

APPENDIX C

FAUNAL DATA AND STATISTICS

Table 50. N416 E568, counts of faunal elements recovered by level.

Level	Skull	Mand	Cer	Thor	Lumb	Vert	Axis	Scap	Pelvis	Ribs	Sacr	Hum	Fem	Rad-Ul	Tib	Long	Metas	Toes	Uniden	Non-Cam	Immat	Total
Sup		1																	10		0	11
1	3		1	1	2	4		5	1	12		1		2	2	31	8	9	103		9	185
2	6	7	5	5	3	17		2	1	43			2	4	4	49	6	21	162	1 antler	33	338
3	9	5	6	5	9	9	5	6	5	45	3	6	2	4	8	30	11	25	95		36	288
4	6	2	5	7	6	20	1	2	5	31	8	8	3	5	9	26	11	14	77	3 antler,	38	251
																				2 tail bones		
4																1					0	1
5	3	1	2	2	1	1		2		14	1	3		2	1	10	6	9	52	1 bird rib	13	111
5																	1			wrkd scoop	0	1
9																1				* note	0	1
10	1	4		1	2	6				5				1		2	3	4	45	1 bird strmm,	8	77
																				2 antler		
11		1		2	2	4		3	1	1		2	1	1		3	2	1	29	2 antler	8	55
12						2		1		7						3	1	2	29	2 antler	7	47
13	1			1		3		1	1	8						5		4	23		6	47
14										4						2		2	20	1 reptile vrt	2	29
15										1								1	3		0	5
Totals:	29	21	19	24	25	66	6	22	14	171	12	20	8	19	24	163	49	92	648	15	160	1447

Level: Sup = Superficie/Surface

Elements: Mand = Mandible, Cer = Cervical vertebrae, Thor = Thoracic vertebrae, Lumb = Lumbar vertebrae, Vert = Vertebral fragments, Scap = Scapula, Sacr = sacrum, Hum = Humerus, Fem = Femur, Rad-Ul = Radius-Ulna, Tib = Tibia, Metas = Metacarpals and metatarsals, Uniden = Unidentified fragments, Non-Cam = Non-camelid, Immat = Juveniles

Table 51. N425 E526, counts of faunal elements recovered by level.

Level	Skull	Mand	Cer	Thor	Lumb	Vert	Axis	Scap	Pelvis	Ribs	Sacr	Hum	Fem	Rad-UI	Tib	Long	Metas	Toes	Uniden	Non-Cam	Immat	Total
Sup																1			4		1	5
1	3			1		7			1	10		1	1	1	1	32	3	4	54	2 antler	10	121
2	1	2	1	8	2	3		2		21		6		5	8	27	18	9	127	1 bird	12	241
3	14	5	2	14	4	10	5	4	4	35	2	12	3	1	5	30	4	22	116	1 antler	27	293
4	16	4	2	13	9	12	2	1	5	58	2	19	5	3	4	54	12	12	107		32	340
5	12	4	2	12	10	22	7	3	4	37	3	3	4	6	9	51	11	11	208	2 antler, 1 meta-awl	54	422
							1														1	1
10	1			3				1		9		1			1	8	2	1	26		2	53
11	3			2	1	6	1	3	2	45				1		35	6	5	112		6	222
12																						?
12																			1	flute frag	0	1
13	2				1	2	1		1	4		1			3	8	4		52		2	79
14	1			1	1	1				1		1		1		5	1	2	50	3 bird	6	68
14																1				needle	0	1
15										1						2			6		0	9
Totals:	53	15	7	54	28	53	17	14	17	221	7	44	13	18	31	254	61	66	863	10	153	1856

Level: Sup = Superficie/Surface

Elements: Mand = Mandible, Cer = Cervical vertebrae, Thor = Thoracic vertebrae, Lumb = Lumbar vertebrae, Vert = Vertebral fragments, Scap = Scapula, Sacr = sacrum, Hum = Humerus, Fem = Femur, Rad-UI = Radius-Ulna, Tib = Tibia, Metas = Metacarpals and metatarsals, Uniden = Unidentified fragments, Non-Cam = Non-camelid, Immat = Juveniles

Table 52. N511 E509, counts of faunal elements recovered by level.

Level	Skull	Mand	Cer	Thor	Lumb	Vert	Axis	Scap	Pelvis	Ribs	Sacr	Hum	Fem	Rad-UI	Tib	Long	Metas	Toes	Uniden	Non-Cam	Immat	Total	
Sup																						0	0
1	2	1	1	1		2	1	2		7						5		6	38			0	66
1		1																		mand tool		0	1
2		1																		mand tool		0	1
2	7	5		3		6				19	1	2		1	1	8	1		49			5	103
3	11	8	3	7	2	7			4	26	1	1	1	3	2	18	5	1	141	4	10	245	
4	6	2	2		2	4	1		3	20		1			2	16	3	8	77			7	147
5	7	1	2	1		3	2		2	25		2	1		3	17	4	2	62	1 antler		5	135
7		1																		mand tool		0	1
8																1				mand,plsh frag		0	1
8																			1	pntd frag		0	1
9		1																		mand tool		0	1
10		1																		mand tool		0	1
11																			1	fire-engrvd		0	1
12		1																		mand tool		0	1
13																1				scoop/mand,		0	1
																				plshd frag			
14	3			2		2	1			11		1	1			6	1	2	43			5	73
15				5		5	1			2		2			1	9		3	36			4	64
16	7	2		6	5	5		2	2	6	1			1	1	11	4	3	33			10	88
16						1			3	3						5	1		9			2	22
16												1				1			1			0	3
17	2							2								1			12			0	17
17					1																	0	1
18																						0	0
Total:	45	25	8	25	10	35	6	6	14	119	3	10	3	4	10	99	19	25	503	5	49	974	

Table 53. N517 E450, counts of faunal elements recovered by level.

