

RESSOURCENKULTUREN 29

A GOOD PLACE TO LIVE?

THE MANAGEMENT OF LIVESTOCK RESOURCES IN
THE LOWER GUADALQUIVIR BASIN IN SOUTHERN
IBERIA DURING THE 3RD MILLENNIUM BC

APPENDIX



Javier Escudero Carrillo

TÜBINGEN
UNIVERSITY
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Appendix 1: Log Ratio Values

A.1.1 Cattle/Aurochs

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
VALENCINA-CASTILLEJA								
Cerro de la Cabeza/La perrera	Cattle	Ind	Astragalus	GLI	58.5	59.3	-0.0059	Hain 1982
Cerro de la Cabeza/La perrera	Cattle	Ind	Astragalus	GLI	72.5	59.3	0.087283	Hain 1982
PP4-Montelirio	Cattle	Ind	Astragalus	GLI	71.9	59.3	0.083674	Liesau et al 2014
Pabellon Cubierto-116/124	Cattle	Ind	Astragalus	GLI	70.06	59.3	0.072415	see this work
Pabellón Cubierto 195-191	Aurochs	Ind	Astragalus	GLI	84.53	59.3	0.153956	see this work
Cerro de la Cabeza/La perrera	Aurochs	Ind	Astragalus	GLI	87	59.3	0.166465	Hain 1982
Cerro de la Cabeza/La perrera	Aurochs	Ind	Astragalus	GLI	84	59.3	0.151225	Hain 1982
Cerro de la Cabeza/La perrera	Aurochs	Ind	Astragalus	GLI	79.5	59.3	0.127312	Hain 1982
Cerro de la Cabeza/La perrera	Cattle	Ind	Astragalus	DL	34	32.9	0.014283	Hain 1982
Cerro de la Cabeza/La perrera	Cattle	Ind	Astragalus	DL	42	32.9	0.106053	Hain 1982
PP4-Montelirio	Cattle	Ind	Astragalus	DL	38.7	32.9	0.070515	Liesau et al 2014
Pabellon Cubierto-116/124	Cattle	Ind	Astragalus	DL	38.38	32.9	0.066909	see this work
Cerro de la Cabeza/La perrera	Aurochs	Ind	Astragalus	DL	47	32.9	0.154902	Hain 1982
Cerro de la Cabeza/La perrera	Aurochs	Ind	Astragalus	DL	43.5	32.9	0.121293	Hain 1982
Pabellón Cubierto 195-191	Aurochs	Ind	Astragalus	DL	48.32	32.9	0.166931	see this work
Cerro de la Cabeza/La perrera	Aurochs	Ind	Astragalus	Bd	57	55.2	0.013936	Hain 1982
Cerro de la Cabeza/La perrera	Aurochs	Ind	Astragalus	Bd	51	55.2	-0.03437	Hain 1982
Cerro de la Cabeza/La perrera	Cattle	Ind	Astragalus	Bd	35	55.2	-0.19787	Hain 1982
Cerro de la Cabeza/La perrera	Cattle	Ind	Astragalus	Bd	46.5	55.2	-0.07449	Hain 1982
PP4-Montelirio	Cattle	Ind	Astragalus	Bd	48.8	55.2	-0.05352	Liesau et al 2014
Pabellon Cubierto 116/124	Cattle	Ind	Astragalus	Bd	43.65	55.2	-0.10195	see this work
Pabellón Cubierto 195-191	Aurochs	Ind	Astragalus	Bd	60.92	55.2	0.042821	see this work
Cerro de la Cabeza/Perrera	Aurochs	Male	Scapula	SLC	79.5	43.1	0.26589	Hain 1982
Cerro de la Cabeza/Perrera	Aurochs	Male	Scapula	SLC	76.5	43.1	0.249184	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Ind	Scapula	SLC	47.5	43.1	0.042216	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Ind	Humerus	BT	68	66.5	0.009687	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Ind	Humerus	BT	85	66.5	0.106597	Hain 1982
Cerro de la Cabeza/Perrera	Aurochs	Male	Humerus	BT	109	66.5	0.214605	Hain 1982
Cerro de la Cabeza/La Perrera	Aurochs	Male	Humerus	BT	109	66.5	0.214605	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	GL	193	177.1	0.037339	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	GL	180	177.1	0.007054	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	GL	186.5	177.1	0.02246	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	GL	206.5	177.1	0.066701	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	GL	190	177.1	0.030535	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female?	Metacarpal	GL	187	177.1	0.023623	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	GL	193	177.1	0.037339	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	GL	196.5	177.1	0.045144	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	castrated or female	Metacarpal	GL	218.5	177.1	0.091233	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	GL	194.5	177.1	0.040701	Hain 1982

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	GL	191.5	177.1	0.03395	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	GL	201.5	177.1	0.056056	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Ind	Metacarpal	GL	225	177.1	0.103964	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	GL	195	177.1	0.041816	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	GL	200	177.1	0.052811	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male?	Metacarpal	GL	198	177.1	0.048447	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Castrated?	Metacarpal	GL	209.5	177.1	0.072965	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	GL	197	177.1	0.046248	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	SD	32	29.4	0.036803	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	SD	31.5	29.4	0.029963	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	SD	27	29.4	-0.03698	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	SD	29.5	29.4	0.001475	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	SD	27.5	29.4	-0.02901	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female?	Metacarpal	SD	33	29.4	0.050167	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	SD	33	29.4	0.050167	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	SD	29.5	29.4	0.001475	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	castrated or female	Metacarpal	SD	31.5	29.4	0.029963	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	SD	38	29.4	0.111436	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	SD	36	29.4	0.087955	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	SD	38	29.4	0.111436	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	SD	36	29.4	0.087955	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	SD	38	29.4	0.111436	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male?	Metacarpal	SD	35	29.4	0.075721	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Castrated?	Metacarpal	SD	35.5	29.4	0.081881	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	SD	36.5	29.4	0.093946	Hain 1982
Pabellon Cubierto	Cattle	Female	Metacarpal	SD	24.88	29.4	-0.0725	see this work
Cerro de la Cabeza/La Perrera	Aurochs	Male	Metacarpal	SD	42	29.4	0.154902	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	Bd	60	54.6	0.040959	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	Bd	60	54.6	0.040959	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	Bd	57	54.6	0.018682	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	Bd	55	54.6	0.00317	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female?	Metacarpal	Bd	63	54.6	0.062148	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	Bd	63	54.6	0.062148	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metacarpal	Bd	59	54.6	0.033659	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	castrated or female	Metacarpal	Bd	61.5	54.6	0.051682	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	Bd	66.5	54.6	0.085629	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	Bd	67	54.6	0.088882	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	Bd	64.5	54.6	0.072367	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	Bd	67	54.6	0.088882	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male?	Metacarpal	Bd	64.5	54.6	0.072367	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Castrated?	Metacarpal	Bd	68.5	54.6	0.098498	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metacarpal	Bd	64.5	54.6	0.072367	Hain 1982
Cerro de la Cabeza/La Perrera	Aurochs	Male	Metacarpal	Bd	76.5	54.6	0.146469	Hain 1982

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro de la Cabeza/La Perrera	Cattle	Female	Metatarsal	Bd	54.5	49.9	0.038296	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metatarsal	Bd	50.5	49.9	0.005191	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metatarsal	Bd	52	49.9	0.017903	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metatarsal	Bd	52	49.9	0.017903	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metatarsal	Bd	49	49.9	-0.0079	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metatarsal	Bd	49.5	49.9	-0.0035	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Female	Metatarsal	Bd	51	49.9	0.00947	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metatarsal	Bd	58	49.9	0.065327	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metatarsal	Bd	59	49.9	0.072751	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metatarsal	Bd	66	49.9	0.121443	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metatarsal	Bd	59.5	49.9	0.076416	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metatarsal	Bd	60	49.9	0.080051	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metatarsal	Bd	57.5	49.9	0.061567	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metatarsal	Bd	59	49.9	0.072751	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Male	Metatarsal	Bd	55	49.9	0.042262	Hain 1982
Cerro de la Cabeza/La Perrera	Cattle	Castrated?	Metatarsal	Bd	55	49.9	0.042262	Hain 1982
Pabellon Cubierto 195-199	Cattle	Ind	Metatarsal	Bd	48.75	49.9	-0.01013	see this work
Sector de la Cabeza/La Perrera	Aurochs	Male	Tibia	Bd	82	55.2	0.171875	Hain 1982
Sector de la Cabeza/La Perrera	Aurochs	Female	Tibia	Bd	77	55.2	0.144552	Hain 1982
Sector de la Cabeza/La Perrera	Cattle	Ind	Tibia	Bd	54.5	55.2	-0.00554	Hain 1982
Sector de la Cabeza/La Perrera	Cattle	Ind	Tibia	Bd	70.5	55.2	0.10625	Hain 1982
Pabellon Cubierto 115/123	Cattle	Ind	Tibia	Bd	58.42	55.2	0.024622	see this work
Pabellon Cubierto 195-199	Cattle	Ind	Tibia	Bd	60.27	55.2	0.038162	see this work
Sector V.402-403	Cattle	Ind	Tibia	Bd	62.1	55.2	0.051153	see this work
Pabellon Cubierto 115/123	Cattle	Ind	Tibia	Dd	37.82	40.9	-0.034	see this work
Pabellon Cubierto 195-199	Cattle	Ind	Tibia	Dd	42.22	40.9	0.013795	see this work
Sector V.402-403	Cattle	Ind	Tibia	Dd	44.5	40.9	0.036637	see this work
CARMONA								
Dolores Quintanilla, 6, sector 3N	Cattle	Ind	Astragalus	GLI	63.7	59.3	0.031085	Moreno Garcia 1999a
Dolores Quintanilla, 6, sector 12	Cattle	Ind	Astragalus	GLI	67.2	59.3	0.054315	Moreno Garcia 1999a
Dolores Quintanilla, 6, sector 15	Cattle	Ind	Astragalus	GLI	65.1	59.3	0.040526	Moreno Garcia 1999a
Dolores Quintanilla, 6, sector 3N	Cattle	Ind	Astragalus	Bd	37.7	37.1	0.006967	Moreno Garcia 1999a
Dolores Quintanilla, 6, sector 12	Cattle	Ind	Astragalus	Bd	40.5	37.1	0.038081	Moreno Garcia 1999a
Dolores Quintanilla, 6, sector 15	Cattle	Ind	Astragalus	Bd	40.7	37.1	0.040221	Moreno Garcia 1999a
Dolores Quintanilla, 6, sector 3N	Cattle	Ind	Astragalus	DL	31.8	32.9	-0.01477	Moreno Garcia 1999a
Dolores Quintanilla, 6, sector 12	Cattle	Ind	Astragalus	DL	33	32.9	0.001318	Moreno Garcia 1999a
Dolores Quintanilla, 6, sector 15	Cattle	Ind	Astragalus	DL	37	32.9	0.051006	Moreno Garcia 1999a
Dolores Quintanilla, 6, sector 3N	Cattle	Ind	Astragalus	DL	34.8	32.9	0.024383	Moreno Garcia 1999a
Dolores Quintanilla 6, sector 9	Cattle	Ind	Metacarpal	Bd	71.7	54.6	0.118327	Moreno Garcia 1999a
Dolores Quintanilla, 6. Sector 8	Aurochs	Ind	Scapula	SLC	63	43.1	0.164863	Moreno Garcia 1999a
Dolores Quintanilla, 6. Sector 12	Cattle	Ind	Scapula	SLC	50	43.1	0.064493	Moreno Garcia 1999a
Dolores Quintanilla, 6. Sector 14	Cattle	Ind	Scapula	SLC	54.9	43.1	0.105095	Moreno Garcia 1999a
Dolores Quintanilla 6, sector 2	Aurochs	Ind	Tibia	Bd	71.7	55.2	0.11358	Moreno Garcia 1999a
Ronda del Cenicero	Cattle	Ind	Tibia	Bd	52.14	55.2	-0.02477	see this work
Ronda del Cenicero	Cattle	Ind	Tibia	Dd	38.68	40.9	-0.02424	see this work

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
LA LOMA DEL REAL TESORO II								
E17-26	Aurochs	Ind	Scapula	SLC	61.22	43.1	0.152416	see this work
LOS MILLARES								
Los Millares	Cattle	Ind	Astragalus	GLI	63.5	59.3	0.029719	Peters/von den Driesch 1990
Los Millares	Cattle	Ind	Astragalus	GLI	65	59.3	0.039859	Peters/von den Driesch 1990
Los Millares	Cattle	Ind	Astragalus	GLI	65	59.3	0.039859	Peters/von den Driesch 1990
Los Millares	Cattle	Ind	Astragalus	Bd	44.5	37.1	0.078986	Peters/von den Driesch 1990
Los Millares	Cattle	Ind	Astragalus	Bd	41	37.1	0.04341	Peters/von den Driesch 1990
Los Millares	Cattle	Ind	Astragalus	Bd	41.5	37.1	0.048674	Peters/von den Driesch 1990
Los Millares	Cattle	Ind	Astragalus	DL	36	32.9	0.039107	Peters/von den Driesch 1990
Los Millares	Cattle	Ind	Astragalus	DL	36	32.9	0.039107	Peters/von den Driesch 1990
Los Millares	Cattle	Ind	Astragalus	DL	37	32.9	0.051006	Peters/von den Driesch 1990
Los Millares	Cattle	Ind	Humerus	BT	73	66.5	0.040501	Peters/von den Driesch 1990
Los Millares	Cattle	Male	Metacarpal	Bd	63.5	54.6	0.065581	Peters/von den Driesch 1990
Los Millares	Cattle	Male	Metacarpal	Bd	64.45	54.6	0.07203	Peters/von den Driesch 1990
Los Millares	Cattle	Male	Metacarpal	Bd	71	54.6	0.114066	Peters/von den Driesch 1990
Los Millares	Cattle	Female	Metatarsal	Bd	49	49.9	-0.0079	Peters/von den Driesch 1990
Los Millares	Cattle	Female	Metatarsal	Bd	52.5	49.9	0.022059	Peters/von den Driesch 1990
Los Millares	Cattle	Female	Metatarsal	Bd	53	49.9	0.026175	Peters/von den Driesch 1990
Los Millares	Cattle	Ind	Tibia	Bd	64.5	55.2	0.067621	Peters/von den Driesch 1990
CERRO I-LOS CASTILLEJOS								
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	GLI	77.5	59.3	0.116247	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	GLI	79	59.3	0.124572	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	GLI	83	59.3	0.146023	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	GLI	86	59.3	0.161444	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	GLI	88	59.3	0.171428	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	GLI	91.5	59.3	0.188366	Castaños Ugarte 1997
Cerro I Los Castillejos	Cattle	Ind	Astragalus	GLI	63	59.3	0.026286	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	Bd	50	37.1	0.129596	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	Bd	52.5	37.1	0.150785	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	Bd	56	37.1	0.178814	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	Bd	56.3	37.1	0.181134	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	Bd	63	37.1	0.229967	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	Bd	56	37.1	0.178814	Castaños Ugarte 1997
Cerro I Los Castillejos	Cattle	Ind	Astragalus	Bd	45.5	37.1	0.088637	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	DL	42	32.9	0.106053	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	DL	45.5	32.9	0.140815	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	DL	49.5	32.9	0.177409	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	DL	49.5	32.9	0.177409	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Astragalus	DL	49	32.9	0.173	Castaños Ugarte 1997
Cerro I Los Castillejos	Cattle	Ind	Astragalus	DL	36.5	32.9	0.045097	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Humerus	BT	86.5	66.5	0.114194	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Humerus	BT	103.5	66.5	0.192119	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Humerus	BT	91	66.5	0.13622	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Humerus	BT	90	66.5	0.131421	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Humerus	BT	92.5	66.5	0.14332	Castaños Ugarte 1997

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro I Los Castillejos	Cattle	Ind	Humerus	BT	71	66.5	0.028437	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Male	Metacarpal	LG	230	177.1	0.113509	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Male	Metacarpal	Bd	82.5	54.6	0.179261	Castaños Ugarte 1997
Cerro I Los Castillejos	Cattle	Female	Metacarpal	Bd	54	54.6	-0.0048	Castaños Ugarte 1997
Cerro I Los Castillejos	Cattle	Female	Metacarpal	Bd	64	54.6	0.068987	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Female	Metacarpal	Bd	67.5	54.6	0.092111	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Female	Metacarpal	Bd	70.5	54.6	0.110996	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Male	Metacarpal	Bd	79	54.6	0.160434	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Male	Metacarpal	Bd	82	54.6	0.176621	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Female	Metacarpal	Bd	83.5	54.6	0.184494	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Metatarsal	Bd	68.5	49.9	0.13759	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Metatarsal	Bd	72	49.9	0.159232	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Metatarsal	Bd	66.5	49.9	0.124721	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Metatarsal	Bd	68	49.9	0.134408	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Metatarsal	Bd	76.5	49.9	0.185561	Castaños Ugarte 1997
Cerro I Los Castillejos	Cattle	Ind	Metatarsal	Bd	54.5	49.9	0.038296	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Tibia	Bd	68.5	55.2	0.093751	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Tibia	Bd	71.5	55.2	0.112367	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Tibia	Bd	81	55.2	0.166546	Castaños Ugarte 1997
Cerro I Los Castillejos	Aurochs	Ind	Tibia	Bd	89	55.2	0.207451	Castaños Ugarte 1997
Cerro I Los Castillejos	Cattle	Ind	Tibia	Bd	61	55.2	0.043391	Castaños Ugarte 1997
Cerro I Los Castillejos	Cattle	Ind	Tibia	Bd	64.5	55.2	0.067621	Castaños Ugarte 1997
CASTILLEJOS DE MONTEFRÍO								
Castillejos de Montefrío	Cattle	Ind	Astragalus	GLI	63	59.3	0.026286	Ziegler 1990
Castillejos de Montefrío	Cattle	Ind	Astragalus	GLI	68	59.3	0.059454	Ziegler 1990
Castillejos de Montefrío	Cattle	Ind	Astragalus	GLI	60	59.3	0.005097	Ziegler 1990
Castillejos de Montefrío	Aurochs	Female	Astragalus	GLI	57	59.3	-0.01718	Ziegler 1990
Castillejos de Montefrío	Aurochs	Ind	Astragalus	GLI	64	59.3	0.033125	Ziegler 1990
Castillejos de Montefrío	Aurochs	Ind	Astragalus	GLI	68	59.3	0.059454	Ziegler 1990
Castillejos de Montefrío	Aurochs	Ind	Astragalus	DL	36	32.9	0.039107	Ziegler 1990
Castillejos de Montefrío	Aurochs	Ind	Astragalus	DL	38.5	32.9	0.068265	Ziegler 1990
Castillejos de Montefrío	Cattle	Ind	Astragalus	DL	33.5	32.9	0.007849	Ziegler 1990
Castillejos de Montefrío	Cattle	Ind	Astragalus	DL	32	32.9	-0.01205	Ziegler 1990
Castillejos de Montefrío	Cattle	Ind	Astragalus	DL	35.5	32.9	0.033032	Ziegler 1990
Castillejos de Montefrío	Cattle	Ind	Astragalus	DL	37.5	32.9	0.056835	Ziegler 1990
Castillejos de Montefrío	Cattle	Ind	Astragalus	Bd	40	37.1	0.032686	Ziegler 1990
Castillejos de Montefrío	Aurochs	Female	Astragalus	Bd	43.5	37.1	0.069115	Ziegler 1990
Castillejos de Montefrío	Aurochs	Ind	Astragalus	Bd	37.5	37.1	0.004657	Ziegler 1990
Castillejos de Montefrío	Cattle	Ind	Astragalus	Bd	37	37.1	-0.00117	Ziegler 1990
Castillejos de Montefrío	Cattle	Ind	Astragalus	Bd	44.5	37.1	0.078986	Ziegler 1990
Castillejos de Montefrío	Cattle	Ind	Astragalus	Bd	44	37.1	0.074079	Ziegler 1990
Castillejos de Montefrío	Aurochs	Ind	Astragalus	GLI	81.5	59.3	0.138103	Riquelme Cantal 1996
Castillejos de Montefrío	Cattle	Ind	Astragalus	GLI	71.5	59.3	0.081251	Riquelme Cantal 1996
Castillejos de Montefrío	Cattle	Ind	Astragalus	GLI	69.5	59.3	0.06893	Riquelme Cantal 1996
Castillejos de Montefrío	Aurochs	Ind	Astragalus	Bd	49	37.1	0.120822	Riquelme Cantal 1996
Castillejos de Montefrío	Cattle	Ind	Astragalus	Bd	46.5	37.1	0.098079	Riquelme Cantal 1996

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Castillejos de Montefrio	Cattle	Ind	Astragalus	Bd	46	37.1	0.093384	Riquelme Cantal 1996
Castillejos de Montefrio	Cattle	Ind	Tibia	Bd	63	55.2	0.057401	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Tibia	Bd	59	55.2	0.028913	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Tibia	Bd	64	55.2	0.064241	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Tibia	Bd	64	55.2	0.064241	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Tibia	Bd	58.5	55.2	0.025217	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Tibia	Bd	53.5	55.2	-0.01359	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Tibia	Bd	53.5	55.2	-0.01359	Riquelme Cantal 1996
Castillejos de Montefrio	Cattle	Ind	Metacarpus	Bd	58.5	54.6	0.029963	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Metacarpus	Bd	57	54.6	0.018682	Ziegler 1990
Castillejos de Montefrio	Ind	Ind	Metacarpus	Bd	58	54.6	0.026235	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Metacarpus	Bd	62.5	54.6	0.058687	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Metacarpus	Bd	63	54.6	0.062148	Ziegler 1990
Castillejos de Montefrio	Cattle	Female	Metacarpus	Bd	54	54.6	-0.0048	Riquelme Cantal 1996
Castillejos de Montefrio	Cattle	Male	Metacarpus	Bd	60	54.6	0.040959	Riquelme Cantal 1996
Castillejos de Montefrio	Cattle	Ind	Metacarpus	Bd	58	54.6	0.026235	Riquelme Cantal 1996
Castillejos de Montefrio	Cattle	Female	Metacarpus	GL	192	177.1	0.035083	Riquelme Cantal 1996
Castillejos de Montefrio	Cattle	Female	Metacarpus	GL	179	177.1	0.004634	Ziegler 1990
Castillejos de Montefrio	Cattle	Female	Metacarpus	SD	24	29.4	-0.08814	Ziegler 1990
Castillejos de Montefrio	Cattle	Female	Metacarpus	SD	27.5	29.4	-0.02901	Riquelme Cantal 1996
Castillejos de Montefrio	Cattle	Female	Metacarpus	SD	26	29.4	-0.05337	Riquelme Cantal 1996
Castillejos de Montefrio	Aurochs?	Ind	Metacarpus	SD	35	29.4	0.075721	Riquelme Cantal 1996
Castillejos de Montefrio	Aurochs?	Ind	Metacarpus	Bd	70	54.6	0.107905	Riquelme Cantal 1996
Castillejos de Montefrio	Cattle	Female	Metacarpus	Bd	54.5	54.6	-0.0008	Riquelme Cantal 1996
Castillejos de Montefrio	Cattle	Female	Metacarpus	Bd	49	54.6	-0.047	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Humerus	BT	66.5	66.5	0	Ziegler 1990
Castillejos de Montefrio	Cattle	Female	Metatarsus	Bd	46.5	49.9	-0.03065	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Metatarsus	Bd	58	49.9	0.065327	Ziegler 1990
Castillejos de Montefrio	Cattle	Ind	Metatarsus	Bd	59.5	49.9	0.076416	Ziegler 1990
Castillejos de Montefrio IV	Aurochs	Female	Astragalus	GLI	78	59.3	0.11904	Ziegler 1990
Castillejos de Montefrio IV	Aurochs		Astragalus	GLI	82.5	59.3	0.143399	Ziegler 1990
Castillejos de Montefrio IV	Aurochs	Female	Astragalus	DI	42.5	32.9	0.111193	Ziegler 1990
Castillejos de Montefrio IV	Aurochs		Astragalus	DI	44	32.9	0.126257	Ziegler 1990
Castillejos de Montefrio IV	Aurochs	Female	Astragalus	Bd	48	37.1	0.111867	Ziegler 1990
Castillejos de Montefrio IV	Aurochs		Astragalus	Bd	55	37.1	0.170989	Ziegler 1990

A.1.2 Caprines

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
VALENCINA-CASTILLEJA								
Cerro de la Cabeza/La perrera	Caprine	Ind	Scapula	SLC	17	18.9	-0.04601	Hain 1982
Cerro de la Cabeza/La perrera	Caprine	Ind	Scapula	SLC	24.5	18.9	0.112704	Hain 1982
Cerro de la Cabeza/La perrera	Caprine	Ind	Scapula	GLP	29.5	31	-0.02154	Hain 1982
Cerro de la Cabeza/La perrera	Caprine	Ind	Scapula	GLP	38.5	31	0.094099	Hain 1982
Pabellon Cubierto	Caprine	Ind	Astragalus	Bd	17.35	17.6	-0.00621	see this work
Pabellon Cubierto 195-199	Caprine	Ind	Astragalus	Bd	18.67	17.6	0.025632	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Astragalus	Bd	19.59	17.6	0.046522	see this work
Pabellon Cubierto 195-199	Caprine	Ind	Astragalus	Bd	20.21	17.6	0.060054	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Astragalus	DL	15.86	14.7	0.032986	see this work
Pabellon Cubierto 195-199	Caprine	Ind	Astragalus	DL	16.77	14.7	0.057216	see this work
Pabellon Cubierto 195-199	Caprine	Ind	Astragalus	DL	17.9	14.7	0.085536	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Astragalus	GLI	27.35	26.7	0.010446	see this work
Pabellon Cubierto 195-199	Caprine	Ind	Astragalus	GLI	28.98	26.7	0.035587	see this work
Pabellon Cubierto 195-199	Caprine	Ind	Astragalus	GLI	29.21	26.7	0.03902	see this work
Pabellon Cubierto 195-199	Caprine	Ind	Astragalus	GLI	31.09	26.7	0.066109	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Astragalus	GLI	31.21	26.7	0.067783	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Astragalus	GLI	31.22	26.7	0.067922	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	BT	31.11	26.8	0.064765	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	BT	30.11	26.8	0.050576	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	BT	26.68	26.8	-0.00195	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	BT	29.16	26.8	0.036653	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	BT	28.08	26.8	0.020262	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	BT	28.78	26.8	0.030956	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	BT	34.58	26.8	0.11069	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	BT	30.33	26.8	0.053738	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	SD	14.1	14.3	-0.00612	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	SD	14.32	14.3	0.000607	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	SD	16.82	14.3	0.07049	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	SD	16.22	14.3	0.054715	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Humerus	SD	16.46	14.3	0.061094	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	SD	14.45	12.6	0.059497	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	SD	14.99	12.6	0.075431	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	SD	14.43	12.6	0.058896	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	Bp	24.32	21.2	0.059628	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	BP	22.88	21.2	0.03312	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	Bp	21.47	21.2	0.005496	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	BP	23.01	21.2	0.035581	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	Bp	22.09	21.2	0.01786	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	BP	22.03	21.2	0.016679	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	Bp	25.48	21.2	0.079864	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metacarpus	Bd	28.44	23.6	0.081018	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metatarsus	GL	151.66	121.4	0.096652	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metatarsus	SD	13.82	10.9	0.103082	see this work

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Pabellon Cubierto-115/123	Caprine	Ind	Metatarsus	SD	10.95	10.9	0.001988	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metatarsus	SD	10.93	10.9	0.001194	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Metatarsus	Bd	25.32	22.7	0.047438	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Radius	Bp	27.9	30	-0.03152	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Radius	Bp	32.86	30	0.039546	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Radius	Bp	21.53	30	-0.14408	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Radius	Bp	31.74	30	0.024486	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Radius	Bp	30.71	30	0.010159	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Radius	Bp	34.28	30	0.05792	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Radius	Bp	33.24	30	0.04454	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Radius	SD	16.29	15.8	0.013264	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Radius	SD	17.68	15.8	0.048825	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Scapula	GLP	39.3	31	0.103031	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Scapula	GLP	29.44	31	-0.02242	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Scapula	GLP	35.59	31	0.059966	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Scapula	SLC	17.12	18.9	-0.04296	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Scapula	SLC	22.78	18.9	0.081092	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Scapula	SLC	20.28	18.9	0.030606	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Tibia	Bd	28.11	25.1	0.049187	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Tibia	Bd	29.66	25.1	0.072497	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Tibia	Dd	20.39	19.5	0.019383	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Tibia	Dd	22.8	19.5	0.0679	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Pelvis	SH	16.16	4.4	0.564989	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Pelvis	SH	21.32	4.4	0.685335	see this work
Pabellon Cubierto-115/123	Caprine	Ind	Pelvis	SH	20.67	4.4	0.671888	see this work
Cerro de la Cabeza/La perrera	Sheep	Ind	Humerus	BT	26.5	26.8	-0.00489	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Humerus	BT	33.5	26.8	0.09691	Hain 1982
Pabellón Cubierto	Sheep	Ind	Humerus	SD	14.1	14.3	-0.00612	see this work
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	GL	161	136.6	0.071375	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	GL	161.5	136.6	0.072722	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	GL	157	136.6	0.060449	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	GL	152	136.6	0.046393	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	GL	161.5	136.6	0.072722	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	GL	167	136.6	0.087266	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	GL	165.5	136.6	0.083347	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	Bp	27.5	30	-0.03779	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	Bp	35	30	0.066947	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	Bp	30.5	30	0.007179	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	Bp	32	30	0.028029	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	Bp	31	30	0.01424	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	Bp	30.5	30	0.007179	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	Bp	31.5	30	0.021189	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Radius	Bp	31.5	30	0.021189	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	GL	138.5	111.8	0.093008	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	GL	133	111.8	0.07541	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metacarpus	GL	142	111.8	0.103847	Hain 1982

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	GL	139.5	111.8	0.096132	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	GL	134.5	111.8	0.08028	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	GL	136	111.8	0.085097	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	GL	127.5	111.8	0.057068	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	GL	137	111.8	0.088279	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metacarpus	GL	143	111.8	0.106894	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metacarpus	GL	137.5	111.8	0.089861	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	GL	137	111.8	0.088279	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metacarpus	GL	140	111.8	0.097686	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	Bp	24	21.2	0.053875	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	Bp	24	21.2	0.053875	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metacarpus	Bp	24.5	21.2	0.06283	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	Bp	22	21.2	0.016087	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	Bp	23	21.2	0.035392	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	Bp	22	21.2	0.016087	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	Bp	22	21.2	0.016087	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	Bp	24	21.2	0.053875	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metacarpus	Bp	25.5	21.2	0.080204	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metacarpus	Bp	24	21.2	0.053875	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	Bp	23	21.2	0.035392	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metacarpus	Bp	26	21.2	0.088637	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Metacarpus	Bp	27	21.2	0.105028	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Metacarpus	SD	10.5	15.8	-0.17747	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	SD	12.5	15.8	-0.10175	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	SD	13.5	15.8	-0.06832	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metacarpus	SD	12.5	15.8	-0.10175	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	SD	12	15.8	-0.11948	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	SD	11	15.8	-0.15726	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	SD	13.5	15.8	-0.06832	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	SD	12.5	15.8	-0.10175	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	SD	13.5	15.8	-0.06832	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metacarpus	SD	16	15.8	0.005463	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metacarpus	SD	15	15.8	-0.02257	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metacarpus	SD	12.5	15.8	-0.10175	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metacarpus	SD	15	15.8	-0.02257	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Tibia	SD	12	10.9	0.041755	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Tibia	SD	15.5	10.9	0.152905	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Tibia	Bd	22.5	25.1	-0.04749	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Tibia	Bd	29.5	25.1	0.070148	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	GL	153.5	121.4	0.10189	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	GL	142.5	121.4	0.069596	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	GL	154	121.4	0.103302	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metatarsus	GL	163	121.4	0.127969	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	GL	151	121.4	0.094758	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	GL	151	121.4	0.094758	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metatarsus	GL	161	121.4	0.122607	Hain 1982

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	GL	151	121.4	0.094758	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	GL	148	121.4	0.086043	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Metatarsus	GL	160	121.4	0.119901	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	GL	162	121.4	0.125296	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	GL	152	121.4	0.097625	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	GL	154.5	121.4	0.10471	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metatarsus	GL	157.5	121.4	0.113062	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	GL	152.5	121.4	0.099051	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	SD	11	10.9	0.003966	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	SD	10.5	10.9	-0.01624	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	SD	11	10.9	0.003966	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metatarsus	SD	14	10.9	0.108702	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	SD	13	10.9	0.076517	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	SD	13.5	10.9	0.092907	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metatarsus	SD	12.5	10.9	0.059484	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	SD	12.5	10.9	0.059484	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	SD	11	10.9	0.003966	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Metatarsus	SD	12.5	10.9	0.059484	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	SD	12.5	10.9	0.059484	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	SD	13.5	10.9	0.092907	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	SD	12.5	10.9	0.059484	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	SD	13	10.9	0.076517	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	SD	13	10.9	0.076517	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Metatarsus	SD	9.5	10.9	-0.0597	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	Bd	23	22.7	0.005702	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	Bd	23	22.7	0.005702	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	Bd	23.5	22.7	0.015042	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metatarsus	Bd	27	22.7	0.075338	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	Bd	25	22.7	0.041914	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	Bd	25.5	22.7	0.050514	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Male	Metatarsus	Bd	27	22.7	0.075338	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	Bd	25	22.7	0.041914	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	Bd	22.5	22.7	-0.00384	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Metatarsus	Bd	27	22.7	0.075338	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	Bd	24.5	22.7	0.03314	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	Bd	25.5	22.7	0.050514	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	Bd	26.5	22.7	0.06722	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Castrated	Metatarsus	Bd	27.5	22.7	0.083307	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Female	Metatarsus	Bd	25	22.7	0.041914	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Metatarsus	Bd	21.5	22.7	-0.02359	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Calcaneus	GL	51.5	52.4	-0.00752	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Calcaneus	GL	64.5	52.4	0.090228	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Astragalus	GLI	25.5	26.7	-0.01997	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Astragalus	GLI	33.5	26.7	0.098534	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Astragalus	DL	13	14.7	-0.05337	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Astragalus	DL	18.5	14.7	0.099854	Hain 1982

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro de la Cabeza/La perrera	Sheep	Ind	Astragalus	Bd	16.5	17.6	-0.02803	Hain 1982
Cerro de la Cabeza/La perrera	Sheep	Ind	Astragalus	Bd	20.5	17.6	0.066241	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Scapula	SLC	16.5	18.9	-0.05898	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Scapula	SLC	22.5	18.9	0.075721	Hain 1982
Pabellón Cubierto	Goat	Ind	Scapula	SLC	17.88	18.9	-0.02409	see this work
Cerro de la Cabeza/La perrera	Goat	Ind	Scapula	GLP	26.5	31	-0.06812	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Scapula	GLP	34	31	0.040117	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Humerus	BT	27.5	26.8	0.011198	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Humerus	BT	24.5	26.8	-0.03897	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Humerus	BT	36	26.8	0.128168	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Radius	GL	142	136.6	0.016838	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Radius	GL	155	136.6	0.054881	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Radius	GL	115	136.6	-0.07475	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Radius	BFp	23	26.9	-0.06802	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Radius	BFp	28.5	26.9	0.025093	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Radius	BFp	27	26.9	0.001611	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Radius	SD	17	15.8	0.031792	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Radius	SD	15.5	15.8	-0.00833	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Radius	SD	13.5	15.8	-0.06832	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	GL	107.5	111.8	-0.01703	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	GL	106	111.8	-0.02314	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	GL	99.5	111.8	-0.05062	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	GL	114	111.8	0.008463	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	GL	110	111.8	-0.00705	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	Bp	20.5	21.2	-0.01458	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	Bp	22	21.2	0.016087	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	Bp	21.5	21.2	0.006103	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	Bp	23.5	21.2	0.044732	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	Bp	22	21.2	0.016087	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Metacarpus	Bp	19.5	21.2	-0.0363	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Metacarpus	Bp	25.5	21.2	0.080204	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Metacarpus	SD	11.5	12.6	-0.03967	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Metacarpus	SD	16.5	12.6	0.117113	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	SD	13.5	12.6	0.029963	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	SD	14.5	12.6	0.060997	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	SD	13.5	12.6	0.029963	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	SD	16	12.6	0.103749	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	SD	14	12.6	0.045757	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	Bd	25	23.6	0.025028	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	Bd	25.5	23.6	0.033628	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	Bd	25	23.6	0.025028	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	Bd	28.5	23.6	0.081933	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metacarpus	Bd	24.5	23.6	0.016254	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Metacarpus	Bd	23	23.6	-0.01118	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Femur	GLC	164	155.2	0.023952	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Femur	SD	13	15.6	-0.07918	Hain 1982

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	GL	191	184.4	0.015272	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	GL	205	184.4	0.045993	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Tibia	GL	197	184.4	0.028705	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	GL	201	184.4	0.037435	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Tibia	SD	12	10.9	0.041755	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	SD	12	10.9	0.041755	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	SD	13	10.9	0.076517	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	SD	13	10.9	0.076517	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	SD	11	10.9	0.003966	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	SD	13.5	10.9	0.092907	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Tibia	Bd	22.5	25.1	-0.04749	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	Bd	23	25.1	-0.03795	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	Bd	22	25.1	-0.05725	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	Bd	23	25.1	-0.03795	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	Bd	21	25.1	-0.07745	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Tibia	Bd	28	25.1	0.047484	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Calcaneus	GL	51.5	52.4	-0.00752	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Calcaneus	GL	57.5	52.4	0.040337	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Astragalus	GLI	25	26.7	-0.02857	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Astragalus	GLI	32.5	26.7	0.085372	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Astragalus	DL	13	14.7	-0.05337	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Astragalus	DL	18	14.7	0.087955	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Astragalus	Bd	15.5	17.6	-0.05518	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Astragalus	Bd	20	17.6	0.055517	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Metatarsus	GL	116.5	121.4	-0.01789	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	GL	108	121.4	-0.05079	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	GL	107.5	121.4	-0.05281	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	GL	107	121.4	-0.05483	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	GL	115	121.4	-0.02352	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	GL	109.5	121.4	-0.0448	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	SD	10.5	10.9	-0.01624	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	SD	10.5	10.9	-0.01624	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	SD	10.5	10.9	-0.01624	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	SD	11	10.9	0.003966	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	SD	10.5	10.9	-0.01624	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	SD	9.5	10.9	-0.0597	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Metatarsus	SD	12.5	10.9	0.059484	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	Bd	22	22.7	-0.0136	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	Bd	22	22.7	-0.0136	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	Bd	21.5	22.7	-0.02359	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	Bd	22.5	22.7	-0.00384	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	Bd	22.5	22.7	-0.00384	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Female	Metatarsus	Bd	21.5	22.7	-0.02359	Hain 1982
Cerro de la Cabeza/La perrera	Goat	Ind	Metatarsus	Bd	27.5	22.7	0.083307	Hain 1982

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
CARMONA								
Dolores Quintanilla 6, sector 4	Sheep	Ind	Astragalus	GLI	31.2	26.7	0.067643	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Sheep	Ind	Astragalus	Bd	20.6	17.6	0.068355	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Sheep	Ind	Astragalus	DL	18.1	14.7	0.090361	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Sheep	Ind	Metatarsus	SD	8.9	10.9	-0.08804	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Sheep	Ind	Scapula	SLC	23.6	18.9	0.09645	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Caprine	Ind	Scapula	SLC	15.7	18.9	-0.08056	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Caprine	Ind	Scapula	SLC	24.3	18.9	0.109144	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Caprine	Ind	Scapula	SLC	15.7	18.9	-0.08056	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Caprine	Ind	Scapula	SLC	22.1	18.9	0.06793	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Caprine	Ind	Scapula	SLC	18.3	18.9	-0.01401	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Caprine	Ind	Scapula	SLC	21	18.9	0.045757	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Caprine	Ind	Scapula	SLC	28	18.9	0.170696	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Caprine	Ind	Scapula	SLC	19.9	18.9	0.022391	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Caprine	Ind	Scapula	GLP	31.7	31	0.009698	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Sheep	Ind	Humerus	SD	15.1	14.3	0.023641	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Sheep	Ind	Humerus	BT	30.7	26.8	0.059004	Moreno García 1999a
Dolores Quintanilla 6, sector 4	Caprine	Ind	Humerus	BT	32.3	26.8	0.081068	Moreno García 1999a
Ronda del Cenicero	Caprine	Ind	Tibia	Dd	16.26	19.5	-0.07891	see this work
Ronda del Cenicero	Caprine	Ind	Metacarpus	SD	12.56	12.6	-0.00138	see this work
LA LOMA DEL REAL TESORO II								
La Loma del Real Tesoro II	Caprine	Ind	Astragalus	GLI	27.99	26.7	0.020492	see this work
La Loma del Real Tesoro II	Caprine	Ind	Astragalus	Bd	19.1	17.6	0.035521	see this work
La Loma del Real Tesoro II	Caprine	Ind	Metacarpus	Bp	21.01	21.2	-0.00391	see this work
LOS MILLARES								
Los Millares	Sheep		Scapula	SLC	18.5	18.9	-0.00929	Peters/von den Driesch 1990
Los Millares	Sheep		Scapula	SLC	19	18.9	0.002292	Peters/von den Driesch 1990
Los Millares	Sheep		Scapula	SLC	19.5	18.9	0.013573	Peters/von den Driesch 1990
Los Millares	Sheep		Scapula	SLC	20.5	18.9	0.035292	Peters/von den Driesch 1990
Los Millares	Sheep		Scapula	GLP	31	31	0	Peters/von den Driesch 1990
Los Millares	Sheep		Scapula	GLP	31.5	31	0.006949	Peters/von den Driesch 1990
Los Millares	Sheep		Scapula	GLP	31.5	31	0.006949	Peters/von den Driesch 1990
Los Millares	Sheep		Scapula	GLP	32	31	0.013788	Peters/von den Driesch 1990
Los Millares	Sheep		Scapula	GLP	32	31	0.013788	Peters/von den Driesch 1990
Los Millares	Sheep		Scapula	GLP	35	31	0.052706	Peters/von den Driesch 1990
Los Millares	Sheep		Humerus	BT	27	26.8	0.003229	Peters/von den Driesch 1990
Los Millares	Sheep		Humerus	BT	31	26.8	0.063227	Peters/von den Driesch 1990
Los Millares	Sheep		Radius	Bp	27.5	30	-0.03779	Peters/von den Driesch 1990
Los Millares	Sheep		Radius	Bp	33.5	30	0.047924	Peters/von den Driesch 1990
Los Millares	Sheep		Radius	BFp	26.5	26.9	-0.00651	Peters/von den Driesch 1990
Los Millares	Sheep		Radius	BFp	33	26.9	0.088762	Peters/von den Driesch 1990
Los Millares	Sheep		Metacarpus	Bp	22	21.2	0.016087	Peters/von den Driesch 1990
Los Millares	Sheep		Metacarpus	Bp	21	21.2	-0.00412	Peters/von den Driesch 1990
Los Millares	Sheep		Metacarpus	Bp	23	21.2	0.035392	Peters/von den Driesch 1990
Los Millares	Sheep		Metacarpus	Bp	23.5	21.2	0.044732	Peters/von den Driesch 1990
Los Millares	Sheep		Metacarpus	Bd	24.5	23.6	0.016254	Peters/von den Driesch 1990

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Los Millares	Sheep		Metacarpus	Bd	23	23.6	-0.01118	Peters/von den Driesch 1990
Los Millares	Sheep		Metacarpus	Bd	24	23.6	0.007299	Peters/von den Driesch 1990
Los Millares	Sheep		Metacarpus	Bd	26	23.6	0.042061	Peters/von den Driesch 1990
Los Millares	Sheep		Astragalus	GLI	26.5	26.7	-0.00327	Peters/von den Driesch 1990
Los Millares	Sheep		Astragalus	GLI	31	26.7	0.06485	Peters/von den Driesch 1990
Los Millares	Sheep		Astragalus	DL	15	14.7	0.008774	Peters/von den Driesch 1990
Los Millares	Sheep		Astragalus	DL	17	14.7	0.063132	Peters/von den Driesch 1990
Los Millares	Sheep		Astragalus	Bd	16.5	17.6	-0.02803	Peters/von den Driesch 1990
Los Millares	Sheep		Astragalus	Bd	19.5	17.6	0.044522	Peters/von den Driesch 1990
Los Millares	Sheep		Calcaneus	GL	55	52.4	0.021031	Peters/von den Driesch 1990
Los Millares	Sheep		Calcaneus	GL	55.5	52.4	0.024962	Peters/von den Driesch 1990
Los Millares	Sheep		Calcaneus	GL	56.5	52.4	0.032717	Peters/von den Driesch 1990
Los Millares	Sheep		Calcaneus	GL	57.5	52.4	0.040337	Peters/von den Driesch 1990
Los Millares	Sheep		Astragalus	GLI	28.7	26.7	0.031371	Peters/von den Driesch 1990
Los Millares	Sheep		Astragalus	Bd	18	17.6	0.00976	Peters/von den Driesch 1990
Los Millares	Sheep		Calcaneus	GL	55	52.4	0.021031	Peters/von den Driesch 1990
Los Millares	Sheep		Calcaneus	GL	55.5	52.4	0.024962	Peters/von den Driesch 1990
Los Millares	Sheep		Calcaneus	GL	56.5	52.4	0.032717	Peters/von den Driesch 1990
Los Millares	Sheep		Calcaneus	GL	57.5	52.4	0.040337	Peters/von den Driesch 1990
Los Millares	Sheep		Metatarsus	Bd	22	22.7	-0.0136	Peters/von den Driesch 1990
Los Millares	Sheep		Metatarsus	Bd	24	22.7	0.024185	Peters/von den Driesch 1990
Los Millares	Goat		Scapula	SLC	16	18.9	-0.07234	Peters/von den Driesch 1990
Los Millares	Goat		Scapula	GLP	28	31	-0.0442	Peters/von den Driesch 1990
Los Millares	Goat		Humerus	BT	26.5	26.8	-0.00489	Peters/von den Driesch 1990
Los Millares	Goat		Humerus	BT	26.5	26.8	-0.00489	Peters/von den Driesch 1990
Los Millares	Goat		Humerus	BT	27	26.8	0.003229	Peters/von den Driesch 1990
Los Millares	Goat		Humerus	BT	28	26.8	0.019023	Peters/von den Driesch 1990
Los Millares	Goat		Humerus	BT	28.5	26.8	0.02671	Peters/von den Driesch 1990
Los Millares	Goat		Humerus	BT	30.5	26.8	0.056165	Peters/von den Driesch 1990
Los Millares	Goat		Humerus	BT	33	26.8	0.090379	Peters/von den Driesch 1990
Los Millares	Goat		Radius	Bp	25	30	-0.07918	Peters/von den Driesch 1990
Los Millares	Goat		Radius	Bp	27.5	30	-0.03779	Peters/von den Driesch 1990
Los Millares	Goat		Radius	Bp	27.5	30	-0.03779	Peters/von den Driesch 1990
Los Millares	Goat		Radius	Bp	28	30	-0.02996	Peters/von den Driesch 1990
Los Millares	Goat		Radius	Bp	29	30	-0.01472	Peters/von den Driesch 1990
Los Millares	Goat		Radius	Bp	31	30	0.01424	Peters/von den Driesch 1990
Los Millares	Goat		Radius	Bp	32.5	30	0.034762	Peters/von den Driesch 1990
Los Millares	Goat		Radius	BFp	24	26.9	-0.04954	Peters/von den Driesch 1990
Los Millares	Goat		Radius	BFp	26	26.9	-0.01478	Peters/von den Driesch 1990
Los Millares	Goat		Radius	BFp	26.5	26.9	-0.00651	Peters/von den Driesch 1990
Los Millares	Goat		Radius	BFp	27	26.9	0.001611	Peters/von den Driesch 1990
Los Millares	Goat		Radius	BFp	27.5	26.9	0.00958	Peters/von den Driesch 1990
Los Millares	Goat		Radius	BFp	28	26.9	0.017406	Peters/von den Driesch 1990
Los Millares	Goat		Radius	BFp	31.5	26.9	0.068558	Peters/von den Driesch 1990
Los Millares	Goat		Tibia	Bd	22	25.1	-0.05725	Peters/von den Driesch 1990
Los Millares	Goat		Tibia	Bd	23	25.1	-0.03795	Peters/von den Driesch 1990
Los Millares	Goat		Tibia	Bd	23.5	25.1	-0.02861	Peters/von den Driesch 1990

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Los Millares	Goat		Tibia	Bd	25.5	25.1	0.006866	Peters/von den Driesch 1990
Los Millares	Goat		Tibia	Bd	26.5	25.1	0.023572	Peters/von den Driesch 1990
Los Millares	Goat		Tibia	Bd	27	25.1	0.03169	Peters/von den Driesch 1990
Los Millares	Goat		Tibia	Bd	28	25.1	0.047484	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	Bd	16	17.6	-0.04139	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	Bd	16.5	17.6	-0.02803	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	Bd	17	17.6	-0.01506	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	Bd	17	17.6	-0.01506	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	Bd	17.5	17.6	-0.00247	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	Bd	20	17.6	0.055517	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	Bd	22.5	17.6	0.10667	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	GLI	25.5	26.7	-0.01997	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	GLI	26	26.7	-0.01154	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	GLI	26.5	26.7	-0.00327	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	GLI	27	26.7	0.004853	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	GLI	29	26.7	0.035887	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	GLI	30.5	26.7	0.057789	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	GLI	34	26.7	0.104968	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	DL	13	14.7	-0.05337	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	DL	13.5	14.7	-0.03698	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	DL	14	14.7	-0.02119	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	DL	14	14.7	-0.02119	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	DL	15	14.7	0.008774	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	DL	17.5	14.7	0.075721	Peters/von den Driesch 1990
Los Millares	Goat		Astragalus	DL	18	14.7	0.087955	Peters/von den Driesch 1990
Los Millares	Goat		Metacarpus	Bp	24	21.2	0.053875	Peters/von den Driesch 1990
Los Millares	Goat		Metacarpus	Bp	30	21.2	0.150785	Peters/von den Driesch 1990
Los Millares	Goat		Metacarpus	Bd	28	23.6	0.074246	Peters/von den Driesch 1990
Los Millares	Goat		Metatarsus	GL	115.5	121.4	-0.02164	Peters/von den Driesch 1990
Los Millares	Goat		Metatarsus	SD	12	10.9	0.041755	Peters/von den Driesch 1990
Los Millares	Goat		Metatarsus	Bd	23	22.7	0.005702	Peters/von den Driesch 1990
Los Millares	Goat		Metatarsus	Bd	21.5	22.7	-0.02359	Peters/von den Driesch 1990
Los Millares	Goat		Metatarsus	Bd	22	22.7	-0.0136	Peters/von den Driesch 1990
Los Millares	Goat		Metatarsus	Bd	25.5	22.7	0.050514	Peters/von den Driesch 1990
Los Millares	Goat		Metatarsus	Bd	27.5	22.7	0.083307	Peters/von den Driesch 1990
CERRO I-LOS CASTILLEJOS								
Cerro I Los Castillejos	Sheep		Astragalus	GLI	30.5	26.7	0.057789	Castaños Ugarte 1997
Cerro I Los Castillejos	Sheep		Astragalus	Bd	19.8	17.6	0.051153	Castaños Ugarte 1997
Cerro I Los Castillejos	Sheep		Astragalus	DL	17.5	14.7	0.075721	Castaños Ugarte 1997
Cerro I Los Castillejos	Sheep		Calcaneus	GL	53.5	52.4	0.009022	Castaños Ugarte 1997
Cerro I Los Castillejos	Sheep		Metacarpus	Bp	24	21.2	0.053875	Castaños Ugarte 1997
Cerro I Los Castillejos	Goat		Scapula	SLC	16.7	18.9	-0.05375	Castaños Ugarte 1997
Cerro I Los Castillejos	Goat		Scapula	SLC	16.3	18.9	-0.06427	Castaños Ugarte 1997
Cerro I Los Castillejos	Goat		Scapula	SLC	17	18.9	-0.04601	Castaños Ugarte 1997
Cerro I Los Castillejos	Goat		Scapula	GLP	29.5	31	-0.02154	Castaños Ugarte 1997
Cerro I Los Castillejos	Goat		Scapula	GLP	28.5	31	-0.03652	Castaños Ugarte 1997
Cerro I Los Castillejos	Goat		Scapula	GLP	29	31	-0.02896	Castaños Ugarte 1997

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
CASTILLEJOS DE MONTEFRÍO								
Castillejos de Montefrío	Sheep		Scapula	SLC	18.5	18.9	-0.00929	Ziegler 1990
Castillejos de Montefrío	Sheep		Scapula	SLC	19.5	18.9	0.013573	Ziegler 1990
Castillejos de Montefrío	Sheep		Scapula	SLC	22	18.9	0.065961	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Scapula	GLP	32	31	0.013788	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Scapula	GLP	33	31	0.027152	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Scapula	GLP	31.3	31	0.004183	Ziegler 1990
Castillejos de Montefrío	Sheep		Scapula	GLP	30	31	-0.01424	Ziegler 1990
Castillejos de Montefrío	Sheep		Humerus	BT	29	26.8	0.034263	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Humerus	BT	30.5	26.8	0.056165	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Humerus	BT	30.5	26.8	0.056165	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Humerus	BT	30	26.8	0.048986	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Humerus	BT	26	26.8	-0.01316	Ziegler 1990
Castillejos de Montefrío	Sheep		Humerus	BT	30.5	26.8	0.056165	Ziegler 1990
Castillejos de Montefrío	Sheep		Radius	Bp	30	30	0	Ziegler 1990
Castillejos de Montefrío	Sheep		Radius	Bp	32.5	30	0.034762	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Radius	Bp	31	30	0.01424	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Radius	BFp	27	26.9	0.001611	Ziegler 1990
Castillejos de Montefrío	Sheep		Metacarpus	Bp	22	21.2	0.016087	Ziegler 1990
Castillejos de Montefrío	Sheep		Metacarpus	Bp	22.8	21.2	0.031599	Ziegler 1990
Castillejos de Montefrío	Sheep		Metacarpus	Bd	26	21.2	0.088637	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Tibia	Bd	25	25.1	-0.00173	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Tibia	Bd	31	25.1	0.091688	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Tibia	Bd	25	25.1	-0.00173	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Tibia	Bd	30	25.1	0.077448	Ziegler 1990
Castillejos de Montefrío	Sheep		Tibia	Bd	26	25.1	0.0153	Ziegler 1990
Castillejos de Montefrío	Sheep		Tibia	Bd	27	25.1	0.03169	Ziegler 1990
Castillejos de Montefrío	Sheep		Tibia	Bd	28.5	25.1	0.055171	Ziegler 1990
Castillejos de Montefrío	Sheep		Astragalus	GLI	31.5	26.7	0.071799	Ziegler 1990
Castillejos de Montefrío	Sheep		Astragalus	GLI	28.5	26.7	0.028334	Ziegler 1990
Castillejos de Montefrío	Sheep		Astragalus	Bd	20	17.6	0.055517	Ziegler 1990
Castillejos de Montefrío	Sheep		Astragalus	Bd	18.5	17.6	0.021659	Ziegler 1990
Castillejos de Montefrío	Sheep		Astragalus	DL	18	14.7	0.087955	Ziegler 1990
Castillejos de Montefrío	Sheep		Astragalus	DL	16	14.7	0.036803	Ziegler 1990
Castillejos de Montefrío	Sheep		Calcaneus	GL	52.5	52.4	0.000828	Ziegler 1990
Castillejos de Montefrío	Sheep		Calcaneus	GL	53.5	52.4	0.009022	Ziegler 1990
Castillejos de Montefrío	Sheep		Calcaneus	GL	54.5	52.4	0.017065	Ziegler 1990
Castillejos de Montefrío	Sheep		Calcaneus	GL	66	52.4	0.100213	Riquelme Cantal 1996
Castillejos de Montefrío	Sheep		Metatarsus	Bd	22	22.7	-0.0136	Ziegler 1990
Castillejos de Montefrío	Sheep		Metatarsus	Bd	24	22.7	0.024185	Ziegler 1990
Castillejos de Montefrío	Sheep		Metatarsus	Bd	24	22.7	0.024185	Ziegler 1990
Castillejos de Montefrío	Sheep		Metatarsus	Bd	22.5	22.7	-0.00384	Ziegler 1990
Castillejos de Montefrío	Sheep		Metatarsus	Bd	23.5	22.7	0.015042	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Scapula	SLC	18	18.9	-0.02119	Ziegler 1990
Castillejos de Montefrío	Goat		Scapula	SLC	19.5	18.9	0.013573	Ziegler 1990
Castillejos de Montefrío	Goat		Scapula	GLP	29	31	-0.02896	Ziegler 1990

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Castillejos de Montefrío	Goat		Scapula	GLP	31.5	31	0.006949	Ziegler 1990
Castillejos de Montefrío	Goat		Humerus	BT	27	26.8	0.003229	Ziegler 1990
Castillejos de Montefrío	Goat		Humerus	BT	28	26.8	0.019023	Ziegler 1990
Castillejos de Montefrío	Goat		Humerus	BT	25.5	26.8	-0.02159	Ziegler 1990
Castillejos de Montefrío	Goat		Humerus	BT	25.5	26.8	-0.02159	Ziegler 1990
Castillejos de Montefrío	Goat		Humerus	BT	27.5	26.8	0.011198	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Humerus	BT	26	26.8	-0.01316	Riquelme Cantal 1996
Castillejos de Montefrío	Wild Goat		Humerus	BT	40	26.8	0.173925	Riquelme Cantal 1996
Castillejos de Montefrío	Wild Goat		Humerus	BT	40	26.8	0.173925	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Radius	BFp	27	26.9	0.001611	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	BFp	22.5	26.9	-0.07757	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	BFp	26.5	26.9	-0.00651	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	BFp	26.5	26.9	-0.00651	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	BFp	26.8	26.9	-0.00162	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	BFp	26.5	26.9	-0.00651	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	BFp	27	26.9	0.001611	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	BFp	28.3	26.9	0.022034	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	BFp	28.5	26.9	0.025093	Ziegler 1990
Castillejos de Montefrío	Wild Goat		Radius	BFp	42	26.9	0.193497	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	28	30	-0.02996	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	23.2	30	-0.11163	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	28	30	-0.02996	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	27.5	30	-0.03779	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	28	30	-0.02996	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	28	30	-0.02996	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	28	30	-0.02996	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	28	30	-0.02996	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	29.3	30	-0.01025	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	30	30	0	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	Bp	27	30	-0.04576	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Radius	Bp	33	30	0.041393	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Radius	Bp	28.5	30	-0.02228	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Radius	Bp	28	30	-0.02996	Riquelme Cantal 1996
Castillejos de Montefrío	Wild Goat		Radius	Bp	43	30	0.156347	Ziegler 1990
Castillejos de Montefrío	Goat		Radius	SD	15.5	15.8	-0.00833	Ziegler 1990
Castillejos de Montefrío	Goat		Metacarpus	GL	111	111.8	-0.00312	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Metacarpus	Bd	23	23.6	-0.01118	Ziegler 1990
Castillejos de Montefrío	Goat		Metacarpus	Bd	24	23.6	0.007299	Ziegler 1990
Castillejos de Montefrío	Goat		Metacarpus	Bd	23	23.6	-0.01118	Ziegler 1990
Castillejos de Montefrío	Goat		Metacarpus	Bd	23	23.6	-0.01118	Ziegler 1990
Castillejos de Montefrío	Goat		Metacarpus	Bd	25.5	23.6	0.033628	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Metacarpus	Bd	28	23.6	0.074246	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Metacarpus	Bd	25	23.6	0.025028	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Metacarpus	Bp	22	21.2	0.016087	Ziegler 1990
Castillejos de Montefrío	Goat		Metacarpus	Bp	21.5	21.2	0.006103	Ziegler 1990
Castillejos de Montefrío	Goat		Metacarpus	Bp	23	21.2	0.035392	Riquelme Cantal 1996
Castillejos de Montefrío	Goat		Metacarpus	SD	14	12.6	0.045757	Riquelme Cantal 1996

