

4.2 Appendix 1. Measurements

Sheep measurements (von den Driesch 1976; Davis 1992)

Phase	Element	Measurement
	DP4	W
EIA		6.1
		5.6
		6.4
		5.7
		5.8
		5.7
		5.9
		5.8
		5.7
		5.5
		5.6
		6.6
		6.5
		6.0
		6.1
		6.0
		6.2
		5.6
		5.7
		6.2
		5.8
		5.4
		5.7
		6.2
		6.0
		5.5
		5.9
EIA	Mean	5.9
	SD	0.3
	n	27
MIA		5.7
		5.6
		6.0
		6.0
		5.7
		6.6
		6.0
		5.8
		5.9
		6.2
		5.8
		5.7
		5.7
		6.0
		5.8
MIA	Mean	5.9
	SD	0.2
	n	15

LIA		6.3
		6.3
		6.0
		6.3
		5.6
		6.5
		5.6
		6.1
		5.9
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LIA	Mean	6.1
	SD	0.3
	n	9
LIA/RB		6.5
		6.6
		6.0
		6.4
		6.1
		6.0
<hr/>		
LIA/RB	Mean	6.3
	SD	0.3
	n	6
RB		6.2
		6.0
		6.3
		6.4
		6.0
		5.9
		6.2
		6.0
		5.9
		5.5
		5.8
		5.7
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RB	Mean	6.0
	SD	0.3
	n	12
<hr/>		
ALL	Mean	6.0
	SD	0.3
	n	69
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Phase	Element	Measurement
	M1	W
VEIA		6.9
EIA		7.2
		6.5
		6.4
		6.7
		6.5
		5.9
		6.2
		7.1
		6.3
		6.4

6.9
7.3
6.8
6.8
7.2
6.2
6.2
6.1
6.6
6.5
6.6
6.6
7.9
6.4
6.4
5.9
6.9
6.4

EIA	Mean	6.6
	SD	0.4
	n	27

MIA
6.1
6.3
6.5
6.6
6.5
6.6
6.2
6.3
6.5
6.0
5.9
6.5

MIA	Mean	6.3
	SD	0.2
	n	12

LIA
6.7
7.1
6.6
6.0
7.2
7.1
5.9
6.4
6.7
6.3
7.3
6.8

LIA	Mean	6.7
	SD	0.5
	n	12

LIA/RB
6.4
6.7
6.7

		7.1
		6.7
		6.5
		7.0
LIA/RB	Mean	6.7
	SD	0.2
	n	7
RB		6.1
		6.1
		6.8
		6.9
		6.8
		7.1
		6.9
		6.0
RB	Mean	6.6
	SD	0.5
	n	8
ALL	Mean	6.6
	SD	0.4
	n	67

Phase	Element M2	Measurement W
EIA		7.1
		7.1
		7.9
		7.1
		7.6
		8.4
		7.9
		7.1
		8.0
		7.8
		6.8
		6.9
		8.5
		6.9
		7.3
EIA	Mean	7.5
	SD	0.6
	n	15
MIA		7.3
		7.0
		7.0
		6.8
		7.9
		7.2
MIA	Mean	7.2
	SD	0.4
	n	6
LIA		7.2
		7.3

		7.4
		7.0
		7.1
		6.5
		7.1
		7.1
		7.4
<hr/>		
LIA	Mean	7.1
	SD	0.3
	n	9
LIA/RB		6.7
		6.9
		7.2
		7.7
		7.1
		7.1
<hr/>		
LIA/RB	Mean	7.1
	SD	0.3
	n	6
RB		7.4
		6.8
		8.5
		7.7
		7.4
		7.9
		7.0
		7.4
		7.4
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RB	Mean	7.5
	SD	0.5
	n	9
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ALL	Mean	7.3
	SD	0.5
	n	45
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Phase	Element	Measurement
	M3	W
VEIA		7.7
		7.7
		7.5
EIA		7.0
		7.4
		7.2
		7.8
		8.1
		8.2
		6.6
		7.8
		7.6
		7.9
		7.1
		8.2
		8.1

