13					82		13		
<b>Total</b>	<b>1</b>	<b>1</b>	<b>15</b>	<b>8</b>	<b>5</b>	<b>1</b>	<b>102</b>	<b>9</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>8</b>	<b>38</b>	<b>29</b>	<b>2</b>	<b>60</b>	<b>2</b>	<b>52</b>	<b>8</b>	<b>2</b>	<b>139</b>	<b>18</b>	<b>15</b>		

Table 7.17: Post-medieval element representation

Element	Trench 11	Trench 15							Trench 18	
	Large mammal	Cattle	Large mammal	Sheep or goat	Pig	Dog	Medium mammal	Mammal	Unidentified	Cattle
Skull							2			
Mandible			1							
Tooth				1	1	1		1		1
Rib			1							
Long bone	1						5		1	
Phalanx I				1						
Phalanx II		1								
Unidentified			2						8	
<b>Total</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>1</b>	<b>9</b>	<b>1</b>

Table 7.18: Modern element representation

Element	Trench 13						Trench 14				Trench 15							
	Cattle	Horse	Large mammal	Sheep or goat	Medium mammal	Unidentified	Large mammal	Sheep or goat	Medium mammal	Unidentified	Cattle	Large mammal	Sheep or goat	Pig	Dog	Medium mammal	Bird	Unidentified
Skull	1		1											1				
Maxilla														1				
Mandible	19						1			2	2						1	
Jaw			4					3										
Tooth	13	2	1	4			3		1	125		3						
Vertebra											1							
Rib											7	1			1			
Scapula	1																	
Radius										2		3						
Ulna										3								
Innominate											1							
Tibia										2								
Astragalus												1						
Flat bone				1							3							1
Long bone				5	9		7	4			8				11			
Metapodial														1				
Phalanx I										1								
Unidentified				60	9	23			2						4	13	9	
<b>Total</b>	<b>34</b>	<b>2</b>	<b>2</b>	<b>72</b>	<b>18</b>	<b>23</b>	<b>7</b>	<b>4</b>	<b>8</b>	<b>3</b>	<b>135</b>	<b>22</b>	<b>8</b>	<b>2</b>	<b>1</b>	<b>16</b>	<b>14</b>	<b>10</b>

Table 7.19: Epiphyseal fusion of cattle bones

Approx. age of fusion	Element	Late Bronze Age			Phase Early Iron Age			Middle Iron Age		
		F	UF	% F	F	UF	% F	F	UF	% F
7-10mths	scapula d	1			6			4		
<b>Total 7-10 months</b>		<b>1</b>	<b>0</b>	<b>100</b>	<b>6</b>	<b>0</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>100</b>
	humerus d	3			5			9	1	
18mths	radius p	2			9			3		
	ph1 p	1			14			2		
	ph2 p	1			6			2		
<b>Total 13-18months</b>		<b>7</b>	<b>0</b>	<b>100</b>	<b>34</b>		<b>100</b>	<b>16</b>	<b>1</b>	<b>94</b>
	metacarpal d				3			2		
2-3yrs	tibia d	2			3	1		3		
	metatarsal d				1	1		2		
<b>Total 2-3 years</b>		<b>2</b>	<b>0</b>	<b>100</b>	<b>7</b>	<b>2</b>	<b>78</b>	<b>7</b>	<b>0</b>	<b>100</b>
3.5yrs	calc p	1							1	
	femur p				2					
	humerus p				1	1		3	1	
	radius d	1	1			1				
3.5-4yrs	ulna p									
	femur d				1					
	tibia p				2	1		1		
<b>Total 3.5-4years</b>		<b>2</b>	<b>1</b>	<b>67</b>	<b>6</b>	<b>3</b>	<b>50</b>	<b>4</b>	<b>2</b>	<b>67</b>

Table 7.20: Cattle age-at-death from mandibular tooth wear (numbers of specimens)