Sector	Taxon	Sex	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Castillejos de Montefrio	Goat		Tibia	Bd	20.5	25.1	-0.08792	Ziegler 1990
Castillejos de Montefrio	Goat		Tibia	Bd	22	25.1	-0.05725	Ziegler 1990
Castillejos de Montefrio	Goat		Tibia	Bd	23	25.1	-0.03795	Ziegler 1990
Castillejos de Montefrio	Goat		Tibia	Bd	23	25.1	-0.03795	Riquelme Cantal 1996
Castillejos de Montefrio	Goat		Tibia	Bd	23.5	25.1	-0.02861	Riquelme Cantal 1996
Castillejos de Montefrio	Goat		Astragalus	GLI	25.5	26.7	-0.01997	Ziegler 1990
Castillejos de Montefrio	Goat		Astragalus	GLI	26.5	26.7	-0.00327	Ziegler 1990
Castillejos de Montefrio	Goat		Astragalus	GLI	28	26.7	0.020647	Ziegler 1990
Castillejos de Montefrio	Goat		Astragalus	GLI	32.5	26.7	0.085372	Riquelme Cantal 1996
Castillejos de Montefrio	Goat		Astragalus	GLI	28	26.7	0.020647	Riquelme Cantal 1996
Castillejos de Montefrio	Goat		Astragalus	Bd	17	17.6	-0.01506	Ziegler 1990
Castillejos de Montefrio	Goat		Astragalus	Bd	17.2	17.6	-0.00998	Ziegler 1990
Castillejos de Montefrio	Goat		Astragalus	Bd	16.5	17.6	-0.02803	Ziegler 1990
Castillejos de Montefrio	Goat		Astragalus	Bd	21	17.6	0.076707	Riquelme Cantal 1996
Castillejos de Montefrio	Goat		Astragalus	Bd	18.5	17.6	0.021659	Riquelme Cantal 1996
Castillejos de Montefrio	Goat		Astragalus	DL	13.5	14.7	-0.03698	Ziegler 1990
Castillejos de Montefrio	Goat		Astragalus	DL	14.8	14.7	0.002944	Ziegler 1990
Castillejos de Montefrio	Goat		Astragalus	DL	14	14.7	-0.02119	Ziegler 1990
Castillejos de Montefrio	Goat		Calcaneus	GL	52	52.4	-0.00333	Ziegler 1990
Castillejos de Montefrio	Goat		Calcaneus	GL	51.5	52.4	-0.00752	Ziegler 1990
Castillejos de Montefrio	Goat		Metatarsus	SD	12.5	10.9	0.059484	Riquelme Cantal 1996
Castillejos de Montefrio	Goat		Metatarsus	Bd	22	22.7	-0.0136	Riquelme Cantal 1996
Castillejos de Montefrio	Goat		Metatarsus	Bd	28	22.7	0.091132	Ziegler 1990
Castillejos de Montefrio	Goat		Metatarsus	Bd	22.8	22.7	0.001909	Ziegler 1990
Castillejos de Montefrio	Goat		Metatarsus	Bd	26.5	22.7	0.06722	Ziegler 1990

A.1.3 Pig/Wild Boar

Sector	Taxon	Skeletal element	Meas.	Value	Standard	Ratio	Reference
VALENCINA-CASTILLEJA							
Cerro de la Cabeza/La perrera	Pig	Scapula	SLC	19	23.8	-0.09782	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Scapula	SLC	26	23.8	0.038396	Hain 1982
Pabellón Cubierto	Pig	Scapula	SLC	17.38	23.8	-0.13653	see this work
Pabellón Cubierto	Pig	Scapula	SLC	17.62	23.8	-0.13057	see this work
Pabellón Cubierto	Pig	Scapula	SLC	18.08	23.8	-0.11938	see this work
Pabellón Cubierto	Pig	Scapula	SLC	18.39	23.8	-0.112	see this work
IES 402-403	Pig	Scapula	SLC	19.1	23.8	-0.09554	see this work
Pabellón Cubierto	Pig	Scapula	SLC	21.48	23.8	-0.04454	see this work
Pabellón Cubierto	Pig	Scapula	SLC	21.79	23.8	-0.03832	see this work
Pabellón Cubierto	Pig	Scapula	SLC	22.24	23.8	-0.02944	see this work
Pabellón Cubierto	Pig	Scapula	SLC	23.45	23.8	-0.00643	see this work
Pabellón Cubierto	Pig	Scapula	SLC	23.8	23.8	0	see this work
Pabellón Cubierto	Wild boar	Scapula	SLC	24.96	23.8	0.020668	see this work
Pabellón Cubierto	Wild boar	Scapula	SLC	29.52	23.8	0.093539	see this work
Cerro de la Cabeza/La perrera	Wild boar	Scapula	SLC	28	23.8	0.070581	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Scapula	SLC	26.5	23.8	0.046669	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Scapula	GLP	30	36.7	-0.08754	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Scapula	GLP	37	36.7	0.003536	Hain 1982
Pabellón Cubierto	Pig	Scapula	GLP	27.65	36.7	-0.12297	see this work
Pabellón Cubierto	Pig	Scapula	GLP	30.65	36.7	-0.07824	see this work
Pabellón Cubierto	Pig	Scapula	GLP	31.74	36.7	-0.06306	see this work
Pabellón Cubierto	Pig	Scapula	GLP	31.9	36.7	-0.06088	see this work
Pabellón Cubierto	Pig	Scapula	GLP	32.89	36.7	-0.0476	see this work
Cerro de la Cabeza/La perrera	Wild boar	Scapula	GLP	41	36.7	0.048118	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Scapula	GLP	38	36.7	0.015118	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Scapula	GLP	36.5	36.7	-0.00237	Hain 1982
Pabellón Cubierto	Wild boar	Scapula	GLP	44.13	36.7	0.080068	see this work
Cerro de la Cabeza/La perrera	Wild boar	Humerus	SD	22.5	16.7	0.129466	Hain 1982
Pabellón Cubierto	Pig	Humerus	SD	15.01	16.7	-0.04634	see this work
Pabellón Cubierto	Pig	Humerus	SD	15.28	16.7	-0.03859	see this work
Pabellón Cubierto	Pig	Humerus	SD	16.13	16.7	-0.01508	see this work
Pabellón Cubierto	Pig	Humerus	BT	30.72	31.3	-0.00812	see this work
Pabellón Cubierto	Wild boar	Humerus	BT	40.16	31.3	0.108249	see this work
Pabellón Cubierto	Pig	Humerus	Bd	36.26	41.1	-0.05441	see this work
Pabellón Cubierto	Pig	Humerus	Bd	37.26	41.1	-0.0426	see this work
Pabellón Cubierto	Pig	Humerus	Bd	37.79	41.1	-0.03646	see this work
Cerro de la Cabeza/La perrera	Wild boar	Humerus	Bd	53	41.1	0.110434	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Humerus	Bd	46.5	41.1	0.053611	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Humerus	Bd	42.5	41.1	0.014547	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Humerus	Bd	49	41.1	0.076354	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Humerus	Bd	32.5	41.1	-0.10196	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Humerus	Bd	40.5	41.1	-0.00639	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Radius	Bp	23	29.6	-0.10956	Hain 1982

Sector	Taxon	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro de la Cabeza/La perrera	Pig	Radius	Bp	31.5	29.6	0.027019	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Radius	Bp	36.5	29.6	0.091001	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Radius	Bp	36	29.6	0.085011	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Radius	Bp	34.5	29.6	0.066527	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Radius	Bp	32.5	29.6	0.040592	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Radius	Bp	33	29.6	0.047222	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Radius	Bp	32.5	29.6	0.040592	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Radius	Bp	33	29.6	0.047222	Hain 1982
Pabellón Cubierto	Pig	Radio	SD	13.13	17.6	-0.12725	see this work
Pabellón Cubierto	Pig	Radio	SD	16.21	17.6	-0.03573	see this work
Cerro de la Cabeza/La perrera	Wild boar	Radius	SD	25.5	17.6	0.161028	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Radius	Bd	38	34	0.048305	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Radius	Bd	40.5	34	0.075976	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Pelvis	LA	27.5	33.3	-0.08311	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Pelvis	LA	35.5	33.3	0.027784	Hain 1982
Pabellón Cubierto	Pig	Pelvis	LA	30.3	33.3	-0.041	see this work
Pabellón Cubierto	Pig	Pelvis	LA	34	33.3	0.009035	see this work
Pabellón Cubierto	Pig	Pelvis	LA	32.62	33.3	-0.00896	see this work
Cerro de la Cabeza/La perrera	Wild boar	Pelvis	LA	41.5	33.3	0.095604	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Pelvis	LA	36	33.3	0.033858	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Pelvis	LA	37	33.3	0.045757	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Pelvis	LA	36	33.3	0.033858	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Tibia	Bd	24.5	30.8	-0.09938	Hain 1982
Cerro de la Cabeza/La perrera	Pig	Tibia	Bd	32.5	30.8	0.023333	Hain 1982
Pabellón Cubierto	Pig	Tibia	Bd	25.95	30.8	-0.07441	see this work
Pabellón Cubierto	Pig	Tibia	Bd	25.21	30.8	-0.08698	see this work
Pabellón Cubierto	Pig	Tibia	Bd	25.42	30.8	-0.08338	see this work
Pabellón Cubierto	Pig	Tibia	Bd	25.76	30.8	-0.0776	see this work
Pabellón Cubierto	Pig	Tibia	Bd	26.17	30.8	-0.07075	see this work
Pabellón Cubierto	Pig	Tibia	Bd	26.77	30.8	-0.0609	see this work
Pabellón Cubierto	Pig	Tibia	Bd	26.88	30.8	-0.05912	see this work
Sector de la Cabeza/La Perrera	Pig	Tibia	Bd	27.8	30.8	-0.04451	Hain 1982
Pabellón Cubierto	Ind	Tibia	Bd	30.68	30.8	-0.0017	see this work
Cerro de la Cabeza/La perrera	Wild boar	Tibia	Bd	36	30.8	0.067752	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Tibia	Bd	37	30.8	0.079651	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	Tibia	Bd	36	30.8	0.067752	Hain 1982
Pabellón Cubierto	Wild boar	Tibia	Bd	34.27	30.8	0.046363	see this work
Pabellón Cubierto	Pig	Tibia	SD	16.05	14.9	0.032289	see this work
Pabellón Cubierto	Pig	Tibia	SD	17.31	14.9	0.065111	see this work
Pabellón Cubierto	Pig	Tibia	SD	17.39	14.9	0.067113	see this work
Pabellón Cubierto	Pig	Tibia	SD	18.44	14.9	0.092575	see this work
Pabellón Cubierto	Pig	Tibia	SD	14.85	14.9	-0.00146	see this work
Pabellón Cubierto	Pig	Calcaneus	GL	68.06	79.3	-0.06638	see this work
Pabellón Cubierto	Pig	Calcaneus	GL	77.81	79.3	-0.00824	see this work
Cerro de la Cabeza/La Perrera	Pig	Calcaneus	GL	76.1	79.3	-0.01789	see this work
Cerro de la Cabeza/La Perrera	Pig	Calcaneus	GL	70.5	79.3	-0.05108	Hain 1982

Sector	Taxon	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro de la Cabeza/La Perrera	Pig	Calcaneus	GL	82.5	79.3	0.017181	Hain 1982
Cerro de la Cabeza/La Perrera	Wild boar	Calcaneus	GL	96	79.3	0.082998	Hain 1982
Cerro de la Cabeza/La Perrera	Pig	McIII	GL	62.5	73.9	-0.07276	Hain 1982
Cerro de la Cabeza/La Perrera	Pig	McIII	GL	74	73.9	0.000587	Hain 1982
Pabellón Cubierto	Pig	McIII	GL	65.85	73.9	-0.05009	see this work
Pabellón Cubierto	Pig	McIII	GL	67.3	73.9	-0.04063	see this work
Cerro de la Cabeza/La Perrera	Pig	McIII	GL	69.1	73.9	-0.02917	Hain 1982
Pabellón Cubierto	Pig	McIII	GL	72.05	73.9	-0.01101	see this work
Pabellón Cubierto	Wild boar	McIII	GL	77.81	73.9	0.022391	see this work
Cerro de la Cabeza/La perrera	Wild boar	McIII	GL	79.5	73.9	0.031723	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	McIII	GL	81	73.9	0.039841	Hain 1982
Cerro de la Cabeza/La perrera	Pig	McIV	GL	62	75.7	-0.0867	Hain 1982
Cerro de la Cabeza/La perrera	Pig	McIV	GL	72	75.7	-0.02176	Hain 1982
Pabellón Cubierto	Pig	McIV	GL	72.04	75.7	-0.02152	see this work
Cerro de la Cabeza/La perrera	Wild boar	McIV	GL	79	75.7	0.018531	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	McIV	GL	82.5	75.7	0.037358	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	McIV	GL	88.5	75.7	0.067847	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	McIV	GL	80.5	75.7	0.0267	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	McIV	GL	83.5	75.7	0.042591	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	McIV	GL	81	75.7	0.029389	Hain 1982
Cerro de la Cabeza/La perrera	Pig	MtIII	GL	72.5	83	-0.05874	Hain 1982
Cerro de la Cabeza/La perrera	Pig	MtIII	GL	85	83	0.010341	Hain 1982
Pabellon Cubierto 195-214	Pig	MtIII	GL	72.85	83	-0.05665	see this work
Cerro de la Cabeza/La perrera	Pig	MtIV	GL	76	86.8	-0.05771	Hain 1982
Cerro de la Cabeza/La perrera	Pig	MtIV	GL	89	86.8	0.01087	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	MtIV	GL	88	86.8	0.005963	Hain 1982
Cerro de la Cabeza/La perrera	Wild boar	MtIV	GL	90	86.8	0.015723	Hain 1982
CARMONA							
Ronda del Cenicero	Pig	Humerus	Bd	33.05	41.1	-0.09467	see this work
Dolores Quintanilla 6, sector 2	Wild boar	Radio	Bp	32.1	29.6	0.035213	Moreno García 1999
Dolores Quintanilla, 6. Sector 10	Pig	Scapula	GLP	32.4	36.7	-0.05412	Moreno García 1999
Dolores Quintanilla, 6. Sector 10	Pig	Scapula	SLC	20	23.8	-0.07555	Moreno García 1999
Dolores Quintanilla, 6. Sector 5	Wild boar	Scapula	SLC	26.1	23.8	0.040064	Moreno García 1999
Dolores Quintanilla, 6. Sector 12	Wild boar	Scapula	SLC	26.7	23.8	0.049934	Moreno García 1999
LA LOMA DEL REAL TESORO II							
E17-26 (fusing)	Pig	Humerus	Bd	35.87	41.1	-0.05911	see this work
E17-26 (fusing)	Pig	Humerus	SD	14.1	16.7	-0.0735	see this work
E9-57	Pig	Humerus	SD	16.1	16.7	-0.01589	see this work
E3-28	Pig	Radio	Bp	27.56	29.6	-0.03101	see this work
E17-26	Pig	Scapula	SLC	21.69	23.8	-0.04032	see this work
LOS MILLARES							
Los Millares	Pig	Humerus	Bd	34	41.1	-0.08236	Peters/von den Driesch 1990
Los Millares	Pig	Humerus	Bd	34	41.1	-0.08236	Peters/von den Driesch 1990
Los Millares	Pig	Humerus	Bd	35	41.1	-0.06977	Peters/von den Driesch 1990
Los Millares	Pig	Humerus	Bd	36	41.1	-0.05754	Peters/von den Driesch 1990
Los Millares	Pig	Humerus	Bd	36.5	41.1	-0.05155	Peters/von den Driesch 1990

Sector	Taxon	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Los Millares	Wild boar	Humerus	Bd	51	41.1	0.093728	Peters/von den Driesch 1990
Los Millares	Pig	MC III	GL	54	73.9	-0.13625	Peters/von den Driesch 1990
Los Millares	Pig	MT III	GL	70	83	-0.07398	Peters/von den Driesch 1990
Los Millares	Pig	MT III	GL	71	83	-0.06782	Peters/von den Driesch 1990
Los Millares	Pig	MT III	GL	73.5	83	-0.05279	Peters/von den Driesch 1990
Los Millares	Pig	MT III	GL	78	83	-0.02698	Peters/von den Driesch 1990
Los Millares	Pig	MTIV	GL	76.5	86.8	-0.05486	Peters/von den Driesch 1990
Los Millares	Pig	Radio	Bp	26	29.6	-0.05632	Peters/von den Driesch 1990
Los Millares	Pig	Radio	Bp	26.5	29.6	-0.04805	Peters/von den Driesch 1990
Los Millares	Pig	Radio	Bp	26.5	29.6	-0.04805	Peters/von den Driesch 1990
Los Millares	Wild boar	Radio	Bp	35.5	29.6	0.078937	Peters/von den Driesch 1990
Los Millares	Pig	Scapula	GLP	32	36.7	-0.05952	Peters/von den Driesch 1990
Los Millares	Pig	Scapula	GLP	34	36.7	-0.03319	Peters/von den Driesch 1990
Los Millares	Pig	Scapula	SLC	22	23.8	-0.03415	Peters/von den Driesch 1990
Los Millares	Ind	Scapula	SLC	25.5	23.8	0.029963	Peters/von den Driesch 1990
Los Millares	Pig	Tibia	Bd	26	30.8	-0.07358	Peters/von den Driesch 1990
CERRO I-LOS CASTILLEJOS							
Cerro I Los Castillejos	Pig	Calcaneus	GL	68.5	79.3	-0.06358	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Calcaneus	GL	84	79.3	0.025006	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Calcaneus	GL	100	79.3	0.100727	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	32.5	41.1	-0.10196	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	33.5	41.1	-0.0888	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	34	41.1	-0.08236	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	34	41.1	-0.08236	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	34.4	41.1	-0.07728	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	34.5	41.1	-0.07602	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	35	41.1	-0.06977	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	35	41.1	-0.06977	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	36.5	41.1	-0.05155	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	37	41.1	-0.04564	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	37.5	41.1	-0.03981	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	39	41.1	-0.02278	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	Bd	39.5	41.1	-0.01724	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Humerus	Bd	45	41.1	0.039371	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Humerus	Bd	46	41.1	0.048916	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	27.5	31.3	-0.05621	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	27.5	31.3	-0.05621	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	28	31.3	-0.04839	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	28.5	31.3	-0.0407	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	29	31.3	-0.03315	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	29	31.3	-0.03315	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	29.5	31.3	-0.02572	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	29.5	31.3	-0.02572	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	31.5	31.3	0.002766	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	33	31.3	0.02297	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	33	31.3	0.02297	Castaños Ugarte 1997

Sector	Taxon	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro I Los Castillejos	Pig	Humerus	BT	34	31.3	0.035935	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Humerus	BT	34.5	31.3	0.042275	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Humerus	BT	38.5	31.3	0.089916	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Humerus	BT	40	31.3	0.106516	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	MC III	GL	65.5	73.9	-0.0524	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	MC III	GL	69	73.9	-0.0298	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	MC III	GL	71	73.9	-0.01739	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	MC III	GL	87	73.9	0.070875	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	MC III	GL	92	73.9	0.095143	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	MC III	GL	92.5	73.9	0.097497	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	MCIV	GL	83.5	75.7	0.042591	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	MTIII	GL	92.5	83	0.047064	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Pelvis	LAR	32	33.3	-0.01729	Castaños Ugarte 1997
Cerro I Los Castillejos	Ind	Pelvis	LAR	34	33.3	0.009035	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Radio	Bp	26	29.6	-0.05632	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Radio	Bp	26	29.6	-0.05632	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Radio	Bp	27	29.6	-0.03993	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Radio	Bp	27.5	29.6	-0.03196	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Radio	Bp	27.5	29.6	-0.03196	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Radio	Bp	32.5	29.6	0.040592	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Radio	Bp	35	29.6	0.072776	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Radio	Bp	35	29.6	0.072776	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Radio	Bp	36	29.6	0.085011	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	GLP	29.5	36.7	-0.09484	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	GLP	30.5	36.7	-0.08037	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	GLP	30.5	36.7	-0.08037	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	GLP	32.5	36.7	-0.05278	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	GLP	32.5	36.7	-0.05278	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	GLP	34.5	36.7	-0.02685	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	20.5	23.8	-0.06482	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	20.5	23.8	-0.06482	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	21	23.8	-0.05436	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	21.5	23.8	-0.04414	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	21.5	23.8	-0.04414	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	21.5	23.8	-0.04414	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	22	23.8	-0.03415	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	22.5	23.8	-0.02439	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	22.5	23.8	-0.02439	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	23.5	23.8	-0.00551	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	24.5	23.8	0.012589	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Scapula	SLC	25	23.8	0.021363	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Scapula	SLC	29.5	23.8	0.093245	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Scapula	SLC	30.5	23.8	0.107723	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Tibia	Bd	26.5	30.8	-0.0653	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Tibia	Bd	28.5	30.8	-0.03371	Castaños Ugarte 1997
Cerro I Los Castillejos	Pig	Tibia	Bd	29	30.8	-0.02615	Castaños Ugarte 1997

Sector	Taxon	Skeletal element	Meas.	Value	Standard	Ratio	Reference
Cerro I Los Castillejos	Pig	Tibia	Bd	32	30.8	0.016599	Castaños Ugarte 1997
Cerro I Los Castillejos	Wild boar	Tibia	Bd	34.5	30.8	0.049268	Castaños Ugarte 1997
CASTILLEJOS DE MONTEFRÍO							
IV/V	Pig	Calcaneus	GL	77	79.3	-0.01278	Ziegler 1990
V, VI	Pig	Calcaneus	GL	71	79.3	-0.04801	Ziegler 1990
V, VI	Pig	Calcaneus	GL	74	79.3	-0.03004	Ziegler 1990
IV	Wild boar	Calcaneus	GL	100	79.3	0.100727	Ziegler 1990
F15	Wild boar?	Calcaneus	GL	97.5	79.3	0.089731	Riquelme Cantal 1996
F22 C. Final	Wild boar	Calcaneus	GL	86.5	79.3	0.037743	Riquelme Cantal 1996
F18 C. Ant	Wild boar	Calcaneus	GL	95.5	79.3	0.08073	Riquelme Cantal 1996
IV/V	Pig	Humerus	Bd	40.5	41.1	-0.00639	Ziegler 1990
V	Pig	Humerus	Bd	34	41.1	-0.08236	Ziegler 1990
V	Pig	Humerus	Bd	40	41.1	-0.01178	Ziegler 1990
VII	Pig	Humerus	Bd	33	41.1	-0.09533	Ziegler 1990
III	Wild boar	Humerus	Bd	49.5	41.1	0.080763	Ziegler 1990
V	Wild boar?	Pelvis	LA	35	33.3	0.021624	Ziegler 1990
V	Wild boar	Pelvis	LA	37.5	33.3	0.051587	Ziegler 1990
V	Wild boar?	Pelvis	LAR	31.5	33.3	-0.02413	Ziegler 1990
V	Wild boar	Pelvis	LAR	35	33.3	0.021624	Ziegler 1990
V	Pig	Radio	Bd	28.5	34	-0.07663	Ziegler 1990
V	Pig	Radio	Bp	25	29.6	-0.07335	Ziegler 1990
V	Pig	Radio	Bp	27.5	29.6	-0.03196	Ziegler 1990
F18 C. Ant.	Pig	Radio	Bp	31.5	29.6	0.027019	Riquelme Cantal 1996
F17 C. Ant	Wild boar?	Radio	Bp	36	29.6	0.085011	Riquelme Cantal 1996
VI,VII	Wild boar	Radio	Bp	36.5	29.6	0.091001	Ziegler 1990
F22 C. Final	Wild boar?	Radio	Bp	37	29.6	0.09691	Riquelme Cantal 1996
V	Pig	McIII	GL	63.5	73.9	-0.06587	Ziegler 1990
IV	Wild boar	McIII	GL	82.5	73.9	0.04781	Ziegler 1990
IV	Wild boar	McIV	GL	83	75.7	0.039982	Ziegler 1990
IV	Wild boar	McIV	GL	88.5	75.7	0.067847	Ziegler 1990
F23	Pig	Tibia	Bd	24.5	30.8	-0.09938	Riquelme Cantal 1996
V	Pig	Tibia	Bd	25.5	30.8	-0.08201	Ziegler 1990
F22	Pig	Tibia	Bd	26	30.8	-0.07358	Riquelme Cantal 1996
V	Pig	Tibia	Bd	27	30.8	-0.05719	Ziegler 1990
F18	Pig	Tibia	Bd	27	30.8	-0.05719	Riquelme Cantal 1996
V	Pig	Tibia	Bd	27.5	30.8	-0.04922	Ziegler 1990
V	Pig	Tibia	Bd	28	30.8	-0.04139	Ziegler 1990
V	Pig	Tibia	Bd	28.5	30.8	-0.03371	Ziegler 1990
F20	Wild boar?	Tibia	Bd	34	30.8	0.042928	Riquelme Cantal 1996
F16	Wild boar?	Tibia	Bd	36.5	30.8	0.073742	Riquelme Cantal 1996
IV	Wild boar	MtIII	GL	100	83	0.080922	Ziegler 1990
F17	Pig	MtIV	GL	75.5	86.8	-0.06057	Riquelme Cantal 1996
IV	Wild boar	MtIV	GL	107	86.8	0.090864	Ziegler 1990
V	Wild boar?	MtIV	GL	87.5	86.8	0.003488	Ziegler 1990

Appendix 2: List of Samples

A.2.1 Phytolith Analysis and Infrared Spectrometry (FTIR)

Sample	Structure	Stratigraphic Unit
LRT-001	1	53
LRT-002	1	55
LRT-003	2	30
LRT-004	2	31
LRT-005	3	38
LRT-006	3	46
LRT-007	4	36
LRT-008	7	29
LRT-009	8	8
LRT-010	11	47
LRT-011	16	33
LRT-012	18	59
LRT-013	Control sample	1
LRT-014	Control sample	1
LRT-015	Control sample	1

Table A.2.1. List of phytolith samples taken by structure.

A.2.3 Carpological Analysis

Sample	Structure	Stratigraphic Unit
LRT-001	1	55
LRT-002	2	30
LRT-003	2	31
LRT-004	3	38
LRT-005	4	36
LRT-006	9	57
LRT.007	17	26

Table A.2.3. List of carpological analyses by structures.

A.2.2 Palynological Analysis

Sample	Structure	Stratigraphic Unit
LRT-01	1	10
LRT-02	1	53
LRT-03	1	55
LRT-04	2	12
LRT-05	2	31
LRT-06	3	38
LRT-07	4	4
LRT-08	7	29
LRT-09	9	18
LRT-010	9	57
LRT-011	11	47

Table A.2.2. List of palynological analyses taken by structures.

A.2.4 Anthracological Analysis

Sample	Structure	Stratigraphic Unit
LRT1MC-1	E12	1.3 m deep
LRT1MC-2	E12	0.4 m deep
LRT1MC-3	E12	1.05 m deep
LRT4C-1	E5/6	0.60 m deep
LRT4C-2	E5/6	0.90 m deep
LRT4C-3	E5/6	1.10 m deep
LRT5C-1	E1	1.25 m deep
LRT5C-2	E1	1.55 m deep

Table A.2.4. List of anthracological analyses by structures.

A.2.5 Radiocarbon Dates

Sample	Site	Sector	Structure/SU	Specie
LA Loma DEL TESORO II				
LRT-001	La Loma del Real Tesoro II	LRT-II	E1/10	<i>Bos taurus</i>
LRT-002	La Loma del Real Tesoro II	LRT-II	E1/56	Mesomammal
LRT-003	La Loma del Real Tesoro II	LRT-II	E1/61	Caprine
LRT-004	La Loma del Real Tesoro II	LRT-II	E2/22	<i>Cervus elaphus</i>
LRT-005	La Loma del Real Tesoro II	LRT-II	E2/31	Macromammal
LRT-006	La Loma del Real Tesoro II	LRT-II	E3/28	Caprine
LRT-007	La Loma del Real Tesoro II	LRT-II	E3/38	Caprine
LRT-008	La Loma del Real Tesoro II	LRT-II	E4/4	<i>Bos taurus</i>
LRT-009	La Loma del Real Tesoro II	LRT-II	E4/36	<i>Canis fam.</i>
LRT-010	La Loma del Real Tesoro II	LRT-II	E7/29	Mesomammal
LRT-011	La Loma del Real Tesoro II	LRT-II	E8/8	<i>Bos taurus</i>
LRT-012	La Loma del Real Tesoro II	LRT-II	E9/37	Macromamma
LRT-013	La Loma del Real Tesoro II	LRT-II	E9/64	Macromammal
LRT-014	La Loma del Real Tesoro II	LRT-II	E12/42	Macromammal
LRT-015	La Loma del Real Tesoro II	LRT-II	E17/26	<i>Sus sp.</i>
LRT-016	La Loma del Real Tesoro II	LRT-II	E18/59	<i>Bos prim.</i>
LRT-017	La Loma del Real Tesoro II	LRT-II	E1/61	Caprine
LRT-018	La Loma del Real Tesoro II	LRT-II	E2/22	<i>Cervus elaphus</i>
LRT-019	La Loma del Real Tesoro II	LRT-II	E2/31	Macromammal
LRT-020	La Loma del Real Tesoro II	LRT-II	E3/28	Caprine
LRT-021	La Loma del Real Tesoro II	LRT-II	E3/38	Caprine
LRT-022	La Loma del Real Tesoro II	LRT-II	E4/4	<i>Bos taurus</i>
LRT-023	La Loma del Real Tesoro II	LRT-II	E4/36	<i>Canis fam</i>
LRT-024	La Loma del Real Tesoro II	LRT-II	E7/29	Mesomammal
LRT-025	La Loma del Real Tesoro II	LRT-II	E8/8	<i>Bos taurus</i>
LRT-026	La Loma del Real Tesoro II	LRT-II	E9/64	Macromammal
LRT-027	La Loma del Real Tesoro II	LRT-II	E12/42	Macromammal
LRT-028	La Loma del Real Tesoro II	LRT-II	E17/26	<i>Sus sp.</i>
LRT-029	La Loma del Real Tesoro II	LRT-II	E18/59	<i>Bos prim.</i>
LRT-030	La Loma del Real Tesoro II	LRT-II	E1/10	<i>Equus sp.</i>
LRT-031	La Loma del Real Tesoro II	LRT-II	E1/53	<i>Bos taurus</i>
LRT-032	La Loma del Real Tesoro II	LRT-II	E2/22	Mesomammal
LRT-033	La Loma del Real Tesoro II	LRT-II	E2/31	<i>Bos taurus</i>
LRT-034	La Loma del Real Tesoro II	LRT-II	E3/38	Mesomammal
LRT-035	La Loma del Real Tesoro II	LRT-II	E17/26	<i>Sus sp.</i>
LRT-036	La Loma del Real Tesoro II	LRT-II	E18/59	<i>Bos taurus</i>
LRT-037	La Loma del Real Tesoro II	LRT-II	E19/66	Macromammal
LRT-038	La Loma del Real Tesoro II	LRT-II	E1/61	<i>Sus sp.</i>
LRT-039	La Loma del Real Tesoro II	LRT-II	E4/4	Caprine
LRT-040	La Loma del Real Tesoro II	LRT-II	E4/36	Macromammal
LRT-041	La Loma del Real Tesoro II	LRT-II	E7/29	<i>Sus sp.</i>
LRT-042	La Loma del Real Tesoro II	LRT-II	E12/42	<i>Cervus elaphus</i>

Table A.2.5. List of samples for radiocarbon dates (part 1/2).

Sample	Site	Sector	Structure/SU	Specie
LRT-043	La Loma del Real Tesoro II	LRT-II	E11/40	Macromammal
LRT-044	La Loma del Real Tesoro II	LRT-II	E19/66	<i>Bos taurus</i>
LRT-045	La Loma del Real Tesoro II	LRT-II	E19/66	<i>Equus sp.</i>
LRT-046	La Loma del Real Tesoro II	LRT-II	E17/49	<i>Bos taurus</i>
LRT-047	La Loma del Real Tesoro II	LRT-II	E17/49	<i>Bos taurus</i>
LRT-048	La Loma del Real Tesoro II	LRT-II	E17/26	Macromammal
LRT-049	La Loma del Real Tesoro II	LRT-II	E19/66	Caprine
LRT-050	La Loma del Real Tesoro II	LRT-II	E17/26	<i>Sus sp.</i>
LRT-051	La Loma del Real Tesoro II	LRT-II	E17/26	<i>Sus sp.</i>
LRT-052	La Loma del Real Tesoro II	LRT-II	E3/28	<i>Bos taurus</i>
LRT-053	La Loma del Real Tesoro II	LRT-II	E2/22	<i>Cervus elaphus</i>
LRT-054	La Loma del Real Tesoro II	LRT-II	E3/27	<i>Sus sp.</i>
LRT-055	La Loma del Real Tesoro II	LRT-II	E2/30	<i>Sus sp.</i>
LRT-056	La Loma del Real Tesoro II	LRT-II	E11/40	<i>Bos taurus</i>
LRT-057	La Loma del Real Tesoro II	LRT-II	E9/37	<i>Canis fam.</i>
LRT-058	La Loma del Real Tesoro II	LRT-II	E9/54	<i>Bos taurus</i>
LRT-059	La Loma del Real Tesoro II	LRT-II	E9/57	<i>Canis fam.</i>
LRT-060	La Loma del Real Tesoro II	LRT-II	E9/18	Mesomammal
LRT-061	La Loma del Real Tesoro II	LRT-II	E17/26	<i>Canis fam.</i>
LRT-062	La Loma del Real Tesoro II	LRT-II	E9/64	Macromammal
LRT-063	La Loma del Real Tesoro II	LRT-II	E1/61	<i>Sus sp.</i>
LRT-064	La Loma del Real Tesoro II	LRT-II	E1/61	<i>Sus sp.</i>
LRT-065	La Loma del Real Tesoro II	LRT-II	E1/10	Mesomammal
LRT-066	La Loma del Real Tesoro II	LRT-II	E1/52	<i>Cervus elaphus</i>
LRT-067	La Loma del Real Tesoro II	LRT-II	E12/42	<i>Cervus elaphus</i>
LRT-068	La Loma del Real Tesoro II	LRT-II	E1/24	<i>Bos taurus</i>
LRT-069	La Loma del Real Tesoro II	LRT-II	E1/52	Mesomammal
LRT-070	La Loma del Real Tesoro II	LRT-II	E2/22	Mesomammal
LRT-071	La Loma del Real Tesoro II	LRT-II	E12/42	Caprine
LRT-072	La Loma del Real Tesoro II	LRT-II	E3/28	<i>Bos taurus</i>
LRT-073	La Loma del Real Tesoro II	LRT-II	E4/4	<i>Bos taurus</i>
LRT-074	La Loma del Real Tesoro II	LRT-II	E17/26	<i>Bos prim.</i>
LRT-075	La Loma del Real Tesoro II	LRT-II	E19/66	<i>Cervus elaphus</i>
VALENCINA-CASTILLEJA				
VAL-359	Valencina-Castilleja	El Algarrobillo	Structure 1-SU-2	<i>Sus sp.</i>
	Valencina-Castilleja	La Gallega	Testpit 6/Level VII	<i>Sus sp.</i>
	Valencina-Castilleja	Pabellón cubierto	E116/143	<i>Bos taurus</i>
	Valencina-Castilleja	Pabellón cubierto	E116/124	<i>Sus sp.</i>
VA-1	Valencina-Castilleja	Pabellón cubierto	E115/122	Mesofauna
VA-2	Valencina-Castilleja	Pabellón cubierto	E115/123	<i>Sus sp.</i>
VA-3	Valencina-Castilleja	Pabellón cubierto	E115/144	Mesofauna
VA-7	Valencina-Castilleja	Pabellón cubierto	E195/199-level 8	Mesofauna
VAL-372	Valencina-Castilleja	IES	E402/403	<i>Cervus elaphus</i>
VAL-441	Valencina-Castilleja	C/Huelva 27	Hut/222	Mesomammal

Table A.2.5. List of samples for radiocarbon dates (part 2/2).

A.2.6 Isotopical Analyses

A.2.6.a Carbon and Nitrogen ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$)

Sample	Site	Sector	Structure/SU	Specie	Skeletal element
VALENCINA-CASTILLEJA					
VAL-421	Valencina-Castilleja	Pabellón Cubierto	115/123	<i>Sus sp.</i>	Mandible
VAL-422	Valencina-Castilleja	Pabellón Cubierto	115/144	<i>Sus sp.</i>	Maxilla
VAL-423	Valencina-Castilleja	Pabellón Cubierto	115/144	Caprine	Mandible
VAL-424	Valencina-Castilleja	Carril Bici	AI4/2	<i>Bos taurus</i>	Mandible
VAL-425	Valencina-Castilleja	Carril Bici	AI4/2	Size 2	Femur
VAL-426	Valencina-Castilleja	La Cima	-	<i>Sus sp.</i>	Mandible
VAL-427	Valencina-Castilleja	Mariana Pineda	Cuad91/level VIII	<i>Sus sp.</i>	Mandible
VAL-428	Valencina-Castilleja	La Gallega	Testpit6/Level VII	Caprine	Mandible
VAL-429	Valencina-Castilleja	La Cima	-	<i>Bos taurus</i>	Maxilla
VAL-430	Valencina-Castilleja	La Cima	-	<i>Sus sp.</i>	Mandible
VAL-431	Valencina-Castilleja	Mariana Pineda	Test pit A91/Level V	<i>Sus sp.</i>	Mandible
VAL-432	Valencina-Castilleja	Mariana Pineda	Test pit A91/Level VI	<i>Canis fam.</i>	Mandible
VAL-433	Valencina-Castilleja	Mariana Pineda	Test pit A91/Level V	Caprine	Mandible
VAL-434	Valencina-Castilleja	La Gallega	Test pit 6/Level VII	<i>Sus sp.</i>	Mandible
VAL-435	Valencina-Castilleja	Mariana Pineda	Test pit A91/Level VI	Caprine	Mandible
VAL-436	Valencina-Castilleja	La Gallega	M4/Level XIII	<i>Sus sp.</i>	Humerus
VAL-437	Valencina-Castilleja	Mariana Pineda	Test pit A81/Level V	<i>Cervus elaphus</i>	Humerus
VAL-438	Valencina-Castilleja	La Cima	-	<i>Canis fam.</i>	Mandible
VAL-439	Valencina-Castilleja	Mariana Pineda	Test pit A92/Level IV	<i>Sus sp.</i>	Os incisivus
VAL-440	Valencina-Castilleja	Mariana Pineda	Test pit 91/Level VIII	<i>Bos taurus</i>	Scapula
VAL-441	Valencina-Castilleja	C/Huelva	222	Size 2	Tibia
VAL-442	Valencina-Castilleja	C/Huelva	208	Size 2	Long bone

Table A.2.6.a. List of samples for $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$.

A.2.6.b Strontium($^{87}\text{Sr}/^{86}\text{Sr}$) and Oxygen ($\delta^{18}\text{O}$) Analyses

Sample	Sector	Structure/SU	Specie	Skeletal element	Analyses
LA LOMA DEL REAL TESORO II					
LRT-1	LRT-II	E2/22	<i>Sus sp.</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-2	LRT-II	E4/36	<i>Bos taurus</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-3	LRT-II	E7/29	<i>Sus sp.</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-4	LRT-II	E12/42	<i>Sus sp.</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-5	LRT-II	E17/26	Caprine		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-6	LRT-II	E17/26	<i>Sus sp.</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-7	LRT-II	E9/57	<i>Canis fam.</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-8	LRT-II	E12/42	Caprine		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-9	LRT-II	E19/66	<i>Equus sp.</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-10	LRT-II	E4/36	Caprine		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-11	LRT-II	E9/64	<i>Sus sp.</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-12	LRT-II	E17/26	<i>Sus sp.</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-13	LRT-II	E3/27	<i>Sus sp.</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
LRT-14	LRT-II	E1/52	<i>Bos taurus</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
CARMONA					
RDC-1b	El Picacho	D/234	<i>Sus sp.</i>	Incisor	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-2a	El Picacho	E/312	<i>Sus sp.</i>	Incisor	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-2b	El Picacho	E/312	<i>Sus sp.</i>	Incisor	$\delta^{18}\text{O}$
RDC-3b-j	El Picacho	E/312	Caprine	M3	$\delta^{18}\text{O}$
RDC-3a	El Picacho	E/312	Caprine	M3	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-3kj	El Picacho	E/312	Caprine	M3	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-4b-k	El Picacho	A/20	<i>Bos taurus</i>	M2	$\delta^{18}\text{O}$
RDC-4a	El Picacho	A/20	<i>Bos taurus</i>	M2	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-4l	El Picacho	A/20	<i>Bos taurus</i>	M2	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-5a	El Picacho	A/20	<i>Sus sp.</i>	Canine	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-5b	El Picacho	A/20	<i>Sus sp.</i>	Canine	$\delta^{18}\text{O}$
RDC-6b-e	El Picacho	A/40	Caprine	M2	$\delta^{18}\text{O}$
RDC-6a	El Picacho	A/40	Caprine	M2	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-6f	El Picacho	A/40	Caprine	M2	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-7b-d	El Picacho	A/22	<i>Bos prim.</i>	M1	$\delta^{18}\text{O}$
RDC-7a	El Picacho	A/22	<i>Bos prim.</i>	M1	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-7e	El Picacho	A/22	<i>Bos prim.</i>	M1	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-8b-i	El Picacho	A/22	<i>Bos prim.</i>	M3	$\delta^{18}\text{O}$
RDC-8a	El Picacho	A/22	<i>Bos prim.</i>	M3	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-8j	El Picacho	A/22	<i>Bos prim.</i>	M3	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-9b-i	El Picacho	A/22	<i>Bos prim.</i>	M2	$\delta^{18}\text{O}$
RDC-9a	El Picacho	A/22	<i>Bos prim.</i>	M2	$^{87}\text{Sr}/^{86}\text{Sr}$
RDC-9j	El Picacho	A/22	<i>Bos prim.</i>	M2	$^{87}\text{Sr}/^{86}\text{Sr}$

Table A.2.6.b. List of samples for $^{87}\text{Sr}/^{86}\text{Sr}$ and $\delta^{18}\text{O}$ analyses (part 1/4).

Sample	Sector	Structure/SU	Specie	Skeletal element	Analyses
VALENCINA-CASTILLEJA					
VAL-02	El Algarrobillo	C7/E1-N3. SU453	Caprine	Molar	$\delta^{18}\text{O}$
VAL-02b	El Algarrobillo	C7/E1-N3. SU453	Caprine	Molar	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-02e	El Algarrobillo	C7/E1-N3. SU453	Caprine	Molar	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-05	El Algarrobillo	C7/E1-N3. SU453	<i>Sus sp.</i>	Molar	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-36	Pabellón Cubierto	18/149	<i>Bos taurus</i>	M ²	$\delta^{18}\text{O}$
PA-36a	Pabellón Cubierto	18/149	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-36g	Pabellón Cubierto	18/149	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-36k	Pabellón Cubierto	18/149	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-37	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ¹	$\delta^{18}\text{O}$
PA-37a	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ¹	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-37e	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ¹	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-37j	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ¹	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-38	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ²	$\delta^{18}\text{O}$
PA-38g	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-38m	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-38p	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-39	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ₃	$\delta^{18}\text{O}$
PA-39a	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-39g	Pabellón Cubierto	18/169	<i>Bos taurus</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-41	Pabellón Cubierto	195/199	<i>Bos taurus</i>	M ²	$\delta^{18}\text{O}$
PA-41b	Pabellón Cubierto	195/199	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-41k	Pabellón Cubierto	195/199	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-42	Pabellón Cubierto	115/123	<i>Bos taurus</i>	M ²	$\delta^{18}\text{O}$
PA-42b	Pabellón Cubierto	115/123	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-42h	Pabellón Cubierto	115/123	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-67	Pabellón Cubierto	195/199	<i>Bos taurus</i>	M ¹	$\delta^{18}\text{O}$
PA-67i	Pabellón Cubierto	195/199	<i>Bos taurus</i>	M ¹	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-68	Pabellón Cubierto	195/199	<i>Bos taurus</i>	Molar	$\delta^{18}\text{O}$
PA-69	Pabellón Cubierto	Cuad-A91	<i>Bos taurus</i>	M ²	$\delta^{18}\text{O}$
PA-69a	Pabellón Cubierto	Cuad-A91	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-69den	Pabellón Cubierto	Cuad-A91	<i>Bos taurus</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-72	Pabellón Cubierto	116/124	<i>Bos taurus</i>	M ₃	$\delta^{18}\text{O}$
PA-72a	Pabellón Cubierto	116/124	<i>Bos taurus</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$
PA-72h	Pabellón Cubierto	116/124	<i>Bos taurus</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-100	Pabellón Cubierto	115/123	<i>Sus sp.</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-101	Pabellón Cubierto	115/123	<i>Sus sp.</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-102	Pabellón Cubierto	115/123	<i>Sus sp.</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-103	Pabellón Cubierto	115/123	<i>Sus sp.</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-104	Pabellón Cubierto	115/123	<i>Sus sp.</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-105	Pabellón Cubierto	115/123	<i>Sus sp.</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-106	Pabellón Cubierto	115/123	<i>Sus sp.</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-107	Pabellón Cubierto	115/123	<i>Sus sp.</i>	Canine	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$

Table A.2.6.b. List of samples for $^{87}\text{Sr}/^{86}\text{Sr}$ and $\delta^{18}\text{O}$ analyses (part 2/4).

Sample	Sector	Structure/SU	Specie	Skeletal element	Analyses
VAL-108	Pabellón Cubierto	115/123	<i>Bos taurus</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-108a	Pabellón Cubierto	115/123	<i>Bos taurus</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-108l	Pabellón Cubierto	115/123	<i>Bos taurus</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-109	Pabellón Cubierto	115/123	<i>Bos taurus</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-301	Emisora	2	<i>Sus sp.</i>	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-302	Emisora	2	Caprine	Pm ₂	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-310	Emisora	4	<i>Sus sp.</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-370	IES	402/403	<i>Sus sp.</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-373	IES	402/403	Caprine	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-380	PP4-Montelirio	547	<i>Sus sp.</i>	Maxilla	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-383	PP4-Montelirio	547	<i>Sus sp.</i>	Premaxilla	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-387	PP4-Montelirio	373	<i>Sus sp.</i>	M ³	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-388	PP4-Montelirio	373	<i>Sus sp.</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-400	Pabellón Cubierto	116/143	<i>Sus sp.</i>	Mandible	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-401	Pabellón Cubierto	116/143	<i>Sus sp.</i>	Mandible	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-402	Pabellón Cubierto	116/143	<i>Bos taurus</i>	Mandible	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-403	Pabellón Cubierto	116/121	<i>Sus sp.</i>	Mandible	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-404	Pabellón Cubierto	116/124	<i>Sus sp.</i>	Mandible	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-411	Pabellón Cubierto	116/124	Caprine	M ₃	$\delta^{18}\text{O}$
VAL-411a	Pabellón Cubierto	116/124	Caprine	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-411k	Pabellón Cubierto	116/124	Caprine	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-413	Pabellón Cubierto	195/199	Caprine	Mandible	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-414	Pabellón Cubierto	195/199	Caprine	Mandible	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-416	Pabellón Cubierto	195/199	Caprine	Mandible	$\delta^{18}\text{O}$
VAL-416a	Pabellón Cubierto	195/199	Caprine	Mandible	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-416m	Pabellón Cubierto	195/199	Caprine	Mandible	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-417	Pabellón Cubierto	195/199	<i>Bos taurus</i>	Molar	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
VAL-421	Pabellón Cubierto	115/123	<i>Sus sp.</i>	Mandible	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-443	Pabellón Cubierto	115/144	Caprine	PM ₄	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-445	Mariana Pineda	Test pit A91/ Level V	Caprine	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-446	Mariana Pineda	Test pit A91/ Level V	<i>Sus sp.</i>	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-447	Pabellón Cubierto	195/199	<i>Canis fam.</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-448	Pabellón Cubierto	195/199	<i>Sus sp.</i>	C ¹	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-449	Pabellón Cubierto	195/199	<i>Sus sp.</i>	M ³	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-450	Pabellón Cubierto	195/199	<i>Sus sp.</i>	M ²	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-451	Pabellón Cubierto	195/199	<i>Sus sp.</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-452	Pabellón Cubierto	195/199	Caprine	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-453	Pabellón Cubierto	195/199	<i>Sus sp.</i>	C ₁	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-454	Pabellón Cubierto	195/199	Caprine	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-455	Pabellón Cubierto	195/199	Caprine	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-456	Pabellón Cubierto	195/199	<i>Bos taurus</i>	M ¹	$^{87}\text{Sr}/^{86}\text{Sr}$

Table A.2.6.b. List of samples for $^{87}\text{Sr}/^{86}\text{Sr}$ and $\delta^{18}\text{O}$ analyses (part 3/4).

Sample	Sector	Structure/SU	Specie	Skeletal element	Analyses
VAL-457	Pabellón Cubierto		<i>Bos taurus</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-506	PP4-Montelirio		<i>Bos taurus</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
VAL-55	PP4-Montelirio		<i>Canis fam.</i>		$^{87}\text{Sr}/^{86}\text{Sr}$
EL AMARGUILLO II					
AMA-7a	2	S/Level VI	<i>Sus sp.</i>	M ₂	$\delta^{18}\text{O}$
AMA-7b	2	S/Level VI	<i>Sus sp.</i>	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$
AMA-12	2	NW/Level VIII	<i>Bos taurus</i>	M ²	$\delta^{18}\text{O}$
AMA-13b-f	2	NW/Level VIII	Caprine	M ₂	$\delta^{18}\text{O}$
AMA-13a	2	NW/Level VIII	Caprine	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$
AMA-13g	2	NW/Level VIII	Caprine	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$
AMA-21a-k	3	SE/Level III	<i>Bos taurus</i>	M ²	$\delta^{18}\text{O}$
AMA-29b-i	3	SW/Level VII	<i>Bos sp.</i>	M ³	$\delta^{18}\text{O}$
AMA-29a	3	SW/Level VII	<i>Bos sp.</i>	M ³	$^{87}\text{Sr}/^{86}\text{Sr}$
AMA-29j	3	SW/Level VII	<i>Bos sp.</i>	M ³	$^{87}\text{Sr}/^{86}\text{Sr}$
AMA-32b-d	3	W/Level IX	Caprine	M ₃	$\delta^{18}\text{O}$
AMA-32a	3	W/Level IX	Caprine	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$
AMA-32f	3	W/Level IX	Caprine	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$
AMA-41	1	SW/Level VI-VII	<i>Bos taurus</i>	M ¹	$\delta^{18}\text{O}$
AMA-49a-m	1	Level V	<i>Bos taurus</i>	M ₃	$\delta^{18}\text{O}$
POBLADO CALCOLÍTICO					
PAR-11/21	UI9		<i>Sus sp.</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
PAR-12/22	UI9		<i>Sus sp.</i>	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
PAR-13/23	UI9		<i>Sus sp.</i>	M ₂	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
PARQUE MIRAFLORES					
MIR-2	Structure I4/001	Testpit A-B/ Level 4	<i>Sus sp.</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
MIR-4	Structure I4/001	Testpit A-B/ Level 4	<i>Sus sp.</i>	M ₃	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
MIR-6	Structure I4/001	102/13	<i>Sus sp.</i>	C ^{up}	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
MIR-7	Structure I4/001	102/13	<i>Sus sp.</i>	C ^{up}	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
MIR-8	Structure I4/001	106/13	<i>Sus sp.</i>	C _{low}	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$
MIR-9	Structure I6/003	132/11	<i>Sus sp.</i>	C ^{up}	$^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$

Table A.2.6.b. List of samples for $^{87}\text{Sr}/^{86}\text{Sr}$ and $\delta^{18}\text{O}$ analyses (part 4/4).

Appendix 3: Stratigraphic Units from La Loma del Real Tesoro II

A.3.1 Structure 1

A.3.1.1 Structure CUE 1: Levels 10, 30, 36, and 38

With a maximum thickness of 48cm, level 10 is a compact medium dark brown soil with a clayey texture and medium-fine granulometry. It is present in structure 2 (level 30), structure 3 (level 38), and structure 4 (level 36). The level has medium and large pebble intrusions as well as fragments of burnt adobes. The archaeological materials in structure 1 consisted of pottery sherds, a loom weight, faunal remains, and lithic material, which included a fragment of green stone and a granite mill stone. In structure 3, sherds, faunal remains, and lithics were found. Of these lithic remains, two polished stones, a small fragment of a slate spatula, ten worked green stones and a black stone stand out. Structure 4 (level 36) features small and medium sized pebble intrusions as well as adobe fragments from the interior insulation of the structure. Archaeological material in this structure consisted of sherds, faunal remains, and lithic material, which included a grinding stone.

In structure 2, level 30 is 0.25m deep and the upper section of the level is an accumulation of adobe fragments from the insulation of the circular structure. The adobes, with an average thickness of 2 to 3cm, showed evidence of exposure to fire. The level had small coal intrusions. The cultural material in structure 2 included sherds, faunal remains, a loom weight, and lithic material, among which a sandstone mill fragment and a green stone were identified.

A.3.1.2 Level 24

With a maximum thickness of 35cm, level 24 is a medium compact reddish-brown soil level with a clayey texture and medium granulometry. The level features adobe intrusions, small fragments of charcoal, and medium-sized pebbles. Archaeological material includes pottery, faunal remains, and lithics, including small slate fragments.

One bone sample was tested for radiocarbon dating (sample LRT-68; third phalanx of a bovid) with negative results (appendix 2, *table A.2.5*) due to poor collagen preservation. Associated pottery material allowed to estimate a relative date coinciding with the end of the second half of the 3rd mill. BC.

A.3.1.3 Level 53

Level 53 fills substructure 1A and is a dark grey soil level with a high quantity of ash and coal. Burned adobe intrusions were also identified in this level. The cultural features include sherds as well as lithic and faunal remains, all featuring thermo-alterations.

A.3.1.4 Level 55

Level 55 is located at the base of structure 1, under level 50 and above level 56/61 and level 63. It was affected by substructure 1A. With a maximum thickness of 0.26m, Level 55 is a dark brown soil level of sandy-clayish texture and low compaction, which incorporates small coal intrusions. The material cultural remains include pottery, as well as burnt lithics and faunal remains. In addition, human bone remains have also been documented. According to the associated Bell Beaker pottery, a relative date at the end of the second half of the 3rd mill. BC is proposed.

A.3.1.5 Level 56a

Level 56 is a structure of adobes presenting evidence of exposure to fire. It is in the western sector of test trench 1 and located below level 55. The overall dimensions are unknown as the structure extends into the north, west, and south profiles of the test pit. The adobes were flattened and had an average thickness of 2cm. They covered a level of ashes about 4cm thick (*fig. A.3.1*). The cultural



Fig. A.3.1. Level of adobe (56a) and ash (56b) located in Structure 1.

features included Bell Beaker sherds, animal remains, and lithics.

One bone sample was sent for radiocarbon dating (LRT-002) with negative results due to poor collagen preservation (appendix 2). According to the associated Bell Beaker pottery, a relative date at the end of the second half of the 3rd mill. BC is proposed.

A.3.1.6 Level 56b

Level 61 is an ash level, about 2cm thick, that was located below level 56 as well as inserted in the

north, west, and south profiles of the test trench. No archaeological material has been documented in this level but, due to the direct association with level 56, a date in the second half of the 3rd mill. BC can be estimated.

A.3.1.7 Level 60

Level 60 is a soil level of dark brown colour and low compactness with a sandy-clay texture and medium-fine granulometry, it has a maximum thickness of 28cm. The level also has small coal intrusions. The archaeological material documented consists of pottery only. From the associated pottery material, a date at the end of the second half of the 3rd mill. BC is proposed.

A.3.2 Structure 2

A.3.2.1 Level 22-28

Level 22-28 is located at the upper part of structure 2 (level 22) and structure 3 (level 28) (fig. A.3.2). With a maximum thickness of 73cm it consists of a light brown soil level with a sandy-clay texture and low compaction, which incorporates medium and large pebbles, small coal pieces, and burned adobes with vegetal imprint intrusions. The finds of material culture include

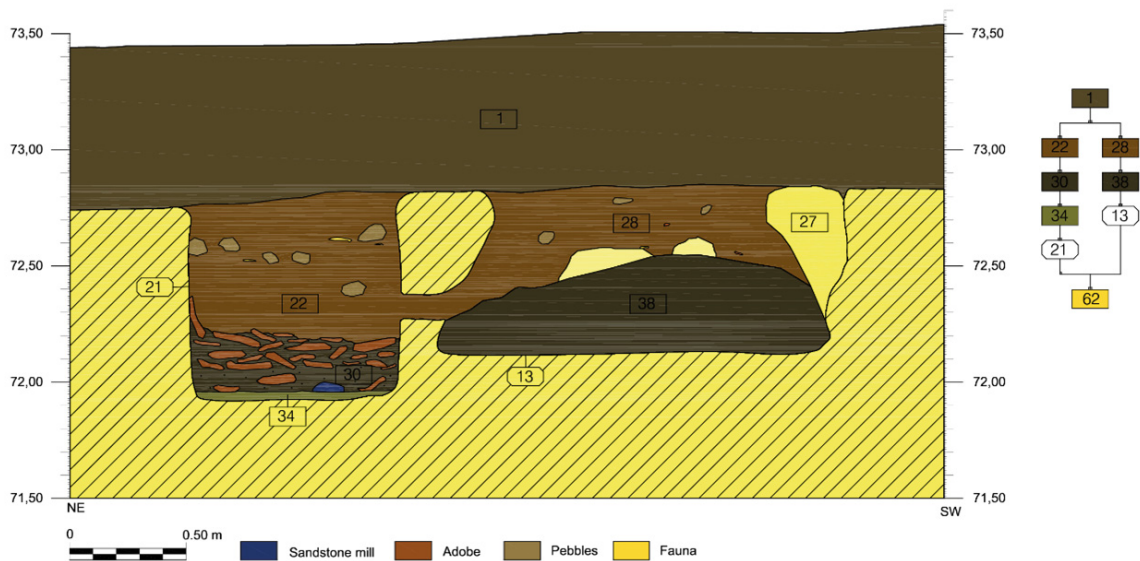


Fig. A.3.2. Profile of structure 2 (left) and structure 3 (right) at LRT-II.

Bell Beaker sherds, animal remains, and lithic artefacts. A green stone and some slate fragments were also documented in structure 2.

Nine bone samples (LRT-004, LRT-006, LRT-018, LRT-020, LRT-032, LRT-052, LRT-053, LRT-070, and LRT-072) were sent for radiocarbon analysis but all of them gave negative results due to poor collagen preservation (appendix 2). According to the associated pottery, a date towards the end of the second half of the 3rd mill. BC is estimated.

A.3.2.2 Level 30

Level 30 is a 0.13m deep level made of 57 adobe fragments which derive from the insulation of the lower part of the circular structure. The adobes had an average thickness of 2 to 3cm and showed evidence of exposure to fire. The archaeological material consists of shapeless potsherds and animal bones.

A bone sample (sample LRT-55; a rib from a pig) was sent to the laboratory for radiocarbon analysis but did not give any results due to poor collagen preservation (appendix 2, *table A.2.5*). According to the associated pottery, a date within the 3rd mill. BC is proposed.

A.3.2.3 Level 31

Level 31 is greyish soil with very low compaction, a sandy-clay texture, medium-fine granulometry, and a maximum thickness of 0.25m. The level also featured small coal intrusions. The cultural material includes sherds, faunal remains, a loom weight, and some lithic material. Among the lithic material a sandstone mill fragment was identified.

Three bone samples (LRT-005, LRT-019, and LRT-033) were sent for radiocarbon analysis but all of them showed negative results due to poor collagen preservation (appendix 2, *table A.2.5*). According to the associated pottery, a date within the 3rd mill. BC is proposed.

A.3.3 Structure 3

A.3.3.1 Level 28-22

Level 28 is located in the upper part of structure 3 and it is the same unit labelled as level 22 in structure 2. This level has been described in A3.2.1 (structure 2, level 22).

A.3.3.2 Level 38/10/36

Level 38 is a soil layer located in the base of structure 3 with a maximum thickness of 0.25m. It has been described in 3.1.1 because it is the same level as level 10 (structure 1) and level 36 (structure 4).

A.3.4 Structure 4

A.3.4.1 Level 4

Level 4 is located at the upper part of structure 4. With a maximum thickness of 74cm level 4 is a medium compact, dark-brown soil level with a clayish texture and medium granulometry. It incorporates marly fragments and calcaneus nodules as medium sized pebble intrusions as well as adobe fragments with vegetal imprints. The cultural features include sherds, a decorated adobe, a loom weight, and some animal remains and lithics, including small slate fragments. This level is related with the upper level of structure 5/6 (level 65).

Four bone samples (LRT-008, LRT-022, LRT-039, and LRT-073) were sent for radiocarbon analysis, but they all exhibited poor collagen preservation (appendix 2, *table A.2.5*). According to the associated pottery, a date near the end of the second half of the 3rd mill. BC is estimated.

