

APPENDIX FOUR. BODY PART CODES.

00	Indeterminate	33	Ulna*
01	Antler	34	Proximal Ulna
02	Cranium	35	Distal Ulna
03	Mandible	36	Metacarpal/Carpometacarpus*
04	Tooth Indeterminate	37	Proximal Metacarpal
05	Incisor	38	Distal Metacarpal
06	Canine	39	Carpals
07	Premolar	40	Femur*
08	Molar/Cheektooth	41	Proximal Femur
09	Vertebrate Indeterminate	42	Distal Femur
10	Atlas	43	Tibia/Tibiotarsus*
11	Axis	44	Proximal Tibia
12	Cervical	45	Distal Tibia
13	Thoracic	46	Fibula*
14	Lumbar	47	Proximal Fibula
15	Sacrum/Urostyle	48	Distal Fibula
16	Caudal	49	Metatarsal/Tarsometatarsis*
17	Ribs/Carapace	50	Proximal Metatarsal
18	Sternum/Plastron	51	Distal Metatarsal
19	Pectoral Girdle/Coracoid	52	Patella
20	Scapula	53	Tarsals
21	Pelvis (Complete)	54	Astragulus
22	Ilium	55	Calcaneus
23	Ischium	56	Metapodial*
24	Pubis	57	Proximal Metapodial
25	Acetabulum (60%)	58	Distal Metapodial
26	Longbone Indeterminate	59	Podial/Sesamoid Indeterminate
27	Humerus*	60	Phalange Indeterminate
28	Proximal Humerus	61	Proximal Phalange
29	Distal Humerus	62	Medial Phalange
30	Radius*	63	Terminal Phalange
31	Proximal Radius	64	Dermal Layer
32	Distal Radius		

* indicates that a category includes shaft or complete.

APPENDIX FIVE
BONE ELEMENT FREQUENCIES

APPENDIX FIVE. BONE ELEMENT FREQUENCIES.

Family Leporidae

SIDE	R	L	M	?
Antler/Horncore				
Cranium				
Mandible		1		
Tooth, Indeterminate				
Incisor				
Canine				
Premolar				
Molar				
Vertebrate, Indeterminate				
Atlas				
Axis				
Cervical			2	
Thoracic			3	
Lumbar			6	
Sacrum/Urostyle			2	
Caudal				
Ribs/Carapace		1		1
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula		1		1
Pelvis				
Complete	1	1		1
Ilium		2		
Ischium		2		1
Pubis				
Acetabulum	1			
Long Bone, Indeterminate				
Humerus, Complete				
Shaft		1		1
Proximal				
Distal		1		1
Radius, Complete				
Shaft				1
Proximal				
Distal				
Ulna, Complete				
Shaft				
Proximal				
Distal				

SIDE	R	L	M	?
Metacarpal/Carpometacarpus				
Complete				
Shaft				
Proximal				
Distal				
Carpals				
Femur, Complete				
Shaft		1		2
Proximal	3	1		1
Distal		2		4
Tibia/Tibiotarsus				
Complete				
Shaft	1			
Proximal		2		
Distal	1	1		1
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete				
Shaft				
Proximal				
Distal				
Tarsals				
Astragalus				
Calcaneus	1	1		
Metapodial, Complete				
Shaft				
Proximal				
Distal				
Sesamoid				
Phalanx, Indeterminate				
Proximal				
Middle				2
Terminal				
NISP		56		
MNI		1		

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Lepus sp.