7.1
8.3
7.9
7.7
7.6
7.8
8.3
7.1
7.7
8.1
7.8
8.6
7.6
8.4
6.9
7.4

EIA	Mean	7.7
	SD	0.5
	n	28

MIA		7.2
		7.0
		8.1
		7.8
		7.0
		7.8
		7.8
		7.3
		7.9
		7.6
		7.9
		7.6
		7.7
		8.4
		8.2
		8.1
		6.2
		7.8
		7.4

MIA	Mean	7.6
	SD	0.5
	n	19

LIA		7.6
		7.7
		7.0
		7.8
		7.7
		7.1
		7.9
		8.1
		6.9
		7.1
		6.7
		7.3
		7.8

LIA	Mean	7.4
	SD	0.4
	n	13
LIA/RB		8.0
		7.6
		7.9
		8.2
		7.4
		8.2
		7.3
		6.9
		6.7
		7.2
LIA/RB	Mean	7.5
	SD	0.5
	n	10
RB		7.7
		7.4
		8.3
		7.1
		7.7
		7.9
		7.7
		7.4
		7.7
		8.1
		8.6
		7.6
RB	Mean	7.8
	SD	0.4
	n	12
ALL	Mean	7.6
	SD	0.5
	n	86

Phase	Element Scapula	Measurement SLC
EIA		15.3
		15.1
		15.0
		12.9
		15.1
		14.4
		14.9
		13.7
		14.1
		16.9
		14.8
		15.2
		15.1
EIA	Mean	14.8
	SD	1.0
	n	13
MIA		15.5
LIA		14.3
		16.9
LIA/RB		14.3
RB		18.8
		18.8
		14.7
		19.5
		14.5
		16.1
RB	Mean	17.1
	SD	2.3
	n	6
ALL	Mean	15.5
	SD	1.7
	n	26.0

Phase	Element Humerus	Measurement							
		GL	SD	BT	HT	HTC	GLC	Bd	
EIA				23.5		11.8		24.2	
				20.9	13.4	10.5		22.9	
				24.1	15.8	11.6			
						12.4		26.0	
				24.9	15.2	12.6		25.7	
				25.3		11.7		26.5	
				26.3		12.8		26.6	
				25.6	17.0	12.8		26.4	
				25.2	17.2	13.1		24.9	
				23.7	15.6	11.6		23.8	
			11.8						
	EIA	Mean			24.4	15.7	12.1		25.2
		SD			1.6	1.4	0.8		1.4
N				9	6	10		9	
LIA/RB			25.6	16.5	12.5		26.5		
RB		11.1							
							23.6		
				23.8					
				22.8	14.9	11.8		24.9	
				28.8	17.3	13.9		29.0	
				29.0	17.8	14.3		29.3	
			12.3	23.7	15.8	11.7		24.5	
		116.4	11.9	23.1	14.5	11.7	110.9	24.7	
RB	Mean			25.2	16.1	12.7		26.0	
	SD			2.9	1.4	1.3		2.5	
	N			6	5	5		6	
ALL	Mean		11.8	24.8	15.9	12.3		25.6	
	SD		0.5	2.1	1.3	0.9		1.8	
	n		4.0	16.0	12.0	16.0		16.0	

Phase	Element Pelvis	Measurement SBPu	SHPu	LA
EIA				24.2
				25.4
LIA				28.6
RB				28.1
		12.5	6.9	
		12.7	7.2	
		11.8	7.9	
		12.0	7.5	28.4
		12.3	7.0	
RB	Mean	12.3	7.3	
	SD	0.4	0.4	
	n	5	5	
ALL	Mean	12.3	7.3	26.9
	SD	0.4	0.4	2.0
	n	5.0	5.0	5.0

Phase	Element Femur	Measurement SD	BD
EIA		10.7	
		11.5	31.0
			30.2
LIA		13.2	
MIA			
RB		11.2	
			31.3
		12.8	

Phase	Element Tibia	Measurement SD	Bd	Dd
EIA		11.1		
		8.2		
		11.2		
		10.3		
		11.0		
		10.0		
		11.7		
		13.2		
		12.6		
		14.0		
		11.6	21.6	17.2
			21.9	16.6
		12.1	23.0	17.8
		11.3	21.6	16.9
EIA	Mean	11.4	22.0	17.1
	SD	1.4	0.7	0.5
	n	13	4	4
MIA		10.7		
		10.9		
		10.9		
LIA		12.0		
LIA/RB		12.1		
RB		12.6	23.1	18.4
		11.9		
ALL	Mean	11.5	22.2	17.4
	SD	1.2	0.7	0.7
	n	20.0	5.0	5.0