A.3.4.2 Level 35

Level 35 is an irregular level of whitish coloured marl with a maximum thickness of about 25cm. No archaeological material has been documented.

A.3.4.3 Level 36

This level is described in A.3.1.1 because it is the same level as level 10 (structure 1) and level 38 (structure 3). In structure 4, it has a maximum thickness of 11cm.

A.3.4.4 Level 48

Level 48 is composed of greenish coloured marl and is about 18cm thick. This level appears to be related to the preparation of the structure. At the base and at the start of the walls, there were fragments of adobe from the covering of the structure. No archaeological material was documented.

A.3.5 Structure 7

A.3.5.1 Level 29

Level 29 is a dark greyish soil level with a clay texture and medium granulometry. It has a maximum thickness of 50cm. The upper surface has a high compaction compared to a small area in the lower part of the level where compaction is low. The level has adobe and pebble intrusions that show evidence of having been exposed to fire, mainly in the central area of the structure. Archaeological material documented at this level consists of pottery, faunal remains, and lithic fragments (including small slate fragments), as well as one iron ore fragment. All documented archaeological material presents evidence of exposure to fire.

A.3.6 Structure 8

A.3.6.1 Level 8

Level 8 is a medium compact dark greyish soil level with a clay texture and medium granulometry. It has a maximum thickness of 28cm and multiple different degrees of compaction. The level also features adobe and pebble intrusions. Archaeological material documented in this level consists of pottery, faunal remains, and lithic fragments. All

documented material presents evidence of exposure to fire.

A.3.7 Structure 9

A.3.7.1 Level 18

Level 18 is located at the top level of structure 9 and with a maximum thickness of 0.51m, it is cut by the substructure 18a at the northwestern corner. This level is a reddish-brown soil level with a silt-clay texture, medium-fine granulometry, and low compaction, which incorporates small and medium sized stones. The cultural features include sherds and lithics. Bell Beaker pottery was also documented (*fig. A.3.3*). According to the associated pottery, a date near the second half of the 3rd mill. BC is estimated.

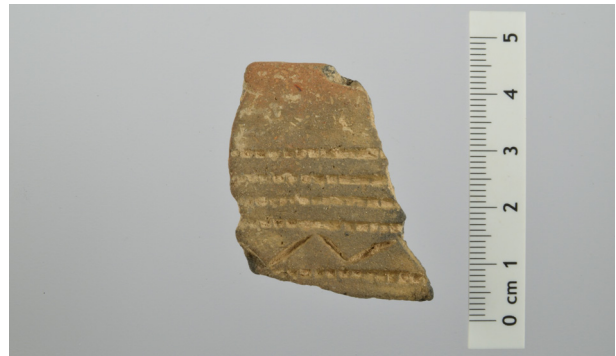


Fig. A.3.3. Bell Beaker fragment from Level 18.

A.3.7.2 Level 37

Level 37 is located below level 18. It has a maximum thickness of 0.72m and is a reddish-brown soil level with a clay like texture, medium-fine granulometry, low compaction, and incorporates adobe intrusions as well as small and medium sized stones. The cultural features include pottery fragments with coal on their interior surfaces and lithics – including a basalt mill stone. Slate, Bell Beaker pottery, and faunal remains were also documented.

One bone sample from level 37 was analysed for radiocarbon dating (*table A.3.1; fig. A.3.4*) providing an absolute date of 3820±31 BP (2452–2144 calBC), placing the level in the second half of the 3rd mill. BC.

Sample	Lab-Id	Taxon	Element	BP	Cal 2 σ BC
LRT-12	CNA-3785.1.1	Size 3	Diaphysis	3820 \pm 31	2452–2144

Table A.3.1. Radiocarbon results from level 37 at LRT-II.

Sample	Lab-Id	Taxon	Element	BP	Cal 2 σ BC
LRT-59	ETH-86516	Dog	Cranial bone	3903 \pm 41	2486–2211
LRT-62b	ETH-88794	Size 3	Ulna	3893 \pm 24	2466–2299

Table A.3.2. Radiocarbon results from level 57/64 at LRT-II.

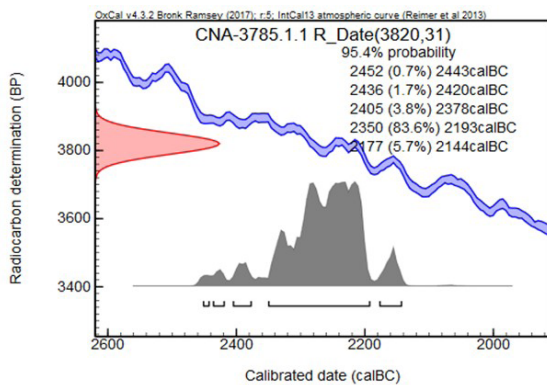


Fig. A.3.4. Radiocarbon results from level 37 at LRT-II.

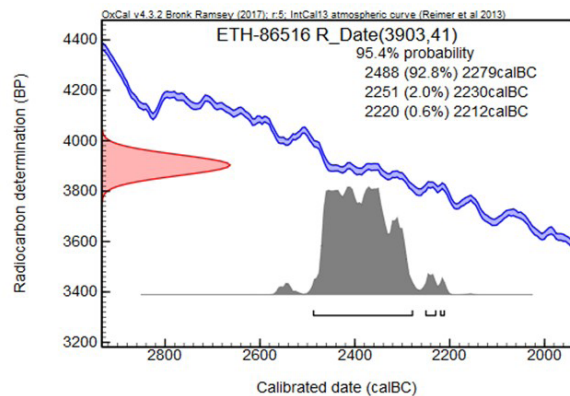


Fig. A.3.5. Radiocarbon results from Level 57/64 at LRT-II (sample LRT-59).

A.3.7.3 Level 54

Level 54 is located below level 37. It has a maximum thickness of 0.77m and consists of a redish-brown soil level with a clay texture, medium-fine granulometry, and low compaction. This level incorporates small fragments of coal as well as big and medium sized stones, some of them with evidence of use. The material culture includes pottery with coal fragments on their interior surface similar to those seen in level 37, as well as lithics and faunal remains. In addition, adobes and Bell Beaker pottery were also documented.

One bone sample from level 54 was tested for collagen extraction for radiocarbon dating (sample LRT-58; bovine carpal bone) which provided negative results due to poor collagen preservation (appendix 2, table A.2.5). According to associated pottery, a date in the second half of the 3rd mill. BC is estimated.

A.3.7.4 Level 57/64

Level 57/64 is a soil layer located below level 54. It has a maximum thickness of 27cm and consists of a dark-brown soil level of silty-clay texture, medium compaction, and medium-fine granulometry, which incorporates high proportions of big and medium sized pebbles. The cultural features include pottery, many of which also had coal on their interior surfaces like those in levels 37 and 54. Animal remains and lithics, as well as mill fragments of granite, and Bell Beaker pottery were also documented.

Two bone samples from level 57/64 were sent for radiocarbon analyses (table A.3.2, fig. A.3.5–A.3.6). Sample LRT-59 provided an absolute date of 3903 \pm 41BP (2486–2211 calBC) and sample LRT-62b provided an absolute date of 3893 \pm 24BP (2466–2299 calBC), placing the level in the second half of the 3rd mill. BC.

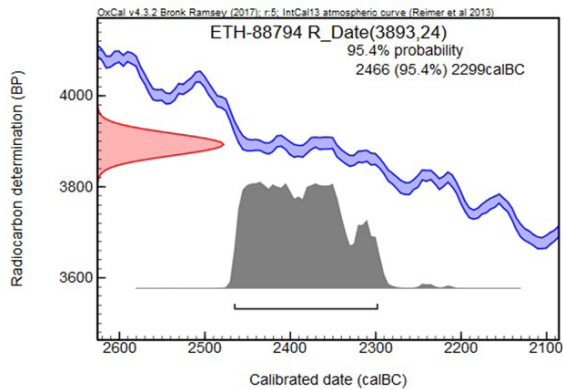


Fig. A.3.6. Radiocarbon results from Level 57/64 (sample LRT-62b).

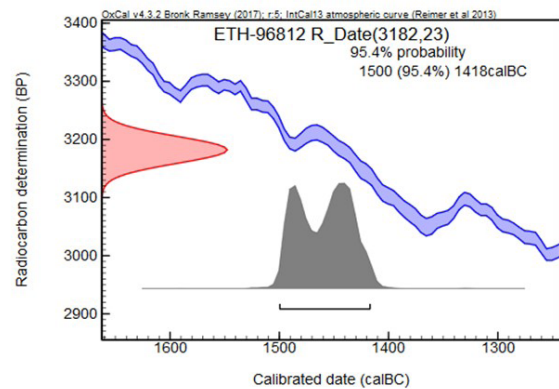


Fig. A.3.7. Radiocarbon results from Substructure 18a (sample LRT-78).

A.3.7.5 Level 69

Level 69 is a dark brown soil layer with a lime-clay texture, low compaction, and medium-fine granulometry. It is located at the base of structure 9 and has a maximum thickness of 10cm. Cultural features include some indistinctive potsherds.

Due to the absence of datable material, pottery was used to indicate a date in the 3rd mill. BC.

A.3.7.6 Substructure 18a

Substructure 18a is located excavated above level 18 of structure 9. It has a circular plan with an approximate diameter of 1.4m approximately and a height of around 70cm. It is characterised by the presence of a large number of medium-sized stones. Sample LRT-78 provided an absolute date of 3182 ± 23 BP (1501–1417 calBC), placing the level in the mid-2nd mill. BC (fig. A.3.7).

A.3.8 Structure 11

A.3.8.1 Level 40

Level 40 is a low compact dark brown soil level with a clay texture and medium granulometry. It has a maximum thickness of 34cm. The level has adobe intrusions as well as medium sized pebbles. Archaeological material documented at this level consists of pottery, faunal remains, and lithic fragments.

Two bone samples were sent for radiocarbon analyses (samples LRT-40 and LRT-56; a long bone from a size 3 animal and a *Bos taurus* rib, respectively). Both yielded negative results due to poor collagen preservation (appendix 2, table A.2.5). According to associated pottery, a date at the end of the second half of the 3rd mill. BC is estimated.

A.3.8.2 Level 47

Level 47 is a soil layer that fills the lower part of structure 11. It has a maximum thickness of 64cm and is formed by a dark brown soil level of clay texture, low compaction, and medium-fine granulometry, which incorporates calcium detritus as well as small fragments of coal intrusions. The cultural features include indistinctive potsherds and a millstone fragment.

According to the stratigraphic position, a date at the end of the second half of the 3rd mill. BC has been estimated.

A.3.9 Structure 12

A.3.9.1 Level 42

Level 42 is located at the upper level of structure 12. The maximum thickness is unknown because, during the survey, the unit was not completely emptied. During the survey, a maximum depth of 37cm was reached in this level. This level

consists of a brown soil level of clay texture, medium-fine granulometry, and low compaction, which incorporates some small and medium sized pebbles as well as slate fragments. The cultural features include Bell Beaker pottery, faunal remains, and lithics including a sandstone mill stone.

Five bone samples were tested for collagen extraction (LRT-014, LRT-027, LRT-042, LRT-067, and LRT-071), they all showed negative results due to poor collagen preservation (appendix 2, *table A.2.5*). According to the associated pottery, a date at the end of the second half of the 3rd mill. BC is estimated.

A.3.10 Structure 17

A.3.10.1 Level 26

Level 26 is a soil layer that fills the upper part of structure 17. It has a maximum thickness of 17cm and consists of a dark-brown soil level of clay texture, medium compaction, and medium granulometry, which incorporates small pebble intrusions. The significant cultural features include potsherds of which 15 come from Bell Beaker pottery. Lithics, animal remains, shells, and adobes were also documented.

Eight bone samples (LRT-015, LRT-028, LRT-035, LRT-048, LRT-050, LRT-051, LRT-061, and LRT-074) were analysed for radiocarbon dates but due to poor collagen preservation the results were negative (appendix 2, *table A.2.5*). According to the associated pottery, a date at the end of the second half of the 3rd mill. BC is estimated.

A.3.10.2 Level 49

Level 49 is a soil layer located underneath level 26. It was not fully excavated, but a depth of 0.36m was reached. It corresponds to a light-brown soil level of clay texture, medium compaction, and medium granulometry, which incorporates a high quantity of pebble intrusions. Cultural features were quite scarce, but included sherds and animal remains.

Two bone samples were tested for radiocarbon analyses (samples LRT-46, LRT-47; a bovid rib and a bovid skull fragment) but poor collagen preservation did not make it feasible to date them (appendix 2, *table A.2.5*). According to associated pottery, a date at the end of the second half of the 3rd mill. BC is estimated.

A.3.11 Structure 18

A.3.11.1 Level 59

Level 59 is a medium compact brown soil with a clayey texture and medium granulometry. It has a maximum thickness of 28cm. The archaeological materials documented at this level consists of sherds, faunal remains, and lithics including a sandstone mill stone.

Three bone samples (LRT-016, LRT-029, and LRT-036) were tested for radiocarbon dating, all yielded negative results due to poor collagen preservation (appendix 2, *table A.2.5*). Based on the associated pottery, a date at the end of the second half of the 3rd mill. BC is estimated.

Appendix 4: Zooarchaeological Analyses

A.4.1 La Loma del Real Tesoro II

A.4.1.1 Structure 1, 2, 3 and 4: Level 10/30/36/38

200 faunal remains comprise the collection. Taking into account that most were assigned to indeterminate categories, the proportion of unidentified remains is high (*table A.4.1*). The level of conservation of the faunal assemblage is poor, featuring a high degree of fragmentation.

	NISP	%	Weight	%
Identified	55	27.36	707.93	73.01
Unidentified	146	72.63	261.64	26.98
Total	201	100	969.57	100

Table A.4.1. Faunal remains from level 10/30/36/38.

Identified Fragments

Domestic faunas dominate an assemblage where pigs constitute the main taxon and caprines take second position followed by cattle and dogs (*table A.4.2*).

Specie	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Cattle	6	10.90	1	11.11	177.13	25.02	6
Pig	21	38.18	1	11.11	173.22	24.46	21
Caprine	9	16.36	1	11.11	31.55	4.45	9
Dog	3	5.45	1	11.11	17.08	2.41	3
Cat	1	1.81	1	11.11	2.48	0.35	1
Total domestic	40	72.72	5	55.55	401.46	56.70	7.8
Horse	4	7.27	1	11.11	301.76	42.62	4
Lagomorpha	11	20	3	33.33	4.71	0.66	3.66
Total wild	15	27.27	4	44.44	306.47	43.29	3.75
Total	55	100	9	100	707.93	100	6

Table A.4.2. Results of the zooarchaeological analysis from level 10/30/36/38 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Most size 3 fragments correspond to elements from the axial skeleton followed by appendicular bones. In the case of size 2 fragments, there is a predominance of fragments from the appendicular skeleton and a low proportion of elements from the axial and cranial skeleton (*table A.4.3*).

	NISP	%	Weight (g)	%
Size 3	8	5.47	112.78	43.10
Size 2	119	81.50	144.1	55.07
Size 1	1	0.68	0.1	0.03
Unidentified	18	12.32	4.66	1.78
Total	146	100	261.64	100

Table A.4.3. Unidentified fragments from level 10/30/36/38.

Cattle

Skeletal Representation

Skeletal spectra reveal an under-representation of all anatomical portions when compared with a standard skeleton (table A.4.4, fig. A.4.1).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Cranial	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	1	16.66	2.81	32	15.45	2.73	0.08
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	1	16.66	2.81	38	18.35	2.91	-0.1
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	1	16.66	2.81	2	0.96	-0.03	2.84
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	1	16.66	2.81	8	3.86	1.35	1.46
Carpal	2	33.33	3.50	12	5.79	1.75	1.75
Metacarpal	1	16.66	2.81	4	1.93	0.65	-2.16
Total forefoot	3	50	3.91	16	7.72	2.04	1.87
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	1.86
Phalanx III	1	16.66	2.81	8	3.86	1.35	1.46
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	1	16.66	2.81	50	24.15	3.18	-0.37
Total	6	100	4.60	207	100	4.60	0

Table A.4.4. Skeletal representation in cattle from level 10/30/36/38.

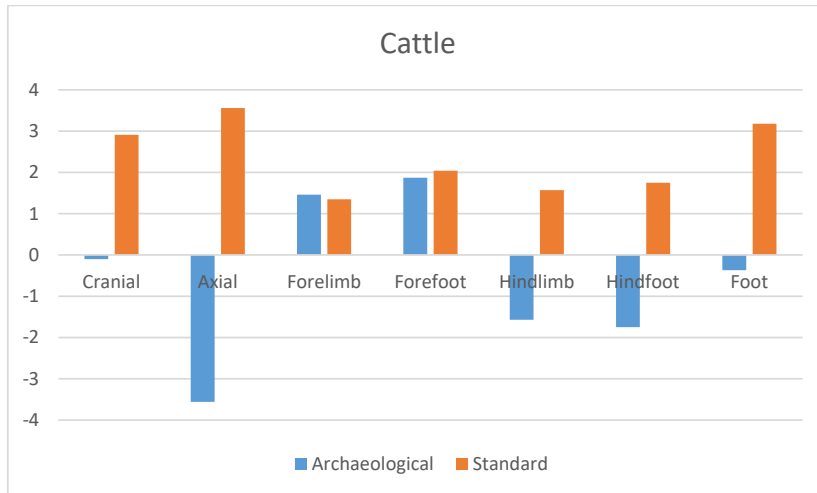


Fig. A.4.1. Skeletal representation in cattle.

Skeletal Elements

Cattle are represented by five fragments. Based on %MAU, carpal bones and metacarpal are the best represented followed by scapula. According to the percentage completeness, the scapula exhibits a high rate of fragmentation versus carpals and Phalanx III, which are completed (table A.4.5, fig. A.4.2a, A.4.2b, A.4.3).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Teeth	1	16.66	12.46	7.03	1	16.66	0.031	6.2				
Scapula	1	16.66	17.71	9.99	1	16.66	0.5	100	9	2	2	22.22
Carpal	2	33.33	103.62	58.49	2	33.33	0.166	33.2	1	2	1	100
Metacarpal	1	16.66	20.52	11.58	1	16.66	0.5	100	8	4	4	50
Phalanx III	1	16.66	22.82	12.88	1	16.66	0.125	25	2	2	2	100
Total	6	100	177.13	100	6	100						

Table A.4.5. Skeletal elements and rate of fragmentation.

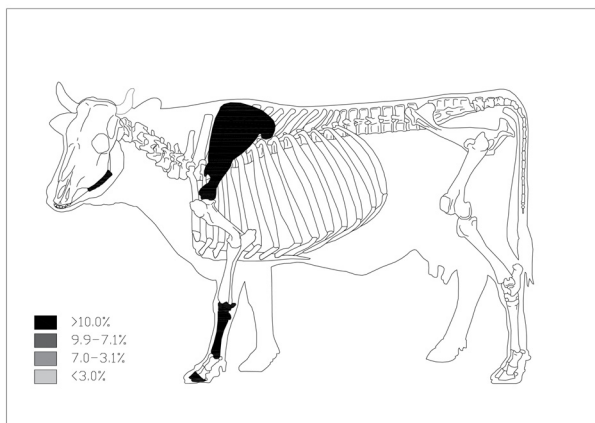


Fig. A.4.2a. Skeletal elements according to %NISP.

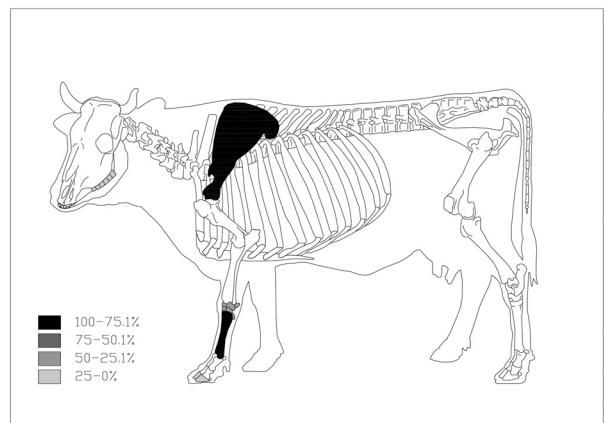


Fig. A.4.2.b. Skeletal elements according to %MAU.

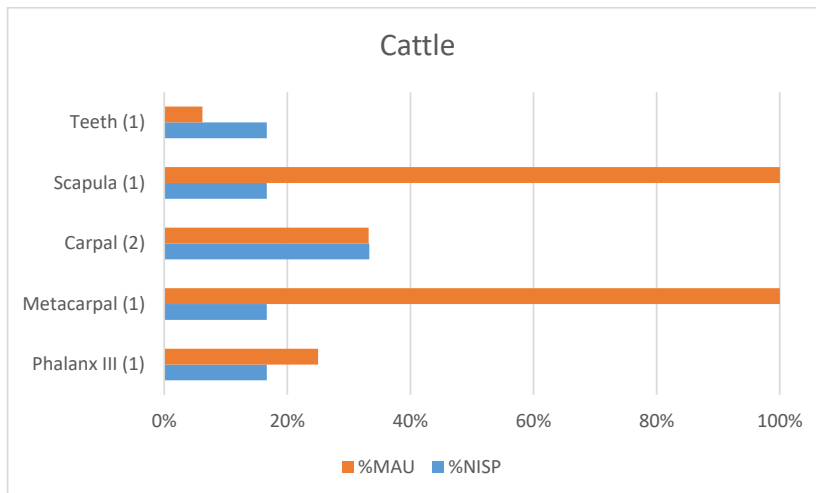


Fig. A.4.3. Skeletal elements according to %NISP and %MAU.

Meat Supply

The highest proportion is of cattle bones which correspond to anatomical parts of low meat value, associated with the initial steps of the quartering process (table A.4.6a, b).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Scapula	17.71	0.236	0.118	10.75
Total forelimb	17.71	0.236	0.118	10.75
Carpal	103.62	1.381	0.690	62.89
Metacarpal	20.52	0.273	0.136	12.39
Total forefoot	124.14	1.655	0.827	75.38
Phalanx III	22.82	0.304	0.152	13.85
Total foot	22.82	0.304	0.152	13.85
Total	164.67	2.195	1.097	100

Meat quality	Forelimb (g)	Forefoot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
High	17.71	-	-	17.71	0.236	0.118	10.75
Low	-	124.14	22.82	146.96	1.959	0.979	89.24
Total	17.71	124.14	22.82	164.67	2.195	1.097	100

Table A.4.6. Meat quality distribution.

Sex and Age

It has not been possible to establish the age and sex of these specimens. Likewise, it has not been possible to estimate the mean height at the withers due to lack of complete limb bones (table A.4.7).

Skeletal element	GB	Ld	DLS	MBS
Cuboid	63.53			
Trapezoid	46.16			
Phalanx III	52.45		67.07	23.57

Table A.4.7. Measurements.

Caprines

Skeletal Representation

The skeletal spectra reveal an over-representation of forelimb with respect to the standard skeleton. Remaining anatomical portions are all under-represented (*table A.4.8; fig. A.4.4*).

The state of conservation was very poor, the metacarpal and metapodial show combustion marks. Marks derived from low-PH soil were also documented in most of the identified remains.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	-	-	-	32	15.68	2.75	-2.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	-	-	-	38	18.62	2.92	-2.92
Vertebrae	1	12.5	2.52	38	18.62	2.62	-0.1
Rib	1	12.5	2.52	26	12.74	2.54	-0.02
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	2	25	3.21	66	32.35	3.47	-0.26
Scapula	1	12.5	2.52	2	0.98	-0.01	2.53
Humerus	1	12.5	2.52	2	0.98	-0.01	2.53
Radius	2	25	3.21	2	0.98	-0.01	3.22
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	4	50	3.91	8	3.92	1.36	2.55
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	1	12.5	2.52	2	0.98	-0.01	2.53
Total forefoot	1	12.5	2.52	14	6.86	1.92	0.6
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	-	-	-	10	4.90	1.58	-1.58
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	1.39
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	1	12.5	2.52	8	3.92	1.36	1.16
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	1	12.5	2.52	56	27.45	3.31	-0.79
Total	8	100	4.60	204	100	4.60	0

Table A.4.8. Skeletal representation in caprines from level 10/30/36/38.

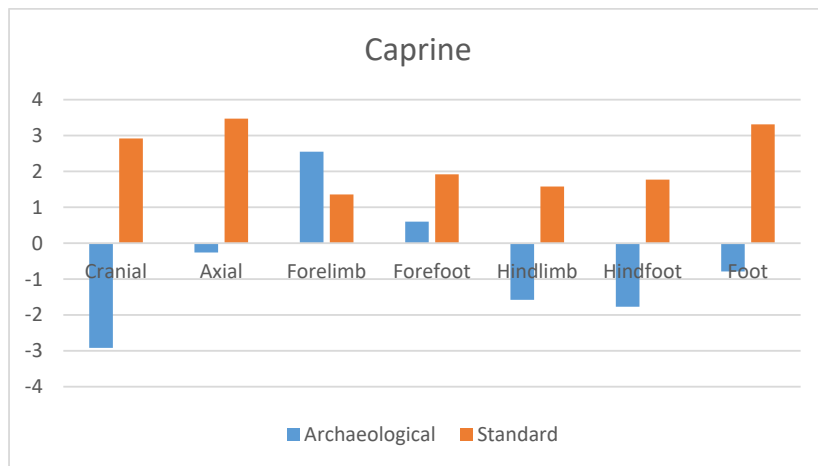


Fig. A.4.4. Skeletal representation in caprines.

Skeletal Elements

Based on %MAU, the scapula and metacarpal are the best represented elements followed by metapodia, phalanx I and ribs (table A.4.9, fig. A.4.5a, A.4.5b, A.4.6).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Ribs	1	11.11	0.49	1.55	1	14.28	0.038	7.6	3	1	1	33.33
Vertebra	1	11.11	7.66	24.27	1	14.28	0.026	5.2	2	1	1	50
Scapula	1	11.11	6.25	19.80	1	14.28	0.5	100	9	4	4	44.44
Humerus	1	11.11	3.78	11.98	1	14.28	0.5	100	11	3	3	27.27
Radius	2	22.22	6.55	20.76	1	14.28	0.5	100	10	3	1.5	15
Metacarpal	1	11.11	4.95	15.68	1	14.28	0.5	100	8	3	3	37.5
Metapodia	1	11.11	0.83	2.63	-	-	0.25	50	8	1	1	12.5
Phalanx I	1	11.11	1.04	3.29	1	14.28	0.125	25	3	2	2	66.66
Total	9	100	31.55	100	7	100						

Table A.4.9. Skeletal elements and rate of fragmentation.

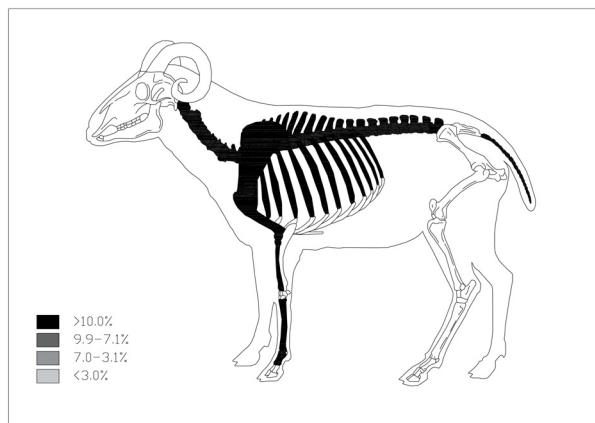


Fig. A.4.5a. Skeletal elements according to %NISP.

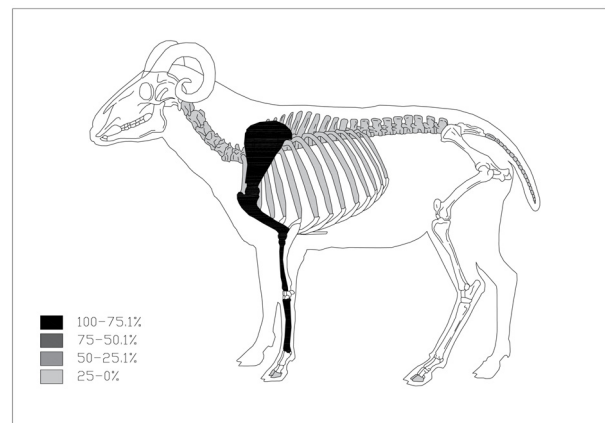


Fig. A.4.5b. Skeletal elements according to %MAU.

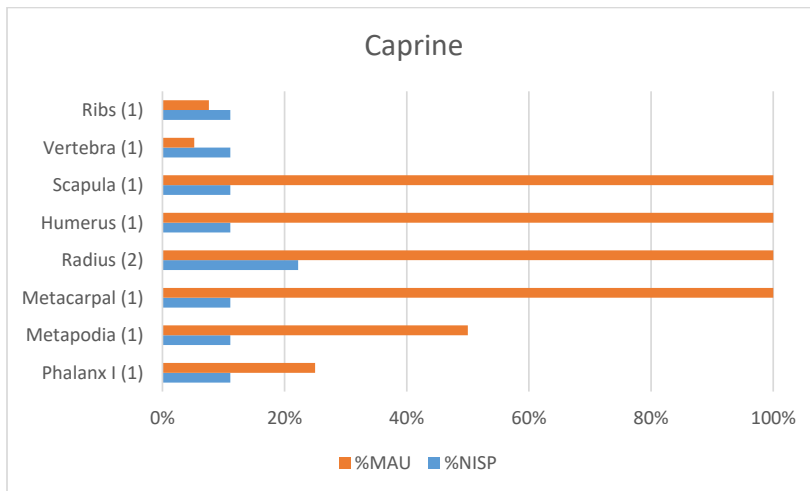


Fig. A.4.6. Skeletal elements according to %NISP and %MAU.

Meat Supply

Forelimb bones provide the highest proportion of high value meat (*table A.4.10, A.4.11*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Ribs	0.49	0.0065	0.003	1.42
Vertebra	7.66	0.102	0.051	24.28
Total axial	8.15	0.108	0.054	25.71
Scapula	6.25	0.083	0.041	19.52
Humerus	3.78	0.0504	0.025	11.90
Radius	6.55	0.0244	0.012	5.71
Total forelimb	16.58	0.221	0.110	52.38
Metacarpal	4.95	0.066	0.033	15.71
Total forefoot	4.95	0.066	0.033	15.71
Metapodia	0.83	0.021	0.010	4.76
Phalanx I	1.04	0.013	0.006	2.85
Total foot	1.87	0.024	0.012	5.71
Total	31.55	0.420	0.210	100

Table A.4.10. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Axial (g)	Forelimb (g)	Forefoot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	4.65	1.87	6.52	0.086	0.043	20.47
Medium	-	0.49	6.55	-	-	7.04	0.093	0.046	21.90
High	-	-	10.03	-	-	10.03	0.133	0.066	31.42
Total	-	0.49	16.58	4.65	1.87	31.55	0.420	0.210	100

Table A.4.11. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveals an infant below six months. It has not been possible to establish sex nor estimate mean height at the withers due to a lack of complete bones.

Pig**Skeletal Representation**

The skeletal profile reveals an over-representation of the fore quarter, all remaining portions being under-represented with respect to the reference skeleton (*table A.4.12, fig. A.4.7*). Among these, the axial skeleton followed by cranial and fore foot portions are the best represented.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	3	14.28	2.65	2	0.68	-0.37	3.02
Teeth	1	4.76	1.56	44	15.17	2.71	-1.15
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	4	19.04	2.94	48	16.55	2.80	0.14
Vertebrae	4	19.04	2.94	56	19.31	2.96	-0.02
Rib	7	33.33	3.50	28	9.65	2.26	1.24
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	11	52.38	3.95	86	29.65	3.38	0.57
Scapula	1	4.76	1.56	2	0.68	-0.37	1.93
Humerus	1	4.76	1.56	2	0.68	-0.37	1.93
Radius	1	4.76	1.56	2	0.68	-0.37	1.93
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	3	14.28	2.65	8	2.75	1.01	1.64
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	1	4.76	1.56	8	2.75	1.01	0.55
Total forefoot	1	4.76	1.56	24	8.27	2.11	-0.55
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	1	4.76	1.56	2	0.68	-0.37	1.93
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	1	4.76	1.56	10	3.44	1.23	0.33
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	-2.19
Phalanx I	1	4.76	1.56	16	5.51	1.70	-0.14
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	1	4.76	1.56	88	30.34	3.41	-1.85
Total	21	100	4.60	290	100	4.60	0

Table A.4.12. Skeletal representation in pigs from level 10/30/36/38.

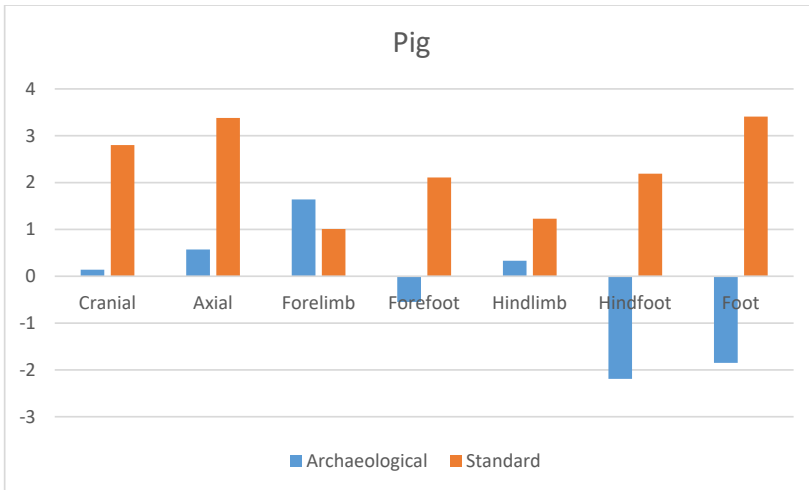


Fig. A.4.7. Skeletal representation in pigs.

Skeletal Elements

19 fragments could be identified as pig. Based on %MAU, the mandible and forelimb elements are best represented (table A.4.13, fig. A.4.8a, A.4.8b, A.4.9).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Mandible	3	14.28	15.97	9.21	2		1	100	7	4	1.33	19
Teeth	1	4.76	1.36	0.78	1		0.02	2	-	-	-	-
Vertebrae	4	19.04	61.53	35.42	4		0.071	7.1	2	4	1	50
Ribs	7	33.33	13.29	7.67	7		0.25	25	3	7	1	33.33
Scapula	1	4.76	23.07	13.31	1		0.5	50	9	6	6	66.66
Humerus	1	4.76	22.19	12.81	1		0.5	50	11	3	3	27.27
Radius	1	4.76	5.89	3.40	1		0.5	50	10	2	2	20
Metacarpal	1	4.76	2.15	1.24	1		0.5	50	8	2	2	66.66
Tibia	1	4.76	25.1	14.49	1		0.5	50	10	2	2	20
Phalanx I	1	4.76	2.67	1.54	1		0.5	50	3	2	2	66.66
Total	21	100	173.22	100	20	100	-	-	-	-	-	-

Table A.4.13. Skeletal elements and rate of fragmentation.

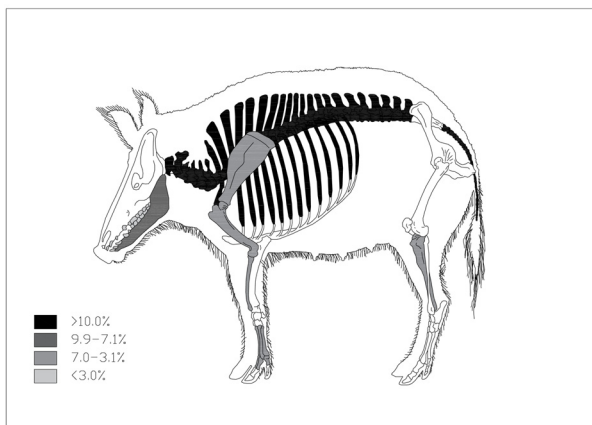


Fig. A.4.8a. Skeletal elements according to %NISP.

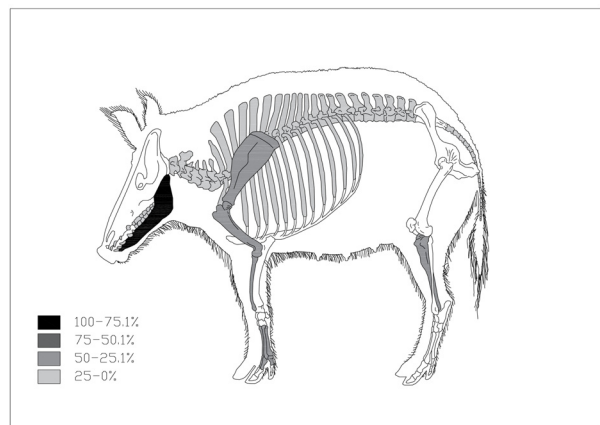


Fig. A.4.8b. Skeletal elements according to %MAU.

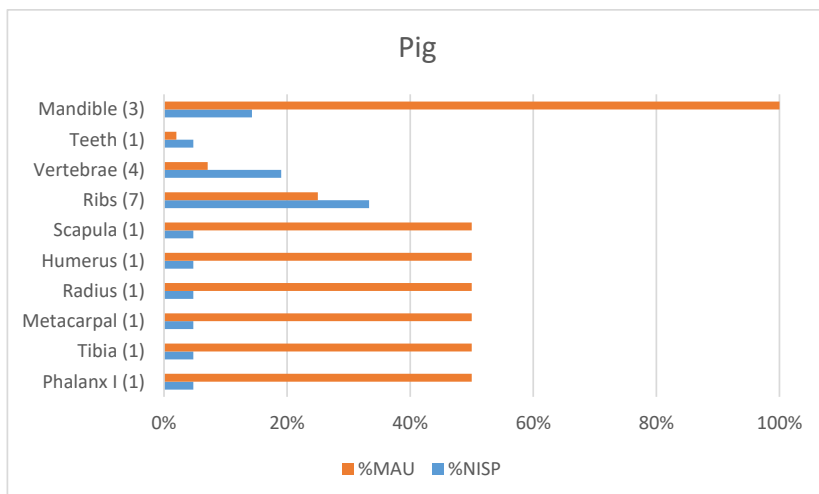


Fig. A.4.9. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements from the axial skeleton provide the highest proportion of meat followed by elements coming from the fore quarters, mainly representing high meat content elements (table A.4.14, A.4.15). Phalanx I has been split transversally.

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	15.97	0.212	0.106	9.25
Total cranial	15.97	0.212	0.106	9.25
Vertebrae	61.53	0.820	0.410	35.80
Ribs	13.29	0.177	0.088	7.68
Total axial	74.82	0.997	0.498	43.49
Scapula	23.07	0.307	0.153	13.36
Humerus	22.19	0.295	0.147	12.83
Radius	5.89	0.078	0.039	3.40
Total forelimb	51.15	0.682	0.341	29.78
Metacarpal	2.15	0.028	0.014	1.22
Total forefoot	2.15	0.028	0.014	1.22
Phalanx I	2.67	0.035	0.017	1.48
Total foot	2.67	0.035	0.017	1.48
Tibia	25.1	0.334	0.167	14.58
Total hindfoot	25.1	0.334	0.167	14.58
Total	171.86	2.291	1.145	100

Table A.4.14. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Axial (g)	Fore-limb (g)	Forefoot (g)	Hind-limb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	2.15	-	2.67	4.82	0.064	0.032	2.79
Medium	15.97	13.29	5.89	-	25.1	-	60.25	0.803	0.401	35.02
High	-	61.53	45.26	-	-	-	106.79	1.423	0.711	62.09
Total	15.97	74.82	51.15	2.15	25.1	2.67	171.86	2.291	1.145	100

Table A.4.15. Meat quality distribution.

Sex and Age

The epiphyseal fusion data reveals an infant/juvenile individual below twelve months. A male individual has been spotted on account of the morphology of the canine. Height at the withers cannot be estimated due to lack of complete bones (*table A.4.16*):

Element	Bp
Metacarpus IV	13.47
Phalanx I	13.51

Table A.4.16. Measurements.

A.4.1.2 Structure 1

A.4.1.2.a Structure 1: Level 24

13 faunal remains comprise the collection. Considering that most of the remains were assigned to indeterminate categories, the proportion of unidentified remains is quite high (*table A.4.17*). The level of conservation of the faunal assemblage is quite deficient, presenting a high degree of fragmentation.

	NISP	%	Weight	%
Identified	3	23.07	142.97	83.85
Unidentified	10	77.87	27.52	16.14
Total	13	100	170.49	100

Table A.4.17. Faunal remains from level 24.

Identified Fragments

Domestic faunas dominate an assemblage where cattle constitute the only identified taxon (*table A.4.18*).

Specie	NISP	%	MNI	%	Weight	%	NISP/MNI
Cattle	3	100	1	50	142.97	100	3
Total	3	100	1	50	142.97	100	3

Table A.4.18. Results of the zooarchaeological analysis from level 24 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Size 3 fragments correspond to fragments of the cranial and axial skeleton. Since only cattle fragments have been documented, it can be assumed that those elements correspond to this taxon. In the case of size 2 fragments there is a predominance of fragments from the appendicular skeleton and a low frequency of elements from the axial and cranial skeleton (*table A.4.19*).

Size	NISP	%	MNI	%	Weight (g)	%
Size 3	3	30	-	-	21.02	76.38
Size 2	7	70	1	50	6.5	23.61
Total	10	100	1	50	27.52	100

Table A.4.19. Unidentified fragments from level 24.

Cattle

Skeletal Representation

The skeletal representation shows an over-representation of anatomical parts corresponding to the hindlimb. The rest of the anatomical parts are under-represented with respect to a standard skeleton (*table A.4.20, fig. A.4.10*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	1	33.33	3.50	1	0.48	-0.72	4.22
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	1	33.33	3.50	38	18.35	2.91	0.59
Vertebrae	-	-	-	45	21.73	3.07	3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	1	33.33	3.50	2	0.96	-0.03	3.53
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	1	33.33	3.50	10	4.83	1.57	1.93
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	1	33.33	3.50	8	3.86	1.35	2.15
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	1	33.33	3.50	50	24.15	3.18	0.32
Total	3	100	4.60	207	100	4.60	0

Table A.4.20. Skeletal representation in cattle from level 24.

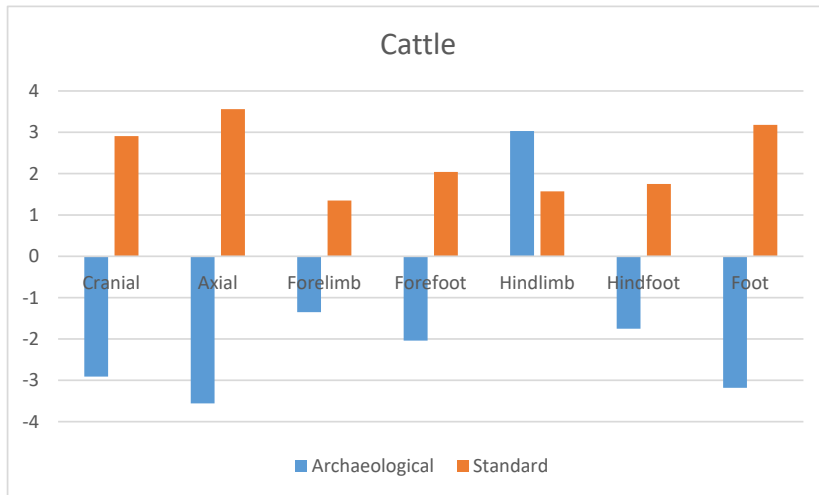


Fig. A.4.10. Skeletal representation in cattle.

Skeletal Elements

Three fragments could be identified as *Bos taurus*. These correspond to a skull, a femur and a phalanx III. According to %MAU, the cranial fragment is the best represented one followed by the femur and phalanx III. Based on the %MAU, elements from the cranial and hindlimbs are best represented along with phalanx III. According to the percentage completeness, femur has a higher rate of fragmentation with respect to the rest of the identified anatomical elements (table A.4.21, fig. A.4.11a, A.4.11b, A.4.12).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%MNE	MAU	%MAU	PD	PP	PP/NISP	%CN
Skull	1	33.33	68.97	48.24	1	33.33	1	100	-	-	-	-
Femur	1	33.33	65.03	45.48	1	33.33	0.5	50	11	3	3	27.27
Phalanx III	1	33.33	8.97	6.27	1	33.33	0.125	12.5	3	2	2	66.66
Total	3	100	142.97	100	3	100	-	-	-	-	-	-

Table A.4.21. Skeletal elements and rate of fragmentation.

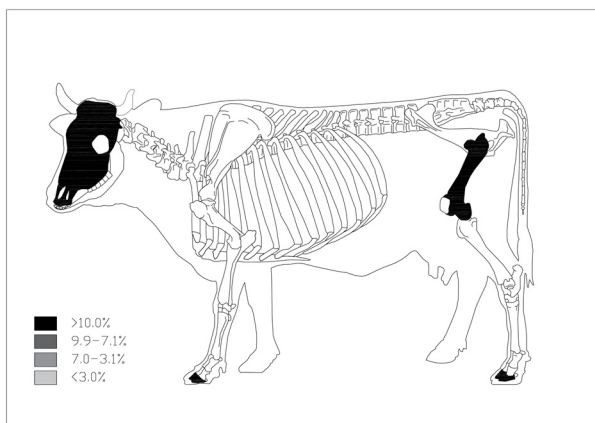


Fig. A.4.11a. Skeletal elements according to %NISP.

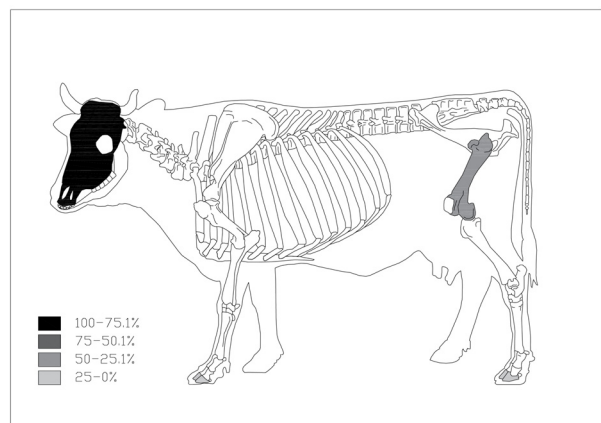


Fig. A.4.11b. Skeletal elements according to %MAU.

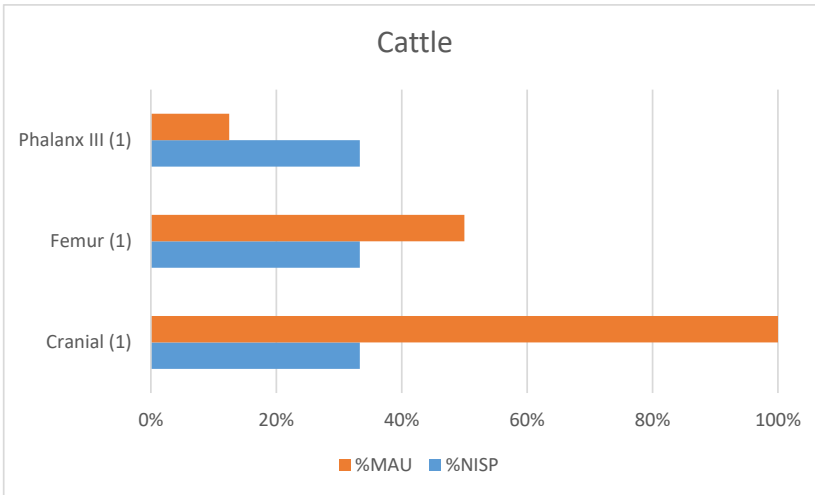


Fig. A.4.12. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements deriving from the skull and femur, with a high meat content, would contribute most of the meat (table A.4.22, A.4.23).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	68.97	0.919	0.459	48.16
Total cranial	68.97	0.919	0.459	48.16
Femur	65.03	0.867	0.433	45.43
Total hindlimb	65.03	0.867	0.433	45.43
Phalanx III	8.97	0.119	0.059	6.19
Total foot	8.97	0.119	0.059	6.19
Total	142.97	1.906	0.953	100

Table A.4.22. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Hindlimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	8.97	8.97	0.119	0.059	6.19
Medium	-	-	-	-	-	-	-
High	68.97	65.03	-	134	1.786	0.893	93.70
Total	68.97	65.03	8.97	142.97	1.906	0.953	100

Table A.4.23. Meat quality distribution.

Sex and Age

It has not been possible to estimate the sex and age of the identified individual due to the lack of the pertinent anatomical elements. Likewise, it has not been possible to calculate the mean height at the withers due to the lack of complete bones.

A.4.1.2.b Structure 1: Level 52

Six faunal remains comprise the collection. Taking into account that most were assigned to indeterminate categories, the proportion of unidentified remains is quite high. The level of conservation of the faunal assemblage is quite deficient, presenting a high degree of fragmentation (*table A.4.24*).

	NISP	%	Weight (g)	%
Identified	2	33.33	5.3	66.49
Unidentified	4	66.66	2.67	33.50
Total	6	100	7.97	100

Table A.4.24. Faunal remains from level 52.

Identified Fragments

Domestic faunas dominate an assemblage where pigs constitute the main taxon and cattle takes second position (*table A.4.25*).

Species	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Cattle	1	50	1	50	1.85	34.90	1
Pig	1	50	1	50	3.45	65.09	1
Total	2	100	2	100	5.30	100	1

Table A.4.25. Results of the zooarchaeological analysis from level 52 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Size 2 fragments correspond to one element of an appendicular skeleton. Since only pig has been documented, it can be assumed that those elements correspond to this taxon (*table A.4.26*).

Size	NISP	%	Weight (g)	%
Size 2	4	100	2.67	100
Total	4	100	2.67	100

Table A.4.26. Unidentified fragments from level 52.

Cattle

Skeletal Representation

According to the study of the skeletal representation carried out on the remains identified as *Bos taurus*, all skeletal parts are under-represented compared to the reference skeleton, with the cranial skeleton being the best represented.

The skeletal representation study carried out evidenced an under-representation of all anatomical parts with respect to a standard skeleton, the cranial portions being the best represented (*table A.4.27*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	1	100	4.60	2	0.96	-0.03	4.63
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	1	100	4.60	38	18.35	2.91	1.69
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	1	100	4.60	207	100	4.60	0

Table A.4.27. Skeletal representation in cattle from level 52.

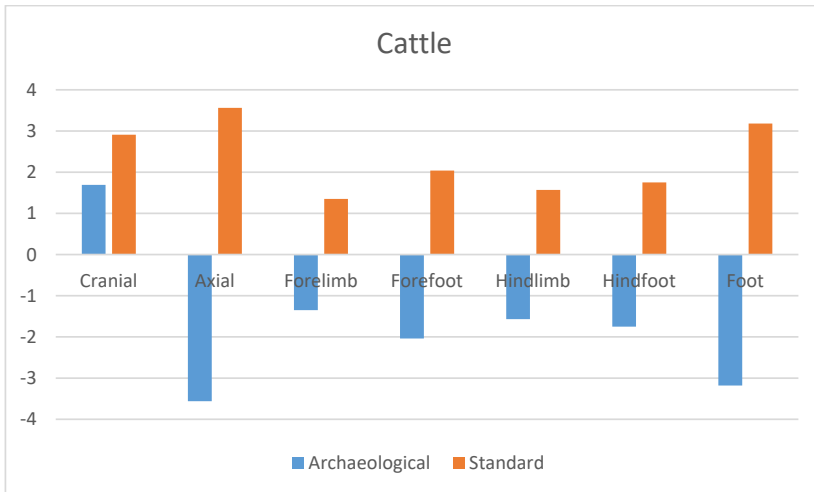


Fig. A.4.13. Skeletal representation in cattle.

Skeletal Elements

The only fragment identified comes from a left mandible. According to the percentage completeness, this mandible had a high fragmentation (*table A.4.28, fig. A.4.14a, A.4.14b*).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%MNE	MAU	%MAU	PD	PP	PP/NISP	%CN
Mandible	1	100	3.45	100	1	100	0.5	100	7	1	1	14.28
Total	1	100	3.45	100	1	100	-	-	-	-	-	-

Table A.4.28. Skeletal elements and rate of fragmentation.

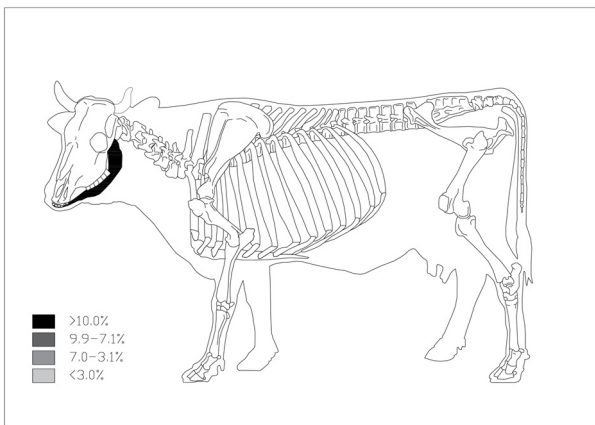


Fig. A.4.14a. Skeletal elements according to %NISP.

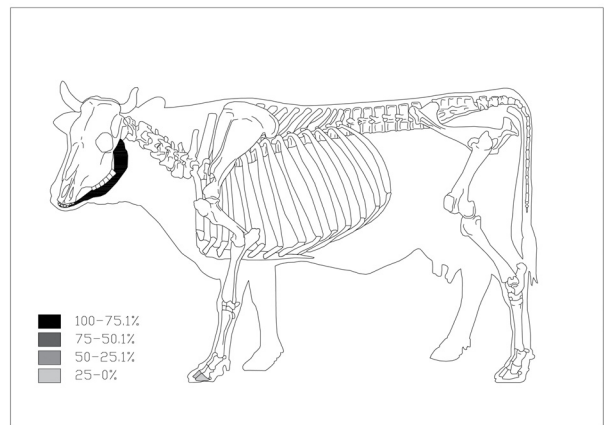


Fig. A.4.14b. Skeletal elements according to %MAU.

Meat Supply

Cranial elements provide the highest proportion of meat with medium value (*table A.4.29, A.4.30*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	3.45	0.046	0.023	100
Total	3.45	0.046	0.023	100

Table A.4.29. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Medium	3.45	3.45	0.046	0.023	100
Total	3.45	3.45	0.046	0.023	100

Table A.4.30. Meat quality distribution.

Sex and Age

It has not been possible to establish age estimations and sex differences due to the lack of the pertinent anatomical elements. Likewise, it has not been possible to calculate the mean height at the withers due to the lack of complete bones.

Pig**Skeletal Representation**

According to the study of the skeletal representation carried out on the remains identified as pig, all skeletal parts are under-represented compared to a standard skeleton, with the fore foot skeleton being the best represented (*table A.4.31, fig. A.4.15*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	-	-	-	2	0.68	-0.37	0.37
Teeth	-	-	-	44	15.17	2.71	-2.71
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	-	-	-	48	16.55	2.80	-2.80
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	-	-	-	2	0.68	-0.37	0.37
Humerus	-	-	-	2	0.68	-0.37	0.37
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	-	-	-	8	2.75	1.01	-1.01
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	1	100	4.60	8	2.75	1.01	3.59
Total forefoot	1	100	4.60	24	8.27	2.11	2.49
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	-	-	-	10	3.44	1.23	-1.23
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	0.01
Phalanx I	-	-	-	16	5.51	1.70	-1.70
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	-	-	-	88	30.34	3.41	-3.41
Total	1	100	4.60	290	100	4.60	0

Table A.4.31. Skeletal representation in pigs from level 52.

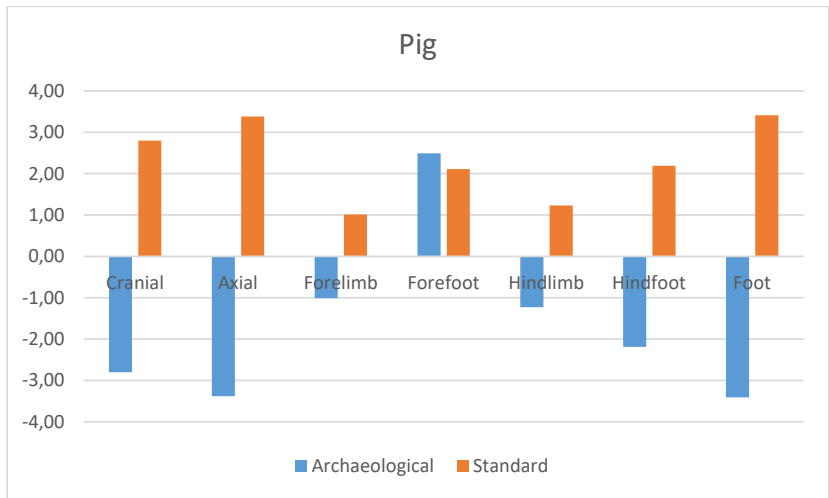


Fig. A.4.15. Skeletal representation in pigs.

Skeletal Elements

The only identified fragment corresponds to a left metacarpal II (table A.4.32, fig. A.4.16a, A.4.16b).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%MNE	MAU	%MAU	PD	PP	PP/NISP	%CN
Metacarpal	1	100	1.85	100	1	100	0.125	100	3	2	2	66.66
Total	1	100	1.85	100	1	100	-	-	-	-	-	-

Table A.4.32. Skeletal elements and rate of fragmentation.

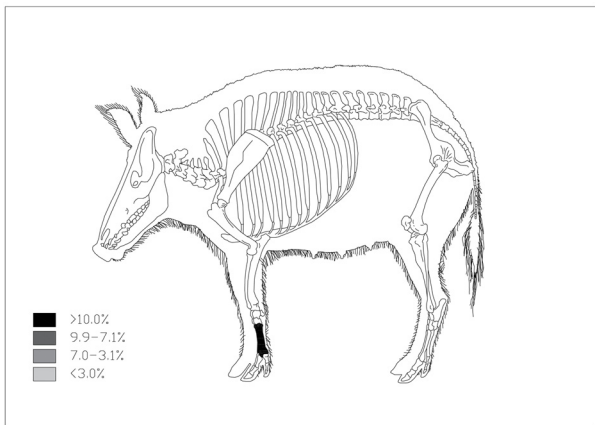


Fig. A.4.16a. Skeletal elements according to %NISP.

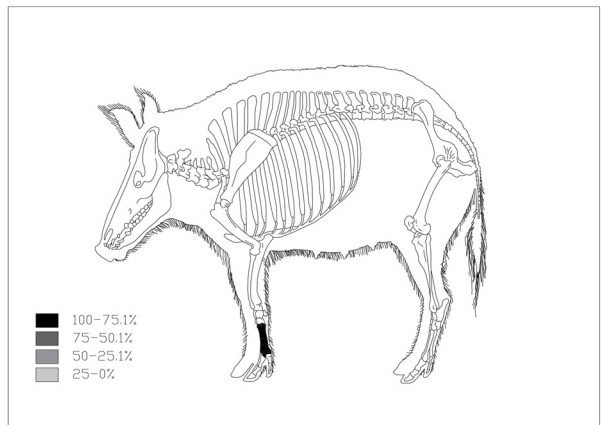


Fig. 4.16b. Skeletal elements according to %MAU.

Meat Supply

Elements of the fore foot contribute the highest proportion of meat, but again, if the relationship between the weight of these skeletal elements and the low meat contribution they offer is considered, they should not be seen as elements of consumption as they are usually discarded in the early stages of the quartering process (table A.4.33, A.4.34).

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Metacarpal	1.85	0.024	0.012	100
Total forefoot	1.85	0.024	0.012	100
Total	1.85	0.024	0.012	100

Table A.4.33. Meat supply according to skeletal elements.

Meat value	Forefoot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	1.85	1.85	0.024	0.012	100
Total	1.85	1.85	0.024	0.012	100

Table A.4.34. Meat quality distribution.

Sex and Age

Due to the state of conservation, it has not been possible to estimate the sex and age of the identified individual.

A.4.1.2.c Structure 1: Substructure 1A: Level 53

Domestic faunas dominate an assemblage where cattle constitute the only identified taxon (table A.4.35).

Species	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Cattle	2	100	1	100	42.57	100	2
Total	2	100	1	100	42.57	100	2

Table A.4.35. Identified fragments from level 53.

Cattle

Skeletal Representation

The skeletal representation study evidenced an over-representation of anatomical parts corresponding to the hindlimb. The rest of the anatomical parts are under-represented with respect to a standard skeleton (table A.4.36, fig. A.4.17).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoids	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	1	50	3.91	6	2.89	1.06	2.85
Metatarsal	1	50	3.91	2	0.96	-0.03	3.94
Total hindfoot	2	100	4.60	12	5.79	1.75	2.85
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	2	100	4.60	207	100	4.60	0

Table A.4.36. Skeletal representation in cattle from level 53.