Level	Skull	Mand	Cer	Thor	Lumb	Vert	Axis	Scap	Pelvis	Ribs	Sacr	Hum	Fem	Rad-UI	Tib	Long	Metas	Toes	Uniden	Non-Cam	Immat	Total	
Sup																						0	
1				1	1		1	2		3				12				1	144			165	
2							1		2		1	1	1				6	1	170			183	
2																			8			8	
2												1							16			17	
3		5		13				1				6			1		1	1	239			267	
3																			1	? Wrkd		1	
4		4		31		3		3		6		3		1	5		14	2	424			496	
5		3		8		2				1		1	1		1		16	2	305			340	
6		2		1				1				4					4	4	151			167	
7	1			4			1			3		1			4		5	2	138			159	
8				2		1	1							1			1		64			70	
9		1		1					1			1		1	1		4	1	56			67	
10		1		12			2			3			3		7		7	2	189			226	
11				6			2			1					3		1	1	62			76	
12																	1		6			7	
13																			2			2	
14															1			1	22			24	
Totals:	1	16	0	79	1	6	8	7	3	17	1	7	16	15	23	0	60	18	1997				2275

Level: Sup = Superficie/Surface

Elements: Mand = Mandible, Cer = Cervical vertebrae, Thor = Thoracic vertebrae, Lumb = Lumbar vertebrae, Vert = Vertebral fragments, Scap = Scapula, Sacr = sacrum, Hum = Humerus, Fem = Femur, Rad-UI = Radius-Ulna, Tib = Tibia, Metas = Metacarpals and metatarsals, Uniden = Unidentified fragments, Non-Cam = Non-camelid, Immat = Juveniles

Table 54. N559 E589, counts of faunal elements recovered by level.

Level	Skull	Mand	Cer	Thor	Lumb	Vert	Axis	Scap	Pelvis	Ribs	Sacr	Hum	Fem	Rad-UI	Tib	Long	Metas	Toes	Uniden	Non-Cam	Immat	Total	
Sup																						0	0
1				2		1		1								4	1		47	1 bird		0	57
2	1	2	2	4		5		3	1	8		2	2	2	1	21	4	5	169		17	232	
3	3			1		1	1		1	4						5	1	3	24		4	44	
3																			1		0	1	
4						4				1							1		22		0	28	
5																	1	1	19		0	21	
6				1	1	3				2		1	2	2		2	2	4	24		3	44	
7			2	14	7	26	3	3	2	15	1	4	3	2	3	20	6	2	170		14	283	
8	2	2	2	4		3			2	4		2	4		2	10	1	1	53		2	92	
9	3		1	1		1	1			2						2	1		20		3	32	
10	2	5	7	9	4	7		6	7	26		6	6	3	7	33	7	6	83		17	224	
11			1	2	1	1		1		1		1		1		5	1	1	5		3	21	
Totals:	11	9	15	38	13	52	5	14	13	63	1	16	17	10	13	102	26	23	637	1	64	1079	

Level: Sup = Superficie/Surface

Elements: Mand = Mandible, Cer = Cervical vertebrae, Thor = Thoracic vertebrae, Lumb = Lumbar vertebrae, Vert = Vertebral fragments, Scap = Scapula, Sacr = sacrum, Hum = Humerus, Fem = Femur, Rad-UI = Radius-Ulna, Tib = Tibia, Metas = Metacarpals and metatarsals, Uniden = Unidentified fragments, Non-Cam = Non-camelid, Immat = Juveniles

Table 55. N567 E418, counts of faunal elements recovered by level.

Level	Skull	Mand	Cer	Thor	Lumb	Vert	Axis	Scap	Pelvis	Ribs	Sacr	Hum	Fem	Rad-UI	Tib	Long	Metas	Toes	Uniden	Non-Cam	Immat	Total
Sup																					0	0
Sup																					0	0
Sup																					0	0
Sup										1									4		0	5
Sup																			1		0	1
1																					0	0
1										2						1			5		0	8
1								1	1	3					1		1		4		1	11
1			1			2				3							1	2	17		0	27
1					1					4		2				1	2	2	19		1	31
Totals:	0	0	1	0	2	2	0	1	1	13	0	2	0	0	1	2	4	4	50	0	2	83

Level: Sup = Superficie/Surface

Elements: Mand = Mandible, Cer = Cervical vertebrae, Thor = Thoracic vertebrae, Lumb = Lumbar vertebrae, Vert = Vertebral fragments, Scap = Scapula, Sacr = sacrum, Hum = Humerus, Fem = Femur, Rad-UI = Radius-Ulna, Tib = Tibia, Metas = Metacarpals and metatarsals, Uniden = Unidentified fragments, Non-Cam = Non-camelid, Immat = Juveniles

Table 56. N581 E540, counts of faunal elements recovered by level.