Cattle measurements (von den Driesch 1976; Davis 1992)

Phase	Element	Measurement	
		DP4	W
EIA		23.8	12.3
			9.1
			12.8
			12.4
		30.2	
			12.3
			13.1
			14.0
			22.1
			12.4
EIA	Mean	25.4	12.3
	SD	4.3	1.4
	n	3.0	8.0
LIA		22.4	11.4
LIA/RB			11.2
RB			12.7
		24.3	12.4
		21.9	11.8
		23.0	12.1
		22.5	12.1
			12.9
		25.1	12.1
RB	Mean	23.3	12.3
	SD	1.3	0.4
	n	5.0	7.0
ALL	Mean	23.9	12.2
	SD	2.6	1.0
	n	10.0	16.0

Phase	Element	Measurement	
		M1	W
EIA		11.7	
		14.4	
		14.8	
		10.8	
		15.3	
		14.2	
		15.6	
		13.9	
		13.0	
EIA	Mean	13.7	
	SD	1.6	
	n	9.0	
MIA		14.6	
		12.7	
		14.5	
		15.2	
		15.9	
MIA	Mean	14.6	

	SD	1.2
	n	5.0
LIA		14.2
		14.3
		14.2
		15.3
		13.8
		14.0
LIA	Mean	14.3
	SD	0.5
	n	6.0

Phase	Element	Measurement
	M1	W
LIA/RB		14.3
		15.8
		12.6
RB		13.9
		14.0
		12.6
		12.7
		14.1
		13.6
RB	Mean	13.5
	SD	0.7
	n	6.0
ALL	Mean	14.0
	SD	1.2
	n	29.0

Phase	Element	Measurement
	M2	W
EIA		15.3
		16.3
		15.8
		16.4
		14.8
		12.2
EIA	Mean	15.1
	SD	1.5
	n	6.0
MIA		14.2
		11.8
		16.2
		15.0
		16.9
MIA	Mean	14.8
	SD	2.0
	n	5.0
LIA		15.6
		14.7
		15.0

		14.9
		16.2
		14.1
		16.1
		14.5
LIA	Mean	15.1
	SD	0.8
	n	8.0
LIA/RB		13.8
		15.7
		13.0
RB		12.0
		12.5
		14.9
		13.7
		14.5
RB	Mean	13.5
	SD	1.2
	n	5.0
ALL	Mean	14.7
	SD	1.4
	n	27.0

Phase	Element	Measurement
	M3	W
VEIA		16.1
		16.0
EIA		15.1
		15.3
		14.3
		16.3
		14.6
		16.1
		13.9
		11.7
		14.6
EIA	Mean	14.7
	SD	1.4
	n	9.0
MIA		15.3
		15.3
		14.5
		15.3
		15.0
		14.5
		14.7
		16.4
		15.8
		15.6
MIA	Mean	15.2
	SD	0.6
	n	10.0
LIA		14.7

		12.3
		15.1
		13.9
		14.8
		14.1
		15.9
		14.7
		15.8
		14.6
		14.7
		15.7
LIA	Mean	14.7
	SD	1.0
	n	12.0
LIA/RB		15.5
		13.8
		14.2
		12.6
LIA/RB	Mean	14.0
	SD	1.2
	n	4.0
RB		15.0
		15.6
		15.0
		12.9
RB	Mean	14.6
	SD	1.2
	n	4.0
ALL	Mean	14.8
	SD	1.1
	n	41.0

Phase	Element Scapula	Measurement SLC
EIA		41.9
		48.2
MIA		45.1
		44.3
LIA		45.9
		48.9
RB		45.4
		42.9
ALL	Mean	45.3
	SD	2.4
	n	8