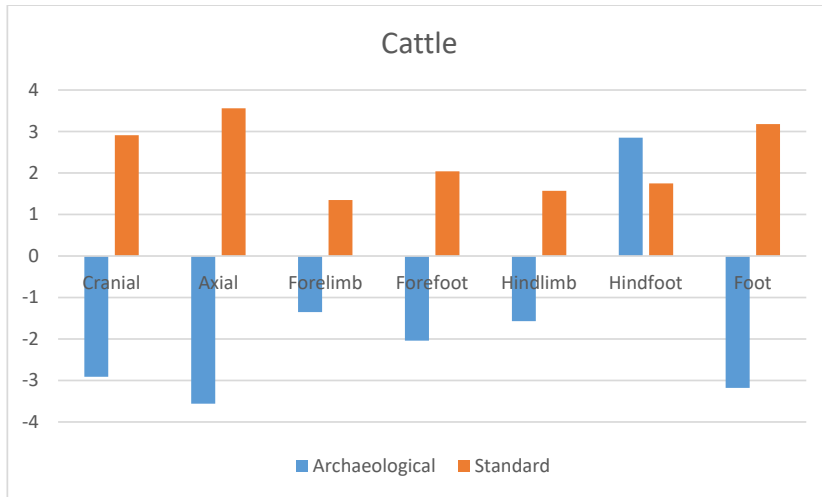


Fig. A.4.17. Skeletal representation in cattle.

Skeletal Elements

Based on the %MAU, the metatarsal is the best represented element. According to the percentage of completeness, metatarsal and tarsal both have a low rate of fragmentation (table A.4.37, fig. A.4.18a, A.4.18b, A.4.19).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%MNE	MAU	%MAU	PD	PP	PP/NISP	%CN
Metatarsal	1	50	37	86.91	1	50	0.5	100	8	4	4	50
Tarsal	1	50	5.57	13.08	1	50	0.16	32	1	1	1	100
Total	2	100	42.57	100	2	100	-	-	-	-	-	-

Table A.4.37. Skeletal elements and rate of fragmentation.

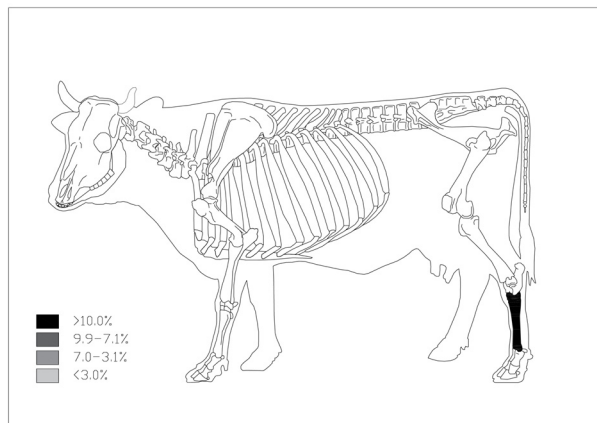


Fig. A.4.18a. Skeletal elements according to %NISP.

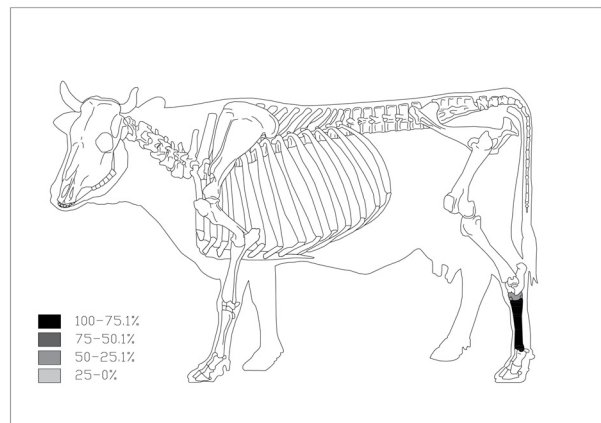


Fig. A.4.18b. Skeletal elements according to %MAU.

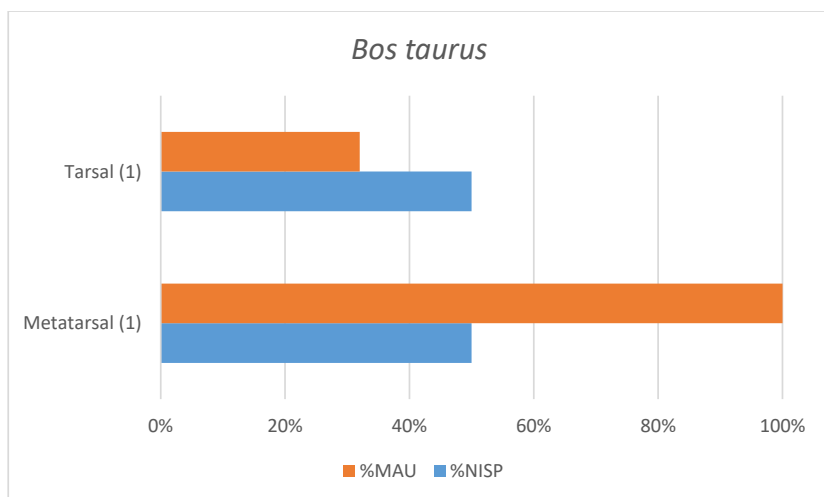


Fig. A.4.19. Skeletal elements according to %NISP and %MAU.

Meat Supply

All the analysed remains exhibit combustion marks. Elements deriving from the hind foot provided the highest proportion of low value meat contributions (table A.4.38, A.4.39).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Metatarsal	37	0.493	0.246	86.92
Tarsal	5.57	0.074	0.037	13.07
Total	42.57	0.567	0.283	100

Table A.4.38. Meat supply according to skeletal elements.

Meat value	Hindfoot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	42.57	42.57	0.567	0.283	100
Total	42.57	42.57	0.567	0.283	100

Table A.4.39. Meat quality distribution.

Sex and Age

Due to the fragmented nature of the sample, it has not been possible to estimate the sex and age of this individual.

A.4.1.2.d Structure 1: Level 55

Six faunal remains comprise this collection. Taking into account that most were assigned to indeterminate categories, the proportion of unidentified remains is quite high. The level of conservation is deficient, featuring a high degree of fragmentation and evidence of exposure to fire (*table A.4.40*).

	NISP	%	Weight (g)	%
Identified	4	66.66	6.38	63.60
Unidentified	2	33.33	3.65	36.39
Total	6	100	10.03	100

Table A.4.40. Faunal remains from level 55.

Identified Fragments

Domestic faunas dominate an assemblage in which caprines constitute the main taxon and cattle take second position followed by lagomorphs (*table A.4.41*).

Species	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Cattle	1	25	1	33.33	4.79	75.07	1
Caprine	2	50	1	33.33	1.33	20.84	2
Total domestic	3	75	2	66.66	6.12	95.92	1.5
Lagomorpha	1	25	1	33.33	0.26	4.07	1
Total	4	100	3	100	6.38	100	1.33

Table A.4.41. Results of the zooarchaeological analysis from level 55 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Size 2 fragments correspond to elements from the appendicular skeleton. Since only caprines were documented, it can be assumed that those elements might correspond to that taxon (*table A.4.42*).

Size	NISP	%	Weight (g)	%
Size 2	2	100	3.65	100
Total	2	100	3.65	100

Table A.4.42. Unidentified fragments from level 55.

Cattle**Skeletal Representation**

The skeletal representation study evidenced an over-representation of hind foot portions. The remaining anatomical parts are under-represented with respect to a standard skeleton (*table A.4.43, fig. A.4.20*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	1	100	4.60	2	0.96	-0.03	4.63
Total hindfoot	1	100	4.60	12	5.79	1.75	2.85
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	1	100	4.60	207	100	4.60	0

Table A.4.43. Skeletal representation in cattle from level 55.

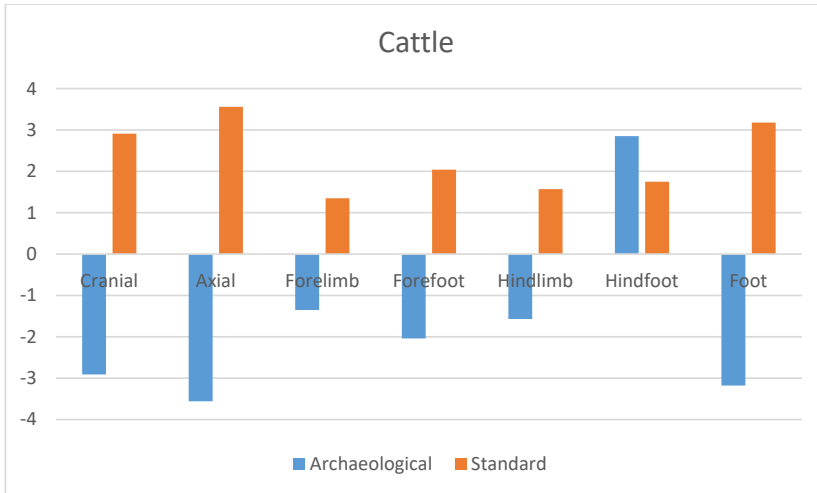


Fig. A.4.20. Skeletal representation in cattle.

Skeletal Elements

Only one fragment could be identified as cattle. This fragment evidences exposure to fire. According to the percentage of completeness, the metatarsal has a high fragmentation rate (table A.4.44, fig. A.4.21).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%MNE	MAU	%MAU	PD	PP	PP/NISP	%CN
Metatarsal	1	100	4.79	100	1	100	0.5	100	8	1	1	12.5
Total	1	100	4.79	100	1	100	-	-	-	-	-	-

Table A.4.44. Skeletal elements and rate of fragmentation.

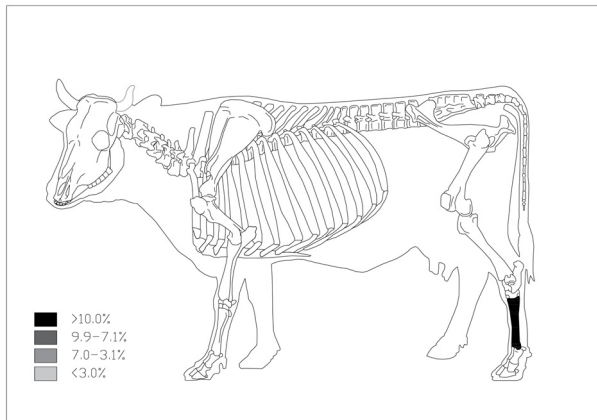


Fig. A.4.21. Skeletal elements according to %NISP.

Meat Supply

Taking into account the low meat value metatarsals provides, it is possible that this bone was used as for combustion (*table A.4.45, A.4.46*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Metatarsal	4.79	0.063	0.031	100
Total	4.79	0.063	0.031	100

Table A.4.45. Meat supply according to skeletal elements.

Meat value	Hindfoot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	4.79	4.79	0.063	0.031	100
Total	4.79	4.79	0.063	0.031	100

Table A.4.46. Meat quality distribution.

Sex and Age

Due to the state of the sample it has not been possible to estimate the sex and age of the specimen.

Caprines

Skeletal Representation

The skeletal representation profile evidences that elements from the fore quarter are over-represented compared to a standard skeleton. The remaining anatomical parts are under-represented in comparison with a standard skeleton (*table A.4.47, fig. A.4.22*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	1	50	3.91	32	15.68	2.75	1.16
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	1	50	3.91	38	18.62	2.92	0.99
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	1	50	3.91	2	0.98	-0.01	3.92
Humerus	-	-	-	2	0.98	-0.01	0.01
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	1	50	3.91	8	3.92	1.36	2.55
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	-	-	-	10	4.90	1.58	-1.58
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	2	100	4.60	204	100	4.60	0

Table A.4.47. Skeletal representation in caprines from level 55.

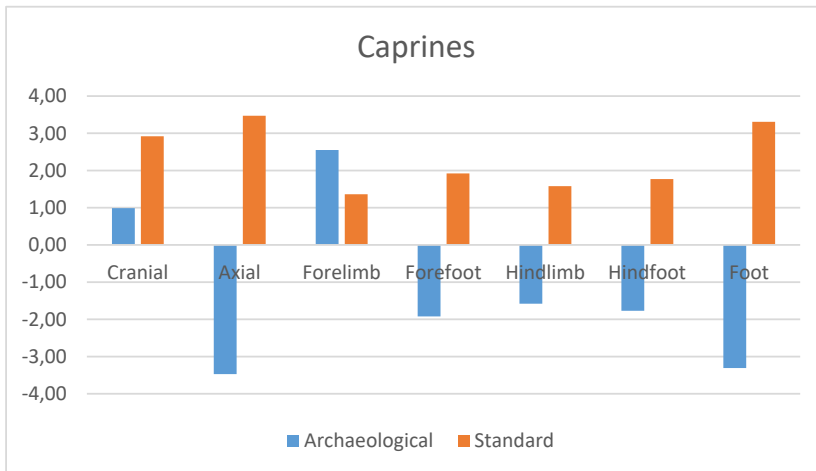


Fig. A.4.22. Skeletal representation in caprines.

Skeletal Elements

Two fragments were identified as caprines. These are an incisor and a left scapula. According to %MAU, scapula is the best represented. According to the percentage completeness, the scapula exhibits a high rate of fragmentation (table A.4.48, fig. A.4.23 a, A.4.23b, A.4.24).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%MNE	MAU	%MAU	PD	PP	PP/NISP	%CN
Teeth	1	50	0.19	14.28	1	50	0.031	6.2				
Scapula	1	50	1.14	85.71	1	50	0.5	100	9	2	1	22.22
Total	2	100	1.33	100	2	100	-	-	-	-	-	-

Table A.4.48. Skeletal elements and rate of fragmentation.

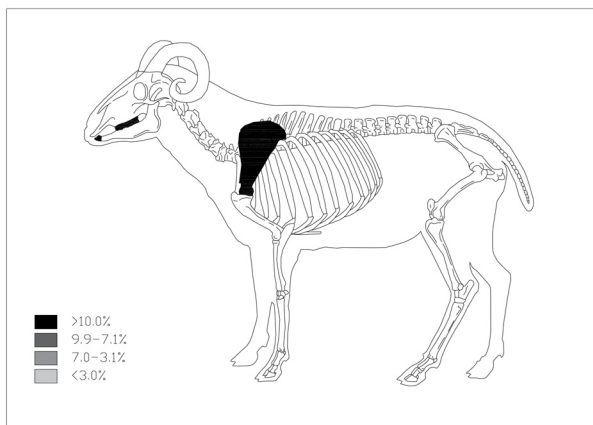


Fig. A.4.23a. Skeletal elements according to %NISP.

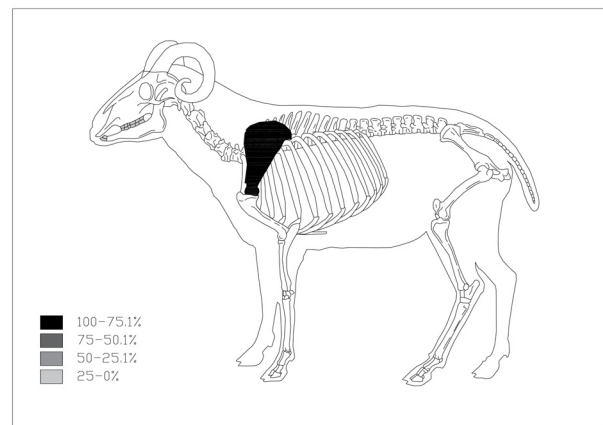


Fig. A.4.23b. Skeletal elements according to %MAU.

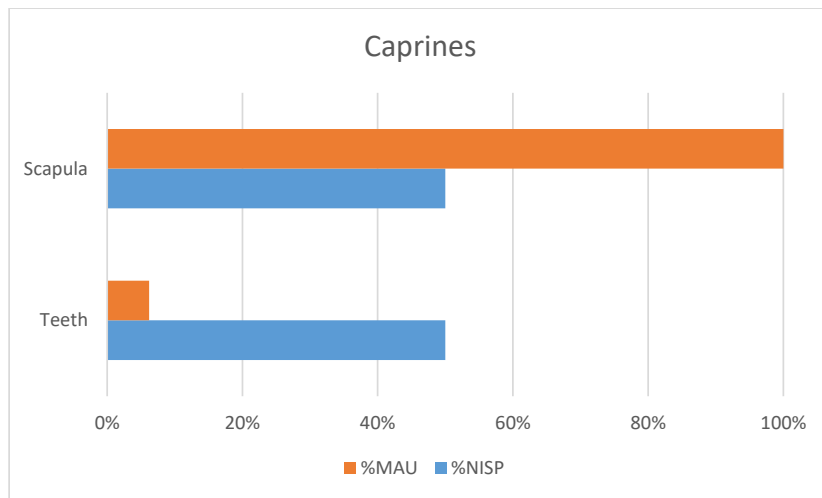


Fig. A.4.24. Skeletal elements according to %NISP and %MAU.

Meat Supply

The only skeletal element has been a scapula (table A.4.49, A.4.50).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Scapula	1.14	0.0152	0.0076	100
Total	1.14	0.0152	0.0076	100

Table A.4.49. Meat supply according to skeletal elements.

Meat value	Forelimb (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
High	1.14	1.14	0.0152	0.0076	100
Total	1.14	1.14	0.0152	0.0076	100

Table A.4.50. Meat quality distribution.

Sex and Age

Due to the limitations of the sample, it has not been possible to estimate the sex and age of the specimens.

A.4.1.2.e Structure 1: Level 56/61

Twelve faunal remains comprise this collection. The level of conservation of the faunal assemblage is quite deficient, featuring a high level of fragmentation (*table A.4.51*).

	NISP	%	Weight (g)	%
Identified	6	50	60,42	88.57
Unidentified	6	50	7,79	11.42
Total	12	100	68.21	100

Table A.4.51. Faunal remains from level 56/61.

Identified Fragments

Domestic faunas dominate an assemblage in which pig constitutes the main taxon (*table A.4.52*).

Species	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Pig	5	83.33	1	50	53.12	87.91	5
Caprine	1	16.66	1	50	7.3	12.08	1
Total	6	100	2	100	60.42	100	3

Table A.4.52. Results of the zooarchaeological analysis from level 56/61 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Size 2 fragments correspond to elements from the appendicular skeleton followed by one element from the axial skeleton (*table A.4.53*).

	NISP	%	Weight (g)	%
Size 2	5	83.33	7.44	95.50
Unidentified	1	16.66	0.35	4.50
Total	6	100	7.79	100

Table A.4.53. Unidentified fragments from level 56/61.

Caprines

Skeletal Representation

The best represented anatomical portions correspond to the hind foot. All remaining anatomical parts are under-represented with respect to a standard skeleton (*table A.4.54, fig. A.4.26*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	-	-	-	32	15.68	2.75	2.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	-	-	-	38	18.62	2.92	-2.92
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	-	-	-	2	0.98	-0.01	0.01
Humerus	-	-	-	2	0.98	-0.01	0.01
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	-	-	-	8	3.92	1.36	-1.36
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	1	100	4.60	2	0.98	-0.01	4.61
Total forefoot	1	100	4.60	14	6.86	1.92	2.68
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	-	-	-	10	4.90	1.58	-1.58
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	1	100	4.60	204	100	4.60	0

Table A.4.54. Skeletal representation in cattle from level 56/61.

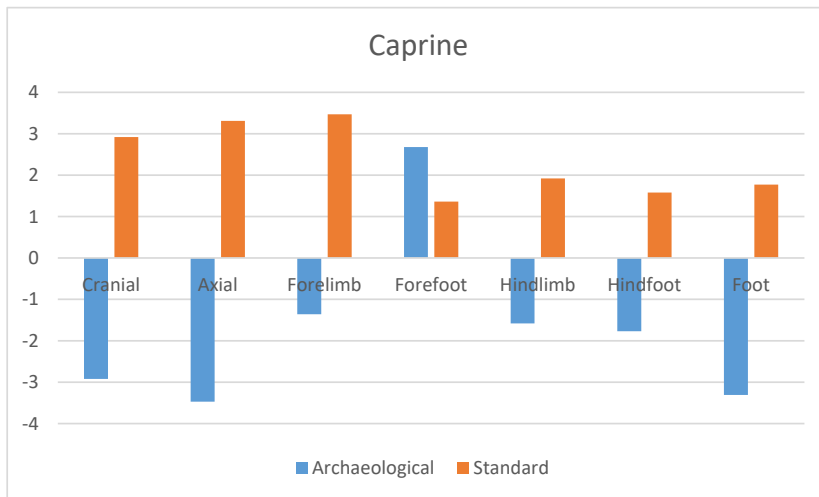


Fig. A.4.26. Skeletal representation in caprines.

Skeletal Elements

Only one metacarpal could be identified as caprine exhibiting an intermediate rate of fragmentation (table A.4.55, fig. A.4.27).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%MNE	MAU	%MAU	PD	PP	PP/NISP	%CN
Metacarpal	1	100	7.3	100	1	100	0.5	100	8	4	4	50
Total	1	100	7.3	100	1	100	-	-	-	-	-	-

Table A.4.55. Skeletal elements and rate of fragmentation.

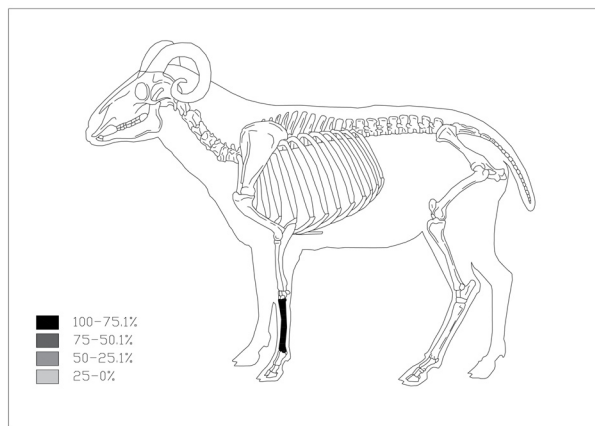


Fig. A.4.27. Skeletal elements according to %NISP.

Meat Supply

The only element is a metacarpus, whose contribution is practically nil (*table A.4.56, A.4.57*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Metacarpal	7.3	0.097	0.048	100
Total forefoot	7.3	0.097	0.048	100
Total	7.3	0.097	0.048	100

Table A.4.56. Meat supply according to skeletal elements (teeth not included).

Meat value	Forefoot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	7.3	7.3	0.097	0.048	100
Total	7.3	7.3	0.097	0.048	100

Table A.4.57. Meat quality distribution.

Sex and Age

Due to the limitations of the sample, it has not been possible to estimate the sex and age of the identified individual. The only measurement appears in table A.4.58:

Element	Bp	Dp
Metacarpal	21.01	14.29

Table A.4.58. Measurements.

Pig**Skeletal Representation**

There is an over-representation of forelimb and hindlimb elements. The remaining anatomical portions are all under-represented with respect to a standard skeleton (*table A.4.59, fig. A.4.28*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	-	-	-	2	0.68	-0.37	0.37
Teeth	-	-	-	44	15.17	2.71	-2.71
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	-	-	-	48	16.55	2.80	-2.80
Vertebrae	3	60	4.09	56	19.31	2.96	1.13
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	3	60	4.09	86	29.65	3.38	0.71
Scapula	1	20	2.99	2	0.68	-0.37	3.36
Humerus	-	-	-	2	0.68	-0.37	0.37
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	1	20	2.99	8	2.75	1.01	1.98
Carpal	-	-	-	16	5.51	1.70	-0.6
Metacarpal	-	-	-	8	2.75	1.01	-1.01
Total forefoot	-	-	-	24	8.27	2.11	-1.01
Pelvis	1	20	2.99	2	0.68	-0.37	3.36
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	1	20	2.99	10	3.44	1.23	1.76
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	-2.19
Phalanx I	-	-	-	16	5.51	1.70	-1.70
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	-	-	-	88	30.34	3.41	-3.41
Total	5	100	4.60	290	100	4.60	0

Table A.4.59. Skeletal representation in pigs from level 56/61.

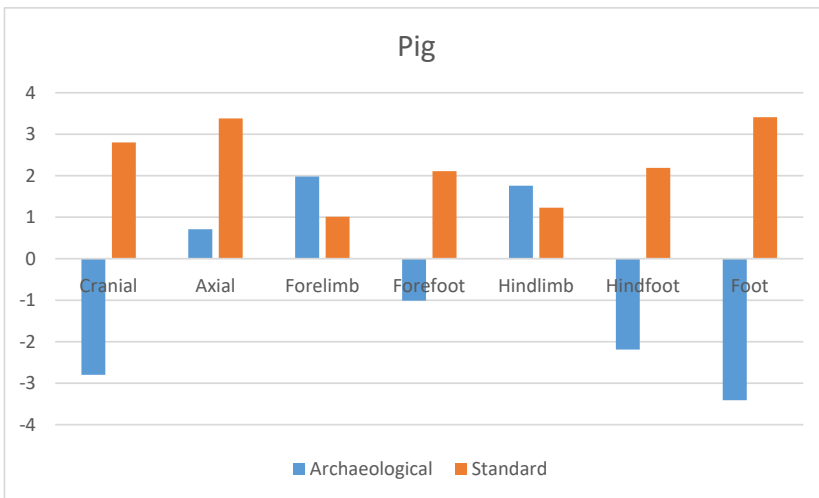


Fig. A.4.28. Skeletal representation in pigs.

Skeletal Elements

According to %MAU, the scapula and pelvis are the best represented elements followed by vertebrae. According to the percentage completeness, pelvis has a high rate of fragmentation with respect to the vertebrae and scapula with medium rates (table A.4.60, fig. A.4.29a, A.4.29b).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%MNE	MAU	%MAU	PD	PP	PP/NISP	%CN
Vertebrae	3	60	18.51	34.84	2	50	0.035	7	2	3	1	50
Scapula	1	20	16.61	31.26	1	25	0.5	100	9	4	4	44.44
Pelvis	1	20	18	33.88	1	25	0.5	100	12	1	1	8.33
Total	5	100	53.12	100	4	100	-	-	-	-	-	-

Table A.4.60. Skeletal elements and rate of fragmentation.

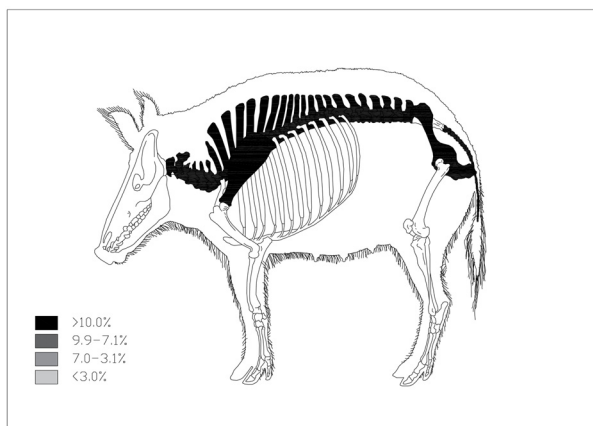


Fig. A.4.29a. Skeletal elements according to %NISP.

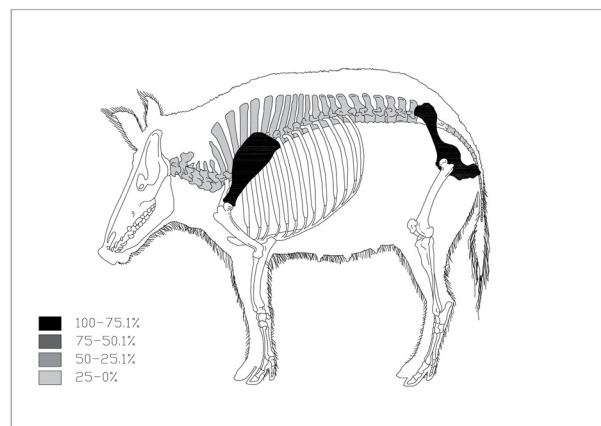


Fig. A.4.29b. Skeletal elements according to %MAU.

Meat Supply

Elements deriving from the axial, forelimb and hindlimb provide the highest proportion of meat contributions in similar proportion (*table A.4.61, A.4.62*). All feature high meat values.

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Vertebrae	18.51	0.246	0.123	34.74
Total axial	18.51	0.246	0.123	34.74
Scapula	16.61	0.221	0.110	31.07
Total forelimb	16.61	0.221	0.110	31.07
Pelvis	18	0.24	0.12	33.89
Total hindlimb	18	0.24	0.12	33.89
Total	53.12	0.708	0.354	100

Table A.4.61. Meat supply according to skeletal elements.

Meat value	Axial (g)	Forelimb (g)	Hindlimb (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
High	18.51	16.61	18	53.12	0.708	0.354	100
Total	18.51	16.61	18	53.12	0.708	0.354	100

Table A.4.62. Meat quality distribution.

Sex and Age

Due to the limitations of the sample, it has not been possible to estimate the sex and age of the identified individual.

A.4.1.3 Structure 2

A.4.1.3.a Structure 2 and 3: Level 22/28

66 faunal remains comprise this collection. Taking into account that most were assigned to indeterminate categories, the proportion of unidentified remains is quite high (*table A.4.63*). The level of conservation of the faunal assemblage is rather poor, featuring a high degree of fragmentation.

	NISP	%	Weight (g)	%
Identified	25	37.87	356.38	85.34
Unidentified	41	62.12	61.18	14.65
Total	66	100	417.56	100

Table A.4.63. Faunal remains from level 22/28 in structure 2 and 3.

Identified Fragments

Domestic faunas dominate an assemblage where cattle constitute the main taxon and caprines plus pigs take second position (*table A.4.64*).

Species	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Cattle	5	20	1	14.28	197.24	55.27	5
Caprine	4	16	1	14.28	30.91	8.66	4
Pig	7	28	2	28.57	63.18	17.70	3.5
Dog	1	4	1	14.28	0.27	0.07	1
Total domestic	17	68	5	71.42	291.6	81.72	3.4
Deer	1	4	1	14.28	59.57	16.69	1
Lagomorpha	7	28	1	14.28	5.64	1.58	7
Total wild	8	32	2	28.57	64.78	18.15	4
Total	25	100	7	100	356.81	100	3.57

Table A.4.64. Results of the zooarchaeological analysis from level 22/28 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Size 2 fragments correspond to elements from the appendicular skeleton followed by axial and skeleton. In the case of size 3 fragments, only one fragment from the appendicular skeleton has been recorded (*table A.4.65*).

Size	NISP	%	Weight (g)	%
Size 3	3	7.31	12.95	21.16
Size 2	30	73.17	41.98	68.61
Size 1	3	7.31	1.65	2.69
Unidentified	5	12.19	5.64	9.21
Total	41	100	61.18	100

Table A.4.65. Unidentified fragments from level 22/28.

Cattle

Skeletal Representation

In terms of skeletal representation there is an under-representation of all anatomical parts in relation to a standard skeleton (*table A.4.66, fig. A.4.30*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	1	25	3.21	1	0.48	-0.72	3.93
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	1	25	3.21	38	18.35	2.91	0.3
Vertebrae	-	-	-	45	21.73	3.07	3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	1	25	3.21	1	0.48	-0.72	3.93
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	1	25	3.21	73	35.26	3.56	-0.35
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	1	-	3.21	2	0.96	-0.03	3.24
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	1	25	3.21	8	3.86	1.35	1.86
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	1	25	3.21	8	3.86	1.35	1.86
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	1	25	3.21	50	24.15	3.18	0.03
Total	4	100	4.60	207	100	4.60	0

Table A.4.66. Skeletal representation in cattle from level 22/28.

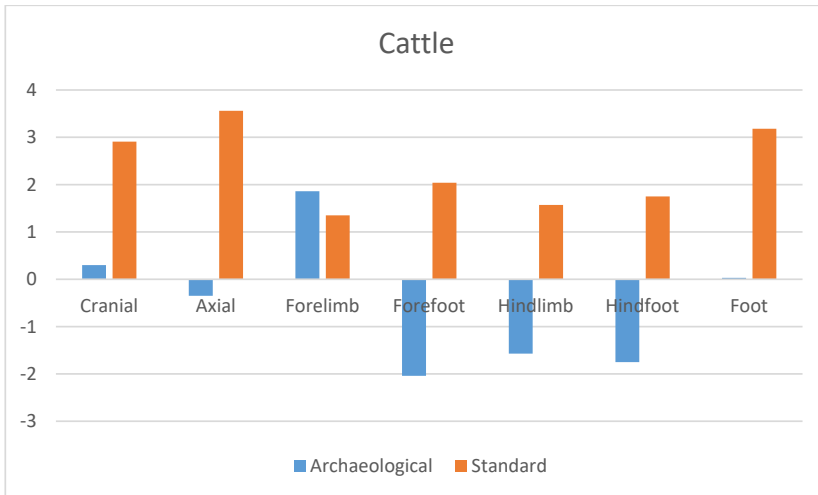


Fig. A.4.30. Skeletal representation in cattle.

Skeletal Elements

Only five fragments could be identified as *Bos taurus*. Based on %MAU, the cranial and axial portions are best represented. According to the percentage of completeness, the phalanx exhibits a low rate of fragmentation when compared to the remaining elements (table A.4.67, fig. A.4.31a, A.4.31b, A.4.32).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%MNE	MAU	%MAU	PD	PP	PP/NISP	%CN
Skull	1	20	91.55	46.41	1	20	1	100	-	1	1	-
Radius	1	20	22.94	11.63	1	20	0.5	50	10	2	2	20
Sacrum	1	20	58.44	29.62	1	20	1	100	-	1	-	-
Phalanx	1	20	10.77	5.46	1	20	0.041	4.1	3	2	2	66.66
Phalanx III	1	20	13.54	6.86	1	20	0.041	4.1	2	2	2	100
Total	5	100	197.24	100	5	100	-	-	-	-	-	-

Table A.4.67. Skeletal elements and rate of fragmentation.

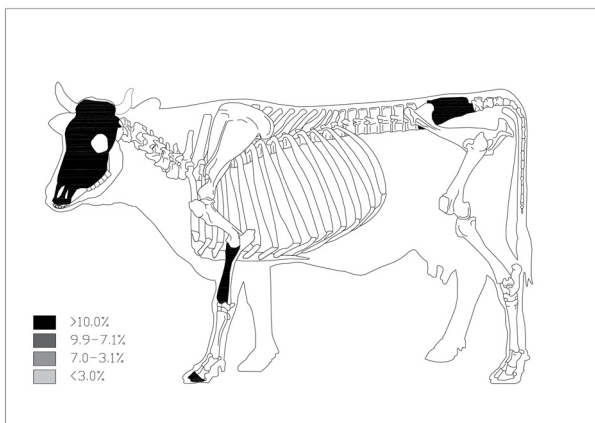


Fig. A.4.31a. Skeletal elements according to %NISP.

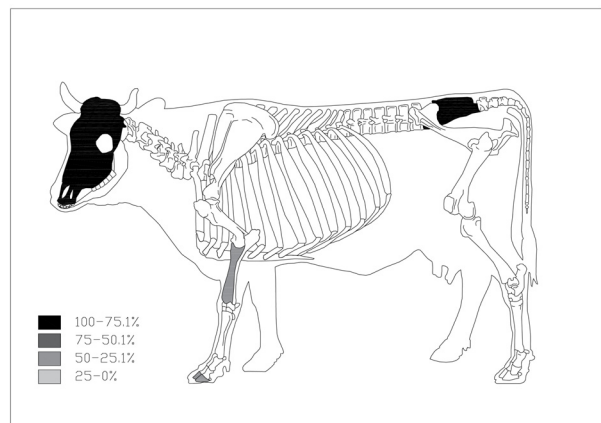


Fig. A.4.31b. Skeletal elements according to %MAU.

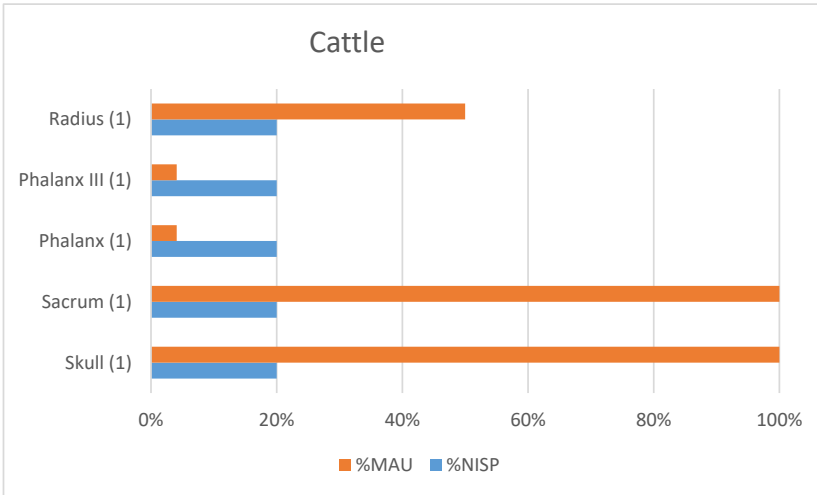


Fig. A.4.32. Skeletal elements according to %NISP and %MAU.

Meat Supply

Skull portions provided the highest meat contributions followed by sacrum, a high input element (table A.4.68, A.4.69, fig. A.4.32).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	91.55	1.220	0.610	46.42
Total cranial	91.55	1.220	0.610	46.42
Sacrum	58.44	0.779	0.389	29.60
Total axial	58.44	0.779	0.389	29.60
Radius	22.94	0.305	0.152	11.56
Total forelimb	22.94	0.305	0.152	11.56
Phalanx	10.77	0.143	0.071	5.40
Phalanx III	13.54	0.180	0.090	6.84
Total foot	24.31	0.324	0.162	12.32
Total	197.24	2.629	1.314	100

Table A.4.68. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Axial (g)	Forelimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	24.31	24.31	0.143	0.071	5.40
Medium	91.55	-	22.94	-	114.49	1.526	0.763	58.06
High	-	58.44	-	-	58.44	0.779	0.389	29.60
Total	91.55	58.44	22.94	10.77	197.24	2.629	1.314	100

Table A.4.69. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveal one individual slaughtered above 24 months (i.e. subadult/adult). It was not possible to determine the sex due to the lack of the pertinent anatomical elements. Likewise, it was not possible to calculate the mean height at the withers due to the absence of complete bones (table A.4.70).

Element	Ld	MBS	DLS
Phalanx III	39.89	20.2	54.32

Table A.4.70. Measurements.

Caprines

Skeletal Representation

The skeletal representation profile shows that the better represented anatomical parts are from the forelimb. The remaining anatomical portions are under-represented with respect to a standard skeleton (table A.4.71).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	-	-	-	32	15.68	2.75	-2.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	-	-	-	38	18.62	2.92	-2.92
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	1	25	3.21	2	0.98	-0.01	3.22
Humerus	2	50	3.91	2	0.98	-0.01	3.92
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	1	25	3.21	2	0.98	-0.01	2.22
Total forelimb	4	100	4.60	8	3.92	1.36	3.24
Carpal	-	-	-	12	5.88	1.77	-0.39
Metacarpal	-	-	-	2	0.98	-0.01	1.39
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	-	-	-	10	4.90	1.58	-1.58
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	4	100	4.60	204	100	4.60	0

Table A.4.71. Skeletal representation in caprines from level 22/28.

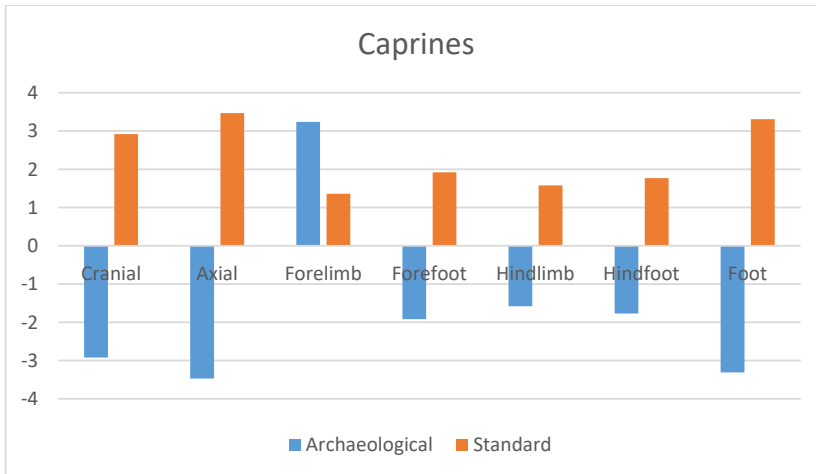


Fig. A.4.33. Skeletal representation in caprines.

Skeletal Elements

Only elements from the forelimb have been documented. The percentage completeness value reveals a high rate of fragmentation (*table A.4.72, fig. A.4.34a, A.4.34b, A.4.35*).

Skeletal element	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Scapula	1	25	1.2	3.88	1	33.33	0.5	100	9	1	1	11.11
Humerus	2	50	26.37	85.31	1	33.33	0.5	100	11	3	1.5	13.63
Ulna	1	25	3.34	10.80	1	33.33	0.5	100	9	1	1	11.11
Total	1	100	30.91	100	3	100	-	-	-	-	-	-

Table A.4.72. Skeletal elements and rate of fragmentation.

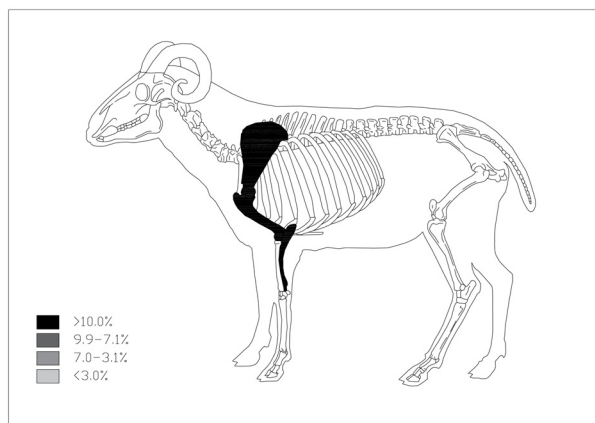


Fig. A.4.34a. Skeletal elements according to %NISP.

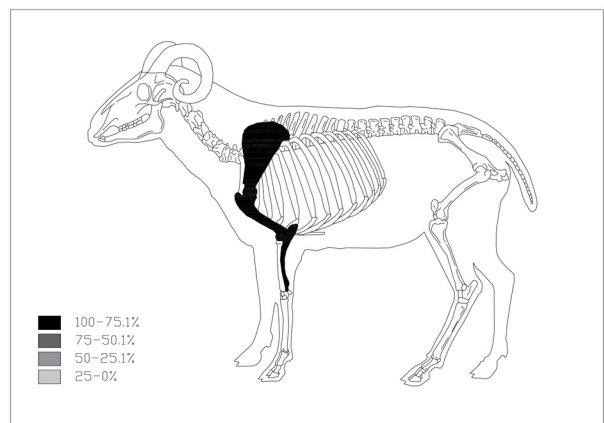


Fig. A.4.34b. Skeletal elements according to %MAU.

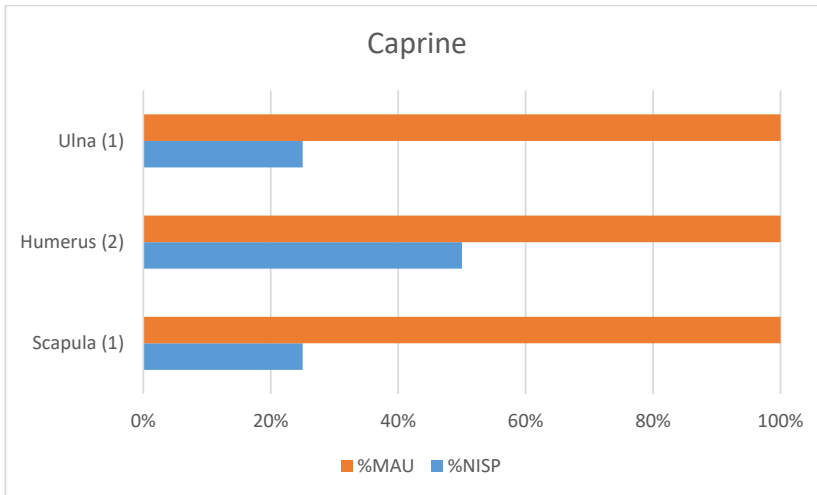


Fig. A.4.35. Skeletal elements according to %NISP and %MAU.

Meat Supply

Skeletal elements from the forelimb provide the greatest meat contribution. There is a predominance of high-meat input elements followed by medium-input ones (table A.4.73, A.4.74).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Scapula	1.2	0.016	0.008	3.88
Humerus	26.37	0.351	0.175	84.95
Ulna	3.34	0.045	0.022	10.67
Total	30.91	0.412	0.206	100

Table A.4.73. Meat supply according to skeletal elements.

Meat quality	Forelimb (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
High	27.57	27.57	0.367	0.183	88.83
Medium	3.34	3.34	0.045	0.02	9.7
Total	30.91	30.91	0.412	0.206	100

Table A.4.74. Meat quality distribution.

Sex and Age

The epiphyseal fusion reveals an infant-juvenile individual below nine months. Likewise, fragmentation hindered the estimation of height at the withers.

Pig**Skeletal Representation**

The skeletal profile reveals an over-representation of fore and hindlimb in relation to a standard skeleton (*table A.4.75, fig. A.4.36*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	1	12.5	2.52	2	0.68	-0.37	2.89
Teeth	1	12.5	2.52	44	15.17	2.71	-0.19
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	2	25	3.21	48	16.55	2.80	0.41
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.96
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	-	-	-	2	0.68	-0.37	0.37
Humerus	1	12.5	2.52	2	0.68	-0.37	2.89
Radius	1	12.5	2.52	2	0.68	-0.37	2.89
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	2	25	3.21	8	2.75	1.01	2.2
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	1	12.5	2.52	8	2.75	1.01	1.51
Total forefoot	1	12.5	2.52	24	8.27	2.11	0.41
Pelvis	2	25	3.21	2	0.68	-0.37	3.58
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	2	25	3.21	10	3.44	1.23	1.98
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	-2.19
Phalanx I	1	12.5	2.52	16	5.51	1.70	0.82
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	1	12.5	2.52	88	30.34	3.41	-0.89
Total	8	100	4.60	290	100	4.60	0

Table A.4.75. Skeletal representation in pigs from level 22/28.

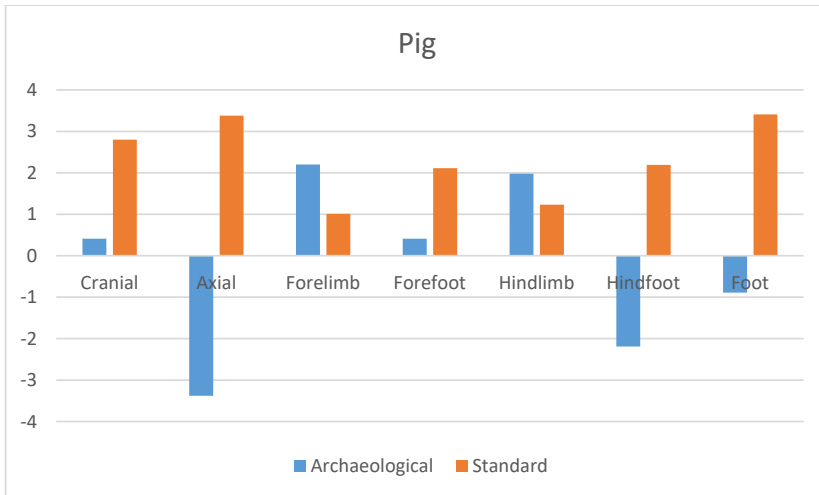


Fig. A.4.36. Skeletal representation in pigs.

Skeletal Elements

Based on %MAU, all elements are represented by 100% except the first phalanx with a mere 12%. According to the percentage of completeness, the pelvis exhibits a higher rate of fragmentation with respect to the remaining anatomical elements. Elements from the forelimb and mandible exhibit a similarly high percentage completeness versus elements from the fore foot and hind foot that exhibit an intermediate rate. Only a canine was documented in the sample (table A.4.76, fig. A.4.37a, A.4.37b).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Canine	1	12.5	5.76	0.091	1	25	0.25	50	-	-	-	-
Mandible	1	12.5	19.33	30.59	1	16.66	0.5	100	7	2	2	28.57
Humerus	1	12.5	8.24	13.04	1	16.66	0.5	100	11	4	4	36.36
Radius	1	12.5	7.22	11.42	1	16.66	0.5	100	10	3	3	30
Metacarpal III	1	12.5	2.01	3.18	1	16.66	0.5	100	3	2	2	66.66
Pelvis	2	50	17.95	28.41	1	16.66	0.5	100	12	3	1.5	12.5
Phalanx I	1	12.5	2.67	4.22	1	16.66	0.06	12	3	2	2	66.66
Total	8	100	63.18	100	6	100	-	-	-	-	-	-

Table A.4.76. Skeletal elements and rate of fragmentation.

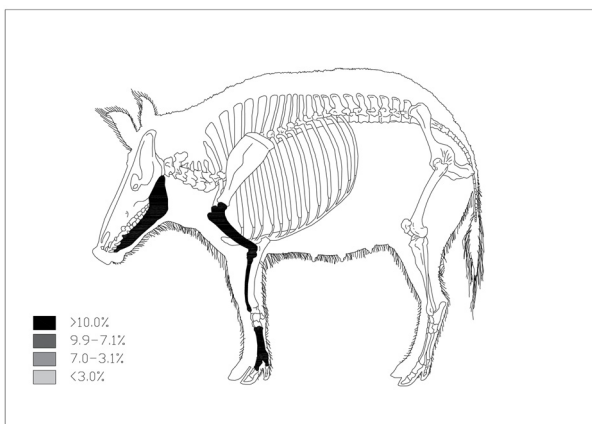


Fig. A.4.37a. Skeletal elements according to %NISP.

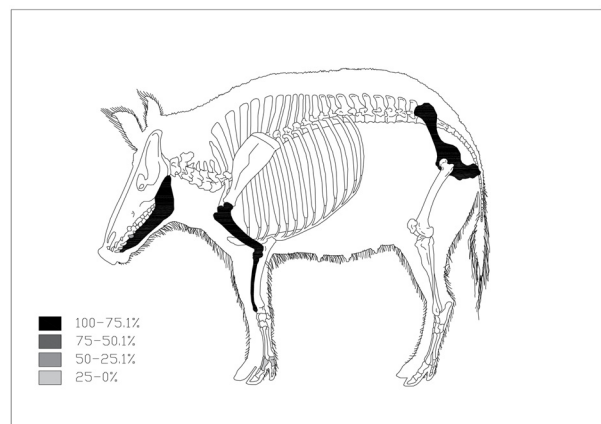


Fig. A.4.37b. Skeletal elements according to %MAU.

Meat Supply

Cranial skeleton provided the highest proportion of meat but if the number of appendicular elements identified in the size 2 category is considered, the fore quarters and hind quarters would be under-represented. In such a case, the elements coming from the appendicular skeleton, mainly those with high and medium contribution values, would constitute the main meat input followed by those from the skull. A cut mark was recorded on the radius (*table A.4.77, A.4.78, fig. A.4.38*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	19.33	0.257	0.128	33.50
Total cranial	19.33	0.257	0.128	33.50
Humerus	8.24	0.109	0.054	14.13
Radius	7.22	0.096	0.048	12.56
Total forelimb	15.46	0.206	0.103	26.96
Metacarpal III	2.01	0.026	0.013	3.40
Total forefoot	2.01	0.026	0.013	3.40
Pelvis	17.95	0.239	0.119	31.15
Total hindlimb	17.95	0.239	0.119	31.15
Phalanx I	2.67	0.035	0.017	4.45
Total foot	2.67	0.035	0.017	4.45
Total	57.42	0.765	0.382	100

Table A.4.77. Meat supply according to skeletal elements (teeth not included).

Meat value	Cranial (g)	Forelimb (g)	Forefoot (g)	Hindlimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	2.01	-	2.67	4.68	0.062	0.031	8.11
Medium	19.33	7.22	-	-	-	26.55	0.354	0.177	46.33
High	-	8.24	-	17.95	-	26.19	0.349	0.174	45.5
Total	19.33	15.46	2.01	17.95	2.67	57.42	0.765	0.382	100

Table A.4.78. Meat quality distribution.

Sex and Age

Epiphyseal fusion data managed to spot an individual slaughtered when over twelve months (i. e. sub-adult/adult). A second individual below twelve months was clearly a subadult. The morphology of the canine corresponds to a male. Likewise, it was not possible to calculate the mean height at the withers due to the absence of complete bones (*table A.4.79*).

Element	Bp
Radio	27.56
Metacarpus III	14.85

Table A.4.79. Measurements.

A.4.1.4 Structure 4

A.4.1.4.a Structure 4: Level 4

The bone collection from SU-4 incorporates 115 fragments. The proportion of unidentified remains is high when one considers that most belong to indeterminate categories (*table A.4.80*). The level of conservation is poor, featuring a high degree of fragmentation.

	NISP	%	Weight (g)	%
Identified	17	14.78	98.24	49.75
Unidentified	98	85.21	99.2	50.24
Total	115	100	197.44	100

Table A.4.80. Faunal remains from level 4.

Identified Fragments

Domestic faunas dominate an assemblage where cattle constitute the main taxon and caprines take second position followed by dog (*table A.4.81*).

Specie	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Cattle	4	23.52	1	25	73.88	75.20	4
Caprine	4	23.52	1	25	13,98	14.23	4
Dog	1	5.88	1	25	7.57	7.70	1
Total domestic	9	52.94	3	75	95.43	97.13	2.25
Lagomorpha	8	47.05	1	25	2.81	2.86	8
Total wild	8	47.05	1	25	2.81	2.86	8
Total	17	100	4	100	98.24	100	3.4

Table A.4.81. Results of the zooarchaeological analysis from level 4 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Fragments identified as size 3 correspond to elements of the axial and cranial skeleton. In the case of size 2 fragments, there is a predominance of fragments from the appendicular skeleton and a low proportion of axial elements (*table A.4.82*).

Size	NISP	%	Weight (g)	%
Size 3	3	3.06	23.15	23.33
Size 2	91	92.85	66.78	67.31
Size 1	3	3.06	0.26	0.26
Unidentified	1	1.02	9.01	9.08
Total	98	100	99.2	100

Table A.4.82. Unidentified fragments from level 4.

Cattle

Skeletal Representation

There is an over-representation of forelimb and hindlimb elements in relation to a standard skeleton. Remaining anatomical parts are under-represented (*table A.4.83, fig. A.4.39*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	1	25	3.21	2	0.96	-0.03	3.24
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	1	25	3.21	38	18.35	2.91	0.3
Vertebrae	1	25	3.21	45	21.73	3.07	0.14
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	1	25	3.21	73	35.26	3.56	-0.35
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	1	25	3.21	2	0.96	-0.03	3.24
Total forelimb	1	25	3.21	8	3.86	1.35	1.86
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	1	25	3.21	2	0.96	-0.03	3.24
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	1	25	3.21	10	4.83	1.57	1.64
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	4	100	4.60	207	100	4.60	0

Table A.4.83. Skeletal representation in cattle from level 4.

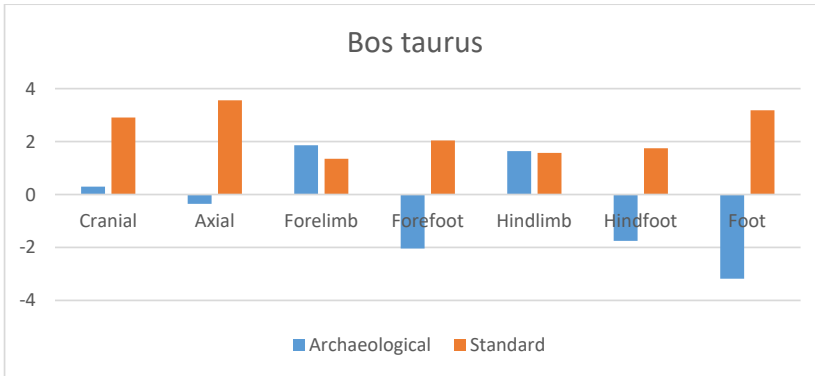


Fig. A.4.39. Skeletal representation in cattle.

Skeletal Elements

Cattle is represented by four fragments. Based on %MAU, horncores, pelvis and ulna are best represented. According to the percentage completeness, pelvis and ulna exhibit a higher rate of fragmentation than the remaining elements (table A.4.84, fig. A.4.40a, A.4.40b, A.4.41).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Horncore	1	25	1.29	1.74	1	25	0.5	100	-	1	1	-
Vertebra	1	25	15.61	21.12	1	25	0.022	4.4	2	1	1	50
Ulna	1	25	27.24	36.87	1	25	0.5	100	9	1	1	11.11
Pelvis	1	25	29.74	40.25	1	25	0.5	100	12	1	1	8.33
Total	4	100	73.88	100	3	100	-	-	-	-	-	-

Table A.4.84. Skeletal elements and rate of fragmentation.

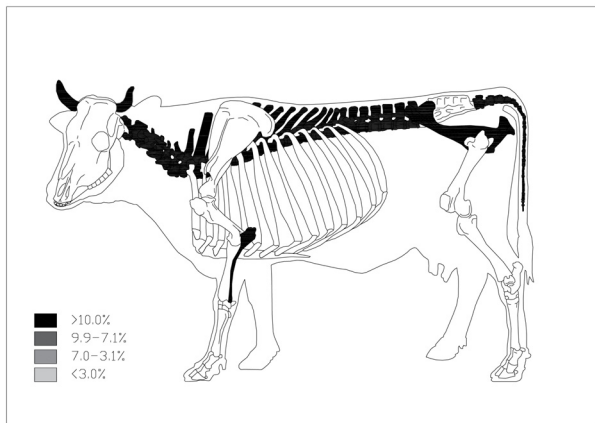


Fig. A.4.40a. Skeletal elements according to %NISP.

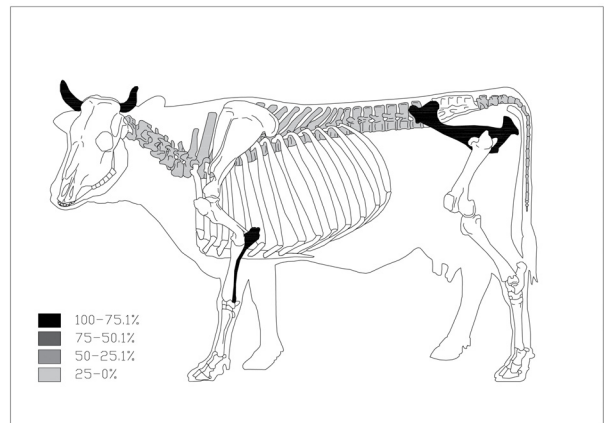


Fig. A.4.40. Skeletal elements according to %MAU.

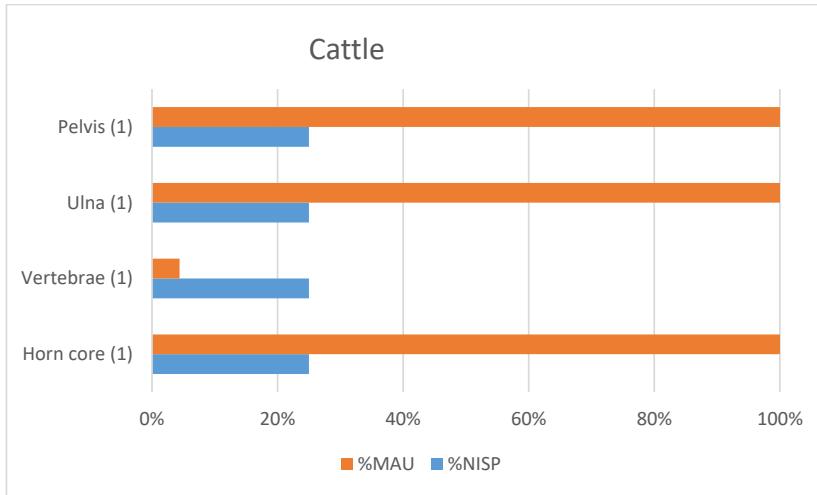


Fig. A.4.41. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements coming from the fore and hind quarters, in particular the pelvis, provide the highest meat contributions followed by ulna, a medium-input element (table A.4.85, A.4.86).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Vertebra	15.61	0.208	0.104	21.48
Total axial	15.61	0.208	0.104	21.48
Ulna	27.24	0.363	0.181	37.39
Total forelimb	27.24	0.363	0.181	37.39
Pelvis	29.77	0.396	0.198	40.90
Total hindlimb	29.77	0.396	0.198	40.90
Total	72.62	0.968	0.484	100

Table A.4.85. Meat supply according to skeletal elements.