<b>Age-at-death</b>	<b>EIA</b>	<b>MIA</b>	<b>R</b>	<b>PM</b>	<b>Mod</b>
1-8 months	1	1			
1 - 30 months		1			
8-18 months	2				1
8-30 months	1	1			
>8 months	1				
18-30 months	3	1			
18-36 months		1			
>18 months					
30-36 months		3			1
>30-36 months		1			
adult	1	3			
adult-senile		2	1		
old adult	1	2			
senile	1	2	1	1	
<b>Total</b>	<b>11</b>	<b>18</b>	<b>2</b>	<b>1</b>	<b>2</b>

Table 7.21: Epiphyseal fusion of sheep or goat bones

Approx. age of fusion	Element	Late Bronze Age			Phase Early Iron Age			Middle Iron Age		
		F	UF	% F	F	UF	% F	F	UF	% F
8 mths	scapula d				2	1				
10 mths	humerus d				9	1		1	1	
	radius p	1			7			1		
<b>Total &lt;10 months</b>		<b>1</b>		<b>100</b>	<b>18</b>	<b>2</b>	<b>90</b>	<b>2</b>	<b>1</b>	<b>67</b>
1.3 yrs	ph1 p		1		10	8				
	ph2 p				7			3		
2 yrs	metacarpal d				1	1			1	
	tibia d		2		2	1		3	3	
2.3 yrs	metatarsal d									
<b>Total 1.3-2.3 years</b>			<b>3</b>		<b>20</b>	<b>10</b>	<b>67</b>	<b>6</b>	<b>4</b>	<b>60</b>
2.5 yrs	ulna p				1	2		1	2	
	calc p				2	4		3	2	
3 yrs	femur p					5			3	
	radius d				1				2	
<b>Total 2.5-3 years</b>					<b>4</b>	<b>11</b>	<b>27</b>	<b>4</b>	<b>9</b>	<b>31</b>
	humerus p								1	
3.5yrs	femur d					3			1	
	tibia p		1		1	3		1		
<b>Total 3-3.5 years</b>			<b>1</b>	<b>0</b>	<b>1</b>	<b>6</b>	<b>14</b>	<b>1</b>	<b>2</b>	<b>33</b>

Table 7.22: Sheep or goat age-at-death from mandibular tooth wear (numbers of specimens). \*one element identified as sheep, \*\* two elements identified as sheep, \*\*\* three elements identified as sheep. EIA includes a >10 months old individual and a 3-20 month old individual from contexts probably dated to the EIA

<b>Age-at-death</b>	<b>EIA</b>	<b>MIA</b>	<b>LIA/ER</b>	<b>R</b>	<b>Mod</b>
neonate	1			1	
<1 month				1*	
1-3 months	1	1			
<3 months	1				
1-10 months	2*	1			
3-10 months	5***	3		1*	
<9-12 months	1				
>1-3 months	1				
3-20 months	7*	1*		1	
>3-5 months	1				
1-20 months	1				
10-20 months	3	2		1	
>10 months	2				
>18-24 months		1			
24-30 months			1		
20-34 months	1	14			1
3-5 years	2	1	1		
>3 years		1			
5-8 years	3	3			
>5 years	3	1			
>8 years	3				
<b>Total</b>	<b>38</b>	<b>29</b>	<b>2</b>	<b>5</b>	<b>1</b>

Table 7.23: Epiphyseal fusion of pig bones

Approx. age of fusion	Element	Phase					
		Early Iron Age			Middle Iron Age		
		F	UF	% F	F	UF	% F
1yr	scapula d	1	2		2		
	humerus d		2			1	
	radius p	2			1		
	ph2 p	4			3		
<b>Total 1 year</b>		<b>7</b>	<b>4</b>	<b>64</b>	<b>6</b>	<b>1</b>	<b>86</b>
2-2.25yrs	metacarpal d	1	2				
	metatarsal d	1					
	ph1 p	1	2			1	0
	tibia d	1	1				
	calc p		1				
<b>Total 2-2.5 years</b>		<b>4</b>	<b>6</b>	<b>40</b>	<b>0</b>	<b>1</b>	<b>0</b>
3.5yrs	humerus p		1	0			
	radius d						
	ulna p						
	femur p						
	femur d						
<b>Total 3.5 years</b>			<b>1</b>				