Phase	Element Humerus	Measurement				
		SD	BT	HT	HTC	Bd
EIA		25.9				
			67.0		29.3	76.4
		29.8	65.2	44.2	26.6	
			66.7	44.0	29.5	70.5
			66.9	42.1	30.4	72.9
		59.6				
		64.8	40.1	29.7		
EIA	Mean		65.0	42.6	29.1	
	SD		2.8	1.9	1.4	
	n		6	4	5	
MIA		28.3	64.0		27.3	
		26.2				
LIA					32.1	
			68.9		32.1	80.5
			71.9	48.7	31.7	
			64.7	40.9	27.7	72.3
RB		25.8				
			61.8	39.1	27.5	62.6
			66.7	40.9	31.0	71.9
ALL	Mean	27.2	65.7	42.5	29.6	72.4
	SD	1.8	3.2	3.1	1.9	5.5
	n	5	12	8	12	7

Phase	Element Radius	Measurement				
		SD	Bp	BFp	Bd	LI
EIA			70.5	65.1		
			65.7	60.9		
			70.6	64.9		
				65.1		
			72.3	66.9		
		32.0				
EIA	Mean		69.8	64.6		
	SD		2.8	2.2		
	n		4	5		
MIA		34.1				
			65.8	60.4		
			73.9	67.2		
					67.3	63.1
LIA			73.9	67.7		
		32.7		61.2	37.5	
		41.1	79.1	71.2		
		31.1		61.9		
		70.0	66.3			
				66.2	65.7	
LIA	Mean			65.2		
	SD			4.6		
	n			5		
LIA/RB RB		34.8	79.2	71.9		
			71.1	66.1		
			76.0	68.8		
			67.3	63.5		
ALL	Mean	34.3	71.9	65.6		
	SD	3.6	4.4	3.5		
	n	6	13	11		

Phase	Element Metacarpal	Measurement		Bp	BatF	Bd	1.0	2	3	4	5	6	a	b
		GL	SD											
EIA			27.0											
				57.4										
				30.1										
				32.5	53.5									
			26.6											
EIA	Mean		29.1											
	SD		2.8											
	n		4											
MIA			30.2											
				47.7	54.5	21.0	28.5	26.7	23.4	28.9	27.0			
			33.9	56.5										
				49.5										
				45.3	52.0	21.1	28.4	25.6	20.0	27.8	27.0	24.4	22.7	
LIA			27.2											
			28.2											
		169.9	32.1	53.7			22.6	28.1	25.8				24.9	
LIA/RB			28.3	54.1										
				51.0	58.1	22.8	27.9	25.2	22.1	27.1	24.5	26.9	26.3	
				42.8	48.9	20.7	26.6	23.8	18.6	26.3	24.3	23.5	23.1	
		161.2	26.2	47.7	50.2	55.8	24.2	30.3	27.0	22.2	28.8	26.4	26.8	23.8
RB														
ALL	Mean		29.3	53.2	47.4	53.9	22.0	28.3	25.7	21.2	27.8	25.8	25.3	24.0
	SD		2.6	3.5	3.4	3.5	1.4	1.2	1.1	1.9	1.1	1.3	1.5	1.6
	n		11	7	5	5	6	6	6	5	5	5	5	4

Phase	Element Pelvis	Measurement	
		LAR	LA
EIA			66.9
		48.6	61.9
			58.2
MIA			63.2
			61.0
LIA		46.6	62.1
RB			54.8
		44.7	55.4
ALL	Mean		60.4
	SD		4.1
	n		8

Phase	Element Femur	Measurement	
		SD	BD
EIA		28.7	
			85.6
		31.1	80.6
EIA	Mean		
	SD		
	n		
LIA		26.2	
ALL	Mean		
	SD		
	n		

Phase	Element	Measurement			
		Tibia	SD	Bp	Bd
VEIA				54.7	42.3
EIA				54.6	40.0
		29.4			
				52.0	38.0
				52.9	43.5
				58.2	40.8
				52.4	38.6
EIA	Mean			54.1	40.5
	SD			2.3	2.1
	n			6	6
MIA				59.0	43.7
LIA				56.7	45.6
				52.7	38.0
RB				61.1	43.0
		30.7			
ALL	Mean			55.4	41.3
	SD			3.2	2.6
	n			10	10