Meat value	Axial (g)	Forelimb (g)	Hindlimb (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Medium	-	27.24	-	27.24	0.363	0.181	37.39
High	15.61	-	29.77	45.38	0.605	0.302	62.39
Total	15.61	27.24	29.77	72.62	0.968	0.484	100

Table A.4.86. Meat quality distribution.

Sex and Age

It has not been possible to estimate the sex and age of the identified individual nor its height at the withers due to the lack of complete bones.

Caprines

Skeletal representation

The skeletal profile of caprines evidences an over-representation of the forelimb in relation to a standard skeleton whereas all remaining anatomical portions are under-represented (*table A.4.87, fig. A.4.42*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	2	50	3.91	2	0.98	-0.01	3.92
Teeth	-	-	-	32	15.68	2.75	-2.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	2	50	3.91	38	18.62	2.92	0.99
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	1	25	3.21	2	0.98	-0.01	3.22
Humerus	1	25	3.21	2	0.98	-0.01	3.22
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	2	50	3.91	8	3.92	1.36	2.55
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	-	-	-	10	4.90	1.58	-1.58
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	4	100	4.60	204	100	4.60	0

Table A.4.87. Skeletal representation in caprines from level 4.

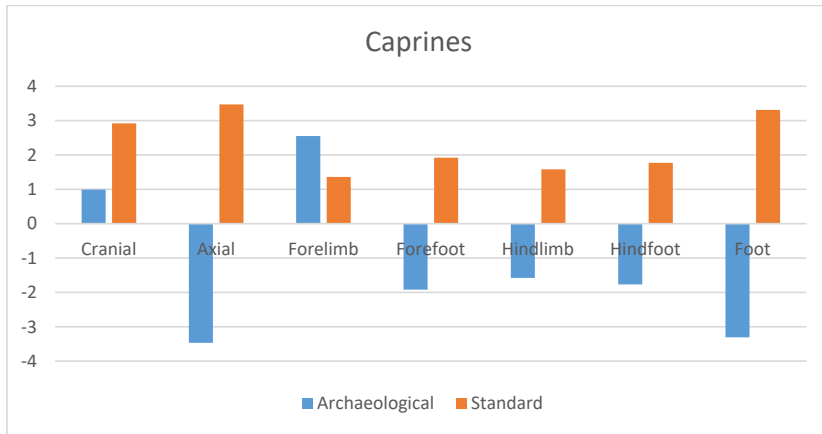


Fig. A.4.42. Skeletal representation in caprines.

Skeletal Elements

Four fragments represent caprines. According to %MAU, mandible elements are best represented in comparison with the scapula and humerus. All elements exhibit a high rate of fragmentation (*table A.4.88, fig. A.4.43a, A.4.43b, A.4.44*).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Mandible	2	50	7.33	52.43	2	50	1	100	7	2	1	14.28
Scapula	1	25	1.98	14.16	1	25	0.5	50	9	1	1	11.11
Humerus	1	25	4.67	33.40	1	25	0.5	50	11	1	1	9.09
Total	4	100	13.98	100	4	100	-	-	-	-	-	-

Table A.4.88. Skeletal elements and rate of fragmentation.

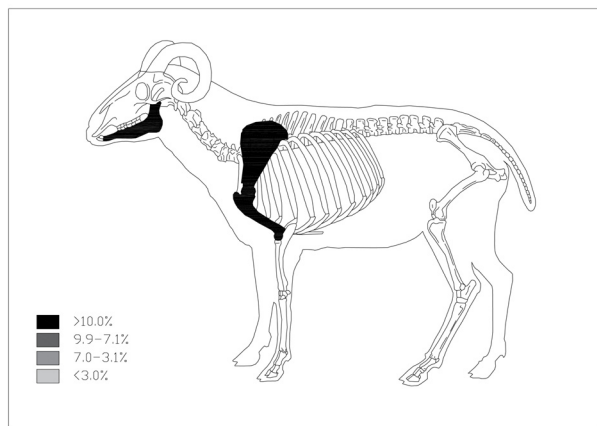


Fig. A.4.43a. Skeletal elements according to %NISP.

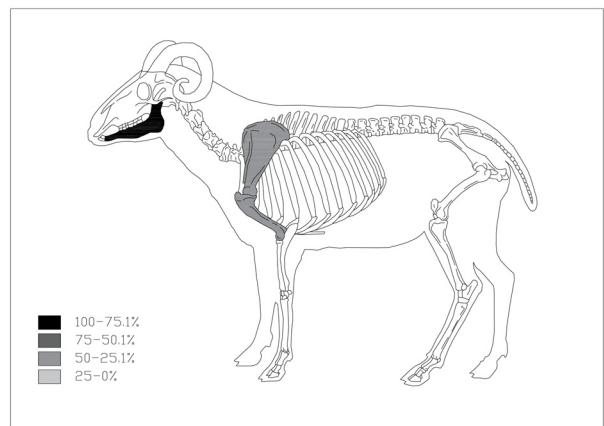


Fig. A.4.43b. Skeletal elements according to %MAU.

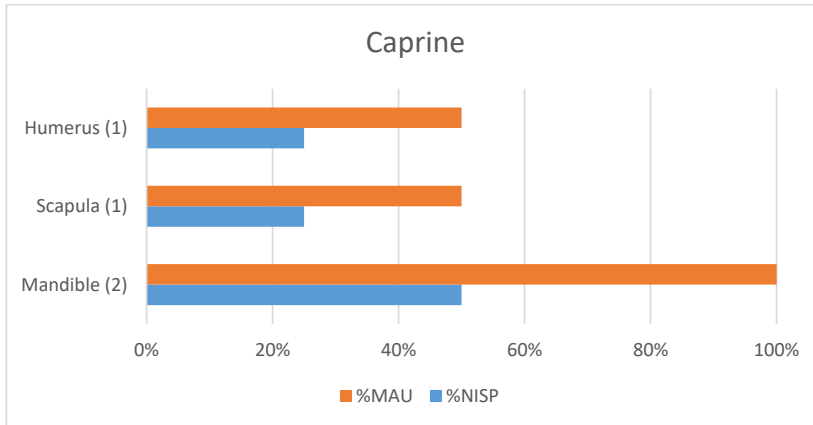


Fig. A.4.44. Skeletal elements according to %NISP and %MAU.

Meat Supply

Cranial and forelimb elements provide the highest proportion of high value meat (*table A.4.89, A.4.90, fig. A.4.45*).

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	7.33	0.097	0.048	51.61
Total cranial	7.33	0.097	0.048	51.61
Scapula	1.98	0.026	0.013	13.97
Humerus	4.67	0.062	0.031	33.33
Total forelimb	6.65	0.088	0.044	47.31
Total	13.98	0.186	0.093	100

Table A.4.89. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Forelimb (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Medium	7.33	-	7.33	0.097	0.048	51.61
High	-	6.65	6.65	0.088	0.044	47.31
Total	7.33	6.65	13.98	0.186	0.093	100

Table A.4.90. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveals a subadult/adult above nine months. It has not been possible to determine the sex nor estimate the mean height at the withers due to the lack of complete bones.

A.4.1.5 Structure 7

A.4.1.5.a Structure 7: Level 29

49 remains were retrieved in SU-26. Taking into account that most were assigned to indeterminate categories the proportion of unidentified remains is high (*table A.4.91*). The level of conservation is poor, featuring a high degree of fragmentation along with combustion marks. A rib from a size 3 mammal, featuring a transversal cut along its main axis and a phalanx I from a deer with a longitudinal cut-mark on its medial side are documented.

	NISP	%	Weight (g)	%
Identified	7	14.28	31.85	48.47
Unidentified	42	85.71	33.86	51.52

Table A.4.91. Faunal remains from level 29.

Identified Fragments

Domestic faunas dominate an assemblage where pigs constitute the main taxon and caprines and deer take second position (*table A.4.92*).

Specie	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Caprine	1	14.28	1	33.33	9.32	29.26	1
Pig	4	57.14	1	33.33	13.01	40.84	4
Total domestic	5	71.42	2	66.66	22.33	70.1	2.5
Deer	2	28.57	1	33.33	9.52	29.89	2
Total	7	100	3	100	31.85	100	2.3

Table A.4.92. Identified fragments from level 29.

Unidentified Fragments

Size 3 fragments correspond to elements from the axial skeleton. Since only deer fragments have been documented within this category, it can be assumed that those elements might correspond to this taxon. In the case of size 2 fragments, there is a predominance of those from the appendicular skeleton followed by axial elements (*table A.4.93*).

	NISP	%	Weight (g)	%
Size 3	3	7.14	10.99	32.45
Size 2	27	64.28	14.36	42.40
Unidentified	12	28.57	8.51	25.13
Total	42	100	33.86	100

Table A.4.93. Unidentified fragments from level 29.

Caprines

Skeletal Representation

An under-representation of all anatomical parts with respect to a standard skeleton has been recorded though cranial elements are better represented than the remaining anatomical parts (*table A.4.94, fig. A.4.46*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	1	100	4.60	2	0.98	-0.01	4.61
Teeth	-	-	-	32	15.68	2.75	-2.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	1	100	4.60	38	18.62	2.92	1.68
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	-	-	-	2	0.98	-0.01	0.01
Humerus	-	-	-	2	0.98	-0.01	0.01
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	-	-	-	8	3.92	1.36	-1.36
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	-	-	-	10	4.90	1.58	-1.58
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	1	100	4.60	204	100	4.60	0

Table A.4.94. Skeletal representation in caprines from level 29.

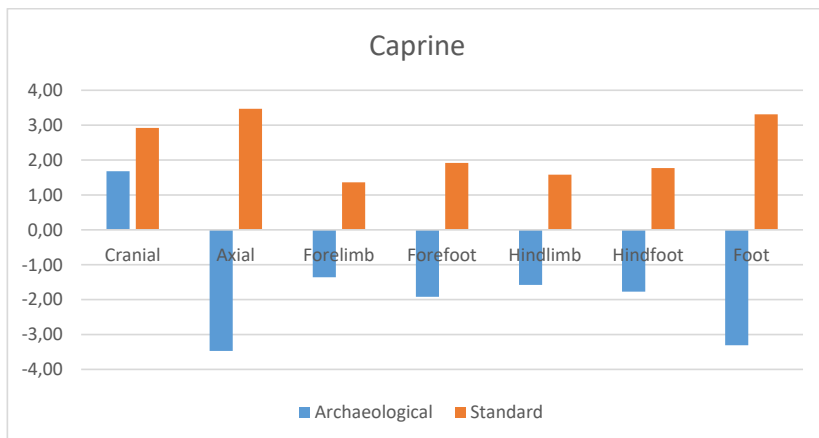


Fig. A.4.46. Skeletal representation in caprines.

Skeletal Elements

Only a fragment from a right mandible could be identified (table A.4.95).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Mandible	1	100	9.32	100	1	100	0.5	100	7	2	2	28.57
Total	1	100	9.32	100	1	100	0.5	100	-	-	-	-

Table A.4.95. Skeletal elements and rate of fragmentation.

Meat Supply

The estimation of meat input amounts to 0.062kg from the right mandible, a medium meat yield element (table A.4.96, A.4.97).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	9.32	0.124	0.062	100
Total	9.32	0.124	0.062	100

Table A.4.96. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Medium	9.32	9.32	0.124	0.062	100
Total	9.32	9.32	0.124	0.062	100

Table A.4.97. Meat quality distribution.

Sex and Age

Tooth eruption and wear data reveal an infant below five months. It has not been possible to determine the sex or calculate the mean height at the withers due to a lack of complete bones.

Pig**Skeletal Representation**

The skeletal profile for this species reveals an over-representation of fore quarter elements. All remaining anatomical parts are under-represented with respect to a standard skeleton. Fore foot followed by hind quarter and cranial elements are better represented than the rest of the under-represented anatomical portions (*table A.4.98, fig. A.4.47*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	-	-	-	2	0.68	-0.37	0.37
Teeth	1	33.33	3.50	44	15.17	2.71	0.79
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	1	33.33	3.50	48	16.55	2.80	0.70
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	1	33.33	3.50	2	0.68	-0.37	3.87
Humerus	-	-	-	2	0.68	-0.37	0.37
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	1	33.33	3.50	8	2.75	1.01	2.49
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	1	33.33	3.50	8	2.75	1.01	2.49
Total forefoot	1	33.33	3.50	24	8.27	2.11	1.39
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	-	-	-	10	3.44	1.23	0.57
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	-2.19
Phalanx I	-	-	-	16	5.51	1.70	-1.70
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	-	-	-	88	30.34	3.41	-3.41
Total	3	100	4.60	290	100	4.60	0

Table A.4.98. Skeletal representation in pigs from level 56/61.

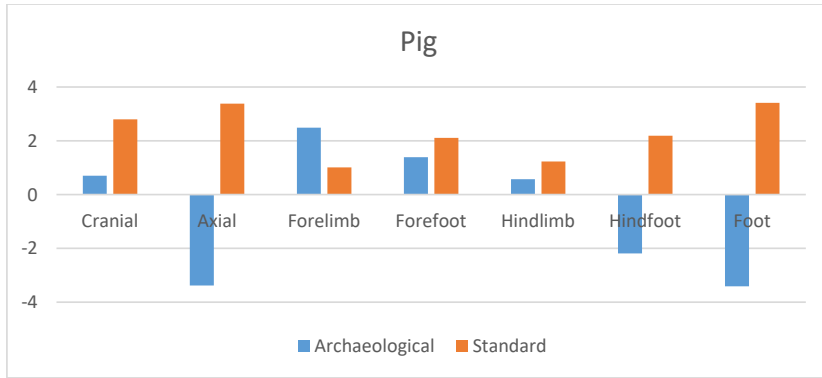


Fig. A.4.47. Skeletal representation in pigs.

Skeletal Elements

Four fragments could be identified as pig. Based on %MAU, the scapula is the element best represented followed by metacarpal II, metapodial and teeth (table A.4.99, fig. A.4.48a, A.4.48b, A.4.49).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Teeth	1	25	2.93	22.52	1	25	0.022	4.4	-	-	-	-
Scapula	1	25	7.45	57.26	1	25	0.5	100	9	2	2	22.22
Metacarpal	1	25	1.16	8.91	1	25	0.125	25	3	2	2	66.66
Metapodia	1	25	1.47	11.29	1	25	0.062	12.4	3	1	1	33.33
Total	4	100	13.01	100	4	100	-	-	-	-	-	-

Table A.4.99. Skeletal elements and rate of fragmentation.

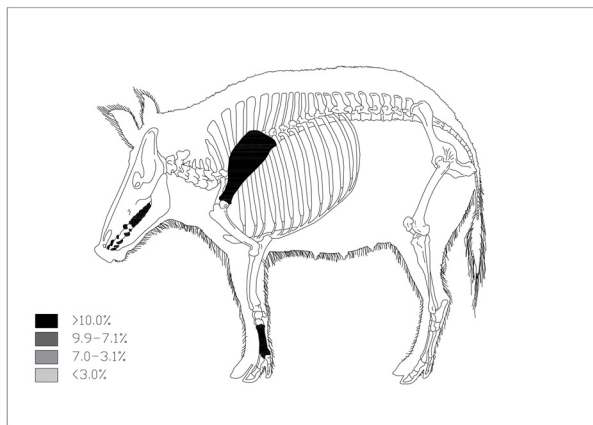


Fig. A.4.48a. Skeletal elements according to %NISP.

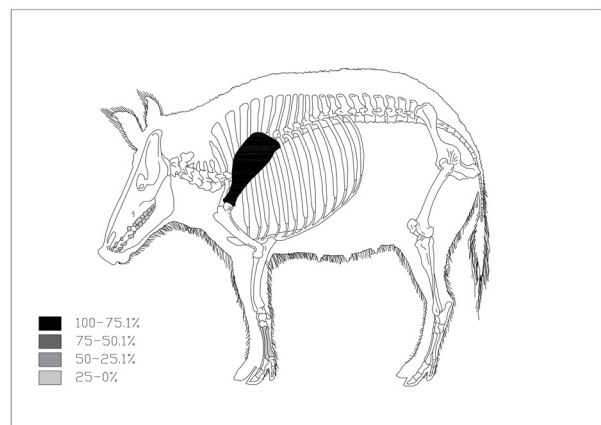


Fig. A.4.48. Skeletal elements according to %MAU.

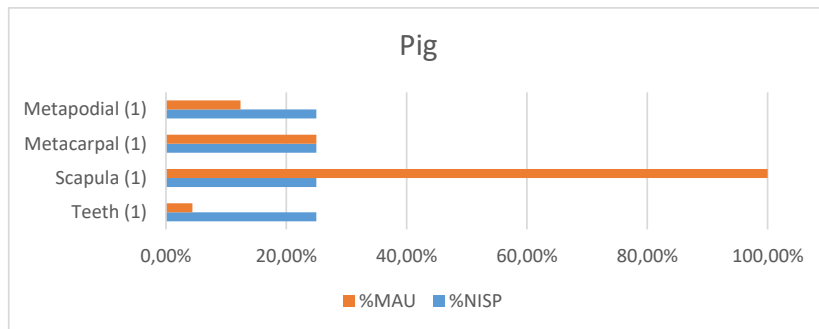


Fig. A.4.49. Skeletal elements according to %NISP and %MAU.

Meat Supply

High meat input elements from the fore quarter provide the highest proportion of meat contributions (table A.4.100, A.4.101).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Scapula	7.45	0.099	0.049	72.91
Total forelimb	7.45	0.099	0.049	72.91
Metacarpal	1.16	0.0154	0.007	10.41
Total forefoot	1.16	0.0154	0.007	10.41
Metapodia	1.47	0.0196	0.009	13.39
Total foot	1.47	0.0196	0.009	13.39
Total	10.08	0.134	0.067	100

Table A.4.100. Meat supply according to skeletal elements.

Meat value	Forelimb (g)	Forefoot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	1.16	1.47	2.63	0.035	0.017	25.29
High	7.45	-	-	7.45	0.099	0.049	72.91
Total	7.45	1.16	1.47	10.08	0.134	0.067	100

Table A.4.101. Meat quality distribution.

Sex and Age

It has not been possible to determine the age nor estimate withers' height in this sample due to a lack of the appropriate bones. A female individual was recorded on account of morphology of the canines.

A.4.1.6 Structure 8

A.4.1.6.a Structure 8: Level 8

Only a phalanx II from level 8 is identified as Aurochs (table A.4.102).

Specie	NISP	%	MNI	%MNI	Weight (g)	%	NISP/MNI
Aurochs	1	100	1	100	36.29	100	1
Total identified	1	100	1	100	36.29	100	1

Table A.4.102. Identified fragments from level 8.

Aurochs**Skeletal representation**

A second phalanx with combustion marks is documented (*table A.4.103*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	0.35
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	1	100	4.60	8	3.86	1.35	3.25
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	1	100	4.60	50	24.15	3.18	1.42
Total	1	100	4.60	207	100	4.60	0

Table A.4.103. Skeletal representation in cattle from level 8.

Skeletal Elements

Only a phalanx II was identified (*table A.4.60*).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Phalanx II	1	25	36.29	100	1	33.33	0.125	100	3	3	3	100
Total	1	100	36.29	100	1	100	-	-	-	-	-	-

Table A.4.104. Skeletal elements and rate of fragmentation.

Meat Supply

Combustion marks suggest a possible use as fuel (*table A.4.105, A.4.106*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Phalanx II	36.29	0.483	0.241	100
Total foot	36.29	0.483	0.241	100
Total	36.29	0.483	0.241	100

Table A.4.105. Meat supply according to skeletal elements.

Meat value	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	36.29	36.29	0.483	0.241	100
Total	36.29	36.29	0.483	0.241	100

Table A.4.106. Meat quality distribution.

Sex and Age

It has not been possible to determine age nor estimate withers' height in this sample due to a lack of the appropriate bones. The metrical data of the specimen appears in *table A.4.107*.

Skeletal element	GL	SD	Bp	Bd
Phalanx II	47.85	30.76	37.55	28.47

Table A.4.107. Measurements.

A.4.1.7 Structure 9

A.4.1.7.a Structure 9: Level 18

Six size 2 fragments from the appendicular skeleton are the only remains recovered in this level (*table A.4.108*).

	NISP	%	MNI	%	Weight (g)	%
Size 2	6	100	1	100	5.25	100

Table A.4.108. Faunal remains from level 37.

A.4.1.7.b Structure 9: Level 37

86 faunal remains and one human fragment have been recorded in level 37 (*table A.4.109*).

	NISP	%	Weight (g)	%
Identified	19	22.09	191.9	65.84
Unidentified	67	77.90	69.54	23.86
Total	86	100	291.44	100
Human	1	-	2.52	-

Table A.4.109. Faunal remains from level 37.

Identified Fragments

Domestic faunas dominate an assemblage where dog constitutes the main taxon and pig take second position followed by cattle (*table A.4.110*).

Specie	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Cattle	4	21.05	1	25	34.45	17.95	4
Pig	5	26.31	1	25	34.73	18.09	5
Dog	7	36.84	1	25	49.57	25.83	7
Total domestic	16	84.21	3	75	118.75	61.88	5.33
Aurochs	3	15.78	1	25	73.15	38.11	3
Total wild	3	15.78	1	25	73.15	38.11	3
Total	19	100	4	100	191.9	100	4.75
Human	1	-	1	-	2.52	-	-

Table A.4.110. Results of the zooarchaeological analysis from level 37 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Most size 3 and size 2 fragments correspond to elements from the appendicular skeleton followed by cranial fragments (*table A.4.111*). These contrast with the low proportion of axial elements.

Size	NISP	%	Weight (g)	%
Size 3	4	5.97	24.13	34.69
Size 2	62	92.53	45.16	64.94
Unidentified	1	1.49	0.25	0.35
Total	67	100	69.54	100

Table A.4.111. Unidentified fragments from level 37.

Cattle

Skeletal Representation

There is an over-representation of forelimb and hindlimb elements in relation to a standard skeleton (*table A.4.112, fig. A.4.50*). Remaining anatomical parts are under-represented.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	0.35
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	1	100	4.60	8	3.86	1.35	3.25
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	1	100	4.60	50	24.15	3.18	1.42
Total	1	100	4.60	207	100	4.60	0

Table A.4.112. Skeletal representation in cattle from level 37.

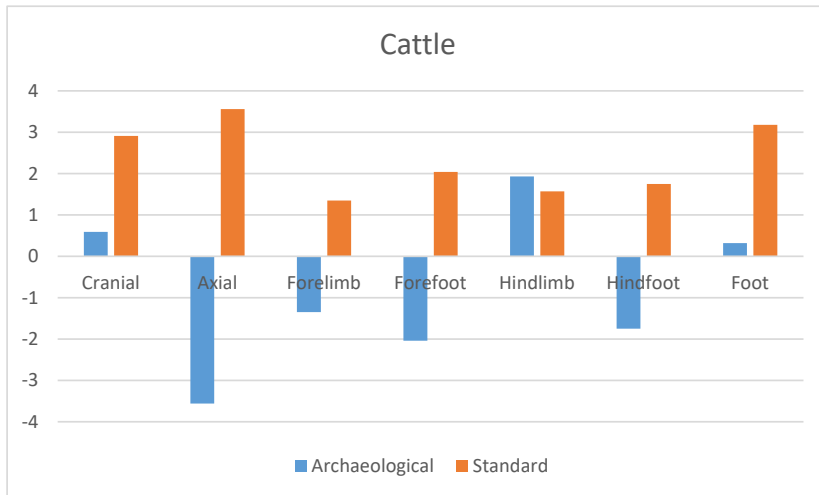


Fig. A.4.50. Skeletal representation in cattle.

Skeletal Elements

Cattle is represented by four fragments. Based on %MAU, skull and tibia are best represented (table A.4.113, fig. A. 4.51a, A.4.51b, A.4.52). According to the percentage completeness, tibia and metapodia exhibit a higher rate of fragmentation than the remaining elements.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	1	25	4.23	12.27	1	25	1	100	-	-	-	-
Tibia	1	25	18.41	53.43	1	25	0.5	50	10	1	1	10
Metapodia	1	25	2.47	7.16	1	25	0.25	25	8	1	1	12.5
Phalanx III	1	25	9.34	27.11	1	25	0.125	12.5	2	2	2	100
Total	4	100	34.45	100	4	100	-	-	-	-	-	-

Table A.4.113. Skeletal elements and rate of fragmentation.

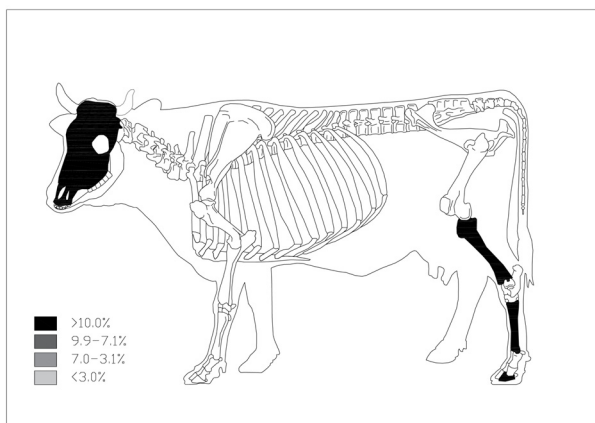


Fig. A.4.51a. Skeletal elements according to %NISP.

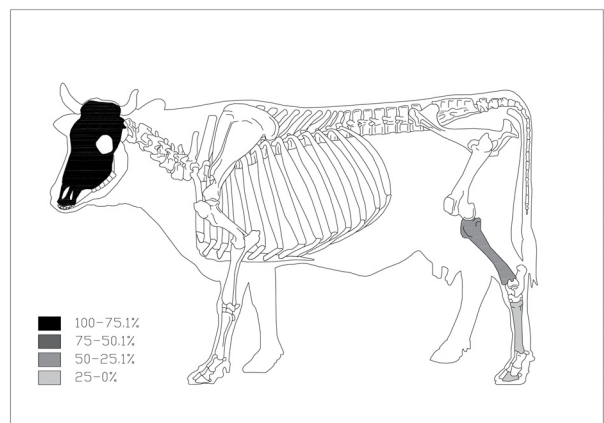


Fig. A.4.51b. Skeletal elements according to %MAU.

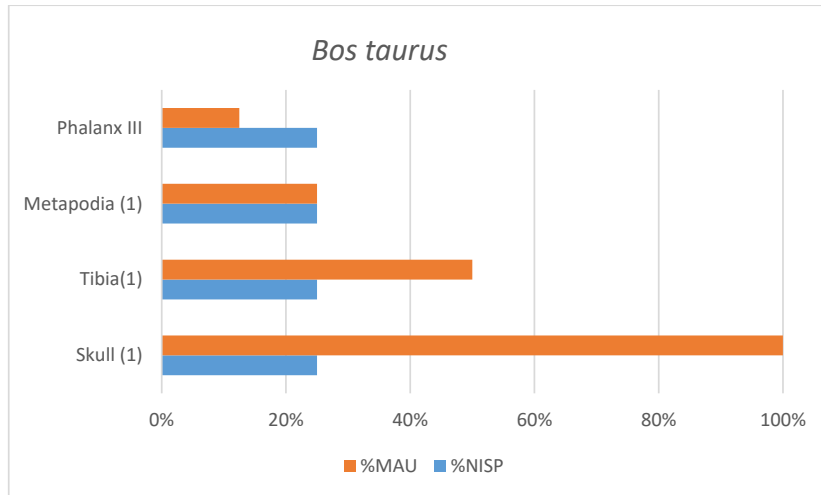


Fig. A.4.52. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements coming from hindlimb, in particular the tibia, provide the highest meat contributions followed by skull, a medium-input element (table A.4.114, A.4.115).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	4.23	0.056	0.028	12.22
Total cranial	4.23	0.056	0.028	12.22
Tibia	18.41	0.245	0.122	53.27
Total hindlimb	18.41	0.245	0.122	53.27
Metapodia	2.47	0.032	0.016	6.98
Phalanx III	9.34	0.124	0.062	27.07
Total foot	11.81	0.157	0.078	34.06
Total	34.45	0.459	0.229	100

Table A.4.114. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Hindlimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	11.81	11.81	0.157	0.078	34.06
Medium	-	18.41	-	18.41	0.245	0.122	53.27
High	4.23	-	-	4.23	0.056	0.028	12.22
Total	4.23	18.41	11.81	34.45	0.459	0.229	100

Table A.4.115. Meat quality distribution.

Sex and Age

It has not been possible to estimate the sex and age of the identified individual nor its height at the withers due to the lack of complete bones (table A.4.116).

Skeletal element	Ld	DLS
Phalanx III	48.86	67.74

Table A.4.116. Measurements.

Pig**Skeletal Representation**

The skeletal profile reveals an over-representation of forelimb and hindlimb elements. All remaining portions are under-represented in relation to a standard skeleton (*table A.4.117, fig. A.4.53*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	-	-	-	2	0.68	-0.37	0.37
Teeth	1	20	2.99	44	15.17	2.71	0.28
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	1	20	2.99	48	16.55	2.80	0.19
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.96
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	1	20	2.99	2	0.68	-0.37	3.36
Humerus	-	-	-	2	0.68	-0.37	0.37
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	1	20	2.99	8	2.75	1.01	1.98
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	-	-	-	8	2.75	1.01	-1.01
Total forefoot	-	-	-	24	8.27	2.11	-2.11
Pelvis	1	20	2.99	2	0.68	-0.37	3.36
Femur	1	20	2.99	2	0.68	-0.37	3.36
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	2	40	3.68	10	3.44	1.23	2.45
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	-2.19
Phalanx I	1	20	2.99	16	5.51	1.70	1.29
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	1	20	2.99	88	30.34	3.41	-0.42
Total	5	100	4.60	290	100	4.60	0

Table A.4.117. Skeletal representation in pigs from level 37.

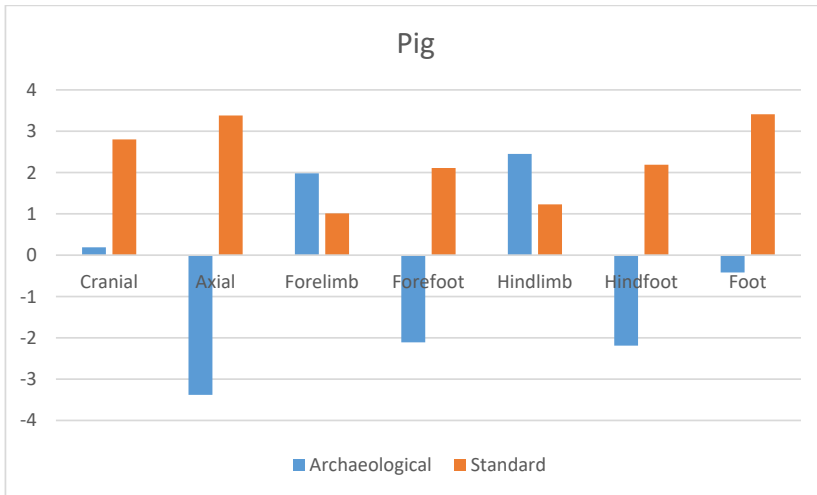


Fig. A.4.53. Skeletal representation in pigs.

Skeletal Elements

Based on %MAU, all elements are represented by 100% except the first phalanx with a mere 12% (table A.4.118, fig. A.4.54a, A.4.54b, A.4.55). According to the percentage of completeness, scapula exhibits a higher rate of fragmentation with respect to the remaining anatomical elements.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Tooth	1	20	3.88	3.88	1	20	0.022	4.4		1		
Scapula	1	20	1.97	1.97	1	20	0.5	100	9	1	1	11.11
Pelvis	1	20	16.1	16.1	1	20	0.5	100	12	3	3	25
Femur	1	20	12.31	12.31	1	20	0.5	100	11	3	3	27.27
Phalanx I	1	20	0.47	0.47	1	20	0.062	12.4	3	2	2	66.66
Total	5	100	34.73	100	6	100						

Table A.4.118. Skeletal elements and rate of fragmentation.

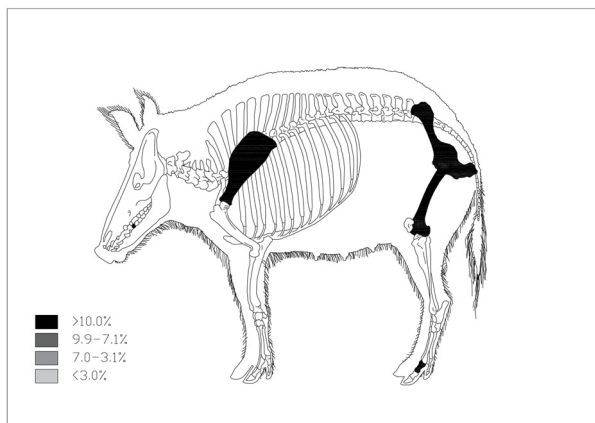


Fig. A.4.54a. Skeletal elements according to %NISP.

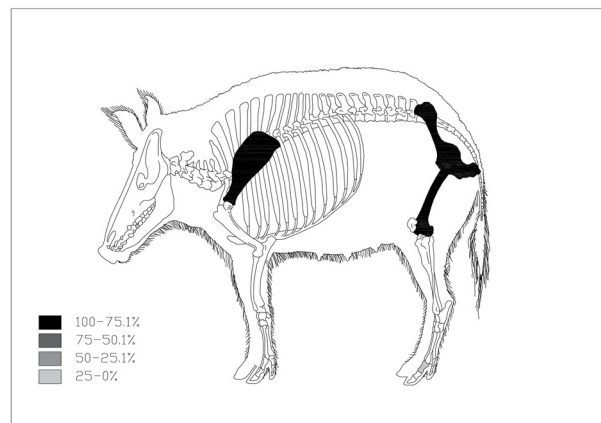


Fig. A.4.54b. Skeletal elements according to %MAU.

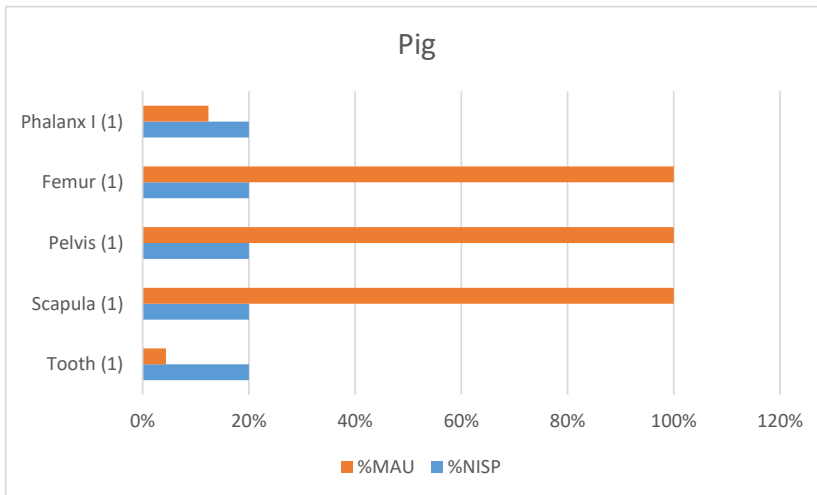


Fig. A.4.55. Skeletal elements according to %NISP and %MAU.

Meat Supply

Hindlimb skeleton provided the highest proportion of meat but if the number of appendicular elements identified in the size 2 category is considered, the fore quarters and hind quarters would be even under-represented respect to other anatomical regions (*table A.4.119, A.4.120*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Scapula	1.97	0.026	0.013	5.62
Total forelimb	1.97	0.026	0.013	5.62
Pelvis	16.1	0.214	0.107	46.32
Femur	12.31	0.164	0.082	35.49
Total hindlimb	28.41	0.378	0.189	81.81
Phalanx I	0.47	0.006	0.003	1.29
Total foot	0.47	0.006	0.003	1.29
Total	30.85	0.463	0.231	100

Table A.4.119. Meat supply according to skeletal elements.

Meat value	Forelimb (g)	Hindlimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	0.47	0.47	0.006	0.003	1.46
High	1.97	28.41		30.38	0.405	0.202	98.53
Total	1.97	28.41	0.47	30.85	0.411	0.205	100

Table A.4.120. Meat quality distribution.

Sex and Age

Epiphyseal fusion reveals a juvenile below 24 months. It has not been possible to determine the sex nor estimate withers' height in this sample due to a lack of the appropriate bones.

A.4.1.7.c Structure 9: Level 54

34 faunal remains have been recorded. Taking into account that most were assigned to indeterminate categories, the proportion of unidentified remains is high. The level of conservation is quite poor, evidencing a high degree of fragmentation (*table A.4.121*).

	NISP	%	Weight	%
Identified	10	29.41	141.11	78.06
Unidentified	24	70.58	39.64	21.93
Total	34	100	180.75	100

Table A.4.121. Faunal remains from level 54.

Identified Fragments

Domestic faunas dominate an assemblage where cattle constitute the main taxon and caprines take second position followed by dog (*table A.4.122*).

Specie	NISP	%	MNI	%	Weight	%	NISP/MNI
Cattle	3	30	1	25	77.72	55.07	3
Caprine	2	20	1	25	9.11	6.45	2
Pig	3	30	1	25	28.88	20.46	3
Total domestic	8	80	3	75	115.71	81.99	2.66
Red deer	2	20	1	25	25.4	1.80	2
Total wild	2	20	1	25	25.4	1.80	2
Total	10	100	4	100	141.11	100	2.5

Table A.4.122. Results of the zooarchaeological analysis from level 54 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

There is a predominance of size 2 fragments from the axial and appendicular skeleton and a low proportion of cranial elements (*table A.4.123*).

Size	NISP	%	Weight	%
Size 2	7	29.16	15.45	38.97
Unidentified	17	70.83	24.19	61.02
Total	24	100	39.64	100

Table A.4.123. Unidentified fragments from level 54.

Cattle

Skeletal Representation

There is an over-representation of forelimbs (scapula and ulna) with respect to the standard skeleton. The remaining anatomical portions are under-represented (*table A.4.124, fig. A.4.56*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	1	33.33	3.50	2	0.96	-0.03	3.53
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	1	33.33	3.50	2	0.96	-0.03	3.53
Total forelimb	2	66.66	4.19	8	3.86	1.35	2.84
Carpal	1	33.33	3.50	12	5.79	1.75	1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	1	33.33	3.50	16	7.72	2.04	1.46
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	3	100	4.60	207	100	4.60	0

Table A.4.124. Skeletal representation in cattle from level 54.

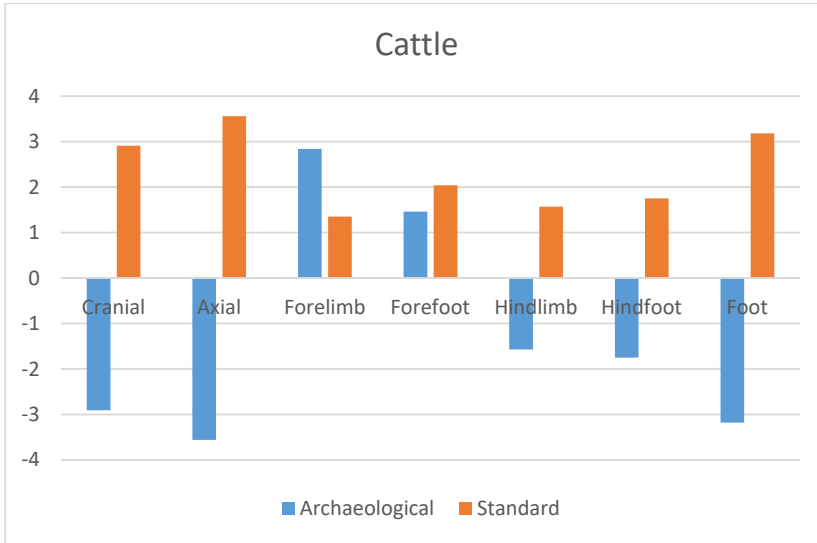


Fig. A.4.56. Skeletal representation in cattle.

Skeletal Elements

According to the percentage completeness, the scapula exhibits a high rate of fragmentation (table A.4.125, fig. A.4.57a, A.4.57b, A.4.58).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Scapula	1	33.33	23.68	30.46	1	33.33	0.5	100	9	2	2	22.22
Ulna	1	33.33	38.17	49.11	1	33.33	0.5	100	9	3	3	33.33
Carpal	1	33.33	15.87	20.41	1	33.33	0.5	100	1	1	1	100
Total	1	100	77.72	100	3	100						

Table A.4.125. Skeletal elements and rate of fragmentation.

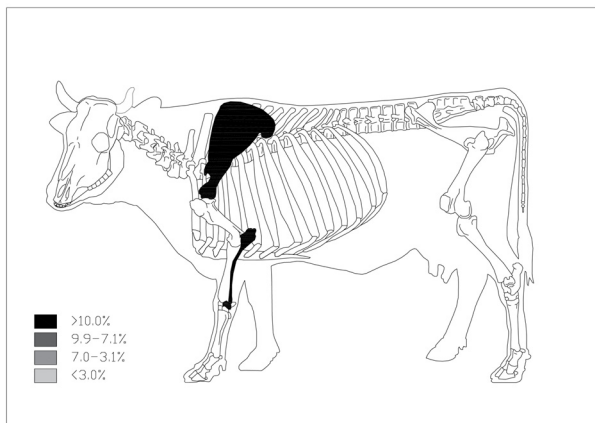


Fig. A.4.57a. Skeletal elements according to %NISP.

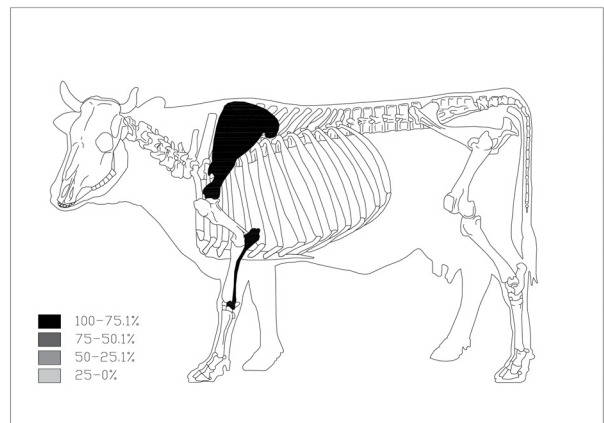


Fig. A.4.57b. Skeletal elements according to %MAU.

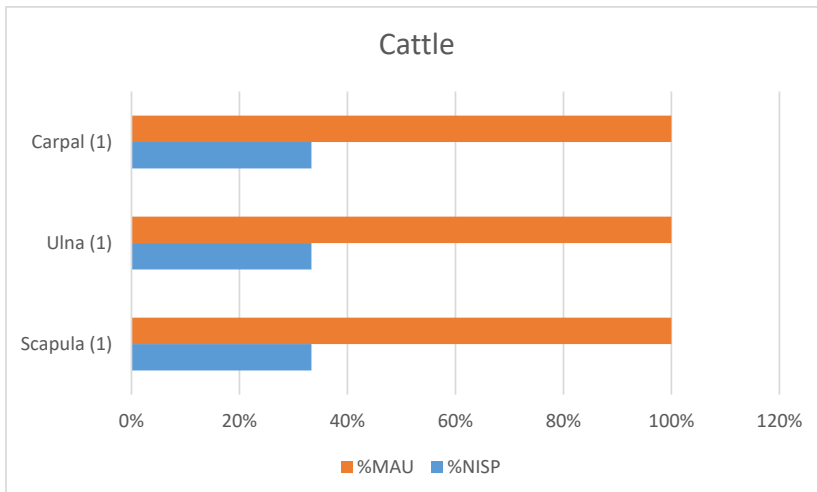


Fig. A.4.58. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements coming from forelimb skeleton, mainly those with high and medium contribution value, provided the highest proportion of meat (*table A.4.126*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Scapula	23.68	0.315	0.157	30.30
Ulna	38.17	0.508	0.254	49.03
Carpal	15.87	0.211	0.105	20.27
Total	77.72	1.036	0.518	100

Table A.4.126. Meat supply according to skeletal elements.

Sex and Age

Due to the limitations of the sample, it has not been possible to determine age or sex. Lack of complete bones hindered the estimation of height at the withers.

Caprines

Skeletal Representation

Skeletal spectra reveal an over-representation of forelimb with respect to the standard skeleton. The remaining anatomical portions are under-represented (*table A.4.127, fig. A.4.59*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	-	-	-	32	15.68	2.75	-2.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	-	-	-	38	18.62	2.92	-2.92
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	-	-	-	2	0.98	-0.01	0.01
Humerus	-	-	-	2	0.98	-0.01	0.01
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	-	-	-	8	3.92	1.36	-1.36
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	1	50	3.91	2	0.98	-0.01	3.92
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	1	50	3.91	10	4.90	1.58	2.33
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	1	50	3.91	2	0.98	-0.01	3.92
Total hindfoot	1	50	3.91	12	5.88	1.77	2.14
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	2	100	4.60	204	100	4.60	0

Table A.4.127. Skeletal representation in caprines from level 54.

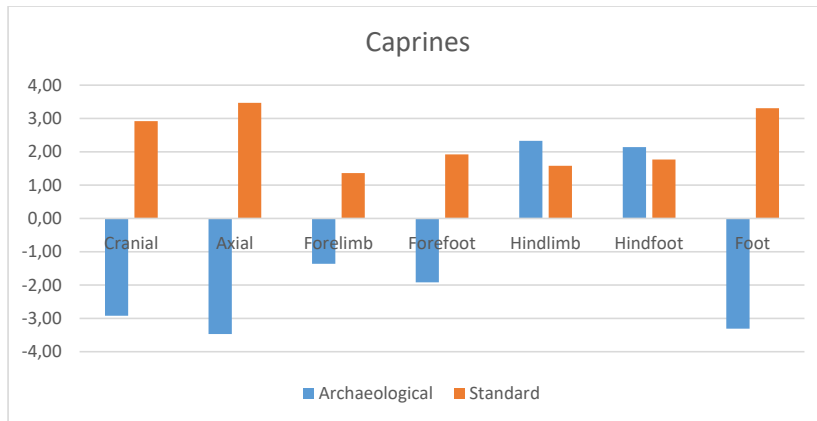


Fig. A.4.59. Skeletal representation in caprines.

Skeletal Elements

Only a left pelvis and a left metatarsal were identified. According to the percentage of completeness, the pelvis exhibits a higher rate of fragmentation than the metatarsal (table A.4.128, fig. A.4.60a, A.4.60b, A.4.61).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Pelvis	1	50	3.72	40.83	1	50	0.5	100	12	3	3	25
Metatarsal	1	50	5.39	59.16	1	50	0.5	100	8	4	4	50
Total	2	100	9.11	100	2	100						

Table A.4.128. Skeletal elements and rate of fragmentation.

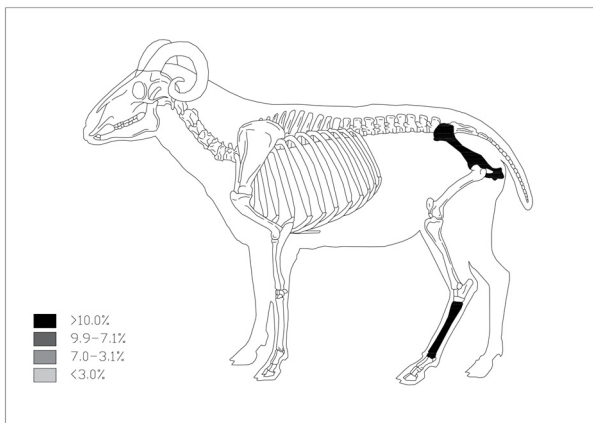


Fig. A.4.60a. Skeletal elements according to %NISP.

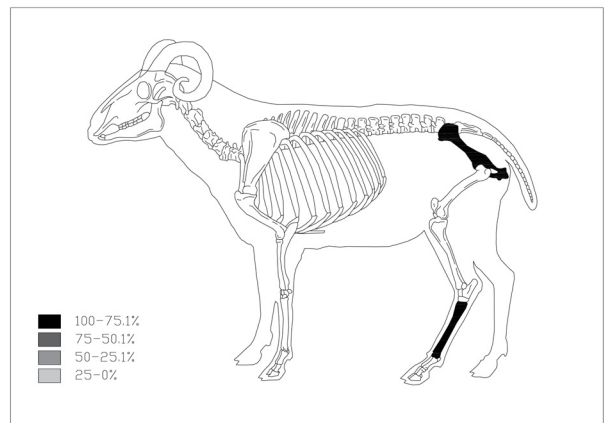


Fig. A.4.60b. Skeletal elements according to %MAU.

Meat Supply

Pelvis is the element with the greatest meat contribution since the contribution of the metapods is null (*table A.4.129*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Pelvis	3.72	0.049	0.024	40
Metatarsal	5.39	0.071	0.035	60
Total	9.11	0.121	0.060	100

Table A.4.129. Meat supply according to skeletal elements (teeth not included).

Sex and Age

It has not been possible to estimate the sex, age and the withers' height of this individual (*table A.4.130*).

Element	Bd
Metatarsal	19.8

Table A.4.130. Measurements.

Pig**Skeletal Representation**

All anatomical parts are under-represented with respect to a standard skeleton, but the best represented correspond to the fore foot and hind foot (*table A.4.131, fig. A.4.61*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	-	-	-	2	0.68	-0.37	0.37
Teeth	-	-	-	44	15.17	2.71	-2.71
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	-	-	-	48	16.55	2.80	-2.80
Vertebrae	1	33.33	3.50	56	19.31	2.96	0.54
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	1	33.33	3.50	86	29.65	3.38	0.12
Scapula	-	-	-	2	0.68	-0.37	0.37
Humerus	-	-	-	2	0.68	-0.37	0.37
Radio	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	-	-	-	8	2.75	1.01	-1.01
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	1	33.33	3.50	8	2.75	1.01	2.49
Total forefoot	1	33.33	3.50	24	8.27	2.11	1.39
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	-	-	-	10	3.44	1.23	-1.23
Calcaneus	1	33.33	3.50	2	0.68	-0.37	3.87
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	1	33.33	3.50	26	8.96	2.19	1.31
Phalanx I	-	-	-	16	5.51	1.70	-1.70
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	-	-	-	88	30.34	3.41	-3.41
Total	2	100	4.60	290	100	4.60	0

Table A.4.131. Skeletal representation in pigs from level 54.

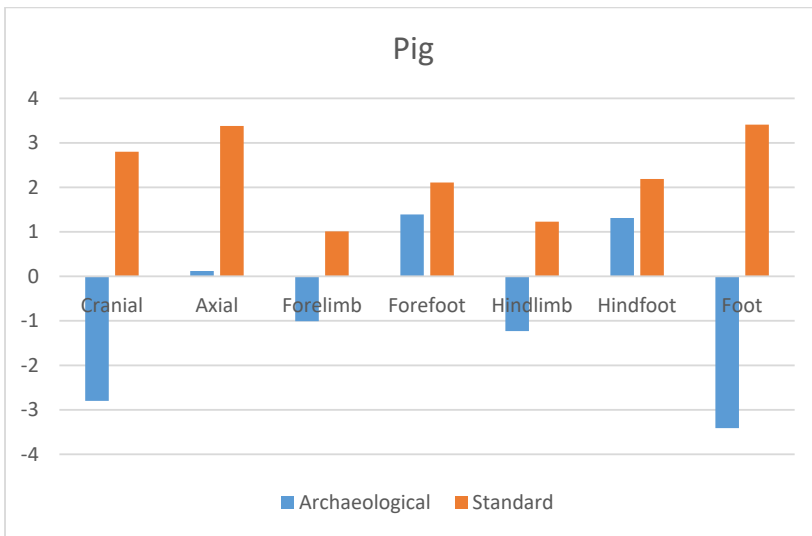


Fig. A.4.61. Skeletal representation in pigs.

Skeletal Elements

Three fragments of pig could be identified. These correspond to an atlas, a right calcaneus and a right 4th metacarpal. According to the percentage completeness, both elements exhibit a high rate of fragmentation (table A.4.132, fig. A.4.62a, A.4.62b).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Atlas	1	33.33	18.38	63.64	1	33.33	1	100	1	1	1	100
IV metacarpal	1	33.33	2.47	8.55	1	33.33	0.125	12.5	3	2	2	66.66
Calcaneus	1	33.33	8.03	27.80	1	33.33	0.5	50	5	5	5	100
Total	2	100	28.88	100	2	100						

Table A.4.132. Skeletal elements and rate of fragmentation.

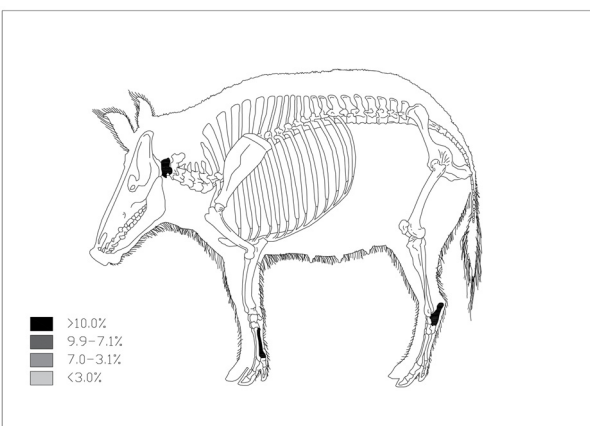


Fig. A.4.62a. Skeletal elements according to %NISP.

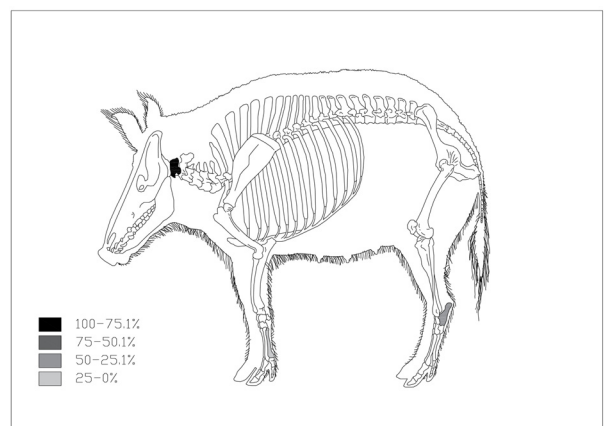


Fig. A.4.62b. Skeletal elements according to %MAU.

Meat Supply

The contributions come mainly from the axial skeleton. All represent high (atlas) and low-input elements (*table A.4.133*).

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Atlas	18.38	0.245	0.122	63.54
Total axial	18.38	0.245	0.122	63.54
Metacarpal	2.47	0.032	0.016	8.33
Total forefoot	2.47	0.032	0.016	8.33
Calcaneus	8.03	0.107	0.053	27.60
Total hindfoot	8.03	0.107	0.053	27.60
Total	28.88	0.385	0.192	100

Table A.4.133. Meat supply according to skeletal elements (teeth not included).

Sex and Age

Epiphyseal fusion data reveal one subadult individual slaughtered when below 24 months. It has not been possible to establish the sex due to the lack of the pertinent anatomical elements. Likewise, it was not possible to estimate mean height at the withers due to the lack of complete bones (*table A.4.134*).

Element	H
Atlas	46.45

Table A.4.134. Measurements.

A.4.1.7.d Structure 9: Level 57/64

35 faunal remains comprise this collection. The level of conservation of the faunal assemblage is poor featuring a high degree of fragmentation (*table A.4.135*).

	NISP	%	Weight (g)	%
Identified	17	48.57	200.3	79.41
Unidentified	18	51.42	51.91	20.58
Total	35	100	252.21	100

Table A.4.135. Faunal remains from level 57/64.

Identified Fragments

Domestic faunas dominate an assemblage where pig constitutes the main taxon. Caprines and dogs take second position followed by cattle (*table A.4.136*).

Specie	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Cattle	1	5.88	1	20	49.7	24.15	1
Caprine	4	23.52	1	20	17.91	8.70	4
Pig	7	41.17	1	20	119.67	58.15	7
Dog	4	23.52	1	20	17.43	8.47	4
Total domestic	16	94.11	4	80	204.71	99.48	3.75
Lagomorpha	1	5.88	1	20	1.05	0.51	1
Total wild	1	5.88	1	20	1.05	0.51	1
Total	17	100	5	100	205.76	100	3.2

Table A.4.136. Results of the zooarchaeological analysis from level 57/64 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Fragments identified as size 3 correspond to elements of the appendicular and axial skeleton (*table A.4.137*). In the case of size 2 fragments, there is a predominance of fragments from the axial skeleton and a low proportion of cranial and appendicular elements.

Size	NISP	%	Weight (g)	%
Size 3	5	27.77	44.46	84.02
Size 2	12	66.66	7.1	13.41
Unidentified	1	5.55	0.35	0.66
Total	18	100	52.91	100

Table A.4.137. Unidentified fragments from level 57/64.

Cattle

Skeletal Representation

The skeletal profile reveals that all anatomical portions are under-represented when compared to standard cattle. The fore foot is the best represented portion. Fragments from the cranial and axial skeleton, hindlimb, hind foot and foot (indeterminate) are not documented (*table A.4.138, fig. A.4.63*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Craneal	-	-	-	1	0.48	-0.72	-0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	1	100	4.60	4	1.93	0.65	3.95
Total forefoot	1	100	4.60	16	7.72	2.04	2.56
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	1	100	4.60	207	100	4.60	0

Table A.4.138. Skeletal representation in cattle from level 57/64.

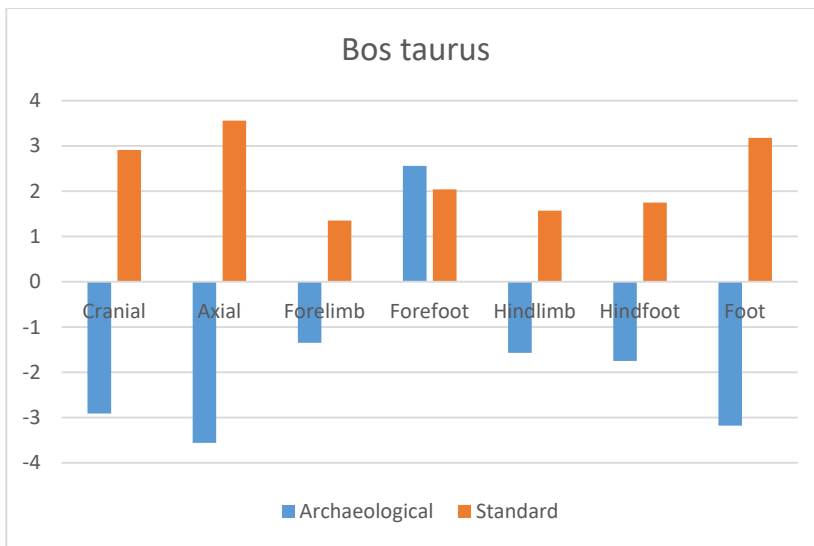


Fig. A.4.63. Skeletal representation in cattle.

Skeletal Elements

The over-representation of the metacarpal with respect to the standard skeleton contrasts with the absence of other skeletal elements (table A.4.139, fig. A.4.64 a, A.4.64b).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Metacarpal	1	100	49.7	30.02	1	100	0.5	100	8	4	4	50
Total	1	100	49.7	100	1	100						

Table A.4.139. Skeletal elements and rate of fragmentation.

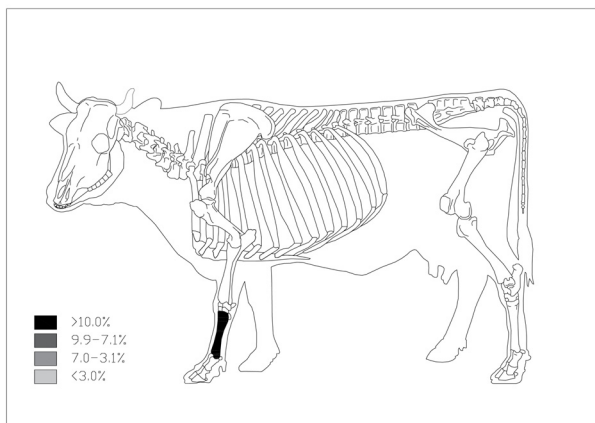


Fig. A.4.64a. Skeletal elements according to %NISP.