SIDE	R	L	M	?
Antler/Horncore				
Cranium				
Mandible				
Tooth, Indeterminate				
Incisor				
Canine				
Premolar				
Molar				
Vertebrate, Indeterminate			1	
Atlas				
Axis				
Cervical			2	
Thoracic				
Lumbar			2	
Sacrum/Urostyle				
Caudal				
Ribs/Carapace				
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula	2			
Pelvis				
Complete				
Ilium				
Ischium				
Pubis				
Acetabulum		1		
Long Bone, Indeterminate				1
Humerus, Complete				
Shaft				
Proximal	1	1		
Distal	1	2		
Radius, Complete				
Shaft				2
Proximal				
Distal	1			
Ulna, Complete				
Shaft				
Proximal	1			
Distal				

SIDE	R	L	M	?
Metacarpal/Carpo-metacarpus				
Complete				
Shaft				
Proximal				
Distal				
Carpals				
Femur, Complete				1
Shaft				1
Proximal		1		
Distal	1	2		
Tibia/Tibiotarsus				
Complete				
Shaft	2	1		1
Proximal		1		
Distal		1		
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete				
Shaft				
Proximal				
Distal				
Tarsals				
Astragalus				
Calcaneus				
Metapodial, Complete				
Shaft				
Proximal				
Distal				
Sesamoid				
Phalanx, Indeterminate				
Proximal	1			1
Middle				
Terminal				
NISP		32		
MNI		1		

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Lepus californicus

SIDE	R	L	M	?
Antler/Horncore				
Cranium			2	
Mandible		1		
Tooth, Indeterminate				
Incisor				
Canine				
Premolar				
Molar				
Vertebrate, Indeterminate				
Atlas				
Axis				
Cervical			2	
Thoracic				
Lumbar			1	
Sacrum/Urostyle				
Caudal			1	
Ribs/Carapace		1	1	2
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula		1		
Pelvis				
Complete				
Ilium	2			
Ischium	1			
Pubis				
Acetabulum	1			
Long Bone, Indeterminate				
Humerus, Complete				
Shaft				
Proximal	2	1		
Distal	3	4		
Radius, Complete				
Shaft	2			
Proximal	2			
Distal	1			
Ulna, Complete				
Shaft				
Proximal	1			
Distal				

SIDE	R	L	M	?
Metacarpal/Carpoacetacarpus				
Complete				
Shaft				
Proximal				
Distal				
Carpals				1
Femur, Complete				
Shaft				
Proximal	1	2		1
Distal	1			
Tibia/Tibiotarsus				
Complete				
Shaft	1	1		
Proximal	1			
Distal		1		
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete		1		
Shaft				
Proximal				1
Distal				2
Tarsals				
Astragalus				
Calcaneus	3	3		
Metapodial, Complete				
Shaft				
Proximal				
Distal				
Sesamoid				
Phalanx, Indeterminate				
Proximal	1			1
Middle				
Terminal				
NISP		54		
MNI		4		

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Lepus cf. californicus

SIDE	R	L	M	?
Antler/Horncore				
Cranium				
Mandible				
Tooth, Indeterminate				
Incisor				
Canine				
Premolar				
Molar				
Vertebrate, Indeterminate				
Atlas				
Axis				
Cervical				
Thoracic				
Lumbar				
Sacrum/Urostyle				
Caudal				
Ribs/Carapace	1			1
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula				
Pelvis				
Complete				
Ilium				
Ischium				
Pubis				
Acetabulum				
Long Bone, Indeterminate				
Humerus, Complete				
Shaft	1			
Proximal				
Distal				
Radius, Complete				
Shaft				
Proximal				
Distal				
Ulna, Complete				2
Shaft				
Proximal				
Distal				

SIDE	R	L	M	?
Metacarpal/Carpometacarpus				
Complete				
Shaft				
Proximal				
Distal				
Carpals				
Femur, Complete	1			
Shaft				
Proximal				
Distal	1			
Tibia/Tibiotarsus				
Complete				
Shaft				
Proximal		1		
Distal				
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete				
Shaft				
Proximal				
Distal				
Tarsals				
Astragalus				
Calcaneus				
Metapodial, Complete				
Shaft				
Proximal				
Distal				
Sesamoid				
Phalanx, Indeterminate				
Proximal				
Middle				
Terminal				
NISP		8		
MNI		-		

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Sylvilagus sp.