Phase	Element	Measurement			
		Astragalus	GLI	GLm	DI
VEIA		59.2	53.9	33.6	39.2
		58.1	53.2	34.1	37.1
EIA		60.0	54.4	33.7	39.8
		61.8	55.9	33.7	38.5
		54.7	50.9	31.3	34.6
		58.4	52.9	32.6	38.0
EIA	Mean	58.7	53.5	32.8	37.7
	SD	3.0	2.1	1.1	2.2
	n	4	4	4	4
MIA		52.6	48.3	30.6	35.6
LIA		61.8	56.0	34.2	37.6
		58.3	53.1	34.3	35.3
		59.7	54.2	32.5	42.1
RB		59.2	51.7	33.3	39.0
		62.7	57.2	36.7	41.9
		58.6	53.5	31.4	36.2
ALL	Mean	58.8	53.5	33.2	38.1
	SD	2.8	2.3	1.6	2.4
	n	11	11	11	11

Pig measurements (von den Driesch 1976; Payne and Bull 1988)

Phase	Element DP4	Measurement	
		L	WA
EIA		18.0	9.0
		18.0	8.2
		17.2	8.8
MIA		16.0	8.1
		16.0	8.0
LIA		20.0	8.6
RB		16.5	8.1
ALL	Mean	17.4	8.4
	SD	1.4	0.4
	n	7.0	7.0

Phase	Element M1	Measurement	
		L	WA
EIA		10.4	10.5
		9.9	10.4
MIA		10.0	10.6
		9.5	10.1
LIA		10.2	10.9
LIA/RB		9.7	10.2
ALL	Mean	9.9	10.5
	SD	0.3	0.3
	n	6.0	6.0

Phase	Element M2	Measurement	
		L	WA
MIA		12.5	13.3
		12.4	12.9
LIA		13.5	13.5
LIA/RB		13.4	14.1
		12.3	13.3
RB		12.8	13.0
		14.3	14.2
ALL	Mean	13.0	13.5
	SD	0.8	0.5
	n	7.0	7.0

Phase	Element M3	Measurement		
		L	WA	WC
MIA		16.7	8.2	6.1
		31.7	16.0	12.1
LIA/RB		32.4	14.7	15.0
RB		34.1	16.8	10.5
		32.0	15.3	14.5
		34.9	15.1	14.8
ALL	Mean	30.3	14.4	12.2

	SD	6.8	3.1	3.4
	n	6.0	6.0	6.0

Phase	Element	Measurement
	Scapula	SLC
EIA		20.9
		18.1
		21.2
MIA		24.1
		23.6
		22.4
LIA/RB		24.4
ALL	Mean	22.1
	SD	2.2
	n	7

Phase	Element	Measurement			
	Humerus	SD	BT	HTC	Bd
EIA			24.3		
		13.6			
MIA		13.0	26.4	15.2	32.1

Phase	Element	Measurement	
	Pelvis	LAR	LA
RB		30.0	35.6

Phase	Element	Measurement			
	Astragalus	GLI	GLm	DI	Bd
EIA		35.2	33.1	21.8	21.5

Horse measurements (von den Driesch 1976)

Phase	Element	Measurement		
		P3	L	W
EIA			27.3	17.3
MIA			31.3	15.5
			24.7	17.0
RB			31.0	12.8
ALL	Mean		28.6	15.6
	SD		3.2	2.1
	n		4	4

Phase	Element	Measurement		
		P4	L	W
EIA			26.3	16.7
LIA			29.9	15.1
MIA			24.6	17.6
			30.0	15.7
			23.1	17.5
ALL	Mean		26.8	16.5
	SD		3.1	1.1
	n		5	5

Phase	Element	Measurement		
		M1	L	W
EIA			23.6	15.1
MIA			22.8	16.3
			31.4	15.6
			19.7	15.7
			22.1	17.6
ALL	Mean		23.9	16.1
	SD		4.4	1.0
	n		5.0	5.0

Phase	Element	Measurement		
		M2	L	W
EIA			22.5	15.5
MIA			23.3	15.5
			22.7	15.1
			23.3	15.9
ALL	Mean		22.9	15.5
	SD		0.4	0.3
	n		4.0	4.0

Phase	Element	Measurement		
		M3	L	W
EIA			34.7	13.4
			31.4	12.0
			28.1	11.8
			32.3	13.6

		30.8	13.6
EIA	Mean	31.4	12.9
	SD	2.4	0.9
	n	5.0	5.0
MIA		31.9	16.6
		31.5	16.1
		32.5	13.8
		31.7	15.0
MIA	Mean	31.9	15.4
	SD	0.4	1.3
	n	4.0	4.0
LIA		23.3	11.1
		28.4	16.8
RB		26.3	17.7
		29.2	14.6
ALL	Mean	30.2	14.3
	SD	3.0	2.1
	n	13.0	13.0