Level	Skull	Mand	Cer	Thor	Lumb	Vert	Axis	Scap	Pelvis	Ribs	Sacr	Hum	Fem	Rad-Ul	Tib	Long	Metas	Toes	Uniden	Non-Cam	Immat	Total
Sup																			1		0	1
Sup																					0	0
1		6		2				6	2	8		2		1	1	12	3	2	55		2	100
1						1		4		5	1					2		3	25		3	41
2	2			5	2	8		3	3	12	1	1			2	17	6	8	66		6	136
2		1																		mand tool	0	1
3	7		1	1		3			1	10	1	2	2	1	2	11	3	7	59		21	110
4	5	1	1	1		7		2	3	6		2	1	1	1	21	5	5	128	1 bird	30	190
5	29	9	1	4	1	10	3		3	29		4		7	7	26	2	11	131	2	14	272
5	1								2	3			1			4	2	1	6	1	0	21
5																1				long bn awl	0	1
10	5	14	2	2		7	1	3	7	24			3	4	2	30	5	4	131		16	244
10										2		1				7			12		0	22
10		1																		mand tool	0	1
11	2	2		2		2			1	4						5	5	4	53		4	80
12				1		1			1	7				2	6	6	2	5	39		0	64
13		2		2		1		3		10					2	8	8	7	24	1 antler, 1	1	61
																				turtle/snake		
																					vertebrae	
14	11		1	1		6			6	38			4	2	1	22	7	5	37	1 dog vert	13	142
15	10	3	3	5		6	2			44	1	3	3		6	14	3	3	91	1 antler,	4	201
																				3 bird		
16	4	4				2				7	2	2				2	2	1	27	1 mand tool	1	53
17												1		1		1			0		0	3
18																1	1		2		0	4
Totals:	76	43	7	26	3	54	6	21	29	209	6	18	14	10	24	184	54	66	887	11	115	1748

Table 57. Faunal packet statistics: Niñalupita Period.

Niñalupita phase faunal packet statistics

PACKET		SOUTH	CENTRAL
Forelimb	Mean	9.2222	3.7222
	Median	.0000	.0000
	Std. Error of Mean	3.72814	1.73922
	Range	45.00	26.00
	Std. Deviation	15.81717	7.37887
	Sum	166.00	67.00
Head	Mean	7.5556	2.5833
	Median	.0000	.5000
	Std. Error of Mean	2.65034	.98788
	Range	30.50	13.50
	Std. Deviation	11.24446	4.19120
	Sum	136.00	46.50
Hindlimb	Mean	9.6944	3.7644
	Median	.0000	.0000
	Std. Error of Mean	3.45309	1.47527
	Range	39.11	18.31
	Std. Deviation	14.65024	6.25903
	Sum	174.50	67.76
Ribs	Mean	6.8611	3.8744
	Median	.0000	1.3350
	Std. Error of Mean	2.79680	1.31940
	Range	34.70	18.69
	Std. Deviation	11.86580	5.59773
	Sum	123.50	69.74
Trunk	Mean	3.6667	2.8333
	Median	.0000	1.0000
	Std. Error of Mean	1.70735	1.18611
	Range	24.00	19.00
	Std. Deviation	7.24366	5.03225
	Sum	66.00	51.00
Total	Mean	7.4000	3.3556
	Median	.0000	.0000
	Std. Error of Mean	1.31009	.59956
	Range	45.00	26.00
	Std. Deviation	12.42862	5.68788
	Sum	666.00	302.00

Table 58. Faunal packet statistics: Isahuara Period.

Isahuara phase faunal packet statistics

PACKET		SOUTH	CENTRAL
Forelimb	Mean	8.3333	4.5833
	Median	.0000	1.0000
	Std. Error of Mean	3.39312	1.65056
	Range	58.00	26.00
	Std. Deviation	16.62284	8.08604
	Sum	200.00	110.00
Head	Mean	5.5208	4.7917
	Median	.0000	2.2500
	Std. Error of Mean	2.34935	1.43706
	Range	38.50	29.50
	Std. Deviation	11.50943	7.04013
	Sum	132.50	115.00
Hindlimb	Mean	7.7054	5.1308
	Median	.0000	1.3250
	Std. Error of Mean	3.17685	1.81615
	Range	54.96	34.81
	Std. Deviation	15.56335	8.89729
	Sum	184.93	123.14
Ribs	Mean	6.9404	7.6192
	Median	.0000	3.3400
	Std. Error of Mean	2.87350	2.44984
	Range	46.74	44.42
	Std. Deviation	14.07723	12.00174
	Sum	166.57	182.86
Trunk	Mean	2.9167	2.4167
	Median	.0000	1.5000
	Std. Error of Mean	1.31176	.57394
	Range	23.00	10.00
	Std. Deviation	6.42628	2.81172
	Sum	70.00	58.00
Total	Mean	6.2833	4.9083
	Median	.0000	2.0000
	Std. Error of Mean	1.21055	.76187
	Range	58.00	44.42
	Std. Deviation	13.26096	8.34584
	Sum	754.00	589.00

Table 59. Faunal packet statistics: Jachakala Period.