SIDE	R	L	M	?
Antler/Horncore				
Cranium		2	10	2
Mandible	5	12		
Tooth, Indeterminate				
Incisor				
Canine				
Premolar	1			
Molar	1		2	
Vertebrate, Indeterminate				
Atlas			1	
Axis			1	
Cervical			2	
Thoracic			1	
Lumbar			9	
Sacrum/Urostyle			9	
Caudal				
Ribs/Carapace				1
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula		2		
Pelvis				
Complete	8	3		
Ilium	3	7		
Ischium	5	4		
Pubis				
Acetabulum	3			
Long Bone, Indeterminate	1			
Humerus, Complete	1	2		
Shaft	1	2		
Proximal	4	3		
Distal	6	7		
Radius, Complete				
Shaft	1			
Proximal	3	2		
Distal	3			
Ulna, Complete	1	1		
Shaft				
Proximal	2	2		
Distal				

SIDE	R	L	M	?
Metacarpal/Carpometacarpus				
Complete				1
Shaft				
Proximal				
Distal				1
Carpals				
Femur, Complete	4			
Shaft	5			
Proximal	2	4		1
Distal	3	5		
Tibia/Tibiotarsus				
Complete	2	1		
Shaft	2	3		1
Proximal	1	4		
Distal	4	2		
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete	1	1		
Shaft				
Proximal				
Distal				2
Tarsals				
Astragalus				1
Calcaneus	6	8		
Metapodial, Complete				
Shaft				
Proximal				
Distal				
Sesamoid				
Phalanx, Indeterminate				
Proximal	1			2
Middle				1
Terminal				
NISP	205			
MNI	12			

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Citellus variegatus

SIDE	R	L	M	?
Antler/Horncore				
Cranium			2	
Mandible	1	1		
Tooth, Indeterminate				
Incisor				
Canine				
Premolar				
Molar				
Vertebrate, Indeterminate				2
Atlas				
Axis				
Cervical				
Thoracic				
Lumbar				
Sacrum/Urostyle				
Caudal				5
Ribs/Carapace				
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula	1	1		
Pelvis				
Complete				
Ilium				
Ischium				
Pubis				
Acetabulum				
Long Bone, Indeterminate				
Humerus, Complete		1		
Shaft				
Proximal				
Distal				
Radius, Complete				
Shaft				
Proximal				
Distal				
Ulna, Complete	1			
Shaft				
Proximal				
Distal				

SIDE	R	L	M	?
Metacarpal/Carpometacarpus				
Complete				
Shaft				
Proximal				
Distal				
Carpals				
Femur, Complete				
Shaft				
Proximal				
Distal				
Tibia/Tibiotarsus				
Complete				
Shaft				
Proximal				
Distal				
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete				3
Shaft				
Proximal				
Distal				
Tarsals				
Astragalus				
Calcaneus		1		
Metapodial, Complete				
Shaft				
Proximal				
Distal				
Sesamoid				
Phalanx, Indeterminate				
Proximal				3
Middle				2
Terminal				1
NISP		25		
MNI		2		

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Sciurus sp.

SIDE	R	L	M	?
Antler/Horncore				
Cranium			1	
Mandible				
Tooth, Indeterminate				
Incisor				
Canine				
Premolar				1
Molar				1
Vertebrate, Indeterminate				
Atlas				
Axis				
Cervical				
Thoracic				
Lumbar				
Sacrum/Urostyle				
Caudal				
Ribs/Carapace				
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula	1			
Pelvis				
Complete				
Ilium				
Ischium				
Pubis				
Acetabulum				
Long Bone, Indeterminate				
Humerus, Complete	1	1		
Shaft				
Proximal				
Distal	1			
Radius, Complete				
Shaft				
Proximal				
Distal				
Ulna, Complete				
Shaft				
Proximal				
Distal				

SIDE	R	L	M	?
Metacarpal/Carpometacarpus				
Complete				
Shaft				
Proximal				
Distal				
Carpals				
Femur, Complete				
Shaft				
Proximal				
Distal				
Tibia/Tibiotarsus				1
Complete				
Shaft				
Proximal				
Distal				
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete				
Shaft				
Proximal				
Distal				
Tarsals				
Astragalus				
Calcaneus				
Metapodial, Complete				
Shaft				
Proximal				
Distal				
Sesamoid				
Phalanx, Indeterminate				
Proximal				
Middle				
Terminal				
NISP		8		
MNI		1		

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Thomomys sp.

