

**Animal Economies and Islamic Conversion in Eastern Ethiopia:
Zooarchaeological Analyses from Harlaa, Harar and Ganda
Harla**

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Supplementary material

TABLE S2 Representation of the most common taxa from Harlaa Area B, Phase 2 by element

Taxon	<i>Bos indicus</i>	Large bovid	<i>Capra hircus</i>	<i>Ovis aries</i>	Small bovid	<i>Equus asinus</i>	<i>Equus caballus</i>	<i>Equus sp.</i>	<i>Camellus dromedarius</i>	Suids (all)	Large wild bovid	Small wild bovid	Medium mammal	Large mammal
Cranium	2	5	14	5	9	1	4	2		2	2		3	1
Horncore			1											
Maxilla	2	1	8	3	2						1			
Mandible	6	7	20	2	17		1	1	2		5	1	1	
Loose Teeth	18	10	23	9	41				4		3	2		
Hyoid		1			6									
Atlas		1	2	3	5		1	1	1		2	1		1
Axis		2	1		1				2		3	1		
Cervical Vertebrae	1	6			24	1	3	1	1	1	3		1	7
Thoracic Vertebrae	7	17			29						6			2
Lumbar Vertebrae		14			32	1		1					1	14
Caudal Vertebrae		4			7		3						4	7
Sacrum		1			8			1			1		1	3
Sternum		1			1								1	1
Ribs		37			12	2	3	4	3	1			274	104
Scapula	6	8	10	8	20			1	3	1	6	2	2	4
Humerus	7	8	20	9	37	1	2		1		7	2		2
Radius	6	8	31	9	23	2	3		1		9	2		4
Ulna	5	10	11		18						4	1		
Carpals	11	3	18	4	7			1	1		3	1		
Metacarpal	14	11	12	11	23		1		1		6	3		
Pelvis	13	14	22	8	19		2		4		8			4
Femur	17	12	20	8	33	1	1		6		11	2		4
Patella		2	5	3							4	2		2
Tibia	12	9	22	6	36	6		1	12		8	4		3
Astragalus	3	3	14	5	2				2		5	1		
Calcaneus	5	1	18	6	5			1			2			
Tarsals	11	3	5		11			1	1		4	2		
Sesamoid		6			1	1								
Metatarsal	14	12	7	5	20	1	1	1	1		8	5		
Phalanx 1	1	7	23	4	12	2			5	1	6			
Phalanx 2	1	6	9	8	4				1		2			
Phalanx 3		4	5	4	4						2	1		

TABLE S3 Representation of the most common taxa from Harlaa Area B, Phase 3 by element

Taxon	<i>Bos indicus</i>	Large bovid	<i>Capra hircus</i>	<i>Ovis aries</i>	Small bovid	<i>Equus asinus</i>	<i>Equus caballus</i>	<i>Equus sp.</i>	<i>Camellus dromedarius</i>	Suids (all)	Large wild bovid	Small wild bovid	Medium mammal	Large mammal
Cranium					1									
Horncore														
Maxilla				1							1			
Mandible					1	1								
Loose Teeth	3		3	1							1			
Hyoid														
Atlas			1											
Axis														
Cervical Vertebrae		2			2									
Thoracic Vertebrae		1			3									
Lumbar Vertebrae					3			1						
Caudal Vertebrae		1												3
Sacrum														
Sternum														
Ribs					4								11	1
Scapula					1									1
Humerus			2	1	1			1						
Radius		1									5			
Ulna		2	2	1	1									
Carpals														
Metacarpal					3									
Pelvis			1	1					1		1			
Femur	1	2	3	2	4						1			
Patella	1		1								1			
Tibia			1	1	3							1		1
Astragalus														
Calcaneus			1								1			
Tarsals			1		1						1			
Sesamoid														
Metatarsal					2						1			
Phalanx 1	1		2	1	1									
Phalanx 2	3	1		1	1									
Phalanx 3		1			1						1			

TABLE S5 Representation of the most common taxa from Harlaa Area B, Phase 5 by element

Taxon	<i>Bos indicus</i>	Large bovid	<i>Capra hircus</i>	<i>Ovis aries</i>	Small bovid	<i>Equus asinus</i>	<i>Equus caballus</i>	<i>Equus sp.</i>	<i>Camellus dromedarius</i>	Suids (all)	Large wild bovid	Small wild bovid	Medium mammal	Large mammal
Cranium		2	5	7	2									
Horncore	1		1											
Maxilla	1	2	2	1										
Mandible	3	5	6	1	5							1		
Loose Teeth	24	8	20	7	21	1					5	1		
Hyoid					2									
Atlas				3	1									
Axis		1			2									
Cervical Vertebrae		10			19	1		1						1
Thoracic Vertebrae	1	12			19						1			2
Lumbar Vertebrae		13			23		1	4			1			5
Caudal Vertebrae		3		1									1	3
Sacrum		1												
Sternum														
Ribs		10		2	13			2					138	64
Scapula	3	6	9	1	15	1	1							9
Humerus	4	12	6	4	16	1					5	1		
Radius	6	5	11	8	14	1		2		1	7	2		3
Ulna	2	4	7	1	6						1	1		
Carpals	4	4	5	3	1	1						2		
Metacarpal	4	9	6	5	12						2	1		
Pelvis	4	8	11	3	18	1		3	1		2	1	1	1
Femur	5	4	14	2	27		2	1			10	2		4
Patella	1	1	1	4	1									
Tibia	11	7	19	2	23	2		1			6			4
Astragalus	4	2	6	9	3						1			
Calcaneus	1	4	5	3	6						1			
Tarsals	3	1	2		7						1	1		
Sesamoid		1			1									
Metatarsal	7	8	5		11						7	6		
Phalanx 1	7	4	7	6	6						1			
Phalanx 2	8	2	5	7	2									
Phalanx 3	3	4	1	8							1			