Jachakala phase faunal packet statistics

PACKET		SOUTH	CENTRAL
Forelimb	Mean	2.1667	1.8333
	Median	1.0000	.0000
	Std. Error of Mean	.83333	.99112
	Range	8.00	11.00
	Std. Deviation	2.88675	3.43335
	Sum	26.00	22.00
Head	Mean	1.3333	1.7500
	Median	.7500	.5000
	Std. Error of Mean	.58171	.67279
	Range	7.00	6.50
	Std. Deviation	2.01509	2.33063
	Sum	16.00	21.00
Hindlimb	Mean	1.5533	2.1325
	Median	.7500	.5000
	Std. Error of Mean	.58715	.85475
	Range	5.66	8.15
	Std. Deviation	2.03394	2.96094
	Sum	18.64	25.59
Ribs	Mean	1.1133	3.1425
	Median	.0000	.5000
	Std. Error of Mean	.50742	1.64055
	Range	5.01	19.35
	Std. Deviation	1.75774	5.68304
	Sum	13.36	37.71
Trunk	Mean	.4167	1.4167
	Median	.0000	.0000
	Std. Error of Mean	.25990	.77321
	Range	3.00	9.00
	Std. Deviation	.90034	2.67848
	Sum	5.00	17.00
Total	Mean	1.3167	2.0550
	Median	.0000	.2500
	Std. Error of Mean	.26270	.45749
	Range	8.00	19.35
	Std. Deviation	2.03488	3.54367
	Sum	79.00	123.30

Table 60. Counts of elements totaled by faunal packet from the two southern zone units for the Niñalupita, Isahuara, and Jachakala phases.

Packet:	N416 E568			N425 E526		
	Niñalupita	Isahuara	Jachakala	Niñalupita	Isahuara	Jachakala
Trunk	7.35	65.77	68.10	6.01	100.80	55.40
Forelimb	6.65	60.73	93.90	11.99	124.20	80.60
Hindlimb	5.00	35.50	73.00	11.00	97.00	63.00
Ribs	20.00	51.00	100.00	6.00	149.00	66.00
Head	1.00	19.00	36.00	4.00	51.00	30.00
Totals:	40	232	371	39	522	295

Table 61. Counts and proportions of faunal packets recovered from the southern zone for the Niñalupita, Isahuara, and Jachakala phases.

Packet:	Counts			Proportions		
	Niñalupita	Isahuara	Jachakala	Niñalupita	Isahuara	Jachakala
Trunk	13.36	166.57	123.50	0.17	0.22	0.19
Forelimb	18.64	184.93	174.50	0.24	0.25	0.26
Hindlimb	16.00	132.50	136.00	0.20	0.18	0.20
Ribs	26.00	200.00	166.00	0.33	0.27	0.25
Head	5.00	70.00	66.00	0.06	0.09	0.10
Totals:	79	754	666	1.00	1.01	1.00

Table 62. Counts of elements totaled by faunal packet from the three central zone units for the Niñalupita, Isahuara, and Jachakala phases.

	N511 E509			N517 E450		
Packet:	Niñalupita	Isahuara	Jachakala	Niñalupita	Isahuara	Jachakala
Trunk	37.71	12.69	31.05	0.00	74.02	21.00
Forelimb	25.29	26.31	31.45	0.00	10.98	13.00
Hindlimb	20.00	23.00	19.50	1.00	29.00	9.00
Ribs	22.00	45.00	52.00	0.00	14.00	3.00
Head	17.00	22.00	37.00	0.00	18.00	7.00
Totals:	122	129	171	1	146	53
	N559 E589					
Packet:	Isahuara	Jachakala				
Trunk	96.15	17.69				
Forelimb	85.85	23.31				
Hindlimb	63.00	18.00				
Ribs	51.00	12.00				
Head	18.00	7.00				
Totals:	314	78				

Table 63. Counts and proportions of faunal packets recovered from the central zone for the Niñalupita, Isahuara, and Jachakala phases.

	Counts			Proportions		
Packet:	Niñalupita	Isahuara	Jachakala	Niñalupita	Isahuara	Jachakala
Trunk	37.71	182.86	69.74	0.31	0.31	0.23
Forelimb	25.29	123.14	67.76	0.21	0.21	0.22
Hindlimb	21.00	115.00	46.50	0.17	0.20	0.15
Ribs	22.00	110.00	67.00	0.18	0.19	0.22
Head	17.00	58.00	51.00	0.14	0.10	0.17
Totals:	123	589	302	1.01	1.01	0.99

Table 64. Counts of elements totaled by faunal packet from the two northern zone units for the Isahuara and Jachakala phases.

	N567 E418	N581 E540	
Packet:	Jachakala	Isahuara	Jachakala
Trunk	5.34	88.46	32.72
Forelimb	4.66	102.54	42.28
Hindlimb	2.00	90.00	40.00
Ribs	13.00	103.00	106.00
Head	0.00	89.00	36.00
Totals:	25	473	257

Table 65. Counts and proportions of faunal packets recovered from the northern zone for the Isahuara and Jachakala phases.

Packet:	Counts		Proportions	
	Isahuara	Jachakala	Isahuara	Jachakala
Trunk	88.46	38.06	0.19	0.13
Forelimb	102.54	46.94	0.22	0.17
Hindlimb	90.00	42.00	0.19	0.15
Ribs	103.00	119.00	0.22	0.42
Head	89.00	36.00	0.19	0.13
Totals:	473	282	1.01	1.00

Note: N581 E540 levels thirteen through eighteen are part of a large intrusive midden dating to the Isahuara Period, so are included in the counts and proportions above for that period.