Table 7.24: Pig age-at-death from mandibular tooth wear (numbers of specimens)

<b>Age-at-death</b>	<b>LBA</b>	<b>EIA</b>	<b>MIA</b>
juvenile		1	
juvenile - immature			1
immature		2	
> juvenile (4-16 months)		1	
sub-adult		2	1
adult	1		
<b>Total</b>	<b>1</b>	<b>6</b>	<b>2</b>

Table 7.25: Animal bone from early Iron Age pits (number of fragments, listed by cut number)

Species	Trench 15										Trench 19			Total	
	15010	15012	15018	15021	15069	15125	15213	15231	15298	15301	15305	19002	19013		19128
Cattle	25	5	-	14	2	-	1	6	1	2	1	-	3	-	55
Horse	9	2	-	2	-	-	-	1	-	-	-	-	1	-	13
bird	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Large mammal	25	17	1	36	4	-	-	7	2	3	4	8	6	-	108
Large or medium mammal	-	-	-	2	-	2	-	-	-	-	-	-	-	-	4
Sheep	1	-	-	-	-	-	-	-	-	1	-	-	-	-	2
Sheep or goat	20	7	2	16	2	1	1	2	2	6	3	1	3	-	61
Pig	1	2	-	5	1	-	-	1	-	-	2	-	-	-	10
Dog	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Medium mammal	130	40	5	90	22	13	11	36	20	12	16	-	4	2	365
Medium or small mammal	-	-	-	3	-	-	-	-	-	1	-	-	-	-	4
Rabbit	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Small mammal	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Vole	-	-	-	-	-	-	-	-	33	-	-	-	-	-	33
Rodent	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Frog or toad	-	-	12	-	-	-	-	-	-	2	-	-	-	-	14
Microfauna	-	-	3	-	-	-	-	-	-	-	1	-	-	-	4
Mallard	-	-	-	-	-	-	-	-	-	-	3	-	-	-	3
Unidentified	25	27	2	28	3	62	-	-	-	15	1	5	3	-	171
<b>Total</b>	<b>238</b>	<b>100</b>	<b>26</b>	<b>198</b>	<b>34</b>	<b>78</b>	<b>13</b>	<b>53</b>	<b>58</b>	<b>42</b>	<b>31</b>	<b>14</b>	<b>20</b>	<b>2</b>	<b>852</b>
<b>Total weight</b>	<b>1848g</b>	<b>408g</b>	<b>17g</b>	<b>1390g</b>	<b>147g</b>	<b>29g</b>	<b>114g</b>	<b>375g</b>	<b>69g</b>	<b>326g</b>	<b>194g</b>	<b>74g</b>	<b>79g</b>	<b>2g</b>	<b>4701</b>
Includes bone from samples?	Yes	No	Yes	Yes	No	Yes	No	No	No	Yes	Yes				

Table 7.26: Animal bone from early Iron Age postholes (number of fragments, listed by cut number)