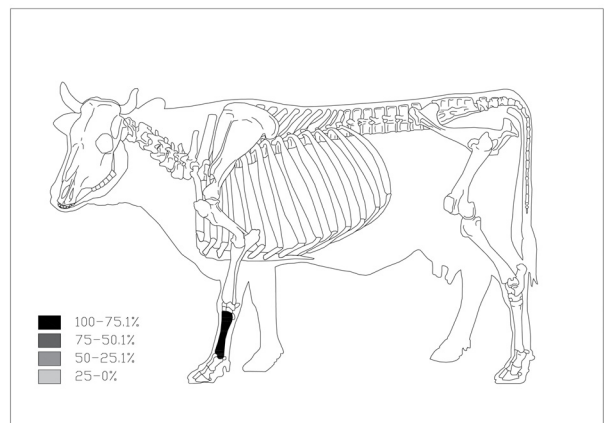


Fig. A.4.64b. Skeletal elements according to %MAU.

Meat Supply

Forelimb and hindlimb elements yield the highest proportion of meat, taking into account that meat contribution from the foot is almost nil and many appendicular fragments were included as size 3, these elements may be under-represented in the cattle sample (*table A.4.140*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Metacarpus	49.7	0.662	0.331	100

Table A.4.140. Meat supply according to skeletal elements.

Sex and Age

It has not been possible to determine the age nor estimate withers' height in this sample due to a lack of the appropriate bones (*table A.4.141*).

Element	Bp	Dp
Metacarpus	51.19	30.28

Table A.4.141. Measurements.

Caprines

Skeletal Representation

The skeletal profile reveals the hindlimb to be over-represented when compared with a standard skeleton (*table A.4.142, fig. A.4.65*). Cranial and hind foot elements are under-represented. Fragments from the axial, forelimb, fore foot and indeterminate foot elements are not documented.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	1	0.49	-0.71	0.71
Skull	-	-	-	2	0.98	-0.01	0.01
Mandible	2	50	3.91	2	0.98	-0.01	3.92
Teeth	-	-	-	32	15.68	2.75	-2.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	2	50	3.91	38	18.62	2.92	0.99
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	-	-	-	2	0.98	-0.01	0.01
Humerus	-	-	-	2	0.98	-0.01	0.01
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	-	-	-	8	3.92	1.36	-1.36
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	1	25	3.21	2	0.98	-0.01	3.22
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	1	25	3.21	2	0.98	-0.01	3.22
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	2	50	3.91	10	4.90	1.58	2.33
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	4	100	4.60	204	100	4.60	0

Table A.4.142. Skeletal representation in caprines from level 57/64.

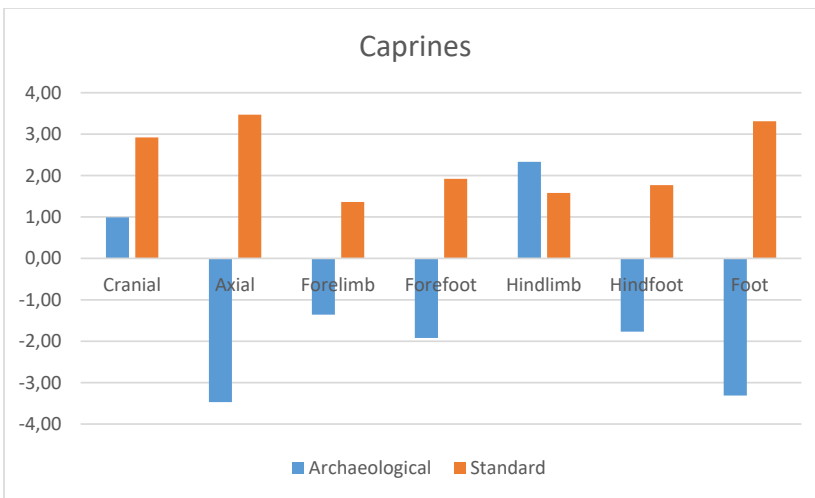


Fig. A.4.65. Skeletal representation in caprines.

Skeletal Elements

Based on the %MAU, the mandibles are the best represented categories followed by the tibia and pelvis. All elements present a high rate of fragmentation, the pelvis leading with the highest values (table A.4.143, fig. A.4.66a, A.4.66b, A.4.67).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Mandible	2	50	4.71	26.29	2	50	1	100	7	3	1.5	21.42
Pelvis	1	25	1.69	9.55	1	25	0.5	50	12	1	1	8.33
Tibia	1	25	11.51	64.26	1	25	0.5	50	10	1	1	10
Total	4	100	17.91	100	4	100						

Table A.4.143. Skeletal elements and rate of fragmentation.

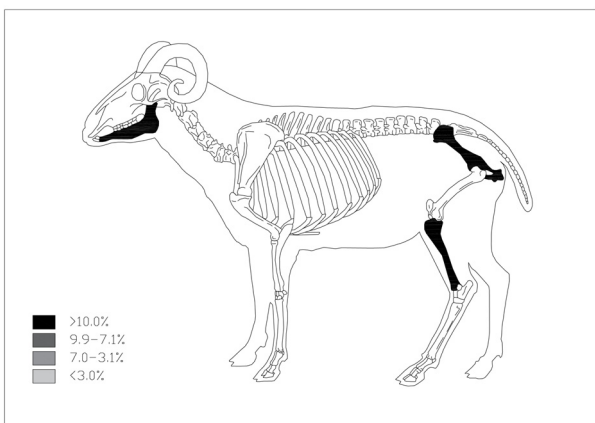


Fig. A.4.66a. Skeletal elements according to %NISP.

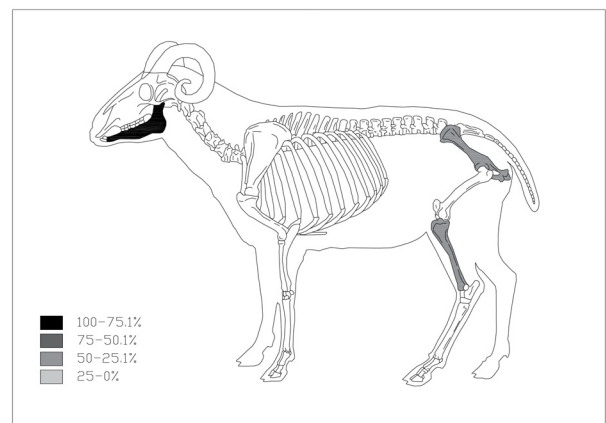


Fig. A.4.66b. Skeletal elements according to %MAU.

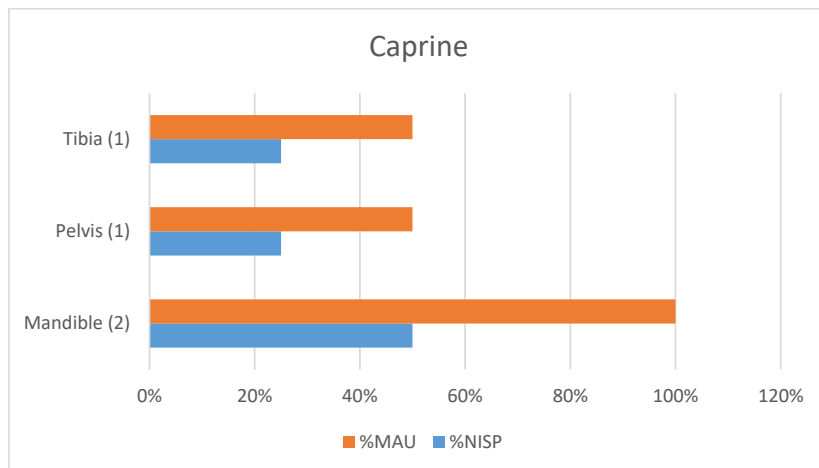


Fig. A.4.67. Skeletal elements according to %NISP and %MAU.

Meat Supply

Hindlimb elements contribute the highest proportion of meat. Due to fragmentation, many splinters from the appendicular skeleton are recorded as size 2 so these should be under-represented as well as axial elements (table A.4.144, A.4.145). Medium yield elements predominate.

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	4.71	0.062	0.031	17.22
Total cranial	4.71	0.062	0.031	17.22
Pelvis	1.69	0.022	0.011	6.11
Tibia	11.51	0.153	0.076	42.22
Total hindlimb	13.2	0.176	0.088	48.88
Total	27.02	0.360	0.180	100

Table A.4.144. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Hindlimb (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Medium	4.71	11.51	16.22	0.216	0.108	60
High	-	1.69	1.69	0.022	0.011	40
Total	4.71	13.2	27.02	0.360	0.180	100

Table A.4.145. Meat quality distribution.

Sex and Age

It has not been possible to determine the age nor sex this sample due to a lack of the appropriate bones.

Pig**Skeletal Representation**

The skeletal profile reveals the forelimb and hindlimb to be over-represented when compared with a standard skeleton (*table A.4.146, fig. A.4.68*). All remaining categories are under-represented. Fore foot elements fall behind those from the hind foot and these are followed by those from the axial and cranial skeleton. Indeterminate foot elements are not documented.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	-	-	-	2	0.68	-0.37	0.37
Teeth	1	14.28	2.65	44	15.17	2.71	-0.06
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	1	14.28	2.65	48	16.55	2.80	-0.15
Vertebrae	1	14.28	2.65	56	19.31	2.96	-0.31
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	1	14.28	2.65	86	29.65	3.38	-0.73
Scapula	-	-	-	2	0.68	-0.37	0.37
Humerus	1	14.28	2.65	2	0.68	-0.37	3.02
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	1	14.28	2.65	2	0.68	-0.37	3.02
Total forelimb	2	28.57	3.35	8	2.75	1.01	2.34
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	1	14.28	2.65	8	2.75	1.01	1.64
Total forefoot	1	14.28	2.65	24	8.27	2.11	0.54
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	1	14.28	2.65	2	0.68	-0.37	2.67
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	1	14.28	2.65	2	0.68	-0.37	3.02
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	2	28.57	3.35	10	3.44	1.23	2.12
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	-2.19
Phalanx I	-	-	-	16	5.51	1.70	-1.70
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	-	-	-	88	30.34	3.41	-3.41
Total	7	100	4.60	290	100	4.60	0

Table A.4.146. Skeletal representation in pigs from level 57/64.

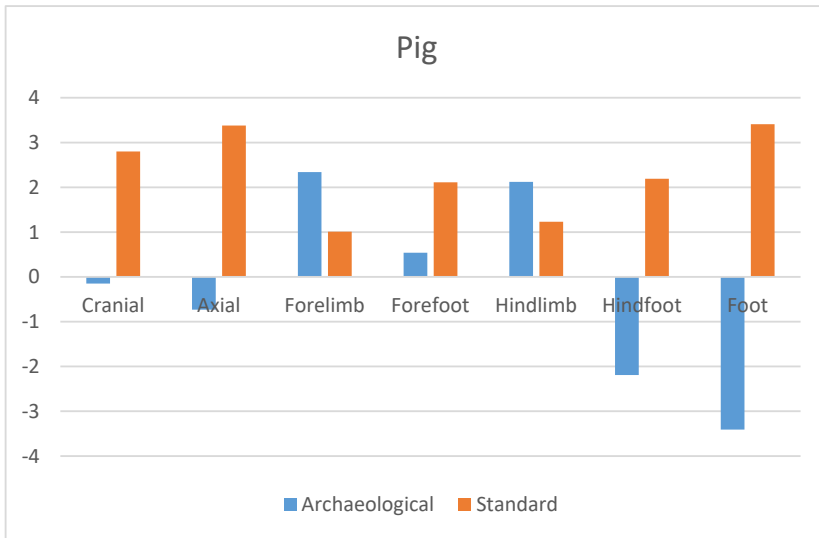


Fig. A.4.68. Skeletal representation in pigs.

Skeletal Elements

Based on the %MAU, elements from the forelimb and hindlimb are the ones best represented followed by those from the fore foot. Teeth and vertebrae have minimal representation (table A.4.147, fig. A.4.69a, A.4.69b, A.4.70). Tibia, femur and ulna exhibit the highest fragmentation rate when compared with the remaining anatomical categories.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Teeth	1	14.28	5.46	4.56	1	14.28	0.02	4				
Vertebrae	1	14.28	12.6	1.05	1	14.28	0.03	6	2	2	1	50
Humerus	1	14.28	33.77	28.21	1	14.28	0.5	100	11	4	4	36.36
Ulna	1	14.28	9.8	8.18	1	14.28	0.5	100	9	1	1	11.11
Metacarpal II	1	14.28	1.23	1.02	1	14.28	0.25	50	3	2	2	66.66
Femur	1	14.28	22.55	18.84	1	14.28	0.5	100	11	2	2	18.18
Tibia	1	14.28	34.26	28.62	1	14.28	0.5	100	10	1	1	10
Total	4	100	17.91	100	4	100						

Table A.4.147. Skeletal elements and rate of fragmentation.

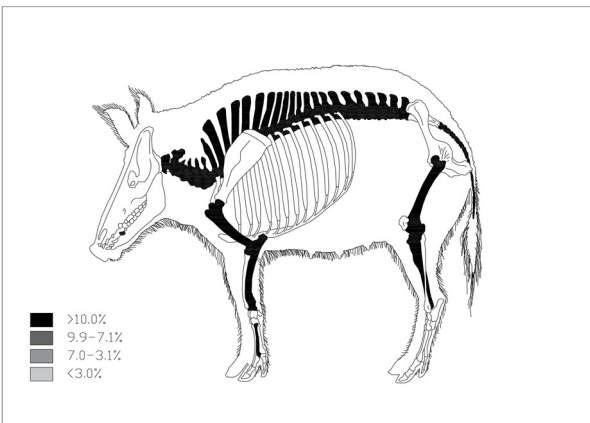


Fig. A.4.69a. Skeletal elements according to %NISP.

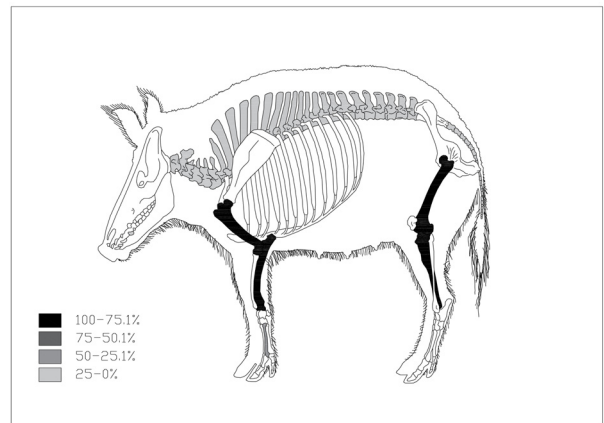


Fig. A.4.69b. Skeletal elements according to %MAU.

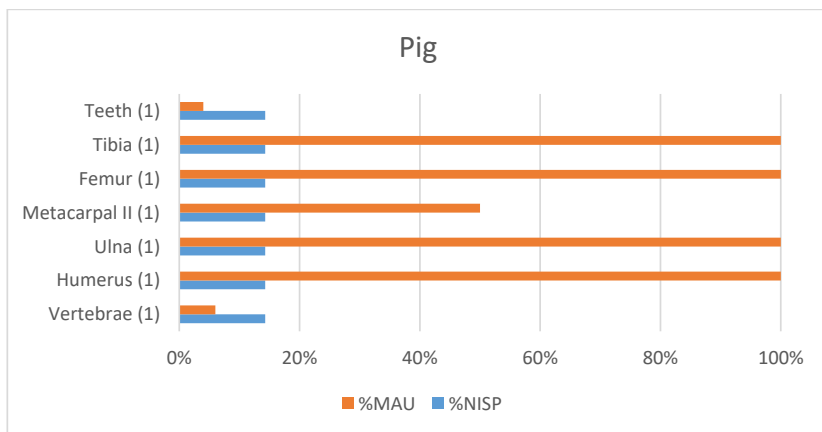


Fig. A.4.70. Skeletal elements according to %NISP and %MAU.

Meat Supply

Skeletal elements deriving from the hindlimb provide the greatest meat contributions followed by forelimb and axial elements. High contribution elements predominate (table A.4.148, A.4.149, fig. A.4.71).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Vertebrae	12.6	0.168	0.084	11.09
Total axial	12.6	0.168	0.084	11.09
Humerus	33.77	0.450	0.225	29.72
Ulna	9.8	0.130	0.065	8.58
Total forelimb	43.57	0.580	0.290	38.30
Metacarpal II	1.23	0.016	0.008	1.05
Total forefoot	1.23	0.016	0.008	1.05
Femur	22.55	0.300	0.150	19.81
Tibia	34.26	0.456	0.228	30.11
Total hindlimb	56.81	0.757	0.378	49.93
Total	113.66	1.515	0.757	100

Table A.4.148. Meat supply according to skeletal elements (teeth not included).

Meat value	Axial (g)	Forelimb (g)	Forefoot (g)	Hindlimb (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	1.23	-	1.23	0.016	0.008	1.05
Medium	-	9.8	-	34.26	44.06	0.587	0.293	38.70
High	12.6	33.77	-	22.55	68.92	0.918	0.459	60.63
Total	12.6	43.57	1.23	56.81	113.66	1.515	0.757	100

Table A.4.149. Meat quality distribution.

Sex and Age

The epiphyseal fusion data indicate the presence of an infant/juvenile below twelve months. According to dental morphology, one male was identified. It has not been possible to estimate withers' height in this sample due to a lack of the appropriate bones (table A.4.150).

Element	SD
Humerus	16.1

Table A.4.150. Measurements.

A.4.1.7.e Structure 9: Level 69

No faunal remains have been recorded on this level.

A.4.1.8 Structure 11**A.4.1.8.a Structure 11: Level 40**

Ten fragments were retrieved in this level. Taking into account that most were assigned to indeterminate categories the proportion of unidentified remains is high (*table A.4.151*). The level of conservation of the faunal assemblage is poor, evidencing a high degree of fragmentation and crust adhering to the surfaces of many bones.

	NISP	%	Weight (g)	%
Identified	3	30	51.14	58.01
Unidentified	7	70	37.01	41.98
Total	10	100	88.15	100

Table A.4.151. Faunal remains from level 40.

Identified Fragments

Only three caprine bones have been identified (*table A.4.152*).

Specie	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Caprine	3	100	1	100	51.14	100	3
Total	3	100	1	100	51.14	100	3

Table A.4.152. Results of the zooarchaeological analysis from level 40 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Fragments identified as size 2 correspond to fragments of the appendicular skeleton (*table A.4.153*). Since only caprine fragments have been documented, it can be assumed that those elements could correspond to this taxon.

	NISP	%	Weight (g)	%
Size 2	7	75	37.01	100
Total	7	100	37.01	100

Table A.4.153. Unidentified fragments from level 40.

Caprines

Skeletal Representation

The skeletal profiles testify to an over-representation of the hind quarter. Remaining anatomical parts are under-represented with respect to a standard skeleton, evidencing a small representation of the axial skeleton (*table A.4.154, fig. A.4.72*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	-	-	-	32	15.68	2.75	-2.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	-	-	-	38	18.62	2.92	-2.92
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	2	66.66	4.19	26	12.74	2.54	1.65
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	2	66.66	4.19	66	32.35	3.47	0.72
Scapula	-	-	-	2	0.98	-0.01	0.01
Humerus	-	-	-	2	0.98	-0.01	0.01
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	-	-	-	8	3.92	1.36	-1.36
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	1	33.33	3.50	2	0.98	-0.01	3.51
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	1	33.33	3.50	10	4.90	1.58	1.92
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	3	100	4.60	204	100	4.60	0

Table A.4.154. Skeletal representation in caprines from level 40.

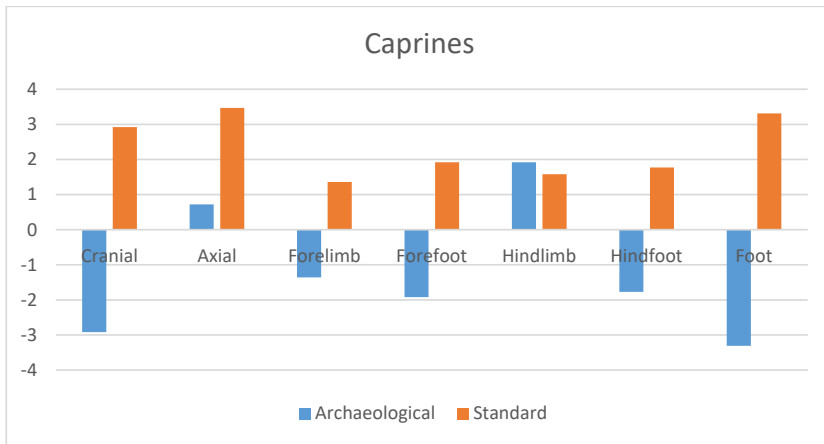


Fig. A.4.72. Skeletal representation in caprines.

Skeletal Elements

Only a rib and a left femur have been identified. Based on the %MAU, the femur features the best representation (table A.4.155, fig. A.4.73a, A.4.73b, A.4.74).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Ribs	2	66.66	14.16	27.68	1	50	0.038	7.6	3	2	1	33.33
Femur	1	33.33	36.98	72.31	1	50	0.5	100	11	2	2	18.18
Total	1	100	51.14	100	2	100						

Table A.4.155. Skeletal elements and rate of fragmentation.

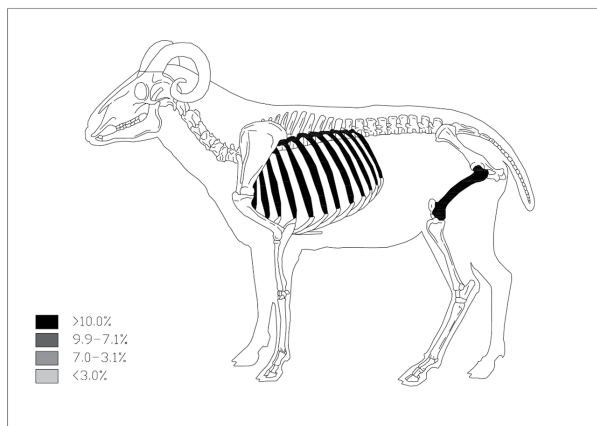


Fig. A.4.73a. Skeletal elements according to %NISP.

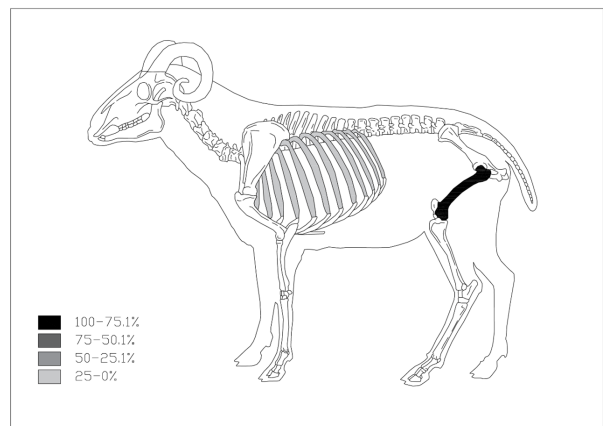


Fig. A.4.73b. Skeletal elements according to %MAU.

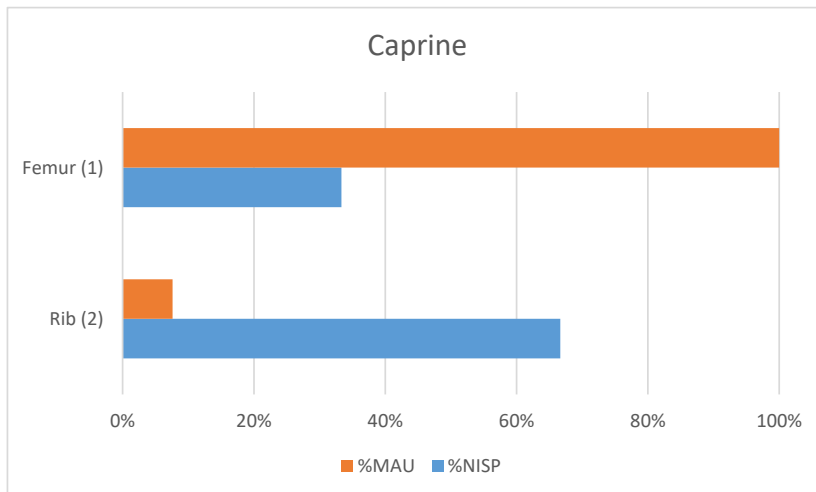


Fig. A.4.74. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements from the hind quarter, essentially the femur that features a high meat content, constitute the main meat providers (table A.4.156, A.4.157, fig. A.4.75).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Ribs	14.16	0.188	0.094	27.64
Femur	36.98	0.493	0.246	72.35
Total	51.14	0.681	0.340	100

Table A.4.156. Meat supply according to skeletal elements.

Meat value	Axial (g)	Hindlimb (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Medium	14.16	-	14.16	0.188	0.094	27.64
High	-	36,98	36,98	0.493	0.246	72.35
Total	14.16	36,98	51.14	0.681	0.340	100

Table A.4.157. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveal an adult over 40 months. It has not been possible to determine the sex nor estimate withers' height in this sample due to a lack of the appropriate bones.

A.4.1.9 Structure 12

A.4.1.9.a Structure 12: Level 42

35 remains appear in level 42. Taking into account that most were assigned to indeterminate categories, the proportion of unidentified remains is high (*table A.4.158*). The level of conservation is poor evidencing a high degree of fragmentation. This stratigraphic unit was not fully excavated.

	NISP	%	Weight (g)	%
Identified	15	42.85	350.95	85.50
Unidentified	20	57.14	59.47	14.49
Total	35	100	410.42	100

Table A.4.158. Results of the zooarchaeological analysis from structure 12 at LRT-II.

Domestic faunas dominate an assemblage where caprines constitute the main taxon followed by cattle and pigs. A red deer and a hare were also identified (*table A.4.159*).

Taxon	NISP	%	MNI	%	Weight (g)	%
Cattle	3	20	1	20	230.66	65.72
Caprine	6	40	1	20	25.83	7.36
Pig	2	13.33	1	20	43.69	12.44
Total domestic	11	73.33	3	60	300.18	85.53
Red deer	3	20	1	20	50.59	14.41
Hare	1	6.66	1	20	0.18	0.05
Total wild	4	26.66	2	40	50.77	14.46
Total identified	15	100	5	100	350.95	100

Table A.4.159. Results of the zooarchaeological analysis from level 42 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Size 2 fragments correspond to elements from the appendicular skeleton followed by one axial skeleton fragment. In the case of size 3 fragments, all derive from the appendicular skeleton (*table A.4.160*).

Size	NISP	%	Weight (g)	%
Size 3	5	25	26.7	44.89
Size 2	14	70	31.15	52.37
Unidentified	1	5	1.62	2.72
Total	20	100	59.47	100

Table A.4.160. Unidentified fragments from level 42.

Cattle

Skeletal Representation

The skeletal profile reveals that all anatomical portions are under-represented (*table A.4.161, fig. A.4.76*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	1	33.33	3.50	45	21.73	3.07	0.43
Rib	1	33.33	3.50	26	12.56	2.53	0.97
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	2	66.66	4.19	73	35.26	3.56	0.63
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	1	33.33	3.50	2	0.96	-0.03	3.53
Total hindfoot	1	33.33	3.50	12	5.79	1.75	1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	3	100	4.60	207	100	4.60	0

Table A.4.161. Skeletal representation in cattle from level 42.

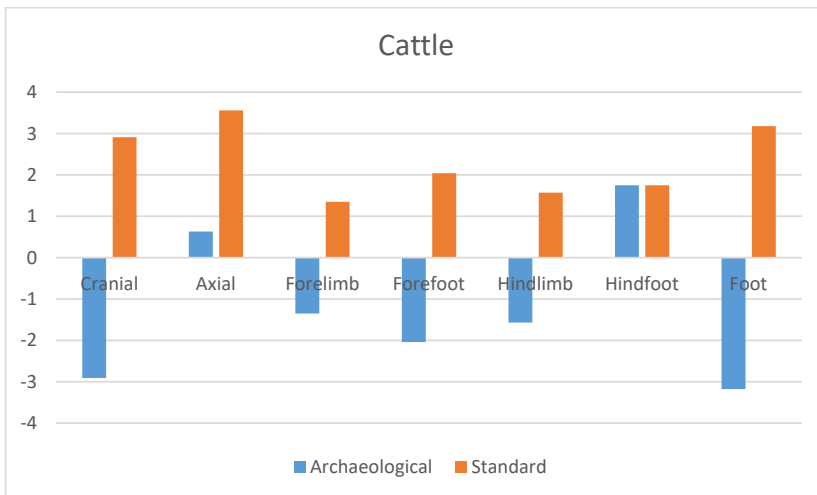


Fig. A.4.76. Skeletal representation in cattle.

Skeletal Elements

Three fragments were identified as *Bos taurus*. Based on %MAU, the metatarsal is the best represented and preserved of the three elements (table A.4.162, fig. A.4.77a, A.4.77b, A.4.78). According to the percentage completeness, rib exhibits a high rate of fragmentation that contrasts with that from the vertebra and metatarsal.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Vertebra	1	33.33	84.72	36.72	1	33.33	0.022	4.4	1	1	1	100
Rib	1	33.33	31.81	13.79	1	33.33	0.038	7.6	3	1	1	33.33
Metatarsal	1	33.33	114.13	49.47	1	33.33	0.5	100	8	4	4	50
Total	2	100	230.66	100	2	100						

Table A.4.162. Skeletal elements and rate of fragmentation.

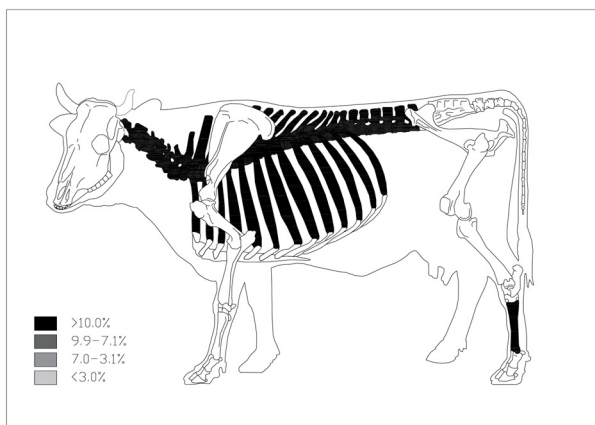


Fig. A.4.77a. Skeletal elements according to %NISP.

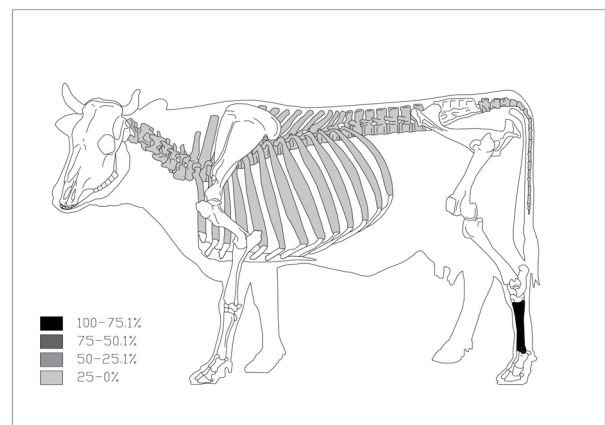


Fig. A.4.77b. Skeletal elements according to %MAU.

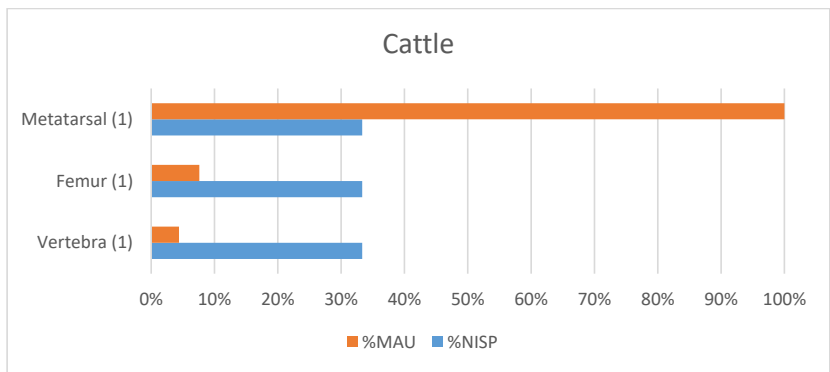


Fig. A.4.78. Skeletal elements according to %NISP and %MAU.

Meat Supply

Axial provides the highest proportion of medium and high-yield meat (*table A.4.163*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Vertebra	84.72	1.129	0.564	36.69
Rib	31.81	0.424	0.21	13.66
Total axial	116.53	1.553	0.776	50.48
Metatarsal	114.13	1.521	0.760	49.44
Total hindfoot	114.13	1.521	0.760	49.44
Total	230.66	3.075	1.537	100

Table A.4.163. Meat supply according to skeletal elements.

Sex and Age

Due to the poor state of conservation, it has not been possible to establish age and sex. Lack of complete bones did not allow height at the wither’s estimation (*table A.4.164*).

Skeletal element	Bp
Metatarsal	54.49

Table A.4.164. Measurements.

Caprines

Skeletal Representation

There is an over-representation of the elements from the forelimb. The remaining anatomical parts are under-represented with respect to a standard skeleton (*table A.4.165, fig. A.4.79*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	1	16.66	2.81	1	0.49	-0.71	3.52
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	1	16.66	2.81	32	15.68	2.75	0.06
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	2	33.33	3.50	38	18.62	2.92	0.58
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	1	16.66	2.81	2	0.98	-0.01	2.82
Humerus	-	-	-	2	0.98	-0.01	0.01
Radius	1	16.66	2.81	2	0.98	-0.01	2.82
Ulna	1	16.66	2.81	2	0.98	-0.01	2.82
Total forelimb	3	16.66	2.81	8	3.92	1.36	1.45
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	-	-	-	10	4.90	1.58	-1.58
Calcaneum	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	1	16.66	2.81	8	3.92	1.36	1.45
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	1	16.66	2.81	56	27.45	3.31	-0.5
Total	6	100	4.60	204	100	4.60	0

Table A.4.165. Skeletal representation in caprines from level 42.

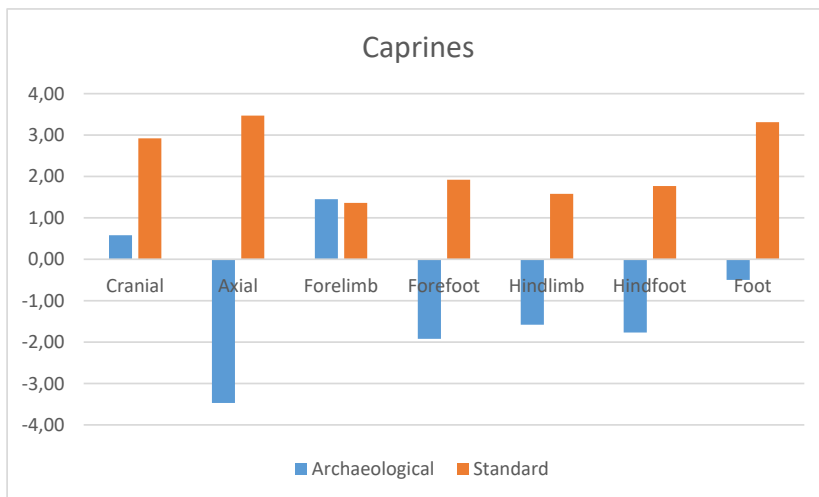


Fig. A.4.79. Skeletal representation in caprines.

Skeletal Elements

Based on %MAU, the skull is the best element represented followed by scapula, radio and ulna. All identified elements exhibit a high rate of fragmentation (*table A.4.166, fig. A.4.80a, A.4.80b, A.4.81*).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	1	16.66	8.24	31.9	1	16.66	1	100				
Teeth	1	16.66	2.41	9.33	1	16.66	0.03	3				
Scapula	1	16.66	2.43	9.40	1	16.66	0.5	50	9	2	2	22.22
Radio	1	16.66	5.49	21.25	1	16.66	0.5	50	11	3	3	27.27
Ulna	1	16.66	5.73	22.18	1	16.66	0.5	50	9	3	3	33.33
Phalanx 1	1	16.66	1.53	5.92	1	16.66	0.125	4.16	3	2	2	66.66
Total	6	100	25.83	100	6	100						

Table A.4.166. Skeletal elements and rate of fragmentation.

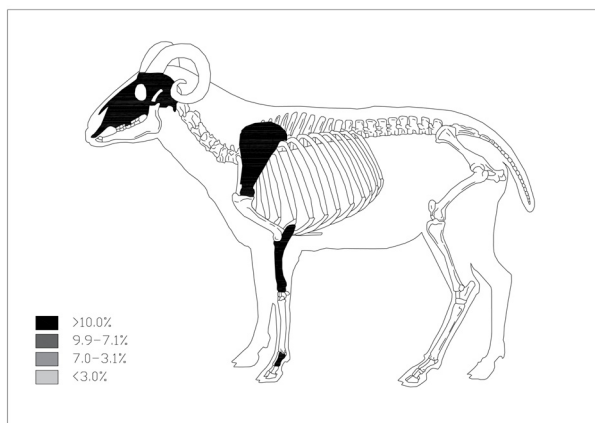


Fig. A.4.80a. Skeletal elements according to %NISP.

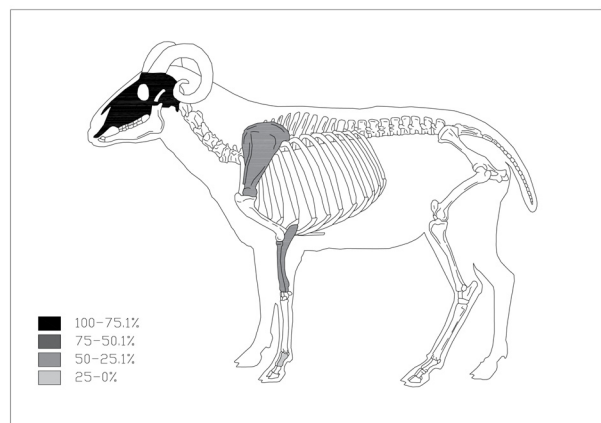


Fig. A.4.80b. Skeletal elements according to %MAU.

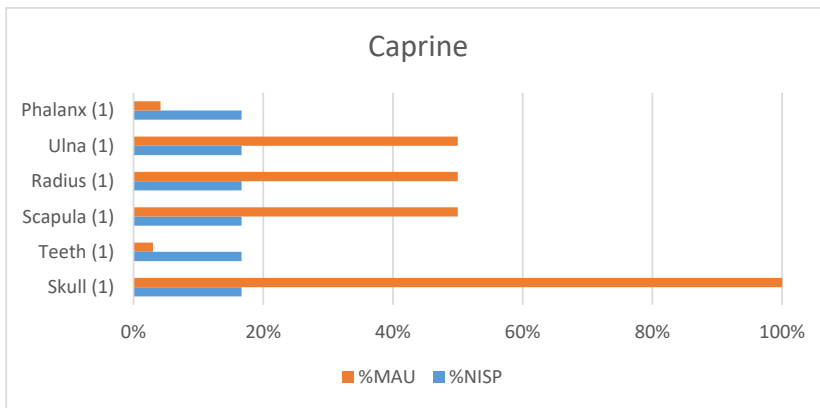


Fig. A.4.81. Skeletal elements according to %NISP and %MAU.

Meat Supply

Skeletal elements from the forelimb provide the greatest meat contribution (*table A.4.167, fig. A.4.82*). There is a predominance of medium-meat input elements followed by high-input ones.

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	8.24	0.109	0.054	36.48
Total cranial	8.24	0.109	0.054	36.48
Scapula	2.43	0.032	0.016	10.81
Radio	5.49	0.073	0.036	24.32
Ulna	5.73	0.076	0.038	25.67
Total forelimb	13.65	0.182	0.091	61.48
Phalanx I	1.53	0.020	0.010	6.75
Total foot	1.53	0.020	0.010	6.75
Total	22.34	0.297	0.148	100

Table A.4.167. Meat supply according to skeletal elements.

Meat value	Cranial	Forelimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	1.53	1.53	0.020	0.010	6.75
Medium	-	11.52	-	11.52	0.153	0.768	51.89
High	8.24	2.43	-	10.67	0.142	0.071	48.06
Total	8.24	13.65	1.53	22.34	0.297	0.148	100

Table A.4.168. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveals a subadult/adult above nine months. It has not been possible to determine the sex nor estimate the mean height at the withers due to the lack of complete bones (*table A.4.169*).

Skeletal element	DPA	SDO	BPC
Ulna	26.25	22.35	15.59

Table A.4.169. Measurements.

Pig**Skeletal Representation**

Skeletal spectra reveal an under-representation of all anatomical portions when compared with a standard skeleton (*table A.4.170, fig. A.4.83*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	1	50	3.91	2	0.68	-0.37	4.28
Teeth	1	50	3.91	44	15.17	2.71	1.20
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	1	100	2.65	48	16.55	2.80	1.80
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	-	-	-	2	0.68	-0.37	0.37
Humerus	-	-	-	2	0.68	-0.37	0.37
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	-	-	-	8	2.75	1.01	-1.01
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	-	-	-	8	2.75	1.01	-1.01
Total forefoot	-	-	-	24	8.27	2.11	-2.11
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	-	-	-	10	3.44	1.23	-1.23
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	-2.19
Phalanx I	-	-	-	16	5.51	1.70	-1.70
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	.	.	.	88	30.34	3.41	-3.41
Total	2	100	4.60	290	100	4.60	0

Table A.4.170. Skeletal representation in pigs from level 42.

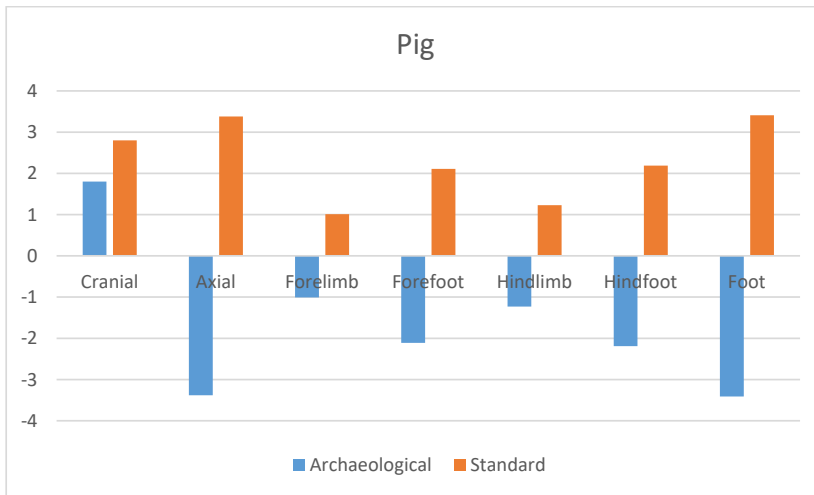


Fig. A.4.83. Skeletal representation in pig.

Skeletal Elements

Pig is represented by a mandible and a canine fragment. Based on %MAU, mandible is the best represented but also it exhibits a high rate of fragmentation (table A.4.171, fig. A.4.84a, A.4.84b).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Mandible	1	50	42.64	97.59	1	50	0.5	100	11	2	2	18.18
Teeth	1	50	1.05	2.40	1	50	0.02	4.54				
Total	2	100	43.69	100	2	100						

Table A.4.171. Skeletal elements and rate of fragmentation.

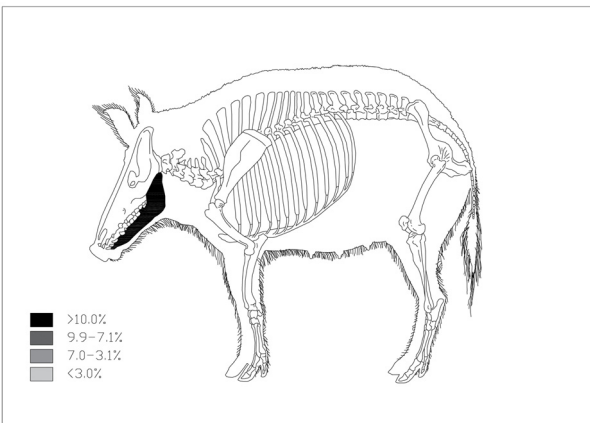


Fig. A.4.84a. Skeletal elements according to %NISP.

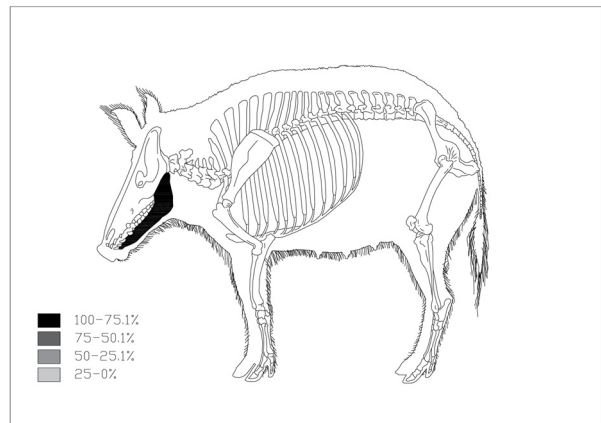


Fig. A.4.84b. Skeletal elements according to %MAU.

Meat Supply

A mandible is the only rest identified (*table A.4.172*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	42.64	0.568	0.284	100
Total	42.64	0.568	0.284	100

Table A.4.172. Meat supply according to skeletal elements.

Sex and Age

Epiphyseal fusion and teeth morphology data managed to spot a male individual slaughtered when above 16 months, i.e. subadult/adult (*table A.4.173*).

Skeletal element	L	B
M3	34.45	16.94

Table A.4.173. Measurements.

A.4.1.10 Structure 17

A.4.1.10.a Structure 17: Level 26

The bone collection from level 26 incorporates 351 fragments. The proportion of unidentified remains is high when one considers that most belong to indeterminate categories (*table A.4.174*). The level of conservation is poor, featuring a high degree of fragmentation. One human fragment was identified.

	NISP	%	Weight (g)	%
Identified	97	24.74	2109.28	82.29
Unidentified	295	75.25	453.9	17.70
Total	392	100	2563.18	100
Human	1	-	7.01	-

Table A.4.174. Faunal remains from level 26.

Identified Fragments

Domestic faunas dominate an assemblage where cattle constitute the main taxon and pigs take second position followed by caprine and dog (*table A.4.175*).

Species	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Cattle	31	31.95	1	14.28	1061.77	50.33	31
Caprine	21	21.64	1	14.28	99.36	4.71	21
Pig	24	24.74	1	14.28	349.7	16.57	12
Dog	2	2.06	1	14.28	2.39	0.11	2
Total domestic	78	80.41	4	57.14	1513.22	71.74	15.6
Aurochs	4	4.12	1	14.28	403.42	19.12	4
Red deer	10	10.30	1	14.28	191.78	9.09	10
Lagomorpha	5	5.15	1	14.28	0.86	0.04	5
Total wild	19	19.5	3	42.85	596.06	28.25	6.33
Total	97	100	7	100	2109.28	100	12.12
Human	1				7,01		

Table A.4.175. Results of the zooarchaeological analysis from level 26 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

Fragments identified as size 3 correspond to elements of the appendicular and axial skeleton. In the case of size 2 fragments, there is a predominance of fragments from the axial skeleton and a low proportion of appendicular and cranial elements (*table A.4.176*).

Size	NISP	%	Weight (g)	%
Size 3	15	5.08	162.44	35.78
Size 2	238	80.67	220.95	48.67
Size 1	2	0.67	0.1	0.02
Unidentified	40	13.55	70.41	15.51
Total	295	100	453.9	100

Table A.4.176. Unidentified fragments from level 26.

Cattle

Skeletal Representation

There is an over-representation of hindlimb elements in relation to a standard skeleton. Remaining anatomical parts are under-represented (*table A.4.177, fig. A.4.85*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	1	3.22	1.17	2	0.96	-0.03	1.20
Skull	1	3.22	1.17	1	0.48	-0.72	1.89
Mandible	1	3.22	1.17	2	0.96	-0.03	1.20
Teeth	1	3.22	1.17	32	15.45	2.73	-1.56
Hyoid	3	9.67	2.26	1	0.48	-0.72	2.98
Total cranial	7	22.58	3.11	38	18.35	2.91	0.20
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	9	29	3.36	26	12.56	2.53	0.83
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	9	29	3.36	73	35.26	3.56	-0.2
Scapula	1	3.22	1.17	2	0.96	-0.03	1.20
Humerus	1	3.22	1.17	2	0.96	-0.03	1.20
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	1	3.22	1.17	2	0.96	-0.03	1.20
Total forelimb	3	9.67	2.26	8	3.86	1.35	0.91
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	4	12.90	2.55	2	0.96	-0.03	2.58
Femur	2	6.45	1.86	2	0.96	-0.03	1.89
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	2	6.45	1.86	2	0.96	-0.03	1.89
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	8	25.80	3.25	10	4.83	1.57	1.68
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	1	3.22	1.17	6	2.89	1.06	0.11
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	1	3.22	1.17	12	5.79	1.75	-0.58
Phalanx I	1	3.22	1.17	8	3.86	1.35	-0.18
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	1	3.22	1.17	8	3.86	1.35	-0.18
Sesamoids	1	3.22	1.17	26	12.56	2.53	-1.36
Total foot	3	9.67	2.26	50	24.15	3.18	-0.92
Total	31	100	4.60	207	100	4.60	0

Table A.4.177. Skeletal representation in cattle from level 26.

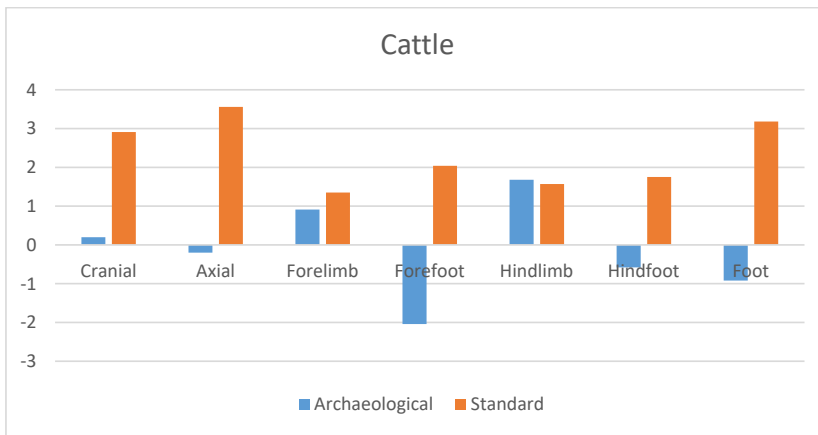


Fig. A.4.85. Skeletal representation in cattle.

Skeletal Elements

Based on %MAU, cranial and hindlimb are best represented. According to the percentage completeness, humerus exhibit a higher rate of fragmentation than the remaining elements (table A.4.178, fig. A.4.86a, A.4.86b, fig. A.4.87).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Horn	1	3.22	11.8	1.11	1	4.54	0.5	50				
Skull	1	3.22	236	22.22	1	4.54	1	100				
Mandible	1	3.22	119.62	11.26	1	4.54	0.5	50	7	2	2	28.57
Teeth	1	3.22	3.58	0.33	1	4.54	0.03	3	1	1	1	100
Hyoid	3	9.67	13.44	1.26	1	4.54	1	100	3	3	3	100
Rib	9	29.03	145.01	13.65	5	22.72	0.03	3	2	2	0.22	11.11
Scapula	1	3.22	60.61	5.70	1	4.54	0.5	50	9	1	1	11.11
Humerus	1	3.22	11.6	1.09	1	4.54	0.5	50	11	1	1	9,09
Ulna	1	3.22	5.41	0.50	1	4.54	0.5	50	9	1	1	11.11
Pelvis	4	12.90	176.07	16.58	2	9.09	1	100	12	7	1.75	14.85
Femur	2	6.45	91.74	8.64	2	9.09	1	100	11	3	1.5	13.63
Tibia	2	6.45	80.58	7.58	1	4.54	0.5	50	10	5	2.5	25
Tarsocentrale	1	3.22	56.09	5.28	1	4.54	0.5	50	1	1	1	100
Phalanx I	1	3.22	23.55	2.21	1	4.54	0.25	25	3	2	2	66.66
Phalanx III	1	3.22	23.5	2.21	1	4.54	0.25	25	2	2	2	100
Sesamoid	1	3.22	3.17	0.29	1	4.54	0.03	3	1	1	1	100
Total	31	100	1061.77	100	22	100						

Table A.4.178. Skeletal elements and rate of fragmentation.

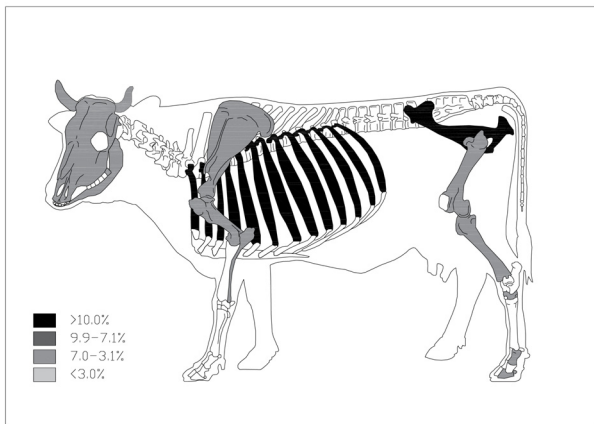


Fig. A.4.86a. Skeletal elements according to %NISP.

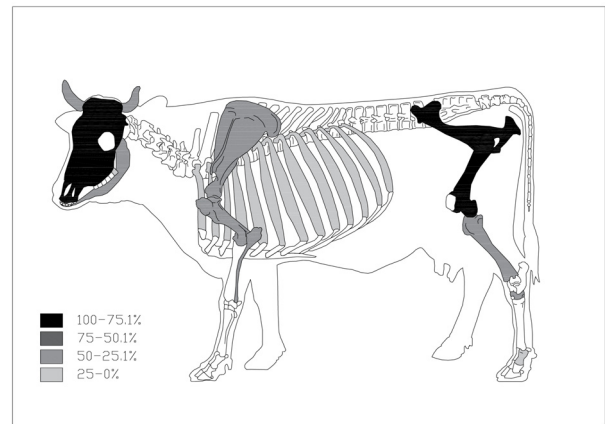


Fig. A.4.86b. Skeletal elements according to %MAU.

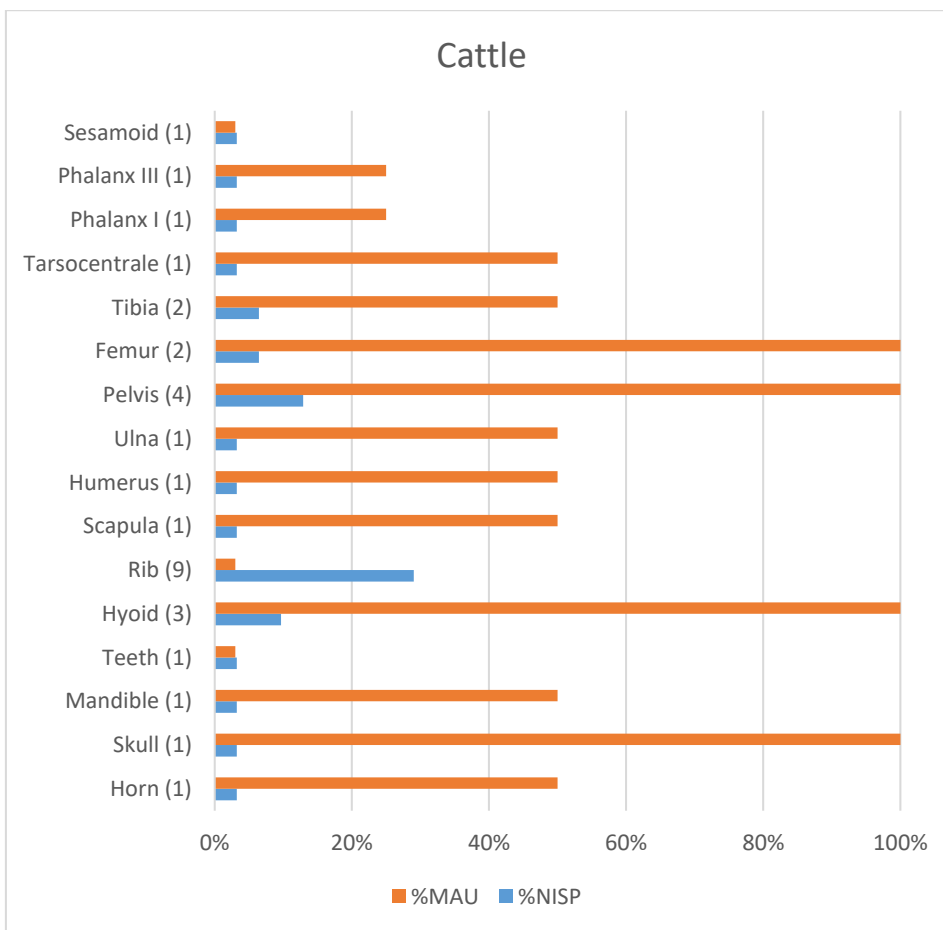


Fig. A.4.87. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements coming from the cranial and hind quarters, in particular the skull and the pelvis, provide the highest meat contributions followed by axial skeleton. High-input element predominate (*table A.4.179, A.4.180, fig. A.4.88*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	236	3.146	1.573	22.55
Mandible	119.62	1.594	0.797	11.42
Hyoid	13.44	0.179	0.089	1.27
Total cranial	369.06	4.920	2.460	35.26
Rib	145.01	1.933	0.966	13.84
Total axial	145.01	1.933	0.966	13.84
Scapula	60.61	0.808	0.404	5.79
Humerus	11.6	0.152	0.076	1.08
Ulna	5.41	0.072	0.036	0.51
Total forelimb	77.62	1.034	0.517	7.41
Pelvis	176.07	2.347	1.173	16.81
Femur	91.74	1.223	0.611	8.75
Tibia	80.58	1.074	0.537	7.69
Total hindlimb	348.39	4.645	2.322	33.29
Tarsocentrale	56.09	0.747	0.373	5.34
Total hindfoot	56.09	0.747	0.373	5.34
Phalanx I	23.55	0.314	0.157	2.25
Phalanx III	23.5	0.313	0.156	2.23
Sesamoid	3.17	0.042	0.021	0.30
Total foot	50.22	0.669	0.334	4.78
Total	1046.39	13.951	6.975	100

Table A.4.179. Meat supply according to skeletal elements (horn and teeth not included).

Meat value	Cranial (g)	Axial (g)	Fore-limb (g)	Hind-limb (g)	Hind-foot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	13.44	-	-	-	56.09	50.22	119.75	1.596	0.798	11.44
Medium	119.62	145.01	5.41	80.58	-	-	350.62	4.674	2.337	33.50
High	236	-	72.21	267.81	-	-	576.02	7.680	3.840	55.05
Total	369.06	145.01	77.62	348.39	56.09	50.22	1046.39	13.951	6.975	100

Table A.4.180. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveal an individual above 24 and below 46 months (juvenile-young adult). It has not been possible to establish the sex nor estimate mean height at the withers due to a lack of complete bones (*table A.4.181*).

Skeletal element	GLP	SLC	LG
Scapula	83.45	61.22	70.42
	Gb		
Tarsocentrale	58.33		
	MBS		
Phalanx III	23.58		

Table A.4.181. Measurements.

Caprines

Skeletal Representation

The skeletal profile of caprines evidences an over-representation of the forelimb in relation to a standard skeleton whereas all remaining anatomical portions are under-represented (*table A.4.182, fig. A.4.89*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	1	5	1.60	1	0.49	-0.71	2.31
Mandible	2	10	2.30	2	0.98	-0.01	2.31
Teeth	2	10	2.30	32	15.68	2.75	-0.44
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	5	25	3.21	38	18.62	2.92	0.29
Vertebrae	3	15	2.70	38	18.62	2.62	0.08
Rib	1	5	1.60	26	12.74	2.54	-0.94
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	4	20	2.99	66	32.35	3.47	-0.47
Scapula	5	25	3.21	2	0.98	-0.01	3.22
Humerus	1	5	1.60	2	0.98	-0.01	1.61
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	6	30	3.40	8	3.92	1.36	2.04
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	2	10	2.30	2	0.98	-0.01	2.31
Total forefoot	2	10	2.30	14	6.86	1.92	0.38
Pelvis	1	5	1.60	2	0.98	-0.01	1.61
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	1	5	1.60	10	4.90	1.58	0.02
Calcaneus	1	5	1.60	2	0.98	-0.01	1.61
Astragalus	1	5	1.60	2	0.98	-0.01	1.61
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	2	10	2.30	12	5.88	1.77	0.53
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	20	100	4.60	204	100	4.60	0

Table A.4.182. Skeletal representation in caprines from level 26.