SIDE	R	L	M	?
Antler/Horncore				
Cranium			1	
Mandible	4	3		
Tooth, Indeterminate				
Incisor			1	
Canine				
Premolar				
Molar				
Vertebrate, Indeterminate				
Atlas				
Axis				
Cervical				
Thoracic				
Lumbar				
Sacrum/Urostyle				
Caudal				
Ribs/Carapace				
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula				
Pelvis				
Complete	1			
Ilium				
Ischium				
Pubis				
Acetabulum				
Long Bone, Indeterminate				
Humerus, Complete	2			
Shaft				
Proximal				
Distal				
Radius, Complete				
Shaft				
Proximal				
Distal				
Ulna, Complete				
Shaft				
Proximal				
Distal				

SIDE	R	L	M	?
Metacarpal/Carpometacarpus				
Complete				
Shaft				
Proximal				
Distal				
Carpals				
Femur, Complete	1	2		
Shaft	1			
Proximal				
Distal				
Tibia/Tibiotarsus	1			
Complete				
Shaft				
Proximal				
Distal		1		
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete				
Shaft				
Proximal				
Distal				
Tarsals				
Astragalus				
Calcaneus				
Metapodial, Complete				
Shaft				
Proximal				
Distal				
Sesamoid				
Phalanx, Indeterminate				
Proximal				
Middle				
Terminal				
NISP		18		
MNI		4		

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Thomomys bottee

SIDE	R	L	M	?
Antler/Horncore				
Cranium			1	
Mandible	3	2		
Tooth, Indeterminate				
Incisor				
Canine				
Premolar				
Molar				
Vertebrate, Indeterminate				
Atlas				
Axis				
Cervical				
Thoracic				
Lumbar				
Sacrum/Urostyle				
Caudal				
Ribs/Carapace				
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula				
Pelvis				
Complete				
Ilium				
Ischium				
Pubis				
Acetabulum				
Long Bone, Indeterminate				
Humerus, Complete		1		
Shaft				
Proximal				
Distal				
Radius, Complete				
Shaft				
Proximal				
Distal				
Ulna, Complete				
Shaft				
Proximal				
Distal				

SIDE	R	L	M	?
Metacarpal/Carpometacarpus				
Complete				
Shaft				
Proximal				
Distal				
Carpals				
Femur, Complete				
Shaft				
Proximal				
Distal				
Tibia/Tibiotarsus				
Complete				
Shaft				
Proximal				
Distal				
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete				
Shaft				
Proximal				
Distal				
Tarsals				
Astragalus				
Calcaneus				
Metapodial, Complete				
Shaft				
Proximal				
Distal				
Sesamoid				
Phalanx, Indeterminate				
Proximal				
Middle				
Terminal				
NISP		4		
MNI		-		

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Neotoma sp.

SIDE	R	L	M	?
Antler/Horncore				
Cranium			2	
Mandible		2		
Tooth, Indeterminate				
Incisor				
Canine				
Prenolar	1			
Molar				
Vertebrate, Indeterminate				
Atlas				
Axis				
Cervical				
Thoracic				
Lumbar				
Sacrum/Urostyle				
Caudal				
Ribs/Carapace				
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula	1			
Pelvis				
Complete	3	1		
Ilium				
Ischium				
Pubis				
Acetabulum				
Long Bone, Indeterminate				
Humerus, Complete				
Shaft				
Proximal				
Distal		1		
Radius, Complete				
Shaft				
Proximal				
Distal				
Ulna, Complete				
Shaft				
Proximal				
Distal				