Species	Trench 14				Trench 15		Trench 19										Total
	1416	1419	1433	1436	15031	15091	19041	19042	19045	19047	19077	19079	19081	19083	19171	19177	
Cattle	-	-	-	1	6	-	-	-	-	-	-	-	1	1	1	-	10
Horse	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Large mammal	1	1	1	1	9	2	-	-	20	-	-	-	1	-	-	-	36
Sheep or goat	-	1	1	-	3	1	1	-	-	-	-	-	-	-	-	-	7
Pig	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Medium mammal	1	2	3	-	26	5	-	7	-	10	4	4	2	-	-	1	65
Medium or small mammal	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Small mammal	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Unidentified	-	1	-	3	1	-	-	-	-	-	-	1	1	-	-	-	7
<b>Total</b>	<b>2</b>	<b>9</b>	<b>5</b>	<b>5</b>	<b>45</b>	<b>8</b>	<b>1</b>	<b>7</b>	<b>20</b>	<b>11</b>	<b>5</b>	<b>6</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>135</b>
<b>Total Weight</b>	<b>16g</b>	<b>11g</b>	<b>6g</b>	<b>80g</b>	<b>161g</b>	<b>11g</b>	<b>1g</b>	<b>2g</b>	<b>46g</b>	<b>14g</b>	<b>4g</b>	<b>24g</b>	<b>155g</b>	<b>23g</b>	<b>20g</b>	<b>1g</b>	<b>579</b>

Table 7.27: Animal bone from early Iron Age gullies (number of fragments, listed by group number)

Species	Trench 15					Trench 19				Total
	15330	15331	15332	15333	Total	19011	19183	19184	19189	
Cattle	6	6	16	1	29	2	3			5
Horse			1		1	2			1	3
Large mammal	10	19	24	5	58	1	6		11	18
Large or medium mammal					-			2		4
Sheep or goat	6	11	55	1	73	1	8		6	15
Pig		1	5		6		1			1
Dog					-		1			1
Medium mammal	16	42	116	4	178	1	16	32	35	84
Medium or small mammal	5				5		5			5
Small mammal		1			1					-
Mammal		2			2					-
Vole					-		2			2
Frog or toad		2			2					-
Microfauna					-		7			7
Unidentified		6	23	1	30		274		2	276
<b>Total</b>	<b>43</b>	<b>90</b>	<b>240</b>	<b>12</b>	<b>385</b>	<b>7</b>	<b>325</b>	<b>34</b>	<b>55</b>	<b>421</b>

Table 7.28: Relative proportions of cattle, sheep or goat and pig in each trench and phase. Calculated using MNI (minimum number of individuals) and NISP (number of identified specimens). Phase totals also considered as a proportion sum for phase

Phase	Trench	Cattle		Sheep or goat		Pig		Total	
		NISP	MNI	NISP	MNI	NISP	MNI	NISP	MNI
Late Bronze Age	14	47	2	38	2	7	2	92	6
Late Bronze Age	15	1	1	0	0	1	1	2	2
<b>Late Bronze Age</b>	<b>Total</b>	<b>48 (51%)</b>	<b>3 (38%)</b>	<b>38 (40%)</b>	<b>2 (25%)</b>	<b>8 (9%)</b>	<b>3 (38%)</b>	<b>94</b>	<b>8</b>
Early Iron Age	14	205	8	366	9	93	3	664	20
Early Iron Age	15	111	4	168	4	21	1	300	9
Early Iron Age	19	17	2	21	2	2	1	40	5
<b>Early Iron Age</b>	<b>Total</b>	<b>333 (33%)</b>	<b>14 (41%)</b>	<b>555 (55%)</b>	<b>15 (44%)</b>	<b>116 (12%)</b>	<b>5 (15%)</b>	<b>1004</b>	<b>34</b>
Middle Iron Age	13	105	2	6	3	0	0	111	5
Middle Iron Age	15	93	4	133	6	16	2	242	12
Middle Iron Age	19	76	2	119	5	31	2	226	9
<b>Middle Iron Age</b>	<b>Total</b>	<b>274 (47%)</b>	<b>8 (31%)</b>	<b>258 (45%)</b>	<b>14 (54%)</b>	<b>47 (8%)</b>	<b>4 (15%)</b>	<b>579</b>	<b>26</b>
<b>Late Iron Age / early Roman</b>	<b>Total</b>	<b>13 (46%)</b>	<b>1 (20%)</b>	<b>12 (43%)</b>	<b>3 (60%)</b>	<b>3 (11%)</b>	<b>1 (20%)</b>	<b>27</b>	<b>5</b>
Roman	12	1	1	0	0	0	0	1	1
Roman	13	8	1	9	1	0	0	17	2
Roman	15	29	1	54	3	8	1	91	5
<b>Roman</b>	<b>Total</b>	<b>38 (35%)</b>	<b>3 (38%)</b>	<b>63 (58%)</b>	<b>4 (50%)</b>	<b>8 (7%)</b>	<b>1 (13%)</b>	<b>109</b>	<b>8</b>