Table 66. Chi squares, five Niñalupita Period faunal packets.

a.) including the southern and central zones (no northern zone during this occupation).

Observed:

	Trunk	Fore	Hind	Ribs	Head	Totals
South	123.50	174.50	136.00	166	66	666
Center	69.74	67.76	46.50	67	51	302
Totals	193.24	242.26	182.50	233	117	968

Expected:

	Trunk	Fore	Hind	Ribs	Head	Totals
South	132.95	166.68	125.56	160.31	80.50	666
Center	60.29	75.58	56.94	72.69	36.50	302
Totals	193.24	242.26	182.50	233	117	968

(Key: Trunk = Trunk faunal packet; Fore = Forelimb packet; Hind = Hindlimb packet; Ribs = Ribs packet; Head = Head packet)

Table 67. Chi squares, five Isahuara Period faunal packets.

a.) including the southern, central, and northern zones.

Observed:

	Trunk	Fore	Hind	Ribs	Head	Totals
South	166.57	184.93	132.50	200	70	754
Center	182.86	123.14	115.00	110	58	589
North	48.42	70.58	62.00	68	73	322
Totals	397.85	378.65	309.50	378	201	1665

Expected:

	Trunk	Fore	Hind	Ribs	Head	Totals
South	180.17	171.47	140.16	171.18	91.02	754
Center	140.74	133.95	109.49	133.72	71.10	589
North	76.94	73.23	59.86	73.10	38.87	322
Totals	397.85	378.65	309.50	378	201	1665

b.) the residential (southern and central) zones only.

Observed:

	Trunk	Fore	Hind	Ribs	Head	Totals
South	166.57	184.93	132.50	200	70	754
Center	182.86	123.14	115.00	110	58	589
Totals	349.43	308.07	247.50	310	128	1343

Expected:

	Trunk	Fore	Hind	Ribs	Head	Totals
South	196.18	172.96	138.95	174.04	71.86	754
Center	153.25	135.11	108.55	135.96	56.14	589
Totals	349.43	308.07	247.50	310	128	1343

(Key: Trunk = Trunk faunal packet; Fore = Forelimb packet; Hind = Hindlimb packet; Ribs = Ribs packet; Head = Head packet)

Table 68. Chi squares, five Jachakala Period faunal packets.

a.) including the southern, central, and northern zones.

Observed:

	Trunk	Fore	Hind	Ribs	Head	Totals
South	13.36	18.64	16	26	5	79
Center	37.71	25.29	21	22	17	123
North	32.72	42.28	40	106	36	257
Totals	83.79	86.21	77	154	58	459

Expected:

	Trunk	Fore	Hind	Ribs	Head	Totals
South	14.42	14.84	13.25	26.51	9.98	79
Center	22.45	23.10	20.63	41.27	15.54	123
North	46.92	48.27	43.11	86.23	32.47	257
Totals	83.79	86.21	77	154	58	459

b.) the residential (southern and central) zones only.

Observed:

	Trunk	Fore	Hind	Ribs	Head	Totals
South	13.36	18.64	16	26	5	79
Center	37.71	25.29	21	22	17	123
Totals	51.07	43.93	37	48	22	202

Expected:

	Trunk	Fore	Hind	Ribs	Head	Totals
South	19.97	17.18	14.47	18.77	8.60	79
Center	31.10	26.75	22.53	29.23	13.40	123
Totals	51.07	43.93	37	48	22	202

(Key: Trunk = Trunk faunal packet; Fore = Forelimb packet; Hind = Hindlimb packet; Ribs = Ribs packet; Head = Head packet)

Table 69. Chi squares, trunk and non-trunk Niñalupita Period faunal packets.

a.) the residential (southern and central) zones only.

Observed:

	Trunk	Non-trunk	Totals
South	123.50	542.50	666
Center	69.74	232.26	302
Totals	193.24	774.76	968

Expected:

	Trunk	Non-trunk	Totals
South	132.95	533.05	666
Center	60.29	241.71	302
Totals	193.24	774.76	968

(Key: Trunk = Trunk faunal packet; Non-trunk faunal packet = Forelimb + Hindlimb + Ribs + Head)

Table 70. Chi squares, trunk and non-trunk Isahuara Period faunal packets.

a.) the residential (southern and central) zones only.

Observed:

	Trunk	Non-trunk	Totals
South	166.57	587.43	754
Center	182.86	406.14	589
Totals	349.43	993.57	1343

Expected:

	Trunk	Non-trunk	Totals
South	196.18	557.82	754
Center	153.25	435.75	589
Totals	349.43	993.57	1343

(Key: Trunk = Trunk faunal packet; Non-trunk faunal packet = Forelimb + Hindlimb + Ribs + Head)

Table 71. Chi squares, trunk and non-trunk Jachakala Period faunal packets.

a.) the residential (southern and central) zones only.