TABLE S6 Representation of the most common taxa from Harlaa Area E by element

Taxon	<i>Bos indicus</i>	Large bovid	<i>Capra hircus</i>	<i>Ovis aries</i>	Small bovid	<i>Equus asinus</i>	<i>Equus caballus</i>	<i>Equus sp.</i>	<i>Camellus dromedarius</i>	Suids (all)	Large wild bovid	Small wild bovid	Medium mammal	Large mammal
Cranium	1	11	3	1	8						1	1		1
Horncore	1													
Maxilla	2		2	1	7						1			
Mandible	1	7	5	1	14						2			1
Loose Teeth	27	15	35	13	68						16	9		
Hyoid					10									
Atlas			1		3						1			
Axis	1		1		1									
Cervical Vertebrae		14			28			1						2
Thoracic Vertebrae	1	25			57			2			1		2	2
Lumbar Vertebrae		13			54		1	2			2		2	5
Caudal Vertebrae		4			8			1					2	3
Sacrum					5									1
Sternum		1												
Ribs		42			179	1		1		1	2		180	58
Scapula	1	6	3	3	11						3		1	2
Humerus	7	18	12	5	25	5	1	1		2	8	5		7
Radius	10	12	11	7	17	1	2				6	2		
Ulna		12	11		16						4			
Carpals	6	3	6	6	8	1					1	1		
Metacarpal	5	14	3		34						5	1		
Pelvis	5	12	10	6	21	1		1			1	1	1	4
Femur	16	9	14	9	49	2	2				7	2	1	3
Patella	1	1	4		1						3			2
Tibia	12	14	14	5	49	4					9	2		
Astragalus	4	2	8	6	3						3			
Calcaneus	1	3	7	2	6									
Tarsals	4	3	1		5						2			
Sesamoid		2			1									
Metatarsal	13	19	6	3	22			1			3	5		
Phalanx 1	5	10	14	9	13			1			1			
Phalanx 2	12	2	1	7	4						1			
Phalanx 3	3	2	2	3	5						2	1		

TABLE S8 Representation of the most common taxa from Harar by element

Taxon	<i>Bos indicus</i>	<i>Capra hircus</i>	<i>Ovis aries</i>	<i>Equus asinus</i>	<i>Equus caballus</i>	<i>Equus sp.</i>	<i>Camellus dromedarius</i>	Suids (all)	Large wild bovid	Small wild bovid	Medium mammal	Large mammal
Cranium		2							1	1		
Horncore												
Maxilla												
Mandible	1	2					1		1	1		1
Loose Teeth	8			1					5	1		
Hyoid												
Atlas					1							1
Axis												
Cervical Vertebrae				1						1		1
Thoracic Vertebrae	1								1			
Lumbar Vertebrae										1		3
Caudal Vertebrae												1
Sacrum												
Sternum												
Ribs				2							5	32
Scapula	1	2				1	1					6
Humerus	2	1	2		1			1		3		1
Radius	1							1				
Ulna	1		1			1						
Carpals	3											
Metacarpal				1					1			
Pelvis	2	1	1				1		1	2	1	
Femur	1	4		1	2					2		1
Patella	1											
Tibia	3	2		1	1	2			1			2
Astragalus												
Calcaneus									1			
Tarsals	1											
Sesamoid												
Metatarsal	4		2						2			
Phalanx 1	6	1	2									
Phalanx 2	4	1										
Phalanx 3									1			

TABLE S10 Distribution of unidentifiable fragments by fragment type and animal size class

Area	Animal size	Shaft		Flat bone		Cranial		Indeterminate	
		N	Weight	N	Weight	N	Weight	N	Weight
Harlaa B 1	Indeterminate							64	15.2g
	Medium mammal	65	50.2g	26	13.7g	11	10.0g		
	Large mammal	44	163.7g	37	40.3g	1	5.0g		
Harlaa B 2	Indeterminate							2275	871.3
	Small mammal	3	2.2g						
	Medium mammal	1416	1597.9g	888	748.3	587	510.7		
	Large mammal	511	2535.9g	779	1634.9g	48	191.6g		
Harlaa B 3	Indeterminate							76	20.2g
	Medium mammal	53	56.1g	36	23.5g	12	7.9g		
	Large mammal	38	178.8g	56	124.0g				
Harlaa B 4	Indeterminate							829	336.8g
	Small mammal	1	0.7g						
	Medium mammal	406	412.8g	221	176.5g	76	67.5g		
	Large mammal	157	724.0g	207	464.6g	29	98.6g		
Harlaa B 5	Indeterminate							844	231.7g
	Medium mammal	969	1026.6g	547	389.9g	244	279.2g		
	Large mammal	369	1929.5g	408	830.6g	13	74.3g		
Harlaa E	Indeterminate							3185	757.6g
	Medium mammal	2965	1868.1g	1810	742.3g	688	504.3g		
	Large mammal	1059	3860.0g	1216	1750g	87	240.5g		
Harlaa F	Indeterminate							634	113.6g
	Medium mammal	270	194.6g	212	79.0g	145	95.9g		
	Large mammal	90	339.3g	204	206.2g	29	69.5g		
Harar	Indeterminate							75	11.7g
	Medium mammal	34	31.8g	30	118.2g	1	1.6g		
	Large mammal	141	772.2g	172	290.4g	39	106.1g		
Ganda Harla	Indeterminate								
	Medium mammal					1	0.8g		

	Large mammal	13	136.3g	14	25.1g				
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