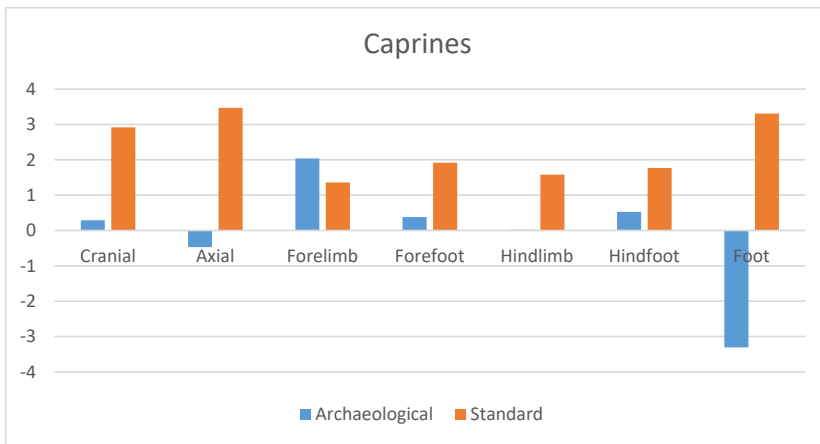


Fig. A.4.89. Skeletal representation in caprines.

Skeletal Elements

According to %MAU, cranial and appendicular elements are best represented in comparison with axial skeleton (table A.4.183, fig. A.4.90a, A.4.90b, A.4.91). All elements exhibit a high rate of fragmentation being vertebrae and pelvis the most fragmented.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	1	5.26	13.76	14.30	1	7.69	1	100				
Mandible	2	10.52	21.34	22.18	1	7.69	0.5	50	7	4	2	28.57
Vertebrae	3	15.78	9.46	9.83	3	23.07	0.07	7	2	3	1	14.28
Rib	1	5.26	1.78	1.85	1	7.69	0.03	3	2	1	1	50
Scapula	5	26.31	5.27	5.47	1	7.69	0.5	50	9	1	0.2	2.22
Humerus	1	5.26	9.34	9.71	1	7.69	0.5	50	11	2	2	18.18
Metacarpal	2	10.52	18.68	19.42	1	7.69	0.5	50	8	3	1.5	18.75
Pelvis	1	5.26	4.77	4.95	1	7.69	0.5	50	12	1	1	8.33
Astragalus	1	5.26	5.2	5.40	1	7.69	0.5	50	4	4	4	100
Calcaneus	1	5.26	2.61	2.71	1	7.69	0.5	50	5	1	1	20
Metapodia	1	5.26	3.96	4.11	1	7.69	0.25	25	8	2	2	25
Total	19	100	96.17	100	13	100						

Table A.4.183. Skeletal elements and rate of fragmentation.

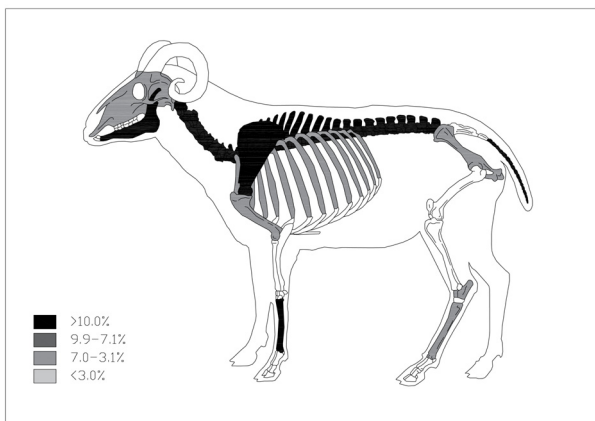


Fig. A.4.90a. Skeletal elements according to %NISP.

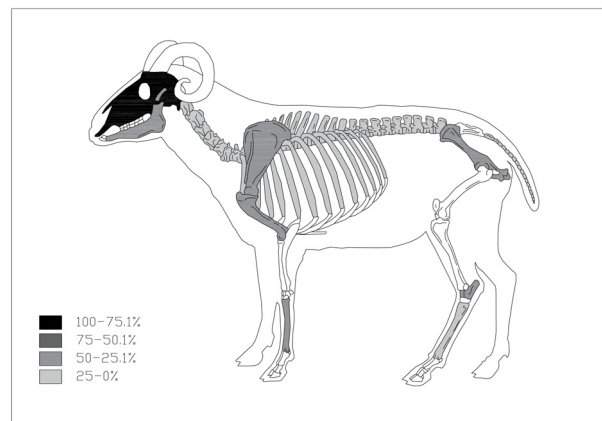


Fig. A.4.90b. Skeletal elements according to %MAU.

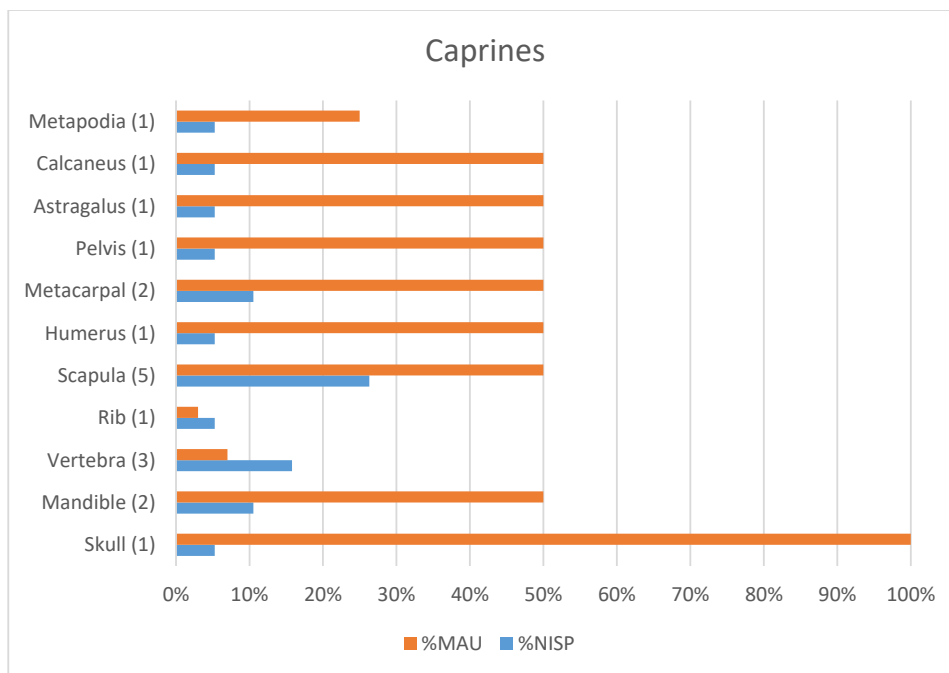


Fig. A.4.91. Skeletal elements according to %NISP and %MAU.

Meat Supply

Cranial and forelimb elements provide the highest proportion of high value meat (*table A.4.184, A.4.185, fig. A.4.92*).

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	13.76	0.183	0.09	14.04
Mandible	21.34	0.284	0.142	22.19
Total cranial	35.1	0.468	0.234	36.50
Vertebrae	9.46	0.126	0.063	9.82
Rib	1.78	0.023	0.011	1.71
Total axial	11.24	0.149	0.074	11.54
Scapula	5.27	0.070	0.035	5.46
Humerus	9.34	0.124	0.062	9.67
Total forelimb	14.61	0.194	0.097	15.13
Metacarpal	18.68	0.249	0.124	19.34
Total forefoot	18.68	0.249	0.124	19.34
Pelvis	4.77	0.063	0.031	4.83
Total hindlimb	4.77	0.063	0.031	4.83
Astragalus	5.2	0.069	0.034	5.30
Calcaneus	2.61	0.034	0.017	2.65
Total hindfoot	7.81	0.104	0.052	8.11
Metapodia	3.96	0.052	0.026	4.05
Total foot	3.96	0.052	0.026	4.05
Total	96.17	1.282	0.641	100

Table A.4.184. Meat supply according to skeletal elements (teeth not included).

Meat value	Cranial (g)	Axial (g)	Fore-limb (g)	Fore-foot (g)	Hind-limb (g)	Hind-foot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	18.68	-	7.81	3.96	30.45	0.406	0.203	31.66
Medium	21.34	1.78	-	-	-	-	-	23.12	0.308	0.154	24.02
High	13.79	9.46	14.61	-	4.77	-	-	42.63	0.568	0.284	44.30
Total	35.1	11.24	14.61	18.68	4.77	7.81	3.69	96.17	1.282	0.641	100

Table A.4.185. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveals an infant-juvenile below nine months. It has not been possible to determine the sex nor estimate the mean height at the withers due to the lack of complete bones (*table A.4.186*).

Skeletal element	Bd	GLm	LmT
Astragalus	19.1	27.99	30.05

Table A.4.186. Measurements.

Pig**Skeletal Representation**

The skeletal profile reveals an over-representation of the fore and hindlimb, all remaining portions being under-represented with respect to the reference skeleton. Within these, the axial skeleton followed by cranial and fore foot portions are the best represented (*table A.4.187, fig. A.4.93*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	5	20.83	3.03	1	0.34	-1.06	4.09
Mandible	1	4.16	1.42	2	0.68	-0.37	1.79
Teeth	4	16.66	2.81	44	15.17	2.71	0.10
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	10	41.66	3.72	48	16.55	2.80	0.92
Vertebrae	3	12.5	2.52	56	19.31	2.96	-0.43
Rib	1	4.16	1.42	28	9.65	2.26	-0.84
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	4	16.66	2.81	86	29.65	3.38	-0.57
Scapula	3	12.5	2.52	2	0.68	-0.37	2.89
Humerus	2	8.33	2.12	2	0.68	-0.37	2.49
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	5	20.83	3.03	8	2.75	1.01	2.02
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	1	4.16	1.42	8	2.75	1.01	0.41
Total forefoot	1	4.16	1.42	24	8.27	2.11	-0.69
Pelvis	3	12.5	2.52	2	0.68	-0.37	2.89
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	3	12.5	2.52	10	3.44	1.23	1.29
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	-2.19
Phalanx I	1	4.16	1.42	16	5.51	1.70	-0.28
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	1	4.16	1.42	88	30.34	3.41	-1.99
Total	24	100	4.60	290	100	4.60	0

Table A.4.187. Skeletal representation in pigs from level 26.

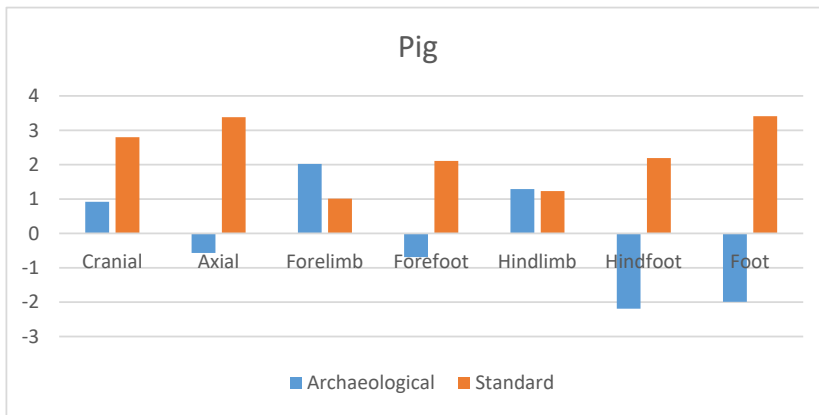


Fig. A.4.93. Skeletal representation in pigs.

Skeletal Elements

Based on %MAU, the skull and pelvis are the ones best represented followed by mandible and humerus. Pelvis has a high level of fragmentation (table A.4.188, fig. A.4.94a, A.4.94b, A.4.95).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	5	20.83	26.88	7.68	2	11.11	2	100	-	-	-	-
Mandible	1	4.16	53.53	15.30	1	5.55	0.5	25	11	2	2	18.18
Teeth	4	16.66	13.54	3.87	4	22.22	0.09	4.5	-	-	-	-
Vertebrae	3	12.5	26.17	7.48	3	16.66	0.05	2.5	2	3	1	50
Ribs	1	4.16	10.21	2.91	1	5.55	0.03	1.5	2	1	1	50
Scapula	3	12.5	33.01	9.43	1	5.55	0.5	2.5	9	6	2	22.22
Humerus	2	8.33	67.34	19.25	2	11.11	1	50	11	10	5	45.45
Metacarpal	1	4.16	9.07	2.59	1	5.55	0.12	6	3	2	2	66.66
Pelvis	3	12.5	107.33	30.69	2	11.11	2	100	12	3	1	8.33
Phalanx I	1	4.16	1.62	0.46	1	5.55	0.06	3	3	3	1	100
Total	24	100	349.7	100	18	100						

Table A.4.188. Skeletal elements and rate of fragmentation.

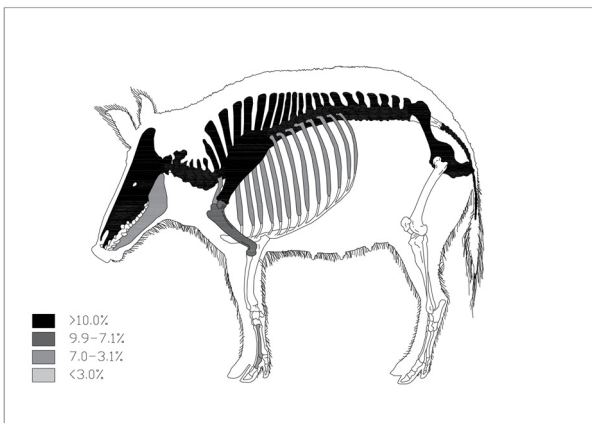


Fig. A.4.94a. Skeletal elements according to %NISP.

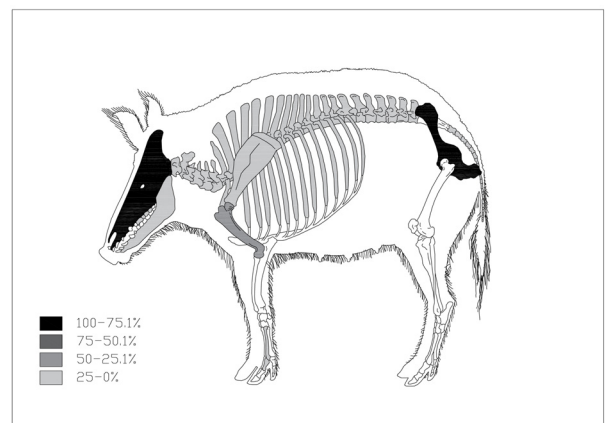


Fig. A.4.94b. Skeletal elements according to %MAU.

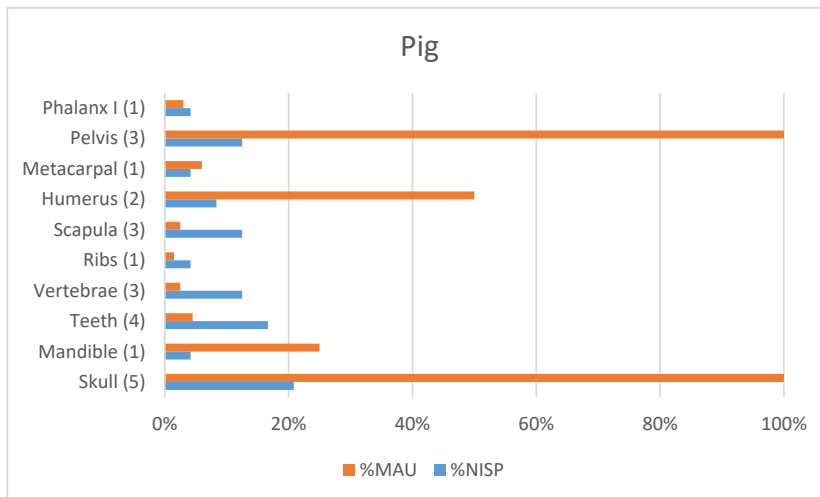


Fig. A.4.95. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements from the forelimb and the hindlimb skeleton provide the highest proportion of meat followed by elements coming from the axial, mainly representing high meat content elements (table A.4.189, A.4.190, fig. A.4.96).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	7.68	0.102	0.051	2.18
Mandible	15.30	0.204	0.102	4.37
Total cranial	22.98	0.306	0.153	6.56
Vertebrae	26.17	0.348	0.174	7.46
Ribs	10.21	0.136	0.068	2.91
Total axial	36.38	0.485	0.242	10.38
Scapula	33.01	0.440	0.220	9.43
Humerus	67.34	0.897	0.448	19.21
Total forelimb	100.35	1.338	0.669	28.7
Metacarpal	9.07	0.120	0.060	2.57
Total forefoot	9.07	0.120	0.060	2.57
Pelvis	107.33	1.431	0.715	30.67
Total hindlimb	107.33	1.431	0.715	30.67
Phalanx I	1.62	0.021	0.010	0.42
Total foot	1.62	0.021	0.010	0.42
Total	349.7	4.662	2.331	100

Table A.4.189. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Axial (g)	Fore-limb (g)	Fore-foot (g)	Hind-limb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	9.07	-	1.62	10.69	0.142	0.071	3.83
Medium	15.30	10.21	-	-	-	-	25.51	0.340	0.170	9.18
High	7.68	26.17	100.35	-	107.33	-	241.53	3.220	1.610	86.98
Total	22.98	36.38	100.35	9.07	107.33	1.62	277.73	3.703	1.851	100

Table A.4.190. Meat quality distribution.

Sex and Age

The epiphyseal fusion data reveals a juvenile individual above twelve and below 24 months (juvenile). A female individual has been spotted on account of the morphology of the canine. Height at the withers cannot be estimated due to lack of complete bones (*table A.4.191*).

Skeletal element	SLC				
Scapula	21.69				
	SD	Bd			
Humerus	14.1	35.87			
	SH	SC	SB	LA	LAR
Pelvis	23.74	62.33	13.99	37.75	30.36

Table A.4.191. Measurements.

A.4.1.10.b Structure 17: Level 49

Twelve remains appear in level 49. The level of conservation is poor evidencing a high degree of fragmentation and combustion marks (*table A.4.192*).

	NISP	%	Weight (g)	%
Identified	7	58.33	39.16	85.44
Unidentified	5	41.66	6.67	14.55
Total	12	100	45.83	100

Table A.4.192. Faunal remains from level 49.

Identified Fragments

Domestic faunas dominate an assemblage where caprines constitute the main taxon and cattle takes second position followed by pig (*table A.4.193*).

Species	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Cattle	3	42.85	1	50	24.43	62.38	0.33
Caprine	4	57.14	1	50	14.73	37.61	0.25
Total	7	100	3	100	39.16	100	

Table A.4.193. Results of the zooarchaeological analysis from level 49 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

All five unidentified fragments belong to appendicular skeleton, they have been included into the size 2 group.

Cattle**Skeletal Representation**

The skeletal profile reveals an under-representation of all anatomical portions with respect to the standard skeleton (*table A.4.194, fig. A.4.97*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	3	100	4.60	26	12.56	2.53	2.07
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	3	100	4.60	73	35.26	3.56	1.04
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	3	100	4.60	207	100	4.60	0

Table A.4.194. Skeletal representation in cattle from level 49.

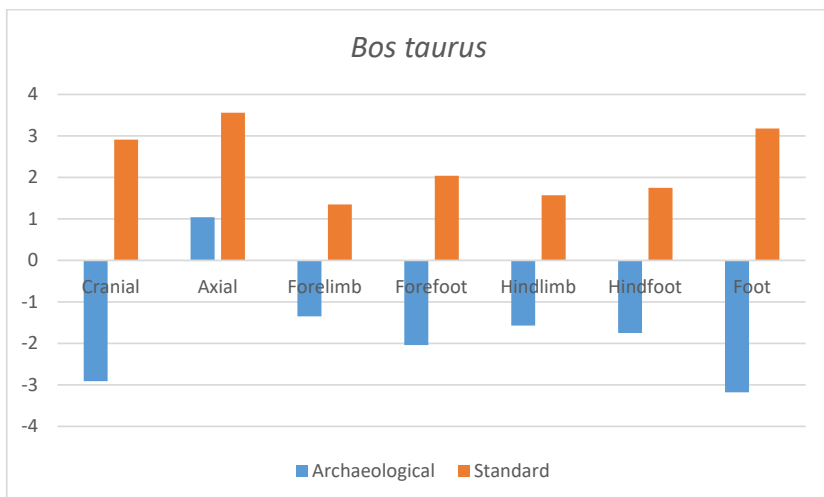


Fig. A.4.97 Skeletal representation in cattle.

Skeletal Elements

Three fragments were identified as *Bos taurus*. The anatomical units represented belong to ribs (table A.4.195).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Rib	3	100	24.43	100	2	100	0.076	100	2	3	1	50
Total	3	100	24.43	100	2	100	0.076	100	2	3	1	50

Table A.4.195. Skeletal elements and rate of fragmentation.

Meat Supply

The forelimb provides the highest proportion of medium-yield meat (table A.4.196).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Rib	24.43	0.325	0.162	100
Total	24.43	0.325	0.162	100

Table A.4.196. Meat supply according to skeletal elements.

Sex and Age

Due to the poor state of conservation, it has not been possible to establish age and sex. Lack of complete bones did not allow a height at the withers estimation.

Caprines

Skeletal Representation

There is an over-representation of the elements from the hindlimb. The remaining anatomical parts are under-represented with respect to a standard skeleton (*table A.4.197, fig. A.4.98*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	1	33.33	3.50	32	15.68	2.75	0.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	1	33.33	3.50	38	18.62	2.92	0.58
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	-	-	-	2	0.98	-0.01	1
Humerus	-	-	-	2	0.98	-0.01	1
Radius	-	-	-	2	0.98	-0.01	1
Ulna	-	-	-	2	0.98	-0.01	1
Total forelimb	-	-	-	8	3.92	1.36	-1.36
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	1	33.33	3.50	2	0.98	-0.01	3.51
Femur	1	33.33	3.50	2	0.98	-0.01	3.51
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	2	66.66	4.19	10	4.90	1.58	2.61
Calcaneum	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	3	100	4.60	204	100	4.60	0

Table A.4.197. Skeletal representation in caprines from level 49.

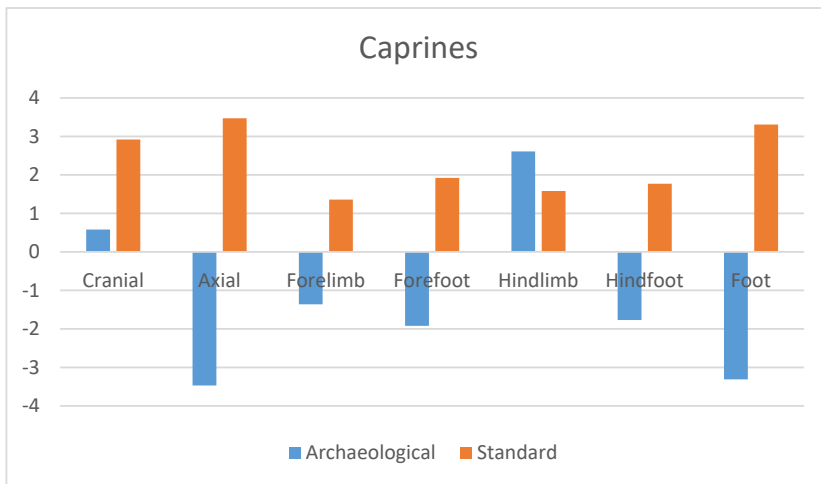


Fig. A.4.98. Skeletal representation in caprines.

Skeletal Elements

Four elements, one tooth, a femur, a pelvis and a metapodia were identified as caprines. Pelvis and metapodia exhibit a high rate of fragmentation and combustion marks (*table A.4.198, fig. A.4.99a, A.4.99b, A.4.100*).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Teeth	1	25	2.33	15.81	1	25	0.031	3.1	1	1	1	100
Pelvis	1	25	2.29	15.54	1	25	0.5	100	12	1	1	8.33
Femur	1	25	6.46	43.85	1	25	0.5	100	11	4	4	36.36
Metapodia	1	25	3.65	24.77	1	25	0.25	25	8	1	1	12.5
Total	3	100	14.73	100	3	100						

Table A.4.198. Skeletal elements and rate of fragmentation.

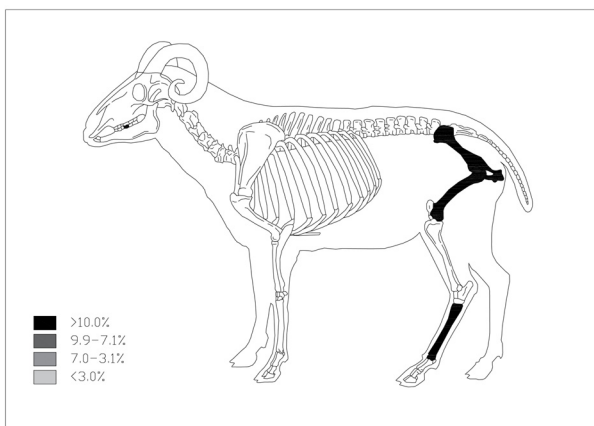


Fig. A.4.99a. Skeletal elements according to %NISP.

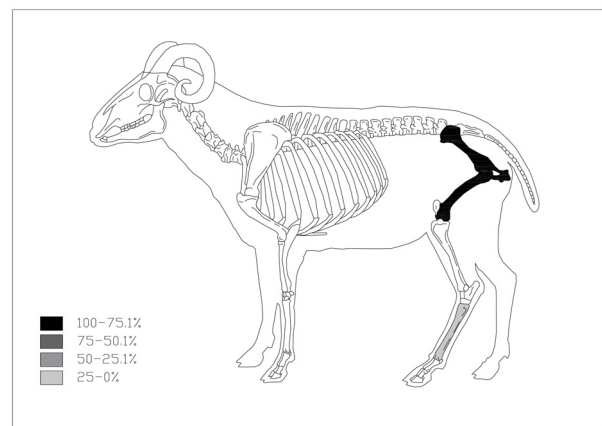


Fig. A.4.99b. Skeletal elements according to %MAU.

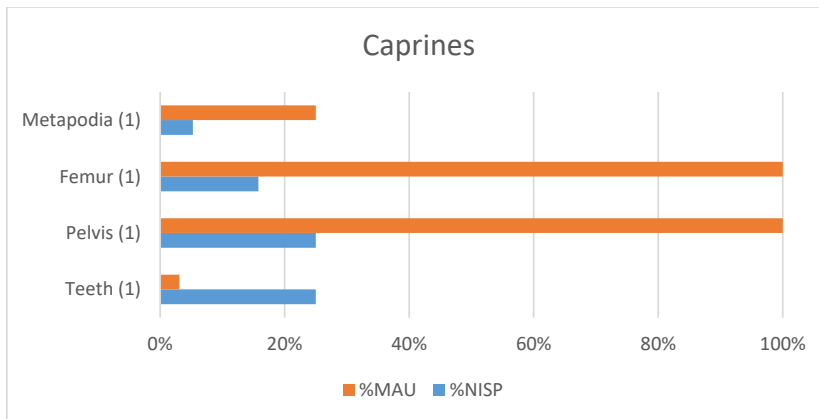


Fig. A.4.100. Skeletal elements according to %NISP and %MAU.

Meat Supply

High meat input elements from the hindlimb provide the highest proportion of meat contributions (*table A.4.199, A.4.200, fig. A.4.101*).

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Pelvis	2.29	0.030	0.015	29.26
Femur	6.46	0.086	0.043	52.43
Metapodium	3.65	0.048	0.024	29.26
Total	12.4	0.165	0.082	100

Table A.4.199. Meat supply according to skeletal elements.

Meat value	Forelimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low		3.65	3.65	0.048	0.024	29.26
High	8.75	-	8.75	0.116	0.058	70.73
Total	8.75	3.65	12.4	0.165	0.082	100

Table A.4.200. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveals a infant/juvenile below 18 months. It has not been possible to determine the sex nor estimate the mean height at the withers due to the lack of complete bones.

A.4.1.11 Structure 18

A.4.1.11.a Structure 18: Level 59

Only seven remains comprise this collection. Taking into account that most were assigned to indeterminate categories the proportion of unidentified remains is high (*table A.4.201*). The level of conservation is poor, evidencing a high degree of fragmentation.

	NISP	%	Weight (g)	%
Identified	2	28.57	961.97	98.70
Unidentified	5	71.42	12.66	1.29
Total	7	100	974.63	100

Table A.4.201. Faunal remains from level 59.

Identified Fragments.

Wild fauna is represented by the Aurochs and if the equid turns out to be wild, then level 59 is unique in that no domesticated animals have been found in it (*table A.4.202*).

Species	NISP	%	MNI	%	Weight (g)	%	NISP/MNI
Aurochs	1	50	1	33.33	866	88.85	1
Horse	1	50	1	33.33	95.97	9.84	1
Total	70	100	2	66.66	974.63	100	35

Table A.4.202. Results of the zooarchaeological analysis from level 59 at LRT-II including NISP, MNI and weight.

Unidentified Fragments

The size 3 fragment probably represents a cranial bone from an Aurochs. The size 2 fragment derives from the axial skeleton (*table A.4.203*).

	NISP	%	MNI	%	Weight (g)	%
Size 3	1	20			6.93	54.73
Size 2	1	20	1	33.33	1.6	12.63
Unidentified	3	60			4.13	32.62
Total	5	100	1	33.33	12.66	100

Table A.4.203. Unidentified fragments from level 59.

A.4.2 Carmona

A.4.2.1 Structure 24

A.4.2.1.a Structure 24: Level 21

140 faunal remains comprise the collection. The proportion of unidentified remains is quite high if considered that most of the remains were assigned to unidentified categories (*table A.4.204*). The level of conservation of the faunal assemblage is quite deficient, presenting a high degree of fragmentation.

	NISP	%NISP	Weight (g)	%
Identified	41	29.28	343.35	63.15
Unidentified	99	70.71	200.34	36.84
Total	140	100	543.69	100

Table A.4.204. Faunal remains from level 21.

Identified Fragments

Domestic faunas dominate an assemblage where cattle constitute the main taxon and pigs take second position followed by caprines and dogs (*table A.4.205*).

Taxon	NISP	%	MNI	%	Weight (g)	%	MNI/NISP
Cattle	21	51.21	1	14.28	271.78	79.15	21
Caprine	7	17.07	2	28.57	18.25	5.31	3.5
Pig	9	21.95	2	28.57	42.11	12.26	4.5
Dog	3	7.31	1	14.28	9.75	2.83	3
Total domestic	40	97.56	6	85.71	341.89	99.57	6.66
Lagomorpha	1	2.44	1	14.28	1.46	0.43	1
Total wild	1	2.44	1	14.28	1.46	0.43	1
Total identified	41	100	7	100	343.35	100	5.85

Table A.4.205. Results of the zooarchaeological analysis from level 21 at structure 24 at Ronda del Cenicero (Carmona) including NISP, MNI and weight.

Unidentified Fragments

Fragments identified as size 3 correspond to fragments of an appendicular skeleton followed by cranial and axial fragments (*table A.4.206*). Since only cattle fragments have been documented, it can be assumed that those elements could correspond to this taxon. In the case of size 2 fragments, as with size 3 fragments, there is a predominance of fragments from the appendicular skeleton as opposed to a low proportion of elements from the axial and cranial skeleton.

	NISP	%	Weight (g)	%
Size 3	20	20.20	100.09	49.96
Size 2	79	79.79	100.25	50.03
Total unidentified	99	100	200.34	100

Table A.4.206. Unidentified fragments from level 21.

Cattle

Skeletal Representation

The skeletal representation study carried out on the remains identified as cattle showed an over-representation of anatomical parts corresponding to the forelimb and hindlimb. The rest of the anatomical parts are under-represented with respect to a standard skeleton (*table A.4.207, fig. A.4.102*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	2	16.66	2.81	2	0.96	-0.03	2.84
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	2	16.66	2.81	38	18.35	2.91	-0.1
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	1	8.33	2.12	26	12.56	2.53	-0.41
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	1	8.33	2.12	73	35.26	3.56	-1.44
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	2	16.66	2.81	2	0.96	-0.03	0.03
Total forelimb	2	16.66	2.81	8	3.86	1.35	1.46
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	1	8.33	2.12	4	1.93	0.65	1.47
Total forefoot	1	8.33	2.12	16	7.72	2.04	0.08
Pelvis	1	8.33	2.12	2	0.96	-0.03	2.15
Femur	1	8.33	2.12	2	0.96	-0.03	2.15
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	1	8.33	2.12	2	0.96	-0.03	2.15
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	3	25	3.21	10	4.83	1.57	1.64
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	1	8.33	2.12	2	0.96	-0.03	0.03
Total hindfoot	1	8.33	2.12	12	5.79	1.75	0.37
Phalanx I	1	8.33	2.12	8	3.86	1.35	0.77
Phalanx II	1	8.33	2.12	8	3.86	1.35	0.77
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-1.35
Total foot	2	16.66	2.81	50	24.15	3.18	-0.37
Total	12	100	4.60	207	100	4.60	0

Table A.4.207. Skeletal representation in cattle from level 21.

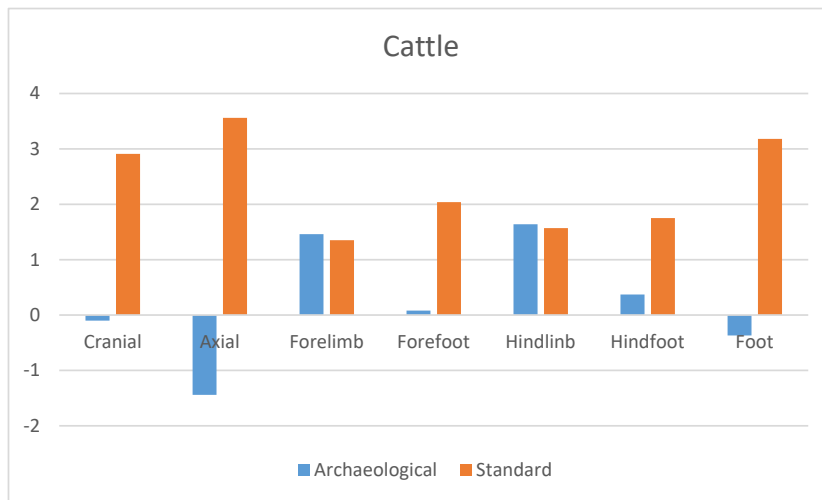


Fig. A.4.102. Skeletal representation in cattle.

Skeletal Representation

Based on the %MAU, elements from the fore and hindlimbs are best represented along with the mandible. The rest of the identified elements, coming from the ribs and feet, have a low representativeness. Completeness percentages indicate that mandibles, pelvis, ulnae and metapodia exhibit a higher rate of fragmentation than the remaining identified elements (*table A.4.208, fig. A.4.103a, A.4.103b, A.4.104*).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Mandible	2	11.76	24.97	10.22	1	9.09	0.5	100	7	2	1	1.68
Rib	1	5.88	20.69	8.47	1	9.09	0.03	6	3	1	1	33.33
Ulna	2	11.76	32.19	13.18	1	9.09	0.5	100	9	2	1	11.11
Pelvis	1	5.88	4.44	1.81	1	9.09	0.5	100	12	1	1	8.33
Femur	1	5.88	28.08	11.50	1	9.09	0.5	100	11	2	2	18.18
Tibia	1	5.88	9.19	3.76	1	9.09	0.5	100	10	1	1	10
Carpal/tarsal	1	5.88	8.4	3.44	1	9.09	0.05	10	1	1	1	100
Metacarpal	1	5.88	10.68	4.37	1	9.09	0.5	100	8	1	1	12.5
Metatarsal	1	5.88	32.45	13.29	1	9.09	0.5	100	8	2	1	12.5
Metapodia	4	23.52	31.91	13.07	-	-	-	-	8	4	1	12.5
Phalanx I	1	5.88	27.87	11.41	1	9.09	0.125	25	3	3	3	100
Phalanx II	1	5.88	13.25	5.42	1	9.09	0.125	25	3	3	3	100
Total	17	100	244.12	100	11	100						

Table A.4.208. Skeletal elements and rate of fragmentation.

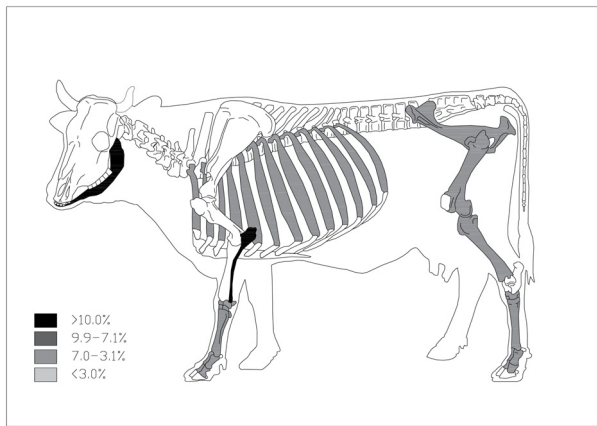


Fig. A.4.103a. Skeletal elements according to %NISP.

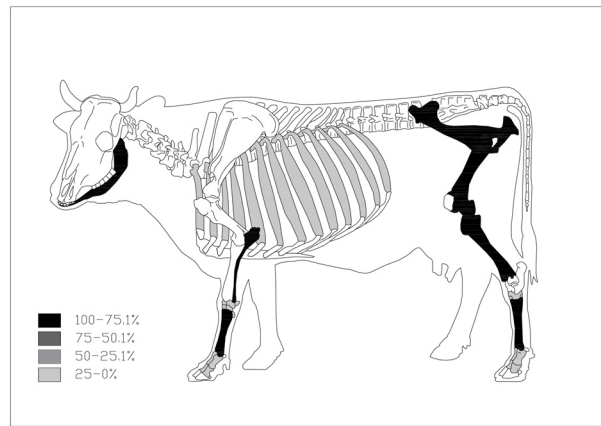


Fig. A.4.103b. Skeletal elements according to %MAU.

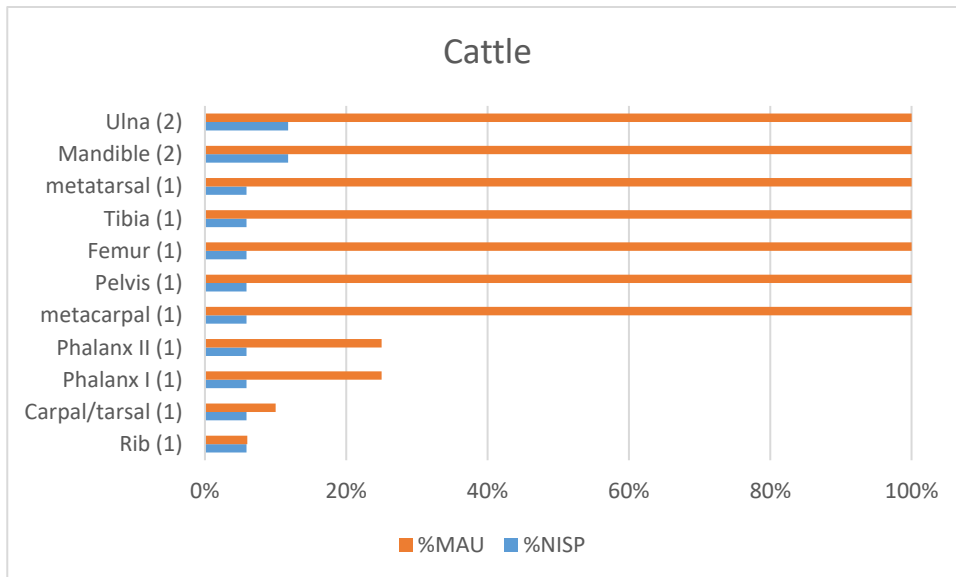


Fig. A.4.104. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements deriving from the fore and hind foot provide the highest proportion of meat contributions but considering the relationship between the weight of these skeletal elements and the meat they provide, they should not be seen as consumption items because they are usually discarded in the early stages of the quartering process. Under such circumstances, the elements deriving from the hindlimb, mainly the femur with a high meat content, constitute the main meat contributors followed by the forelimb, which is represented by medium meat yield elements (table A.4.209, A.4.210, fig. A.4.105).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	24.97	0.332	0.166	10.20
Total cranial	24.97	0.332	0.166	10.20
Rib	20.69	0.275	0.137	8.42
Total axial	20.69	0.275	0.137	8.42
Ulna	32.19	0.429	0.214	13.15
Total forelimb	32.19	0.429	0.214	13.15
Metacarpal	10.68	0.142	0.071	4.36
Total forefoot	10.68	0.142	0.071	4.36
Pelvis	4.44	0.059	0.029	1.78
Femur	28.08	0.374	0.187	11.49
Tibia	9.19	0.122	0.061	3.74
Total hindlimb	41.47	0.552	0.276	16.96
Metatarsal	32.45	0.432	0.216	13.27
Total hindfoot	32.45	0.432	0.216	13.27
Carpal/tarsal	8.4	0.112	0.056	3.44
Metapodia	31.91	0.425	0.212	13.03
Phalanx I	27.87	0.371	0.185	11.37
Phalanx II	13.25	0.176	0.088	5.40
Total foot	81.43	1.085	0.500	30.73
Total	244.12	3.254	1.627	100

Table A.4.209. Meat supply according to skeletal elements

Meat value	Cranial (g)	Axial (g)	Fore-limb (g)	Fore-foot (g)	Hind-limb (g)	Hind-foot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	10.68	-	32.45	81.43	124.56	1.660	0.830	51.01
Medium	24.97	20.69	32.19	-	9.19	-	-	87.04	1.160	0.580	35.64
High	-	-	-	-	32.52	-	-	32.52	0.433	0.216	13.27
Total	24.97	20.69	32.19	10.68	41.71	32.45	81.43	244.12	3.254	1.627	100

Table A.4.210. Meat quality distribution.

Sex and Age

The epiphyseal fusion data indicate that this is a subadult-adult individual older than 24 months. It has not been possible to establish sex differences due to the lack of pertinent anatomical elements. Likewise, it has not been possible to calculate the mean height at the withers due to the lack of complete bones (*table A.4.211*). Due to the poor state of conservation of the sample, the only measurements available are the following:

Element	GL	SD	Bp	Bd
Phalanx I	56.87	25.65	30.28	31.05
Phalanx II	34.54	27.36	21.26	21.99

Table A.4.211. Measurements.

Caprines

Skeletal Representation

According to the study of the skeletal representation of remains identified as caprines, the best represented anatomical parts correspond to the forelimb, hindlimb and hind foot (*table A.4.212, fig. A.4.106*). The remaining anatomical parts are under-represented with respect to a standard skeleton.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	-	-	-	32	15.68	2.75	-2.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	-	-	-	38	18.62	2.92	-2.92
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	-	-	-	2	0.98	-0.01	0.01
Humerus	-	-	-	2	0.98	-0.01	0.01
Radio	1	20	2.99	2	0.98	-0.01	3.00
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	1	20	2.99	8	3.92	1.36	1.63
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	1	20	2.99	2	0.98	-0.01	3.00
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	1	20	2.99	10	4.90	1.58	1.41
Calcaneus	3	60	4.09	2	0.98	-0.01	4.10
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	3	60	4.09	12	5.88	1.77	2.32
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	5	100	4.60	204	100	4.60	0

Table A.4.212. Skeletal representation in caprines from level 21.

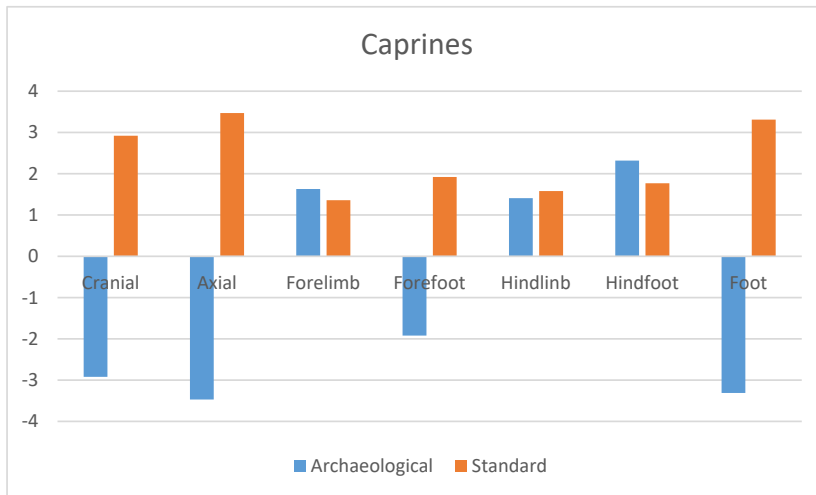


Fig. A.4.106. Skeletal representation in caprines.

Skeletal Representation

Based on the %MAU, the calcaneus is the best represented element followed by the radius, pelvis and metapodia. According to the percentage of completeness, pelvis and radius exhibit a higher rate of fragmentation in relation to remaining identified elements (*table A.4.213, fig. A.4.107a, A.4.107b, A.4.108*).

Skeletal elements	NISP	%	Weight (g)	%	MNE	MAU	%	PD	PP	PP/NISP	%CN
Radius	1	14.28	3.5	19.17	1	0.5	33.33	10	1	1	10
Pelvis	1	14.28	3,06	16.76	1	0.5	33.33	12	1	1	8.33
Calcaneous	3	42.85	8,99	49.26	3	1.5	100	5	5	1.66	33.2
Metapodia	2	28.57	2,7	14.79	1	0.25	16.66	8	5	2.5	31.25
Total	7	100	18.25	100	6						

Table A.4.213. Skeletal elements and rate of fragmentation.

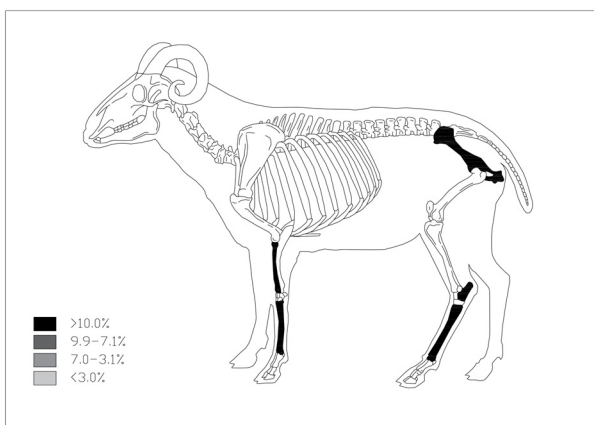


Fig. A.4.107a. Skeletal elements according to %NISP.

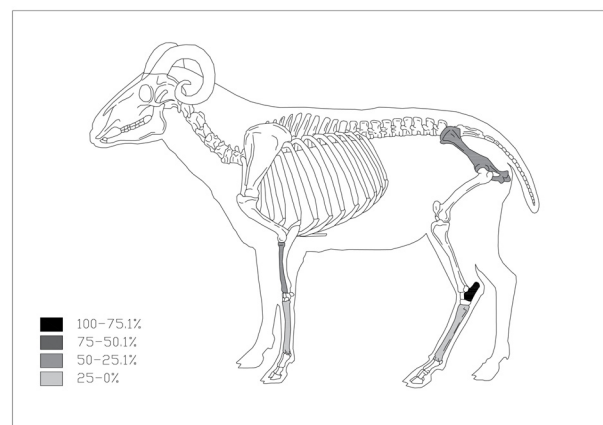


Fig. A.4.107b. Skeletal elements according to %MAU.

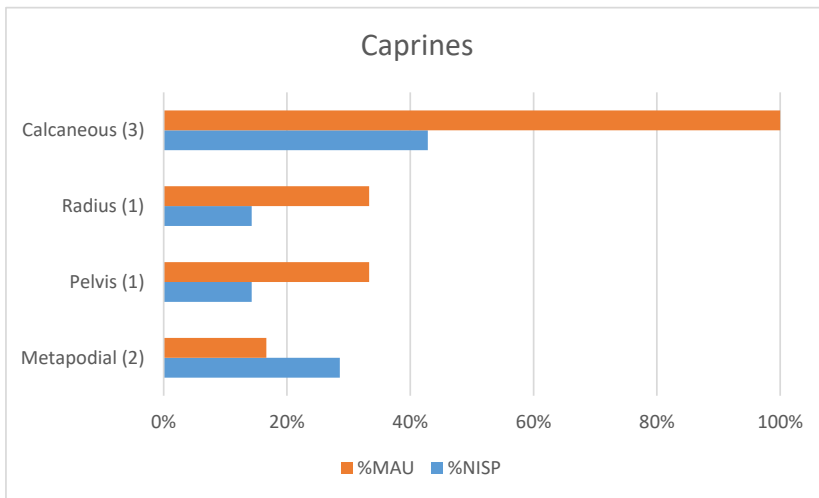


Fig. A.4.108. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements located on the fore and hind foot contribute with the highest proportion of meat, but again, if the relationship between the weight of these represent and the low meat yield they provide is considered, they should not be considered elements of consumption, also because they are often discarded in the early stages of the quartering process. In those circumstances, medium meat yield elements from the forelimb followed by high meat yield elements from the hind quarters, in particular pelvis, constitute the main meat contributors (table A.4.214, A.4.215, fig. A.4.109).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Radius	3.5	0.046	0.023	19
Total forelimb	3.5	0.046	0.023	19
Pelvis	3.06	0.040	0.020	16.52
Total hindlimb	3.06	0.040	0.020	16.52
Calcaneus	8.99	0.119	0.059	48.76
Metapodia	2.7	0.036	0.018	14.87
Total foot	11.69	0.155	0.077	63.63
Total	18.25	0.243	0.121	100

Table A.4.214. Meat supply according to skeletal elements.

Meat value	Forelimb (g)	Hindlimb (g)	Hindfoot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	8.99	2.7	11.69	0.155	0.077	63.63
Medium	3.5	-	-	-	3.5	0.046	0.023	19
High	-	3.06	-	-	3.06	0.040	0.020	16.52
Total	3.5	3.06	8.99	2.7	18.25	0.243	0.121	100

Table A.4.215. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveal two subadult/adult individuals, one slaughtered when above 30 months and the other one before reaching 30 months. It has not been possible to establish sex differences due to a lack of the pertinent anatomical elements. Likewise, it was not possible to estimate mean height at the withers due to the lack of complete bones.

Pigs**Skeletal Representation**

Skeletal representation of pigs reveals forelimb to be over-represented when compared to a standard skeleton. All remaining categories are under-represented. Upper hindlimb elements follow forelimb and are followed, in turn, by hind foot and foot (*table A.4.216, fig. A.4.110*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	-	-	-	2	0.68	-0.37	0.37
Teeth	-	-	-	44	15.17	2.71	-2.71
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	-	-	-	48	16.55	2.80	-2.80
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	1	11.11	2.40	2	0.68	-0.37	2.77
Humerus	3	33.33	3.50	2	0.68	-0.37	3.87
Radius	1	11.11	2.40	2	0.68	-0.37	2.77
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	5	55.55	4.01	8	2.75	1.01	3.00
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	-	-	-	8	2.75	1.01	-1.01
Total forefoot	-	-	-	24	8.27	2.11	-2.11
Pelvis	1	11.11	2.40	2	0.68	-0.37	2.77
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	1	11.11	2.40	10	3.44	1.23	1.17
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	1	11.11	2.40	8	2.75	1.01	1.39
Total hindfoot	1	11.11	2.40	26	8.96	2.19	0.21
Phalanx I	2	22.22	3.10	16	5.51	1.70	1.40
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	2	22.22	3.10	88	30.34	3.41	-0.31
Total	9	100	4.60	290	100	4.60	0

Table A.4.216. Skeletal representation in pigs from level 21.

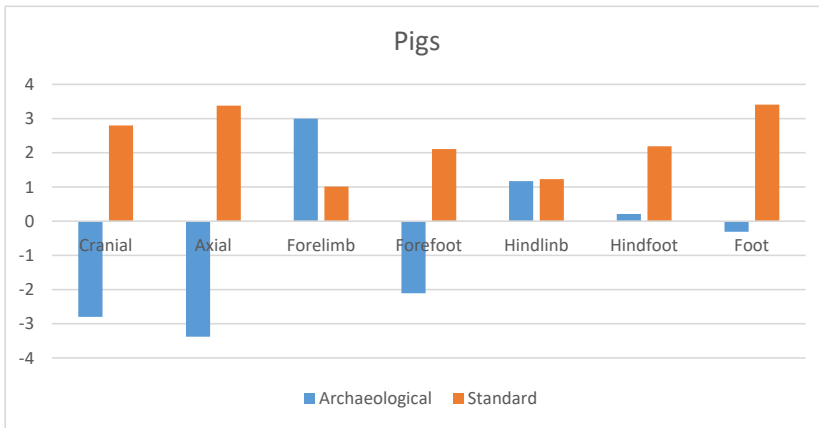


Fig. A.4.110. Skeletal representation in pigs.

Skeletal Representation

Based on the %MAU, elements from the fore and hindlimb are best represented followed by metatarsal and phalanx I (table A.4.217, fig. A.4.111a, A.4.111b, A.4.112). Pelvis and humerus exhibit a higher fragmentation rate when compared to the remaining anatomical categories.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Pelvis	1	11.11	14.9	35.38	1	14.28	0.5	100	12	1	1	8.33
Scapula	1	11.11	2.68	6.36	1	14.28	0.5	100	9	2	2	22.22
Humerus	3	33.33	13.05	30.99	1	14.28	0.5	100	11	3	1	9.09
Radius	1	11.11	4.95	11.75	1	14.28	0.5	100	10	3	3	30
Metatarsal	1	11.11	2.97	7.05	1	14.28	0.125	25	3	2	2	66.66
Phalanx I	2	22.22	3.56	8.45	2	28.57	0.125	25	3	5	2.5	83.33
Total	9	100	42.11	100	7	100						

Table A.4.217. Skeletal elements and rate of fragmentation.

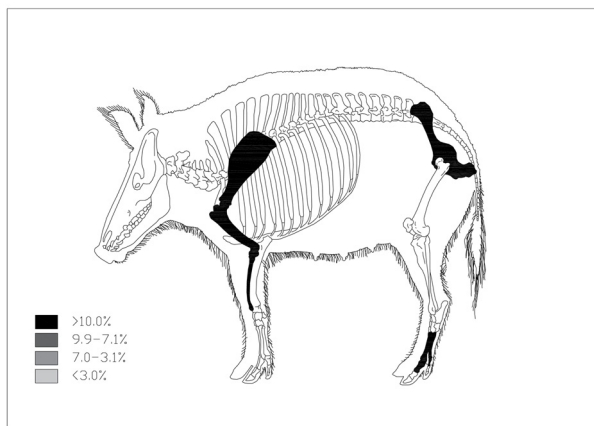


Fig. A.4.111a. Skeletal elements according to %NISP.

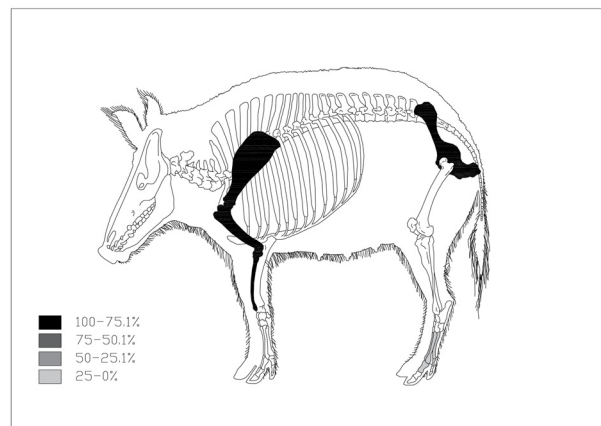


Fig. A.4.111b. Skeletal elements according to %MAU.

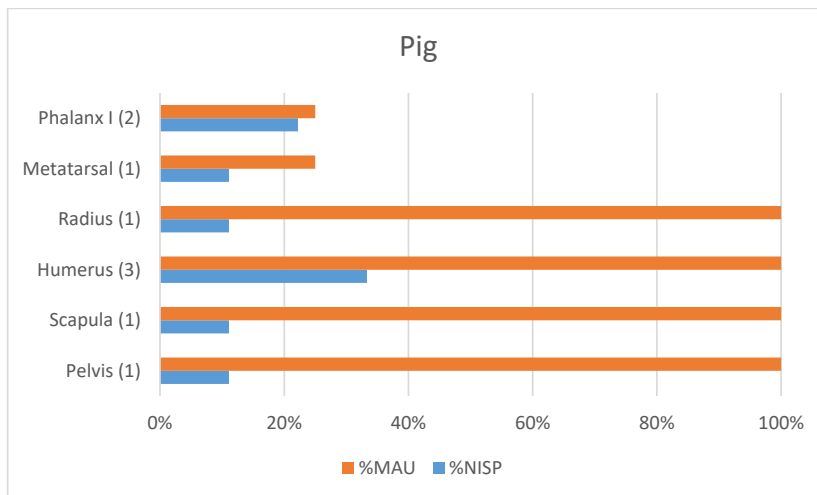


Fig. A.4.112. Skeletal elements according to %NISP and %MAU.

Meat Supply

Skeletal elements deriving from the appendicular skeleton, the forelimb provided the highest meat contributions (*table A.4.218, A.4.219, fig. A.4.113*). In both cases, fore and hindlimb, there is a predominance of the high-meat yield elements followed by medium yield ones in the case of the forelimb.

Skeletal element	Weight (g)	Total meat weight (kg)	Edible meat (kg)	%
Scapula	2.68	0.035	0.017	6.07
Humerus	13.05	0.174	0.087	31.07
Radius	4.95	0.066	0.033	11.78
Total forelimb	20.68	0.275	0.137	48.92
Pelvis	14.9	0.198	0.099	35.35
Total hindlimb	14.9	0.198	0.099	35.35
Metatarsal	2.97	0.039	0.019	6.78
Total hindfoot	2.97	0.039	0.019	6.78
Phalanx I	3.56	0.047	0.023	8.21
Total foot	3.56	0.047	0.023	8.21
Total	42.11	0.561	0.280	100

Table A.4.218. Meat supply according to skeletal elements.

Meat value	Forelimb (g)	Hindlimb (g)	Hindfoot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	2.97	3.56	6.53	0.087	0.043	15.35
Medium	4.95	-	-	-	4.95	0.066	0.033	11.78
High	15.73	14.9	-	-	30.63	0.408	0.204	72.85
Total	20.68	14.9	2.97	3.56	42.11	0.561	0.280	100

Table A.4.219. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveal one individual to have been slaughtered between 24 and 42 months (i.e. subadult/adult). A second individual was below 24 months (juvenile/subadult). It was not possible to establish sex differences due to a lack of the pertinent anatomical elements. Likewise, it was not possible to calculate the mean height at the withers due to the absence of complete bones.

A.4.2.1.b Structure 24: Level 29

Eleven remains comprise the faunal collection. Considering that most were assigned to indeterminate categories the proportion of unidentified remains is high (*table A.4.220*). The level of conservation of the faunal assemblage is poor, featuring a high fragmentation.

	NISP	%	MNI	%	Weight (g)	%
Identified	2	18.18	2	66.66	11.3	30.77
Unidentified	9	81.81	1	33.33	25.42	69.22
Total	11	100	3	100	36.72	100

Table A.4.220. Faunal remains from level 29.

Identified Fragments

Domestic faunas dominate an assemblage where cattle constitute the main taxon (*table A.4.221*).

	NISP	%	MNI	%	Weight (g)	%	NISP Total/NISP taxon	NISP/MNI
Cattle	1	50	1	33.33	10.41	92.12	2	1
Lagomorpha	1	50	1	33.33	0.89	7.87	2	1
Total identified	2	100	2	66.66	11.3	100	0	1

Table A.4.221. Results of the zooarchaeological analysis from level 29 at structure 24 from Ronda del Cenecero (Carmona) including NISP, MNI and weight.

Unidentified Fragments

Size 3 fragments correspond to the appendicular skeleton. Since only cattle fragments have been documented, it can be assumed that those elements correspond to this taxon. In the case of size 2 fragments, there is a predominance of fragments from the appendicular and axial skeleton (*table A.4.222*).

	NISP	%	MNI	%	Weight (g)	%
Size 3	6	66.66			19.27	75.80
Size 2	3	33.33	1	33.33	6.15	24.19
Total unidentified	9	100	1	33.33	25.42	100

Table A.4.222. Unidentified fragments from level 29.

Cattle

Skeletal Representation

According to the study of the skeletal representation carried out on remains identified as bovid, all anatomical parts are under-represented with respect to the standard skeleton. Foot elements are the anatomical parts best represented (*table A.4.223, fig. A.4.114*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	1	100	4.60	8	3.86	1.35	3.25
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	1	100	4.60	50	24.15	3.18	1.42
Total	1	100	4.60	207	100	4.60	0

Table A.4.223. Skeletal representation in cattle from level 29.