Table 7.31: Pig bone measurement data following von den Driesch (1976). Measurements in mm

Phase	Context	Element	GL	Bp	Bd	SD	Glpe	B	LeP	MBS	DLS	Ld
EIA	1401	metatarsal IV		14.6				10.8	80.8			
EIA	1401	phalanx II	21.8	9	6.3	6.1						
EIA	1408	phalanx II	19.2	10	7.9	8.1						
EIA	1408	phalanx II	24.2	16.2	13.4	14						
EIA	1412	phalanx II	17.6	9.6	8	7.2						
EIA	1401	phalanx III								11.6	26.9	24.7
EIA?	15304	lateral phalanx I		8.5	5.9	5.9	18.8					
MIA	15065	phalanx II (lat)		8.2	5.9	5.9	18.5					
MIA	19114	phalanx III								10.6	25.3	24.8

*Table 7.32: Horse bone measurement data following von den Driesch (1976). Measurements in mm*

<b>Phase</b>	<b>Context</b>	<b>Element</b>	<b>Bp</b>	<b>BFp</b>	<b>Bd</b>
LBA	1435	femur			81.6
MIA	15023	radius	69.3	63.5	



*Table 7.34: Mallard bone measurement data following von den Driesch (1976). All bones unphased  
Measurements in mm*

<b>Phase</b>	<b>Context</b>	<b>Element</b>	<b>GL</b>	<b>Bp</b>	<b>Bd</b>	<b>DiD</b>
EIA?	15304	carpo-metacarpus	53.8	12.7		7.3
EIA?	15304	radius			6.9	
EIA?	15304	ulna				9.8

Table 7.35: Oyster shell

Context	SF No	Count	Weight(gr)	Phase	Comments
1401	3104	1	1	EIA	Bivalve shell. Unworked.
1401	3151	1	2	EIA	Bivalve shell. Unworked.
1401	4112	1	2	EIA	Oyster shell. Unworked.
1401	4175	1	2	EIA	Oyster shell. Unworked.
1401		1	4	EIA	Bivalve shell. Unworked.
1401		1	1	EIA	Oyster shell. Unworked.
1404		1	1	EIA	Oyster shell. Unworked.
1500		1	8	Topsoil	Oyster shell. Unworked.
15000		1	2	Topsoil	Oyster shell. Unworked.
15000		1	4	Topsoil	Oyster shell. Unworked.
15036		1	2	E/MIA	Bivalve shell. Unworked.
15037		3	7	E/MIA	Bivalve shells. Unworked.
15072		1	1	E/MIA	Oyster shell. Unworked.
15077		1	6	E/MIA	Oyster shell. Unworked.
15106		1	1	IA	Oyster shell. Unworked.
15160		1	6	Topsoil	Oyster shell. Unworked.
15160		1	3	Topsoil	Oyster shell. Unworked.
15163		1	5	E/MIA	Oyster shell. Unworked.
15300		1	8	E/MIA	Freshwater Mussel shell. Unworked.
<b>Total</b>		<b>21</b>	<b>66</b>		

*Table 7.36: Pit samples by phase from Trench 15*

<b>Period</b>	<b>Trench 15 pit samples</b>
Early Iron Age	15001, 15006, 15010, 15018 and 15019
Middle Iron Age	15002