Observed:

	Trunk	Non-trunk	Totals
South	13.36	65.64	79
Center	37.71	85.29	123
Totals	51.07	150.93	202

Expected:

	Trunk	Non-trunk	Totals
South	19.97	59.03	79
Center	31.10	91.90	123
Totals	51.07	150.93	202

(Key: Trunk = Trunk faunal packet; Non-trunk faunal packet = Forelimb + Hindlimb + Ribs + Head)

Table 72. Diachronic chi squares, southern zone faunal packets by period.

Observed:

	Trunk	Fore	Hind	Ribs	Head	Totals
Niñalupita	123.50	174.50	136	166	66	666
Isahuara	166.57	184.93	132.50	200	70	754
Jachakala	13.36	18.64	16	26	5	79
Totals	303.43	378.07	284.5	392	141	1499

Expected:

	Trunk	Fore	Hind	Ribs	Head	Totals
Niñalupita	134.81	167.98	126.40	174.16	62.65	666
Isahuara	152.63	190.17	143.10	197.18	70.92	754
Jachakala	15.99	19.92	15	20.66	7.43	79
Totals	303.43	378.07	284.5	392	141	1499

(Key: Trunk = Trunk faunal packet; Fore = Forelimb packet; Hind = Hindlimb packet; Ribs = Ribs packet; Head = Head packet)

Table 73. Diachronic chi squares, central zone faunal packets by period.

Observed:

	Trunk	Fore	Hind	Ribs	Head	Totals
Niñalupita	69.74	67.76	46.50	67	51	302
Isahuara	182.86	123.14	115	110	58	589
Jachakala	37.71	25.29	21	22	17	123
Totals	290.31	216.19	182.50	199	126	1014

Expected:

	Trunk	Fore	Hind	Ribs	Head	Totals
Niñalupita	86.46	64.39	54.35	59.27	37.53	302
Isahuara	168.63	125.58	106.01	115.59	73.19	589
Jachakala	35.22	26.22	22.14	24.14	15.28	123
Totals	290.31	216.19	182.50	199	126	1014

(Key: Trunk = Trunk faunal packet; Fore = Forelimb packet; Hind = Hindlimb packet; Ribs = Ribs packet; Head = Head packet)

Table 74. Diachronic chi squares, northern zone faunal packets by period.

Observed:

	Trunk	Fore	Hind	Ribs	Head	Totals
Isahuara	48.42	70.58	62	68	73	322
Jachakala	32.72	42.28	40	106	36	257
Totals	81.14	112.86	102	174	109	579

Expected:

	Trunk	Fore	Hind	Ribs	Head	Totals
Isahuara	45.12	62.76	56.73	96.77	60.62	322
Jachakala	36.02	50.10	45.27	77.23	48.38	257
Totals	81.14	112.86	102	174	109	579

(Key: Trunk = Trunk faunal packet; Fore = Forelimb packet; Hind = Hindlimb packet; Ribs = Ribs packet; Head = Head packet)

Table 75. Non-camelid faunal remains: synchronic and diachronic chi squares.

a.) comparing three periods

Observed:

	Niñalupita	Isahuara	Jachakala	Totals
South	7	13	5	25
Center	0	1	5	6
North	0	4	7	11
Totals	7	18	17	42

Expected:

	Niñalupita	Isahuara	Jachakala	Totals
South	4.17	10.71	10.12	25
Center	1.00	2.57	2.43	6
North	1.83	4.71	4.45	11
Totals	7	18	17	42

b.) comparing central and southern zones

Observed:

	Southern zone	Central zone	Totals
Niñalupita	7	0	7
Isahuara	13	1	14
Jachakala	5	5	10
Totals	25	6	31

Expected:

	Southern zone	Central zone	Totals
Niñalupita	5.65	1.35	7
Isahuara	11.29	2.71	14
Jachakala	8.06	1.94	10
Totals	25	6	31