Phase	Element Scapula	Measurement SLC
EIA		52.9
		62.4
MIA		56.7
		52.6
		50.3
		53.1
MIA	Mean	53.2
	SD	2.7
	n	4
LIA		48.4
ALL	Mean	53.8
	SD	4.6
	n	7

Phase	Element Humerus	Measurement SD	BT	HT	HTC	Bd
VEIA			63.6		31.1	
EIA		29.5				
			65.4		32.2	67.8
		28.8	65.0	42.6	30.5	76.1
		27.2	64.6	43.5	30.2	68.7
		27.7	61.6		32.9	64.2
		31.2				
EIA	Mean	28.9	64.1	43.1	31.4	69.2
	SD	1.6	1.7	0.7	1.3	5.0
	n	5	4	2	4	4
MIA					34.7	72.1
					33.9	69.4
		27.1				
		21.6				
LIA			60.9	39.0	31.0	61.2
RB					34.4	76.8
ALL	Mean	27.6	63.5		32.3	69.5
	SD	3.0	1.9		1.7	5.4
	n	7	6		9	8

Phase	Element Radius	Measurement						
		GL	SD	Bp	BFp	Bd	LI	BFd
VEIA			33.8	76.2	68.7			
EIA			31.1					
						68.2		60.5
		295.0	30.6	70.8	65.4	64.5	285.0	54.9
		296.0	30.2	70.9	64.9	65.3	287.0	53.9
						63.6		38.5
EIA	Mean		30.6			65.4		52.0
	SD		0.5			2.0		9.4
	n		3			4		4
MIA			24.8					
				72.2	67.0			
		282.0	30.2	67.4	61.8	36.0	265.0	52.2
				75.9	69.9			
				71.5	66.1			
		282.0					268.0	
				67.5	62.7			
		313.0	33.4	75.4	67.4	70.2	303.0	60.2
		307.0	35.2	71.9	65.1	66.2	295.0	55.4
MIA	Mean	296.0	30.9	71.7	65.7		282.8	
	SD	16.4	4.6	3.4	2.8		19.1	
	n	4.0	4.0	7.0	7.0		4.0	
LIA			24.5					
LIA/RB		311.0	32.5	74.9	69.4	67.3	295.0	58.4
RB						63.5		52.2
		315.0	33.5			69.3		58.2
ALL	Mean	300.1	30.9	72.3	66.2	63.4	285.4	54.4
	SD	13.4	3.5	3.1	2.6	9.9	14.2	6.4
	n	8	11	11	11	10	7	10

Phase	Element Metacarpal	Measurement							
		GL	SD	Bp	BatF	Bd	GLI	LI	Dp
EIA		201.0	27.9	42.5	42.4	43.7	198.0	195.0	28.0
		201.8	27.9	42.8	41.7	43.4	198.8	194.4	27.8
			27.4						
MIA		191.1	30.2	44.5	42.5	44.5	183.5	188.7	30.0
LIA			22.0						
LIA/RB		188.0	27.9	41.7	40.1	41.8	185.2	182.1	26.3
RB			29.3	46.0					31.7
					43.3	43.2			
				41.2					
ALL	Mean	195.5	27.5	43.1	42.0	43.3	191.4	190.0	28.8
	SD	7.0	2.6	1.8	1.2	1.0	8.1	6.0	2.1
	n	4	7	6	5	5	4	4	5

Phase	Element Pelvis	Measurement	
		LAR	LA
EIA		57.3	60.7
			55.6
			49.8
			55.9
EIA	Mean		55.5
	SD		4.4
	n		4
MIA			47.0
			58.3
LIA/RB		56.2	50.5
		54.8	52.4
ALL	Mean		53.8
	SD		4.6
	n		8

Phase	Element Femur	Measurement			
		GL	GLC	SD	Bd
EIA				21.6	75.6
				34.1	78.5
				32.3	
MIA		337.0	305.0	35.0	78.0
ALL	Mean			30.8	
	SD			6.2	
	n			4	