SIDE	R	L	M	?
Metacarpal/Carpometacarpus				
Complete				
Shaft				
Proximal				
Distal				
Carpals				
Femur, Complete	3	1		
Shaft				
Proximal				
Distal				
Tibia/Tibiotarsus				
Complete		2		
Shaft				
Proximal		1		
Distal				
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete				
Shaft				
Proximal				
Distal				
Tarsals				
Astragalus				
Calcaneus				
Metapodial, Complete				
Shaft				
Proximal				
Distal				
Sesamoid				
Phalanx, Indeterminate				
Proximal				
Middle				
Terminal				
NISP		18		
MNI		-		

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Order Artiodactyla

SIDE	R	L	M	?
Antler/Horncore	1			2
Cranium			2	1
Mandible	3	2		9
Tooth, Indeterminate				30
Incisor				
Canine				
Premolar				1
Molar				
Vertebrate, Indeterminate			5	
Atlas			4	
Axis				
Cervical			5	
Thoracic			8	
Lumbar			9	
Sacrum/Urostyle			1	
Caudal				
Ribs/Carapace			13	
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula	1			1
Pelvis				
Complete				13
Ilium		1		
Ischium		1		1
Pubis				
Acetabulum	1			
Long Bone, Indeterminate				
Humerus, Complete		1		
Shaft				3
Proximal	1			3
Distal	1			1
Radius, Complete				
Shaft	1			
Proximal				
Distal	1			
Ulna, Complete				
Shaft				
Proximal		1		
Distal				

SIDE	R	L	M	?
Metacarpal/Carpometacarpus				
Complete				
Shaft				1
Proximal				
Distal				
Carpals				3
Femur, Complete	1			
Shaft	1			2
Proximal	1			
Distal				
Tibia/Tibiotarsus				
Complete				1
Shaft	2	3		
Proximal	1	1		2
Distal		1		
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete				
Shaft				
Proximal				
Distal				
Tarsals				
Astragalus		1		1
Calcaneus		1		
Metapodial, Complete				3
Shaft				5
Proximal				
Distal				2
Sesamoid				8
Phalanx, Indeterminate				1
Proximal				11
Middle				3
Terminal				3
NISP		187		
MNI		-		

APPENDIX FIVE. BONE ELEMENT FREQUENCIES. (Continued)

Odocoileus sp.

SIDE	R	L	M	?
Antler/Horncore	1	1		14
Cranium	3	1	1	1
Mandible	1	1		2
Tooth, Indeterminate				1
Incisor				
Canine				
Premolar				
Molar				
Vertebrate, Indeterminate				
Atlas			1	
Axis				
Cervical				
Thoracic			4	
Lumbar			4	
Sacrum/Urostyle				
Caudal				
Ribs/Carapace	1	2		
Sternum/Plastron				
Pectoral Girdle/Coracoid				
Scapula	2			
Pelvis				
Complete	1			
Ilium	1			
Ischium				1
Pubis				
Acetabulum	1			1
Long Bone, Indeterminate				
Humerus, Complete				
Shaft	1			
Proximal	1			
Distal	1	1		
Radius, Complete				
Shaft				
Proximal	1			
Distal	2	1		
Ulna, Complete				
Shaft				
Proximal	1			
Distal	1			

SIDE	R	L	M	?
Metacarpal/Carpometacarpus				
Complete				2
Shaft				
Proximal				
Distal				
Carpals	4			4
Femur, Complete				
Shaft				
Proximal				
Distal				
Tibia/Tibiotarsus				
Complete				
Shaft				1
Proximal		3		
Distal		1		
Fibula, Complete				
Shaft				
Proximal				
Distal				
Metatarsal/Tarsometatarsus				
Complete				
Shaft				
Proximal				
Distal				
Tarsals				
Astragalus		1		
Calcaneus		1		
Metapodial, Complete				
Shaft				
Proximal				
Distal				1
Sesamoid				
Phalanx, Indeterminate				
Proximal				11
Middle				4
Terminal				5
NISP		94		
MNI		-		