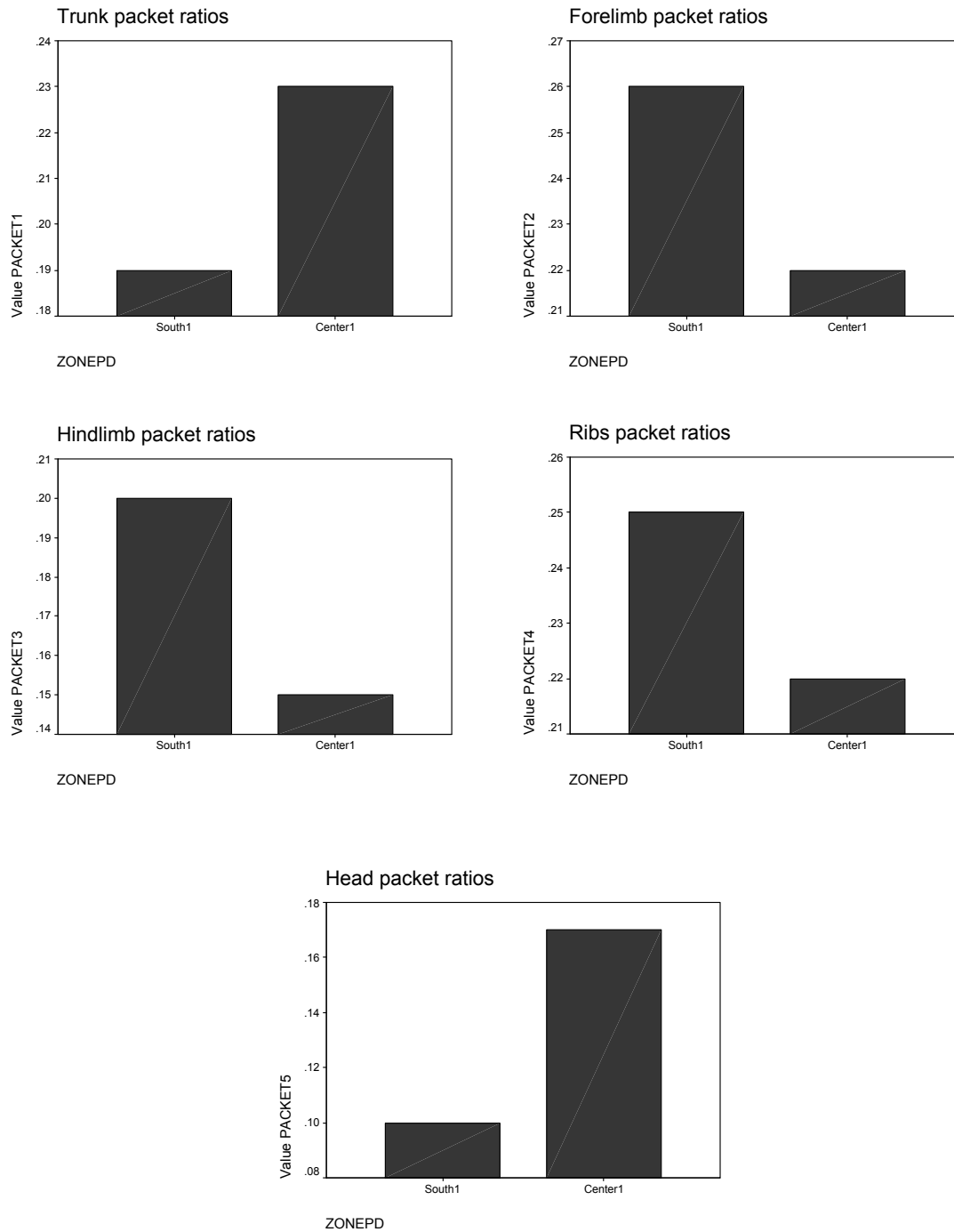


Figure 68. Niñalupita period proportions of faunal packets in the southern, central, and northern zones: trunk (top left), forelimb (top right), hindlimb (middle left), ribs (middle right), and head (bottom) packets.