Phase	Element Tibia	Measurement					
		GL	SD	Bp	Bd	Dd	LI
EIA		305.0	33.3	77.8	57.2	37.7	275.0
MIA		323.0	36.7		64.5		
			33.2				
					63.6	39.9	
					66.6	38.3	
			33.7		62.6	39.5	
MIA	Mean				64.3		
	SD				1.7		
	n				4		
LIA			31.9		56.9	34.0	
RB			33.2				
					60.8	36.9	
ALL	Mean		33.7		61.8	37.7	
	SD		1.6		3.7	2.1	
	n		6		7	6	

Phase	Element Astragalus	Measurement			
		GH	LmT	GB	BFd
VEIA		53.1	53.9	52.4	46.0
EIA		49.3	49.9	52.8	46.2
		51.5	53.7	56.4	46.2
MIA		49.3	51.0	54.0	42.1
LIA		44.2	43.7	47.6	42.0
LIA/RB		52.7	55.8	53.3	47.0
RB		44.8	46.0	47.0	39.0
		48.1	48.9	51.2	42.1
		53.5	56.2	53.5	45.1
		53.2	52.4	56.0	45.9
		48.0	50.6	52.1	42.6
RB	Mean	49.5	50.8	52.0	42.9
	SD	3.8	3.8	3.3	2.7
	n	5.0	5.0	5.0	5.0
ALL	Mean	49.8	51.1	52.4	44.0
	SD	3.3	3.9	3.0	2.6
	n	11	11	11	11

Phase	Element Metatarsal	Measurement							
		GL	SD	Bp	BatF	Bd	GLI	LI	Dp
EIA		240.0	25.6		41.4	42.9	237.0	233.0	32.3
		240.0	25.4	43.9	41.3	42.8	238.0	235.0	38.4
MIA		230.0	27.9	45.8	42.7	44.0	215.0	211.0	37.4
				43.4					
LIA			23.2	37.9					34.3
				46.8					40.5
LIA/RB					41.8	42.6			
			27.5	45.3					40.6
RB			23.6						
ALL	Mean		25.5	43.9	41.8	43.1			37.3
	SD		1.9	3.2	0.7	0.7			3.4
	n		6	6	4	4			6

Phase	Element Phalanx 1	Measurement							
		GL	SD	Bp	BFp	Dp	Bd	BFd	
EIA		82.1	34.8	53.5	48.6	36.4	47.3	42.7	
MIA		81.2	33.6	53.9	48.1	31.8	43.7		
				43.2	40.6	29.5			
LIA		74.1	32.9	53.8		35.9			
LIA/RB			33.2	46.2	42.9	30.2			
		71.6	31.0	46.6		29.7	40.7	39.4	
RB			28.7	43.7		30.2			
ALL	Mean	77.2	32.4	48.7	45.1	32.0			
	SD	5.2	2.2	4.9	4.0	2.9			
	n	4.0	6.0	7.0	4.0	7.0			

Dog measurements (von den Driesch 1976)

Phase	Element	Measurement
	Scapula	SLC
MIA		20.4
		21.0
		20.2

Phase	Element	Measurement						
	Humerus	GL	SD	BT	HT	HTC	GLI	GLC
MIA		146.0	10.6	19.6		11.5		140.4
		144.5	10.9	19.4		12.0		

Phase	Element	Measurement						
	Radius	GL	SD	Bp	BFp	Bd	LI	BFd
EIA				18.7				
MIA		148.1	11.7			21.5		18.9
		148.1	11.3	15.5		21.6		18.7

Phase	Element	Measurement
	Pelvis	LA
EIA		25.0
MIA		21.8
		20.9
		20.2
LIA		25.1

Phase	Element	Measurement			
	Femur	GL	GLC	SD	Bd
MIA			155.7	11.7	29.2
		155.0	154.7	11.8	28.3

Phase	Element	Measurement				
	Tibia	GL	SD	Bp	Bd	Dd
EIA			13.4		23.2	17.7
MIA		166.9	11.4	30.7	20.5	14.4
		165.7	11.3	31.8	20.4	14.9

Phase	Element	Measurement			
	Astragalus	GLI	GLm	DI	Bd
MIA		15.7	24.0	12.3	19.7
		13.6	22.0	10.5	15.2
		13.6	22.4	11.3	15.0