Table 7.37: Charred plant remains from Trench 15

Sample	HABITAT CODE	15001	15006	15010	15018†	15019†	15002	
Context		15022	15124	15088	15297	15300	15067	
Feature		15021	15125	15010	15298	15301	15006	
Feature Type		Pit	Pit	Pit	Pit	Pit	Pit	
Period		EIA	EIA	EIA	EIA	EIA	MIA	
Sample Volume (litres)		40	40	20	40	40	2	
Seeds per litre		1.8	3.2	15.8	1.7	6.4	251.5	
Latin Binomial								English Common Name
<b>CEREAL GRAIN</b>								
Hordeum sp. – hulled, twisted	C	-	1	1	-	1	-	Hulled, twisted barley
Hordeum sp. – hulled, straight	C	-	-	-	-	-	1	Hulled, straight
Hordeum sp. – hulled	C	3	2	6	2	7	-	Hulled barley
Hordeum sp.	C	2	1	1	-	7	-	Barley
Triticum cf. dicocum Schübl.	C	-	-	1	-	-	-	Possible emmer wheat
Triticum dicocum Schübl./ spelta L.	C	17	10	46	5	19	4	Emmer or spelt wheat
Triticum spelta L.	C	3	6	18	2	5	4	Spelt wheat
Triticum sp. – indeterminate	C	-	-	-	-	-	-	Indeterminate wheat
Cereal – Indeterminate	C	15	20	25	12	48	5	Indeterminate cereal
<b>CEREAL CHAFF</b>								
Hordeum vulgare L. – rachis node	C	-	-	-	-	-	2	Six-row hulled barley
Triticum dicocum Schübl./ spelta L. – glume**	C	11	27	118	20	43	284	Emmer or spelt
Triticum spelta L. – glume	C	4	11	33	4	36	132	Spelt wheat
Triticum spp. – hexaploid basal rachis node	C	-	-	-	-	-	1	Bread or spelt
<b>WEED/ WILD PLANTS</b>								
Ranunculus acris L./ repens L./ bulbosus L.	G	-	-	1	-	1	-	Meadow/ creeping/ bulbous buttercup
Ranunculus parviflorus L.	o	-	1	-	-	-	-	Small-flowered buttercup
Chenopodium album L.	c/d Wa	1	-	-	2	-	-	Fat-hen
Montia fontana L. agg.	M	-	-	-	1	-	-	Blinks
Polygonum aviculare L.	A	-	1	-	1	-	-	Knotgrass



Table 7.37 (continued)

Sample	HABITAT CODE	15001	15006	15010	15018†	15019†	15002	
Context		15022	15124	15088	15297	15300	15067	
Feature		15021	15125	15010	15298	15301	15006	
Feature Type		Pit	Pit	Pit	Pit	Pit	Pit	
Peroid		EIA	EIA	EIA	EIA	EIA	MIA	
Sample Volume (litres)		40	40	20	40	40	2	
Seeds per litre		1.8	3.2	15.8	1.7	6.4	251.5	
<b>WEED/ WILD PLANTS continued...</b>								
<i>Rumex</i> spp.	-	-	9	6	2	1	-	Dock
<i>Crataegus monogyna</i> Jacq.	Wb S H	-	-	-	1	-	-	Hawthorn
<i>Vicia</i> spp./ <i>Lathyrus</i> spp.	-	-	11	24	1	5	-	Vetch or tare
cf. <i>Medicago lupulina</i> L.	G r	-	-	-	-	-	-	Possible black medick
<i>Galium aparine</i> L.	A	-	8	8	1	-	-	Cleaver
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.	A c/d	-	-	-	-	-	1	Scentless mayweed
<i>Carex</i> spp. – 3-sided	M	-	-	-	1	-	-	Sedge
<i>Avena</i> sp.	A	-	1	-	-	-	-	Wild or cultivated oat
<i>Bromus</i> spp.*	-	8	9	5	4	59	45	Brome grass
cf. <i>Bromus</i> spp.	-	7	9	18	8	22	22	Brome grass
POACEAE - indetermiante	-	-	-	2	-	1	2	Grass Family
Indeterminate	-	2	1	2	-	-	-	
<b>Total Identifications</b>		<b>73</b>	<b>128</b>	<b>315</b>	<b>67</b>	<b>255</b>	<b>503</b>	