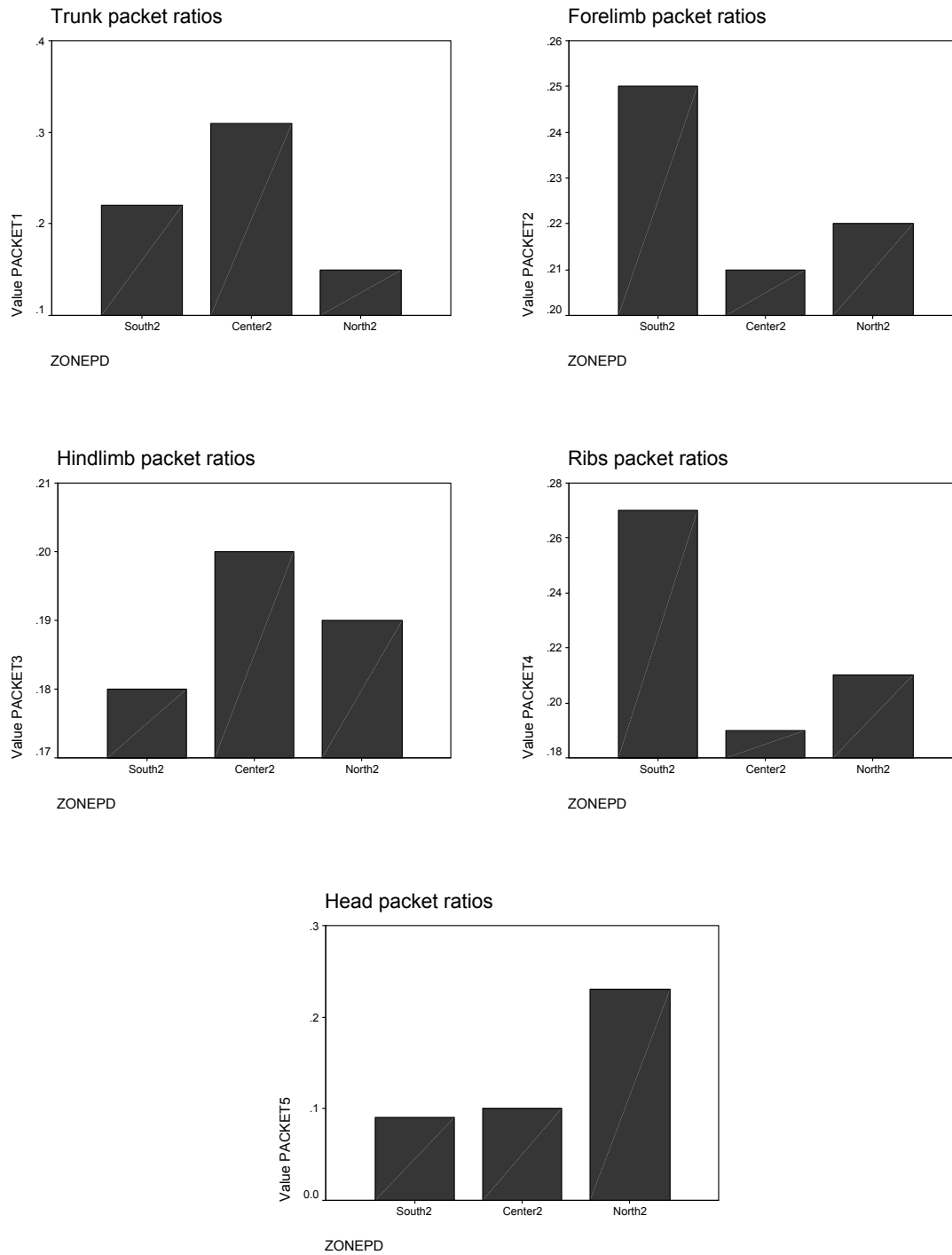


Figure 69. Isahuara period proportions of faunal packets in the southern, central, and northern zones: trunk (top left), forelimb (top right), hindlimb (middle left), ribs (middle right), and head (bottom) packets.

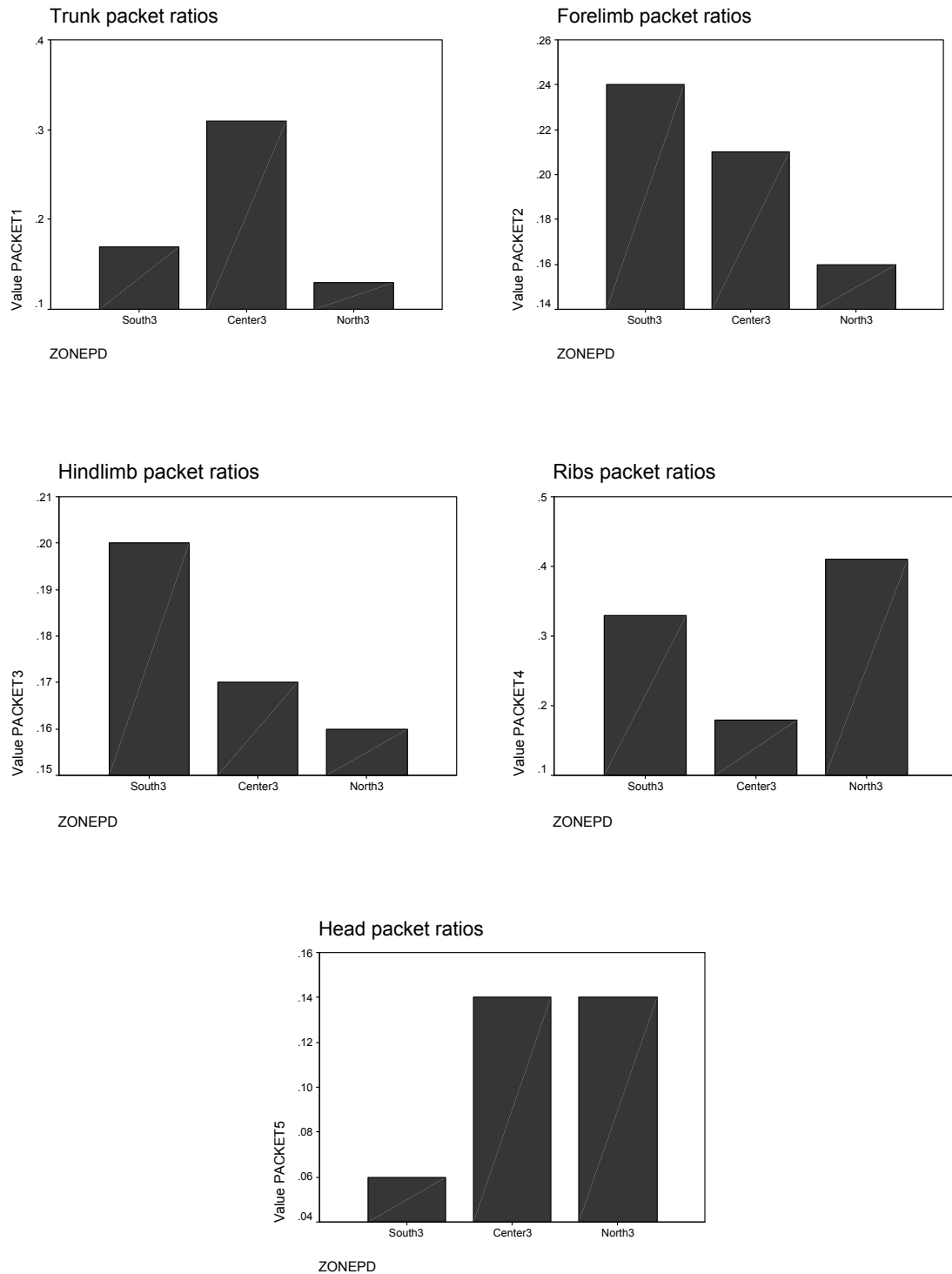


Figure 70. Jachakala period proportions of faunal packets in the southern, central, and northern zones: trunk (top left), forelimb (top right), hindlimb (middle left), ribs (middle right), and head (bottom) packets.