† Sample contains some mineralised items. \**Bromus* spp. = *Bromus* Section Eubromus, but reflects nomenclature changes in Stace (1997). \*\* glume can indicate glume/ glume base or spikelet fork - however 2 glumes per spikelet fork are counted (pers. comm. M. Robinson).

Habitat Codes based on Stace (1997) and modified from M. Jones (1978) and Carruthers (1990):

A = weed of arable cultivation

H = plant of hedgerows

Wb = plant of woodland borders

c/d = preference for cultivated and disturbed ground

- = unassigned

C = cultivar

M = plant of marshy or very damp ground

Wa = plant of waste ground

o = preference for open, unshaded conditions

G = plant of grassland

S = plant of scrub

We = plant of shallow water, lakes, ponds, slow rivers

r = preference for rough ground



Table 7.38: The relative proportion of charred plant remains from early Iron Age – middle Iron Age deposits in Trench 15

**TRENCH 15 SAMPLES**

Sample	15001	15006	15010	15018	15019	15002
Context	15022	15124	15088	15297	15300	15067
Feature	15021	15125	15010	15298	15301	15006
Feature Type	pit	pit	pit	pit	pit	pit
Period	EIA	EIA	EIA	EIA	EIA	MIA

**TOTAL COUNT**

Cereal Grain	40	40	98	21	87	14
Cereal Chaff	15	38	151	24	79	419
Weed/ Wild Plants	16	49	64	22	89	70
Indeterminate	2	1	2	0	0	0
Total Identifications	73	128	315	67	255	503

**PROPORTION**

Cereal Grain	54.8%	31.3%	31.1%	31.3%	34.1%	2.8%
Cereal Chaff	20.5%	29.7%	47.9%	35.8%	31.0%	83.3%
Weed/ Wild Plants	21.9%	38.3%	20.3%	32.8%	34.9%	13.9%
Indeterminate	2.7%	0.8%	0.6%	0.0%	0.0%	0.0%


 = dominant plant category

Table 7.39: Percentage phytolith counts from Trench 14, section 2, Wittenham. Crosses denote the presence of morphotypes but counts yielded insufficient number for reliable percentage calculations

Depth (cm)	Layer	Round, Square, Oblong	Dumbell and Crosses	Saddle	Other grasses	Lig dicots	Cyperaceae	Corklike	Grass long cells	Dendriform	Other long cells	Hairs	Number
20	1413	+	+		+	+		+	+	+			32
30	1406	35	10	2	9	4	1	5	21	10	3	1	315
37	1407	29	6	1	5	2	0	4	30	17	2	4	300
50	1409	40	3	0	11	2	0	7	28	7	1	1	127

Table 7.40: Radiocarbon determinations for Trenches 13 and 14

Lab. No.	Context	Radiocarbon Age (BP)	$\delta^{13}\text{C}$ (‰)	Material	Context	Calibrated date range (95.4% Probability)
Poz-12517	1435	2680 ± 35	-21.1	Bone (wolf calcaneum)	Land surface beneath midden	900BC (95.4%) 790BC
Poz-12515	1302	2235 ± 30	-21.7	Bone (cattle mandible)	Bone deposit in upper fill of ditch	390BC (24.8%) 340BC 330BC (70.6%) 200BC
Poz-12516	1321	2275 ± 30	-23.9	Bone (cattle mandible)	Primary fill of ditch	400BC (51.1%) 340BC 300BC (44.3%) 200BC