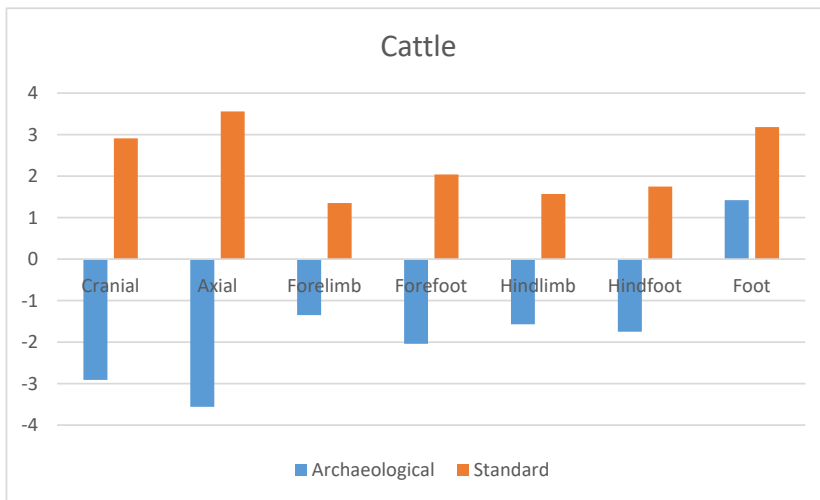


Fig. A.4.114. Skeletal representation in cattle.

Skeletal Representation

A single phalanx I was documented (table A.4.224).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Phalanx III	1	100	10.41	100	1	100	0.125	100	3	5	2.5	83.33
Total	1	100	10.41	100	1	100	0.125	100				

Table A.4.224. Skeletal elements and rate of fragmentation.

Meat Supply

Low meat yield elements from the foot provided all meat but it must be considered that they are elements not used in meat consumption (table A.4.225, A.4.226).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Phalanx III	10.41	0.138	0.069	100
Total	10.41	0.138	0.069	100

Table A.4.225. Meat supply according to skeletal elements.

Meat value	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	10.41	10.41	0.138	0.069	100
Medium	-	-	-	-	-
High	-	-	-	-	-
Total	10.41	10.41	0.138	0.069	100

Table A.4.226. Meat quality distribution.

Sex and Age

Phalanxes do not allow one to specify age or sex except loosely in terms of size (i.e. adult). Likewise, it has not been possible to calculate the mean height at the withers due to the poor state of conservation of the bones.

A.4.2.1.c Structure 24: Level 22

24 faunal remains comprise the collection. Considering that most were assigned to indeterminate categories the proportion of unidentified remains is quite high (table A.4.227). The level of conservation of the faunal assemblage is poor and fragmentation extensive.

	NISP	%	Weight (g)	%
Identified	7	29.16	167.3	81.14
Unidentified	17	70.83	38.88	18.85
Total	24	100	206.18	100

Table A.4.227. Faunal remains from level 22.

Identified Fragments

Domestic faunas dominate an assemblage where cattle constitute the main taxon and caprines take second position followed by dog (table A.4.228).

	NISP	%NISP	MNI	%MNI	Weight (g)	%Weight
Cattle	3	42.85	1	33.33	145.68	87.07
Caprine	3	42.85	1	33.33	18.28	10.92
<i>Canis familiaris</i>	1	14.28	1	33.33	3.34	1.99
Total identified	7	100	3	100	167.3	100

Table A.4.228. Results of the zooarchaeological analysis from level 22 at structure 24 from Ronda del Cenice-ro (Carmona) including NISP, MNI and weight.

Unidentified Fragments

Size 3 fragments correspond to elements from the skull. Since only cattle have been documented, it can be assumed that these correspond to this taxon. In the case of size 2 fragments, there is a predominance of fragments from the appendicular skeleton and a low proportion of elements from the axial skeleton (table A.4.229).

	NISP	%	Weight (g)	%
Size 3	8	47.06	22.11	56.86
Size 2	4	23.52	13.15	33.82
Unidentified	5	29.41	3.62	9.31
Total unidentified	17	100	38.88	100

Table A.4.229. Unidentified fragments from level 22.

Cattle

Skeletal Representation

In terms of skeletal representation, there is an over-representation of forelimb and hindlimb elements in relation to a standard skeleton (*table A.4.230, fig. A.4.115*). Other anatomical parts are missing.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	3.56
Scapula	1	33.33	3.50	2	0.96	-0.03	3.53
Humerus				2	0.96	-0.03	0.03
Radius				2	0.96	-0.03	0.03
Ulna	1	33.33	3.50	2	0.96	-0.03	3.53
Total forelimb	2	66.66	4.19	8	3.86	1.35	2.84
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	1	33.33	3.50	2	0.96	-0.03	3.53
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	1	33.33	3.50	10	4.83	1.57	1.93
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	3	100	4.90	207	100	4.90	0

Table A.4.230. Skeletal representation in cattle from level 22.

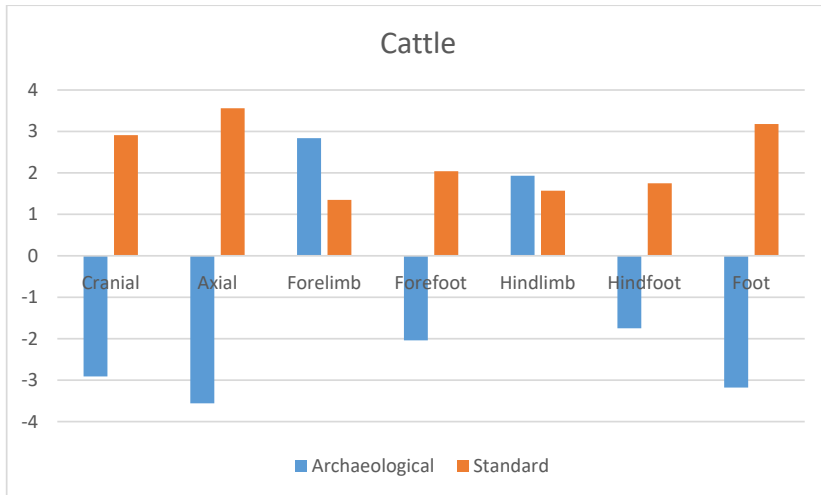


Fig. A.4.115. Skeletal representation in cattle.

Skeletal Elements

Three fragments, corresponding to a scapula, an ulna and a femur were identified as *Bos taurus*. According to the percentage of completeness, ulna and femur exhibit a higher rate of fragmentation in relation to the remaining elements (table A.4.231, fig. A.4.116, A.4.117).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Scapula	1	33.33	55.42	38.04	1	33.33	0.5	100	9	3	3	33.33
Ulna	1	33.33	15.86	10.88	1	33.33	0.5	100	9	1	1	11.11
Femur	1	33.33	74.4	51.07	1	33.33	0.5	100	11	2	2	18.18
Total	3	100	145.68	100	3	100						

Table A.4.231. Skeletal elements and rate of fragmentation.

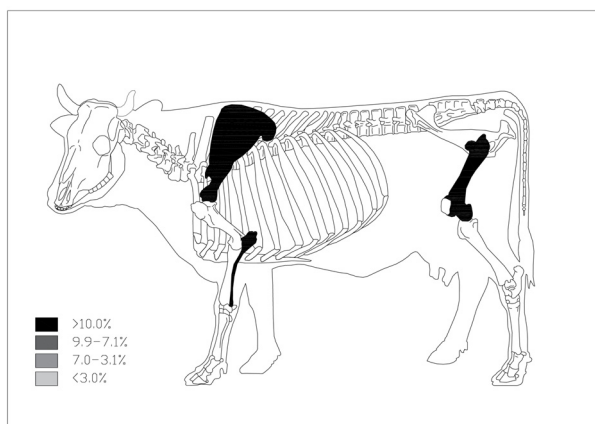


Fig. A.4.116. Skeletal elements according to %NISP.

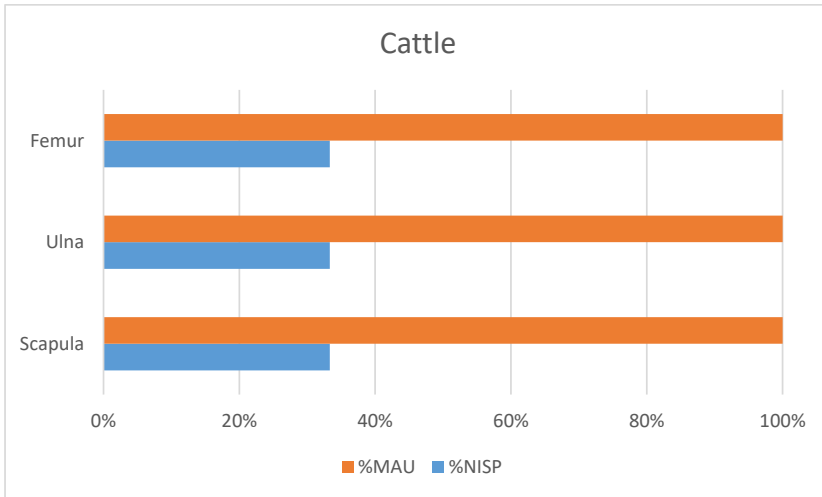


Fig. A.4.117. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements deriving from the fore and hindlimb, in particular the femur and scapula, provided the highest meat contributions followed by ulna, a medium input element (table A.4.232, A.4.233).

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Scapula	55.42	0.738	0.369	38
Ulna	15.86	0.211	0.105	10.81
Total forelimb	71.28	0.950	0.475	48.91
Femur	74.4	0.992	0.496	51.08
Total hindlimb	74.4	0.992	0.496	51.08
Total	145.68	1.942	0.971	100

Table A.4.232. Meat supply according to skeletal elements.

Meat value	Forelimb (g)	Hindlimb (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	-	-	-
Medium	-	-	-	-	-	-
High	71.28	74.4	145.68	1.942	0.971	100
Total	71.28	74.4	145.68	1.942	0.971	100

Table A.4.233. Meat quality.

Age and Sex

Epiphyseal fusion data reveal an adult above 48 months. Lack of metapodia did not allow us to estimate the sex based on distal widths. Likewise, mean height at the withers is impossible to estimate due to a lack of complete bones. Only one scapula could be measured (table A.4.234).

Element	GLP	LG	BG
Scapula	67.74	58.56	50.6

Table A.4.234. Measurements.

Caprines

Skeletal Representation

Skeletal representation of caprines records an over-representation of the forelimb elements in relation to a standard skeleton (*table A.4.235, fig. A.4.118*). Remaining anatomical portions are under-represented.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	-	-	-	32	15.68	2.75	-2.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	-	-	-	38	18.62	2.92	-2.92
Vertebrae	2	66.66	4.19	38	18.62	2.62	1.57
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	2	66.66	4.19	66	32.35	3.47	0.72
Scapula	-	-	-	2	0.98	-0.01	0.01
Humerus	-	-	-	2	0.98	-0.01	0.01
Radius	1	33.33	3.50	2	0.98	-0.01	3.51
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	1	33.33	3.50	8	3.92	1.36	2.14
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	-	-	-	10	4.90	1.58	-1.58
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	3	100	4.90	204	100	4.60	0

Table A.4.235. Skeletal representation in caprines from level 22.

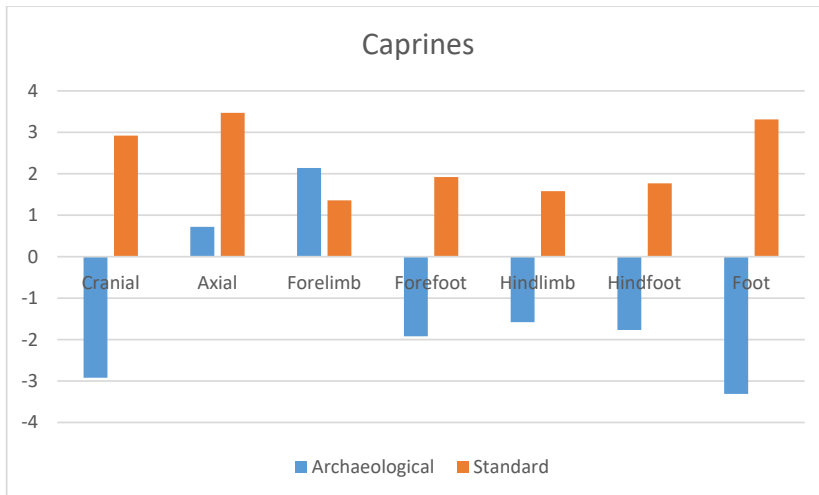


Fig. A.4.118. Skeletal representation in caprines.

Skeletal Elements

Only radius and vertebrae were recognized as caprines (*table A.4.236, fig. A.4.119a, 4.119b, A.4.120*). All fragments from the identified skeletal elements are represented by a single bone. Based on %MAU, radius is the best represented element followed by vertebrae.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Radius	1	33.33	5.59	30.57	1	50	0.5	100	10	5	5	50
Vertebrae	2	66.66	12.69	69.42	1	50	0.026	5.26				
Total	3	100	18.28	100	2	100						

Table A.4.236. Skeletal elements and rate of fragmentation.

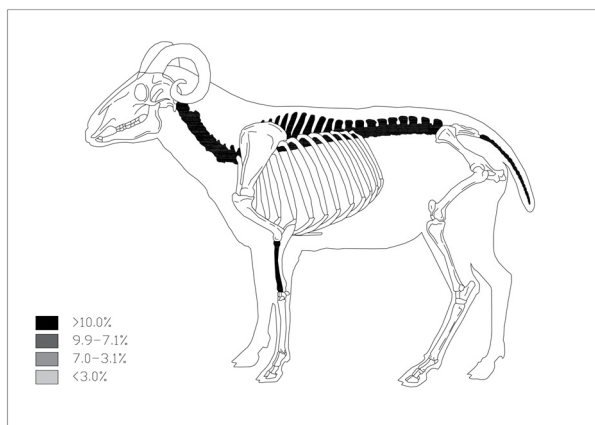


Fig. A.4.119a. Skeletal elements according to %NISP.

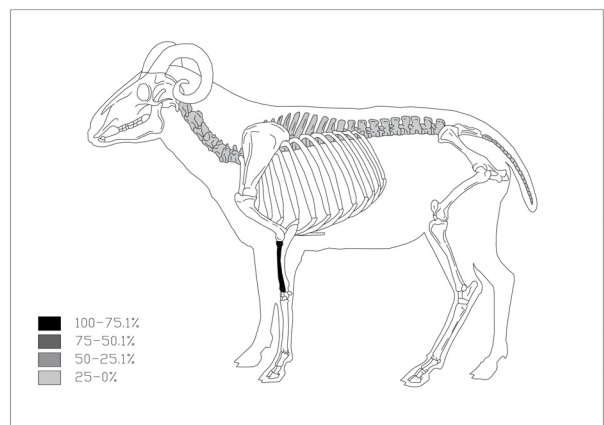


Fig. A.4.119b. Skeletal elements according to %MAU.

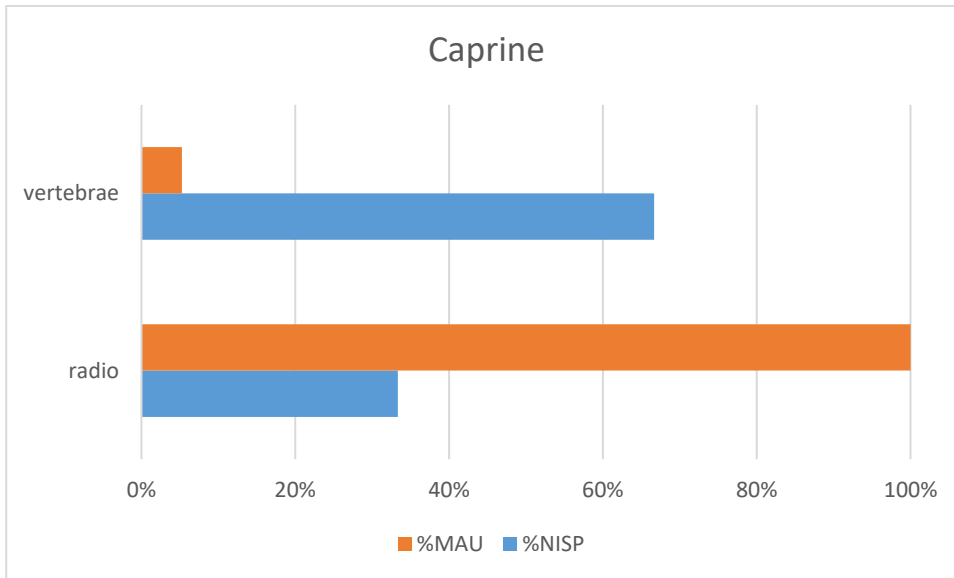


Fig. A.4.120. Skeletal elements according to %NISP and %MAU.

Meat Supply

Axial skeleton is the main meat provider followed by the forelimb (table A.4.237, A.4.238, fig. A.4.121). The elements are mostly vertebrae and radius, with high and medium meat yield, respectively.

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Vertebrae	12.69	0.169	0.084	69.42
Total axial	12.69	0.169	0.084	69.42
Radius	5.59	0.078	0.039	32.23
Total forelimb	5.59	0.078	0.039	32.23
Total	18.28	0.243	0.121	100

Table A.4.237. Meat supply according to skeletal elements.

Meat value	Axial (g)	Forelimb (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	-	-	-
Medium	-	5.59	5.59	0.078	0.039	32.23
High	12.69	-	12.69	0.169	0.084	69.42
Total	12.69	5.59	18.28	0.243	0.121	100

Table A.4.238. Meat quality distribution.

Age and Sex

Epiphyseal fusion data indicate the presence of a subadult/adult below 42 months. It has not been possible to determine the sex due to a lack of the pertinent skeletal elements. Likewise, it has not been possible to calculate mean height at the withers due to lack of complete bones.

A.4.2.2 Structure 55

A.4.2.2.a Structure 55: Level 56

15 faunal remains were found. The proportion of unidentified bones is high when one considers that most were assigned to indeterminate categories (*table A.4.239*). The level of conservation is poor, exhibiting an intensive fragmentation as well as evidence of weathering in some that could indicate a different origin for a part of the sample that reached this deposit.

	NISP	%	Weight (g)	%
Identified	4	26.66	21.57	30.40
Unidentified	11	73.33	49.38	69.59
Total	15	100	70.95	100

Table A.4.239. Faunal remains from level 56.

Identified Fragments

Only domesticated animals were recognised, pigs being apparently more frequent than cattle (*table A.4.240*).

	NISP	%	MNI	%	Weight (g)	%
Cattle	1	25	1	50	14.32	66.38
Pig	3	75	1	50	7.25	33.62
Total identified	4	100	2	100	21.57	100

Table A.4.240. Results of the zooarchaeological analysis from level 56 at structure 55 from Ronda del Cenice-ro (Carmona) including NISP, MNI and weight.

Unidentified Fragments

Since only one cattle and pig are documented, it can be assumed that elements recorded as size 3 and size 2 correspond to these two species. Size 3 fragments correspond to elements from the appendicular skeleton (*table A.4.241*). In the case of size 2 fragments, there is also a predominance of fragments from the appendicular skeleton.

	NISP	%	Weight (g)	%
Size 3	3	27.27	32.91	66.64
Size 2	8	72.72	16.47	33.35
Total unidentified	11	100	49.38	100

Table A.4.241. Unidentified fragments from level 56.

Cattle

Skeletal Representation

According to the skeletal representation study, there is an over-representation of hind foot (metatarsals) with respect to a standard skeleton (*table A.4.242, fig. A.4.122*). The remaining anatomical parts are under-represented.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	-	-	-	38	18.35	2.91	-2.91
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	1	100	4.60	2	0.96	-0.03	4.63
Total hindfoot	1	100	4.60	12	5.79	1.75	2.85
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-1.35
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	1	100	4.60	207	100	4.60	0

Table A.4.242. Skeletal representation in cattle from level 56.

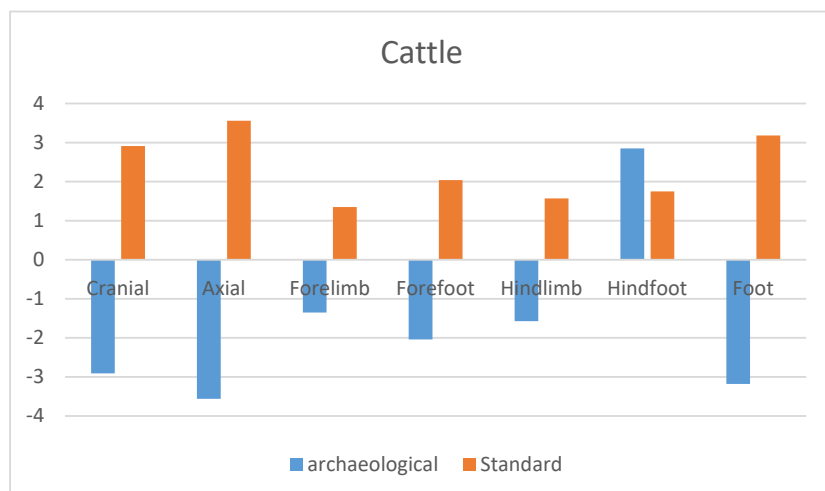


Fig. A.4.122. Skeletal representation in cattle.

Skeletal Representation

Only one metatarsal was documented. Since only one cattle and pig were documented, it can be assumed that the elements recorded as size 3 individual correspond to cattle (*table A.4.243*). According to the percentage completeness, the metatarsal exhibits a high rate of fragmentation.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Metatarsal	1	100	14.32	100	1	100	0.5	100	8	1	1	12.5
Total	1	100	14.32	100	1	100						

Table A.4.243. Skeletal elements and rate of fragmentation.

Meat Supply

Hind foot elements are the sole meat contributors (*table A.4.244, A.4.245*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Metatarsal	14.32	0.190	0.095	100
Total	14.32	0.190	0.095	100

Table A.4.244. Meat supply according to skeletal elements.

Meat quality	Hindfoot (g)	Total (g)	Total meat weight (kg)	Edible meat (kg)	%
Low	14.32	14.32	0.190	0.095	100
Medium	-	-	-	-	-
High	-	-	-	-	-
Total	14.32	14.32	0.190	0.095	100

Table A.4.245. Meat quality distribution.

Age, Sex and Size

Due to the poor state of conservation, it has not been possible to establish age estimations and sex differences based on the distal width of the metatarsal. Lack of complete bones did not allow estimation of height at the withers.

Pig**Skeletal Representation**

Skeletal spectra reveal an over-representation of hind foot elements with respect to a standard skeleton. The remaining anatomical portions are under-represented (*table A.4.246, fig. A.4.123*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	-	-	-	2	0.68	-0.37	0.37
Teeth	-	-	-	44	15.17	2.71	-2.71
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	-	-	-	48	16.55	2.80	-2.80
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.26
Sacro	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	-	-	-	2	0.68	-0.37	0.37
Humerus	-	-	-	2	0.68	-0.37	0.37
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	-	-	-	8	2.75	1.01	-1.01
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	-	-	-	8	2.75	1.01	-1.01
Total forefoot	-	-	-	24	8.27	2.11	-2.11
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	-	-	-	10	3.44	1.23	-1.23
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	1	100	4.60	8	2.75	1.01	3.59
Total hindfoot	1	100	4.60	26	8.96	2.19	2.41
Phalanx I	-	-	-	16	5.51	1.70	-1.70
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.60
Total foot	-	-	-	88	30.34	3.41	-3.41
Total	1	100	4.60	290	100	4.60	0

Table A.4.246. Skeletal representation in pigs from level 56.

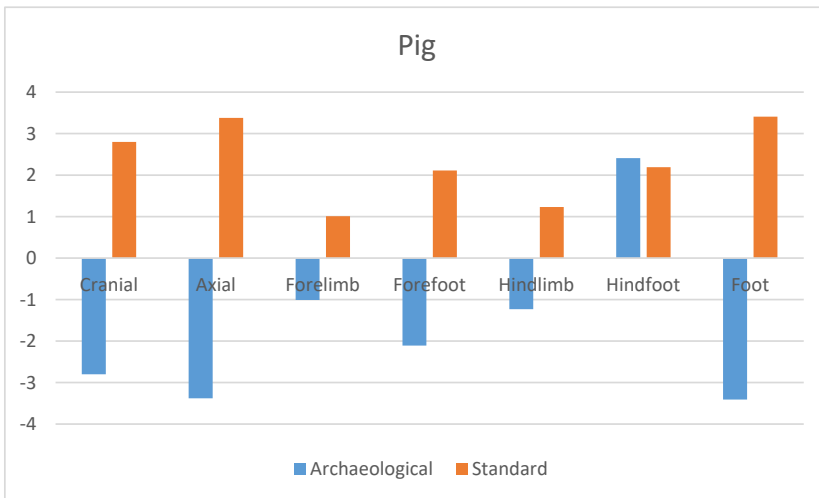


Fig. A.4.123. Skeletal representation in pigs.

Skeletal representation

Only three fragments could be identified as pig but since only cattle and pig have been documented, it can be assumed that elements recorded as size 2 correspond to pigs. Based on the %MAU, the metatarsal is the best element represented with 100%MAU followed by metapodia and phalanx (table A.4.203, fig. A.4.247). According to the percentage of completeness, metapodia exhibit a higher rate of fragmentation than the remaining elements.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Metatarsal	1	33.33	2.88	39.72	1	33.33	0.125	100	3	3	3	100
Metapodia	1	33.33	3.05	42.06	1	33.33	0.062	49.6	3	1	1	33.33
Phalanx	1	33.33	1.32	18.20	1	33.33	0.020	16	3	3	3	100
Total	3	100	7.25	100	3	100						

Table A.4.247. Skeletal elements and rate of fragmentation.

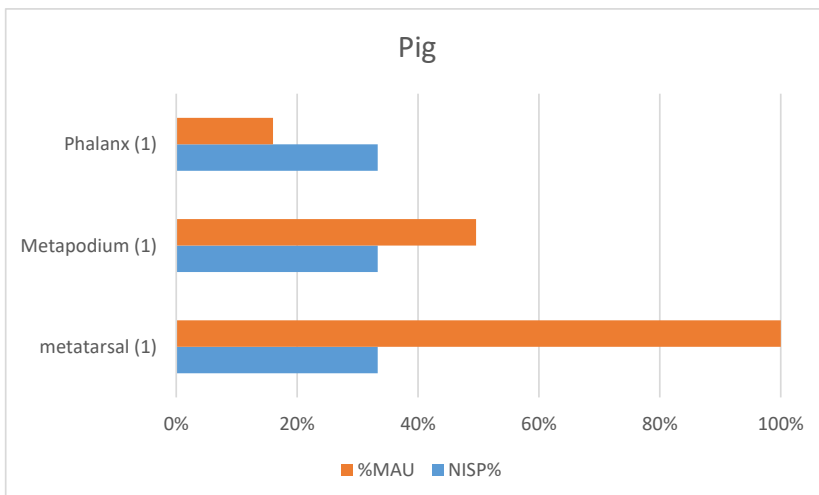


Fig. A.4.124. Skeletal elements according to %NISP and %MAU.

Meat Supply

Pig bones represent anatomical parts of low meat yield, probably associated with the initial steps of the quartering process (table A.4.248, A.4.248).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Metatarsal	2.88	0.0384	0.019	39.58
Metapodia	3.05	0.040	0.020	41.66
Phalanx	1.32	0.017	0.008	16.66
Total	7.25	0.096	0.048	100

Table A.4.248. Meat supply according to skeletal elements.

Meat value	HindFoot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	2.88	4.37	7.25	0.096	0.048	100
Medium	-	-	-	-	-	-
High	-	-	-	-	-	-
Total	2.88	4.37	7.25	0.096	0.048	100

Table A.4.249. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveals a subadult-adult pig above 24 months. It has not been possible to establish sex differences due to the lack of canines. Likewise, it has not been possible to estimate mean height at the withers due to lack of complete limb bones.

A.4.3 Valencia-Castilleja

A.4.3.1 Level 144

524 faunal remains comprise the collection. Considering that most were assigned to indeterminate categories the proportion of unidentified remains is quite high. The level of conservation of the faunal assemblage is quite deficient, presenting a high level of fragmentation (*table A.4.250*).

	NISP	%NISP	Weight	%Weight
Identified	45	8.58	162.1	28.64
Unidentified	479	91.41	403.88	71.35
Total	524	100	565.98	100

Table A.4.250. Faunal remains from level 144.

Identified Fragments

Domestic faunas dominate an assemblage where pigs constitute the main taxon and cattle take second position followed by caprines (*table A.4.251*).

Specie	NISP	%	MNI	%	Weight	%	NISP/MNI
Cattle	15	33.33	1	20	79.8	49.22	15
Pig	17	37.77	1	20	38.4	23.68	23.68
Caprine	7	15.55	2	40	42.2	26.03	8
Sheep	1	2.22					
Total domestic	40	88.88	4	80	160.04	98.72	13.33
Hare	5	11.11	1	20	1.7	1.04	5
Total wild	5	11.11	1	20	1.7	1.04	5
Total identified	45	100	5	100	162.1	100	11.25

Table A.4.251. Results of the zooarchaeological analysis from level 144 at Pabellon Cubierto (Valencina-Castilleja) including NISP, MNI and weight.

Unidentified Fragments

Fragments identified as size 2 correspond to fragments of an appendicular skeleton followed by axial and cranial fragments. In the case of size 3 fragments, there is a predominance of fragments from the appendicular skeleton and a low proportion of elements from the axial skeleton. Since only cattle have been documented, it can be assumed that those elements correspond to this taxon (*table A.4.252*).

Size	NISP	%	Weight	%
Size 3	18	3.75	64.3	15.92
Size 2	50	10.43	86.28	21.36
Size 1	1	0.20	0.1	0.02
Unidentified	410	85.59	253.2	62.69
Total unidentified	479	100	403.88	100

Table A.4.252. Unidentified fragments from level 144.

Cattle

Skeletal Representation

The skeletal representation study showed an overall under-representation with respect to a standard skeleton. The best represented anatomical portions correspond to the hindlimb followed by the elements deriving from the cranial skeleton and feet (*table A.4.253, fig. A.4.125*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	1	7.69	2.04	2	0.96	-0.03	2.07
Skull	5	38.46	3.64	1	0.48	-0.72	4.36
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	1	7.69	2.04	32	15.45	2.73	-0.69
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	7	53.84	3.98	38	18.35	2.91	1.07
Vertebrae	1	7.69	2.04	45	21.73	3.07	-1.03
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	1	7.69	2.04	73	35.26	3.56	-1.52
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	2	15.38	2.73	2	0.96	-0.03	2.76
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	2	15.38	2.73	10	4.83	1.57	1.16
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	3	23.07	3.13	8	3.86	1.35	1.78
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	3	23.07	3.13	50	24.15	3.18	-0.05
Total	13	100	4.60	207	100	4.60	0

Table A.4.253. Skeletal representation in cattle from level 144.

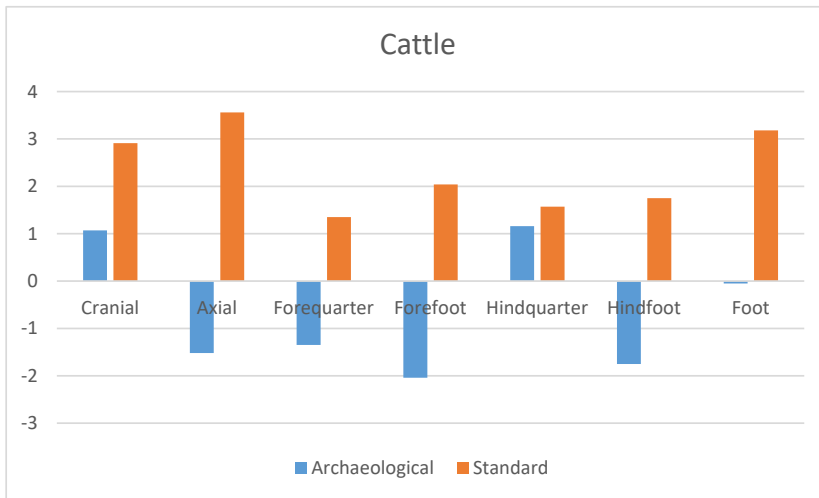


Fig. A.4.125. Skeletal representation in cattle.

Skeletal Elements

In terms of the %MAU, cranial and hindlimb elements are the best represented. Axial elements have a low representativeness. According to the completeness percentages, pelvis has a higher rate of fragmentation when compared to the rest of the identified anatomical elements (table A.4.254, fig. A.4.126a, A.4.126b, A.4.127).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Horn	1	7.14	1.1	1.47	1	11.11	0.5	50				
Skull	5	35.71	10.6	14.24	1	11.11	1	100				
Teeth	1	7.14	5.1	6.85	1	11.11	0.031	3.1	1	1	1	100
Vertebrae	1	7.14	2.9	3.89	1	11.11	0.022	2.2	2	1	1	50
Pelvis	2	14.28	27.7	37.23	2	22.22	1	100	12	2	1	8.33
Metapodia	1	7.14	2.1	2.82	1	11.11	0.25	25	8	2	2	25
Phalanx I	3	21.42	24.9	33.46	2	22.22	0.25	25	3	5	1.6	55.55
Total	14	100	74.4	100	9	100						

Table A.4.254. Skeletal elements and rate of fragmentation.

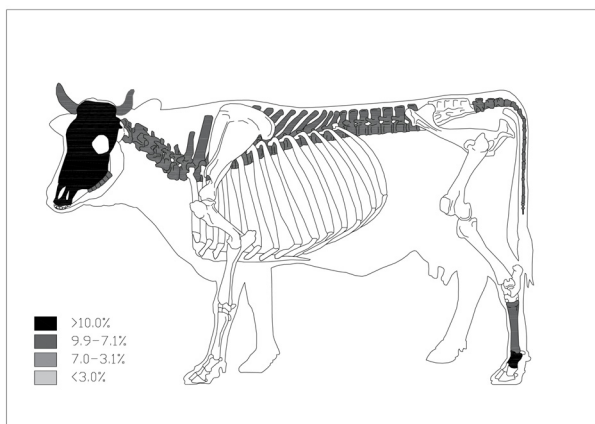


Fig. A.4.126a. Skeletal elements according to %NISP.

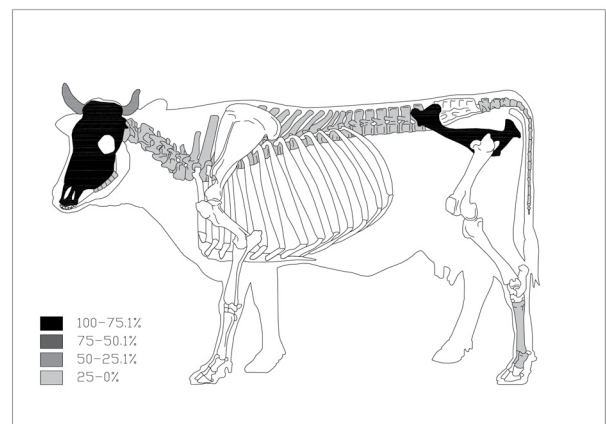


Fig. A.4.126b. Skeletal elements according to %MAU.

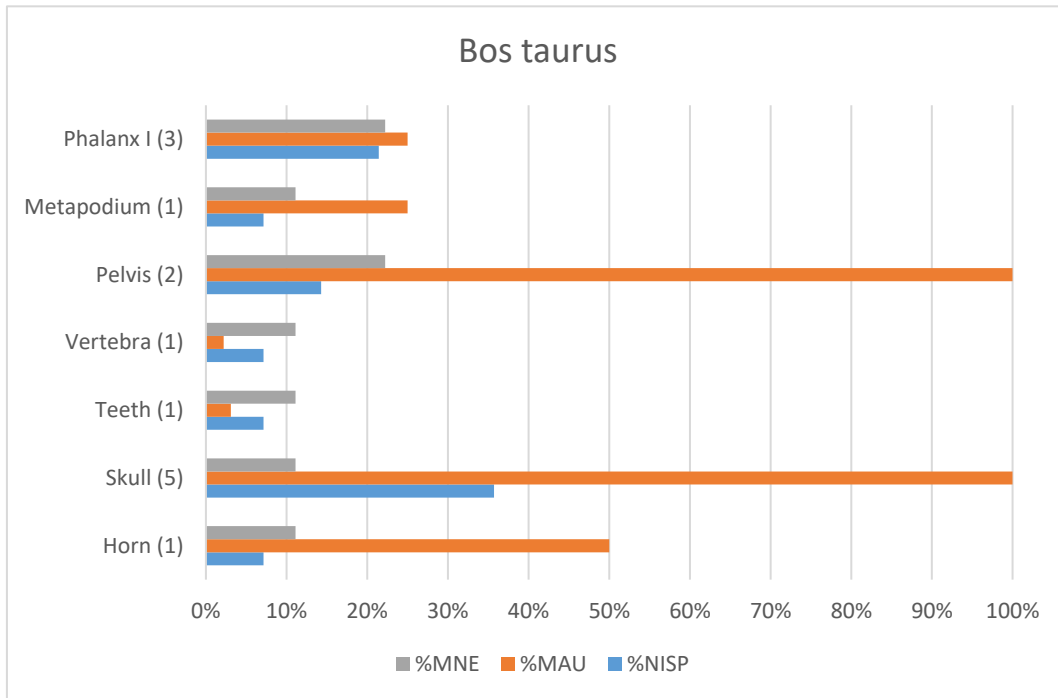


Fig. A.4.127. Skeletal elements according to %MNE %NISP and %MAU.

Meat Supply

Elements deriving from the hindlimb, in particular the high meat pelvis constituted the main meat provider. In the case of the sesamoids, combustion marks were detected (table A.4.255, A.4.256, fig. A.4.128).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	10.6	0.141	0.070	15.65
Total cranial	10.6	0.141	0.070	15.65
Vertebrae	2.9	0.038	0.019	4.25
Total axial	2.9	0.038	0.019	4.25
Pelvis	26.60	0.354	0.177	39.59
Total hindlimb	26.60	0.354	0.177	39.59
Metapodia	2.1	0.028	0.014	3.13
Phalanx I	24.9	0.332	0.166	37.13
Total foot	27	0.36	0.18	40.26
Total	67.1	0.894	0.447	100

Table A.4.255. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Axial (g)	Hindlimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	27	27	0.36	0.18	40.26
Medium	10.6	-	-	-	10.6	0.141	0.070	15.65
High	-	2.9	26.60	-	29.5	0.393	0.196	30.38
Total	10.6	2.9	26.60	27	67.1	0.894	0.447	100

Table A.4.256. Meat quality distribution.

Sex and Age

Epiphyseal fusion data indicate the bovid to be a subadult-adult individual above 24 months. It has not been possible to establish sex differences due to a lack of the pertinent anatomical elements. Likewise, it has not been possible to calculate mean height at the withers due to the lack of complete bones (*table A.4.257*).

Element	GL
Phalanx I	22.11

Table A.4.257. Measurements.

Caprines

Skeletal Representation

Skeletal representation reveals the best represented anatomical portions to correspond with the forelimb and hindlimb. The remaining anatomical portions are under-represented with respect to a standard skeleton. Considering the minimal representation of cranial, axial and foot elements of the size 2 group, the predominance of the appendicular skeleton is more striking (*table A.4.258, fig. A.4.129*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	1	7.69	2.04	2	0.96	-0.03	2.07
Skull	5	38.46	3.64	1	0.48	-0.72	4.36
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	1	7.69	2.04	32	15.45	2.73	-0.69
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	7	53.84	3.98	38	18.35	2.91	1.07
Vertebrae	1	7.69	2.04	45	21.73	3.07	-1.03
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	1	7.69	2.04	73	35.26	3.56	-1.52
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	2	15.38	2.73	2	0.96	-0.03	2.76
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	2	15.38	2.73	10	4.83	1.57	1.16
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	3	23.07	3.13	8	3.86	1.35	1.78
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	3	23.07	3.13	50	24.15	3.18	-0.05
Total	13	100	4.60	207	100	4.60	0

Table A.4.258. Skeletal representation in caprines from level 144.

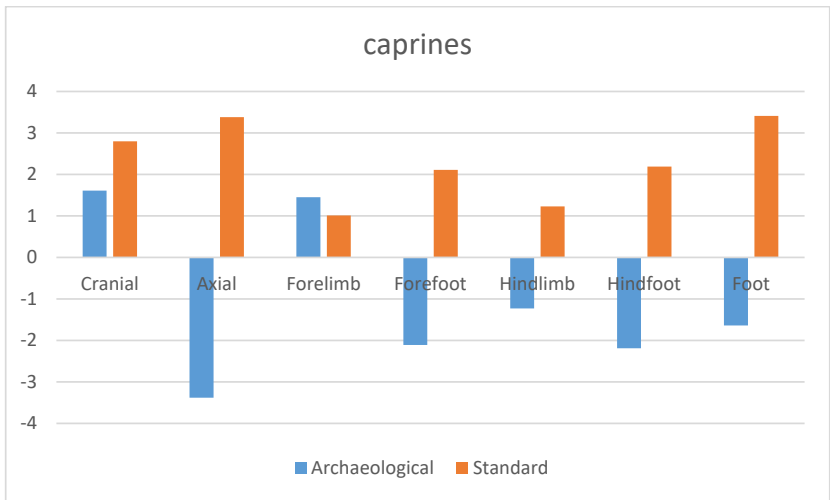


Fig. A.4.129. Skeletal representation in caprines.

Skeletal Elements

Seven fragments represent caprines of which one belongs to a sheep. According to %MAU mandible is the best represented anatomical element followed by the radius. The femur has a higher fragmentation rate when compared to the remaining anatomical categories. Fragmentation of the tibia and radius exhibit similar values (*table A.4.259, fig. A.4.130a, A.4.130b, A.4.131*).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Teeth	3	37.5	3.9	9.24	2	28.57	0.09	9		3		
Radius	2	25	14.2	33.64	2	28.57	1	100	10	4	2	50
Femur	1	12.5	3	7.10	1	14.28	0.5	50	11	1	1	9.09
Tibia	2	25	21.1	50	2	28.57	1	100	10	9	4.5	45
Total	8	100	42.2	100	7	100						

Table A.4.259. Skeletal elements and rate of fragmentation.

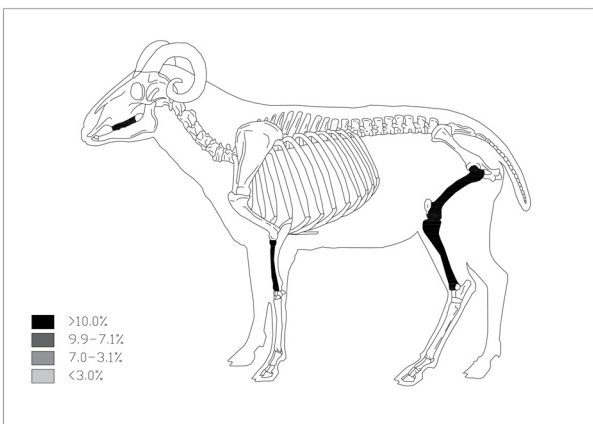


Fig. A.4.130a. Skeletal elements according to %NISP.

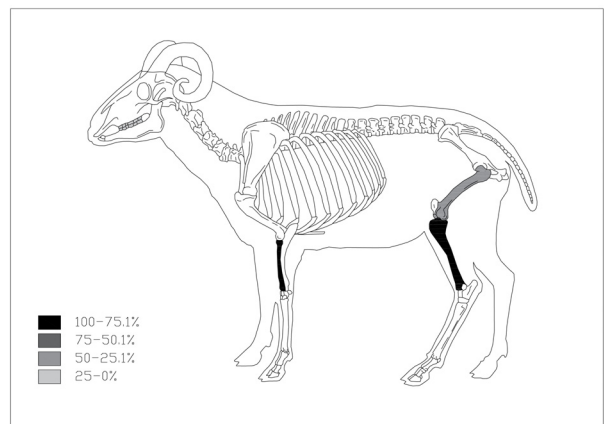


Fig. A.4.130b. Skeletal elements according to %MAU.

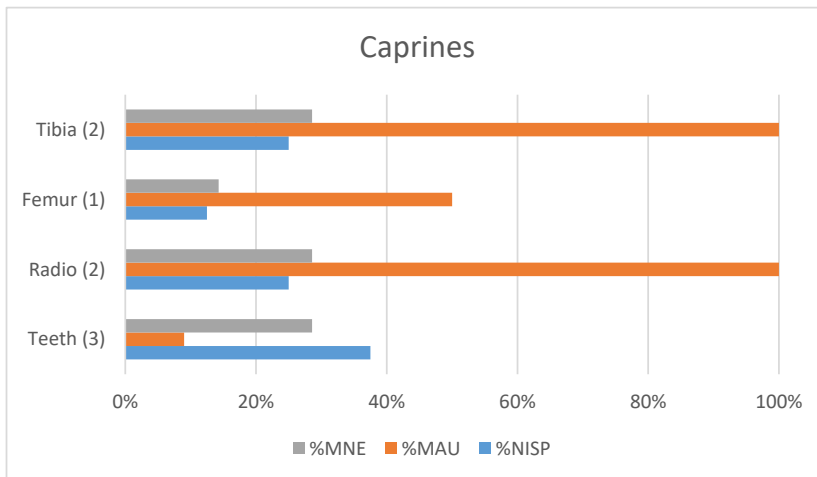


Fig. A.4.131. Skeletal elements according to %MNE %NISP and %MAU.

Meat Supply

Hindlimb elements contribute the largest proportion of meat followed by the forelimb, which is mainly represented elements by medium meat yield bones, such as the tibia and radio (*table A.4.260, A.4.261, fig. A.4.132*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Radius	14.2	0.189	0.094	36.86
Total forelimb	14.2	0.189	0.094	36.86
Femur	3	0.04	0.02	7.84
Tibia	21.1	0.281	0.140	54.90
Total hindlimb	24.1	0.321	0.160	62.74
Total	38.3	0.510	0.255	100

Table A.4.260. Meat supply according to skeletal elements (teeth not included).

Meat quality	Cranial (g)	Axial (g)	Fore-limb (g)	Fore-foot (g)	Hind-limb (g)	Hind-foot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	-	-	-	-	-	-	-	-
Medium	-	-	14.2	-	21.1	-	-	35.3	0.47	0.235	92.15
High	-	-	-	-	3	-	-	3	0.04	0.02	7.84
Total	-	-	14.2	-	24.1	-	-	38.3	0.510	0.255	100

Table A.4.261. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveal two juvenile-subadult individuals slaughtered before reaching 42 months. The sheep was slaughtered when above 18 months. It has not been possible to establish sex differences due to the lack of the pertinent elements. Likewise, it has not possible to estimate mean height at the withers due to the lack of complete bones. Due to the poor state of conservation of the sample, the only measurements available are those of the sheep tibia (*table A.4.262*).

Element	SD	Bd	Dd
Tibia	15.37	27.19	21.06

Table A.4.262. Measurements.

Pig**Skeletal Representation**

Skeletal representation reveals the forelimb to be over-represented when compared to a standard skeleton. All remaining categories are under-represented (*table A.4.263, fig. A.4.133*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	1	5.88	1.77	1	0.34	-1.06	2.83
Mandible	-	-	-	2	0.68	-0.37	0.37
Teeth	13	76.47	4.33	44	15.17	2.71	1.62
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	14	82.35	4.41	48	16.55	2.80	1.61
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	1	5.88	1.77	2	0.68	-0.37	2.14
Humerus	1	5.88	1.77	2	0.68	-0.37	2.14
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	2	11.76	2.46	8	2.75	1.01	1.45
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	-	-	-	8	2.75	1.01	-1.01
Total forefoot	-	-	-	24	8.27	2.11	-2.11
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	-	-	-	10	3.44	1.23	-1.23
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	-2.19
Phalanx I	1	5.88	1.77	16	5.51	1.70	0.07
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	1	5.88	1.77	88	30.34	3.41	-1.64
Total	17	100	4.60	290	100	4.60	0

Table A.4.263. Skeletal representation in pigs from level 144.

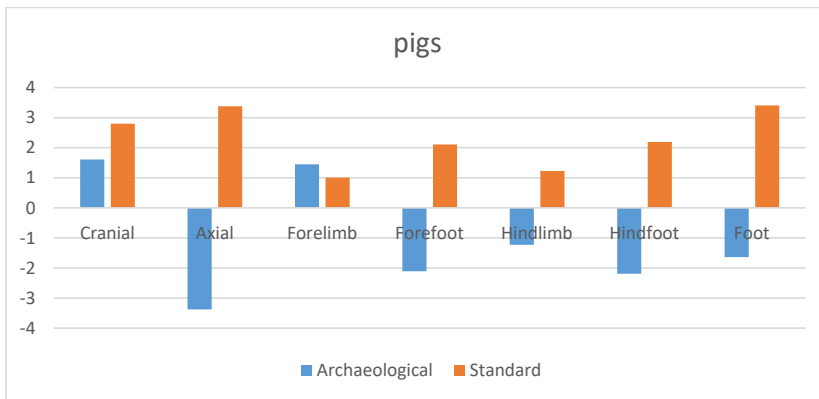


Fig. A.4.133. Skeletal representation in pigs.

Skeletal Elements

Based on the %MAU, teeth are the best represented elements followed by two of the forelimb. Scapula and humerus have a higher fragmentation rate when compared to the other anatomical categories (table A.4.264, fig. A.4.134a, A.4.134b, A.4.135).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	1	5.88	2	5.20	1	7.14	1	100				
Teeth	13	76.47	18	46.87	10	71.42	0.22	22				
Scapula	1	5.88	4.6	11.97	1	7.14	0.5	50	9	2	2	22.22
Humerus	1	5.88	12.6	32.81	1	7.14	0.5	50	11	2	2	18.18
Phalanx I	1	5.88	1.2	3.12	1	7.14	0.062	6.2	3	3	1	100
Total	17	100	38.4	100	14	100						

Table A.4.264. Skeletal elements and rate of fragmentation.

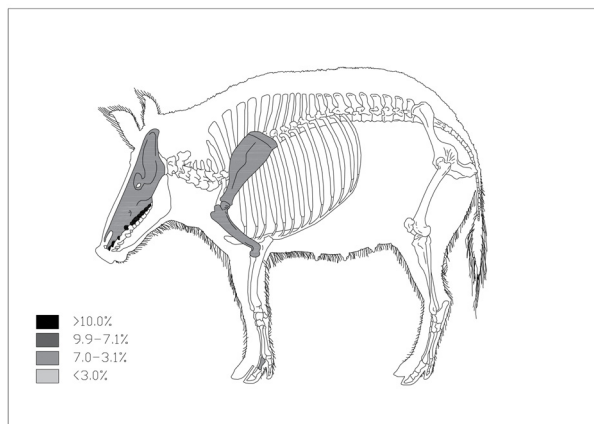


Fig. A.4.134a. Skeletal elements according to %NISP.

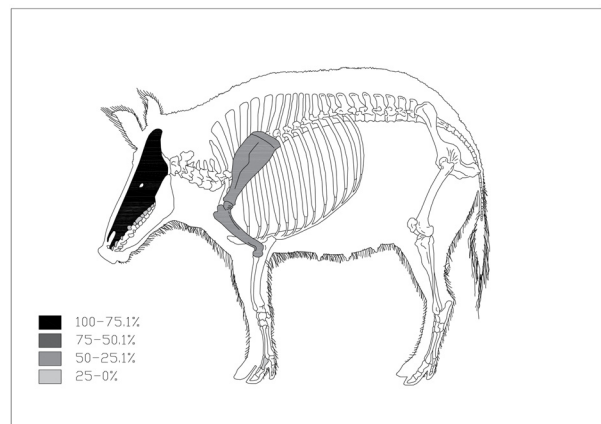


Fig. A.4.134b. Skeletal elements according to %MAU.

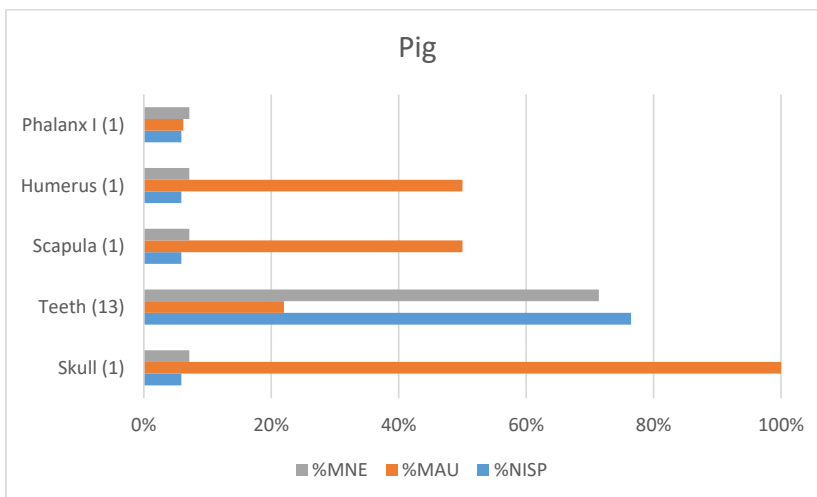


Fig. A.4.135. Skeletal elements according to %MNE %NISP and %MAU.

Meat Supply

Skeletal elements deriving from the forelimb provided the greatest meat contributions (*table A.4.265, A.4.266, fig. A.4.136*). There is a predominance of high-meat yield elements.

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	2	0.026	0.013	9.55
Total cranial	2	0.026	0.013	9.55
Scapula	4.6	0.061	0.030	22.05
Humerus	12.6	0.168	0.084	61.76
Total forelimb	17.2	0.229	0.114	83.82
Phalanx	1.2	0.016	0.008	5.88
Total foot	1.2	0.016	0.008	5.88
Total	20.4	0.272	0.136	100

Table A.4.265. Meat supply according to skeletal elements (teeth not included).

Meat quality	Cranial (g)	Forelimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	1.2	1.2	0.016	0.008	5.88
Medium	2	-	-	2	0.026	0.013	9.55
High	-	17.2	-	17.2	0.229	0.114	83.82
Total	2	17.2	27.8	20.4	0.272	0.136	100

Table A.4.266. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveal one juvenile/adult slaughtered above 15 months. It has been possible to identify a female individual through morphological differences in the canines. It was not possible to calculate the mean height at the withers due to the absence of complete bones.

A.4.3.2 Structure 115

A.4.3.2.a Structure 115: Level 122

The faunal collection totals 71 remains. Considering that most were assigned to indeterminate categories the proportion of unidentified remains is quite high (*table A.4.267*). The level of conservation of the faunal assemblage is quite deficient, presenting a high degree of fragmentation.

Species	NISP	%	MNI	%	Weight (g)	%
Total identified	7	9.85	3	100	22.06	22.06
Total unidentified	64	90.14			77.9	77.93
Total	71	100	3	100	99.96	100

Table A.4.267. Faunal remains from level 122.

Identified Fragments

Domestic faunas dominate an assemblage where caprines constitute the main taxon and cattle take second position followed by pigs (*table A.4.268*).

Species	NISP	%	MNI	%	Weight (g)	%
Cattle	3	42.85	1	33.33	7.06	32
Caprine	3	42.85	1	33.33	10.3	46.6
Pig	1	14.28	1	33.33	4.7	21.30
Total identified	7	100	3	100	22.06	100

Table A.4.268. Results of the zooarchaeological analysis from level 122 at Pabellon Cubierto (Valencia-Castilleja) including NISP, MNI and weight.

Unidentified Fragments

Unidentifiable fragments to which not even size can be assigned constitute the most frequent category. Fragments identified as size 2 are from an appendicular skeleton (*table A.4.269*).

Size	NISP	%	Weight (g)	%
Size 2	16	25	33.9	43.51
Unidentified	48	75	44	56.48
Total unidentified	64	100	77.9	100

Table A.4.269. Unidentified fragments from level 122.

Cattle**Skeletal Representation**

Skeletal representation showed an under-representation of all anatomical parts with respect to a standard skeleton (*table A.4.270, fig. A.4.137*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	2	66.66	4.19	32	15.45	2.73	1.46
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	2	66.66	4.19	38	18.35	2.91	1.28
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	-	-	-	10	4.83	1.57	-1.57
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	0.03
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	-	-	-	12	5.79	1.75	-1.75
Phalanx I	1	33.33	3.50	8	3.86	1.35	2.15
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	1	33.33	3.50	50	24.15	3.18	0.32
Total	3	100	4.60	207	100	4.60	0

Table A.4.270. Skeletal representation in cattle from level 122.

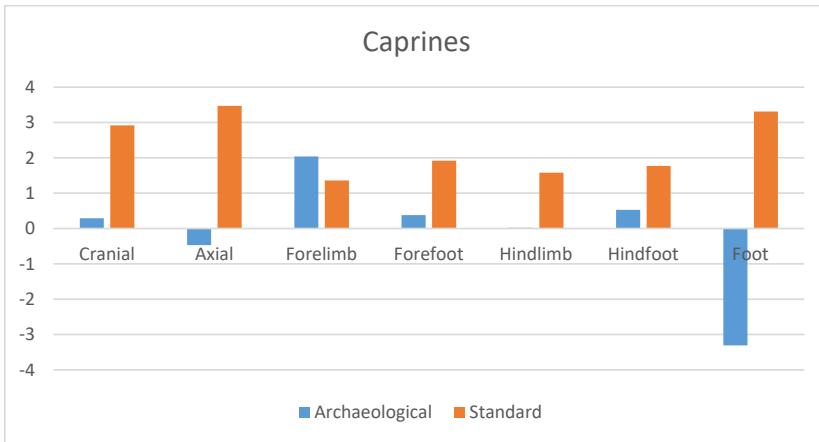


Fig. A.4.137. Skeletal representation in cattle.

Skeletal Elements

Based on %MAU, Phalanx I is the best represented element (table A.4.271, fig. A.4.138).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Teeth	2	66.66	4.3	60.9	2	66.66	0.062	6.2				
Phalanx I	1	33.33	2.76	39.09	1	33.33	0.125	100	3	3	3	100
Total	3	100	7.06	100	9	100						

Table A.4.271. Skeletal elements and rate of fragmentation.

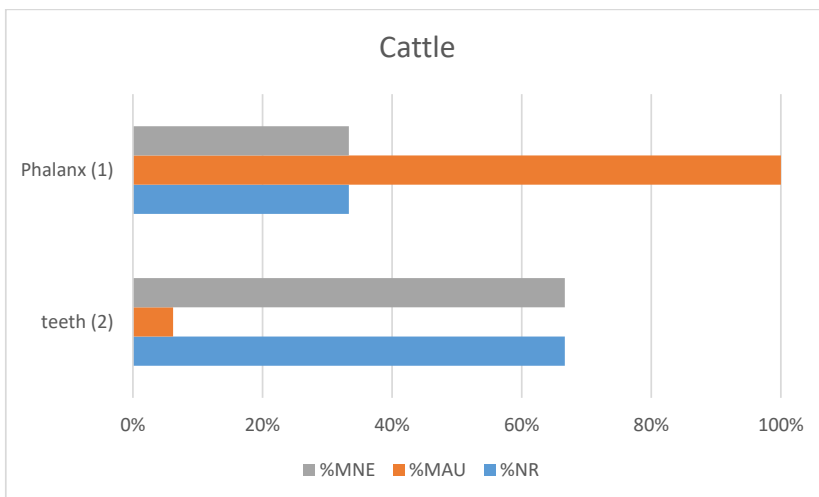


Fig. A.4.138. Skeletal elements according to %MNE %NISP and %MAU.

Meat Supply

Elements deriving from the feet should not be considered elements of consumption because these are normally discarded in the early stages of the quartering process.

Sex and Age

It has not been possible to estimate the sex and age of the identified individual. Likewise, it has not been possible to calculate the mean height at the withers due to the lack of complete bones.

Caprines

Skeletal Elements

The skeletal representation showed an over-representation of anatomical elements from the forelimb. All remaining anatomical parts are under-represented with respect to a standard skeleton. Fragments identified as size 2 correspond to bones from the appendicular skeleton (*table A.4.272, fig. A.4.139*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	1	33.33	3.50	32	15.68	2.75	0.75
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	1	33.33	3.50	38	18.62	2.92	0.58
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	-	-	-	2	0.98	-0.01	0.01
Humerus	-	-	-	2	0.98	-0.01	0.01
Radius	2	66.66	4.19	2	0.98	-0.01	4.20
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	2	66.66	4.19	8	3.92	1.36	2.83
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	-	-	-	10	4.90	1.58	-1.58
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	3	100	4.60	204	100	4.60	0

Table A.4.272. Skeletal representation in caprines from level 122.

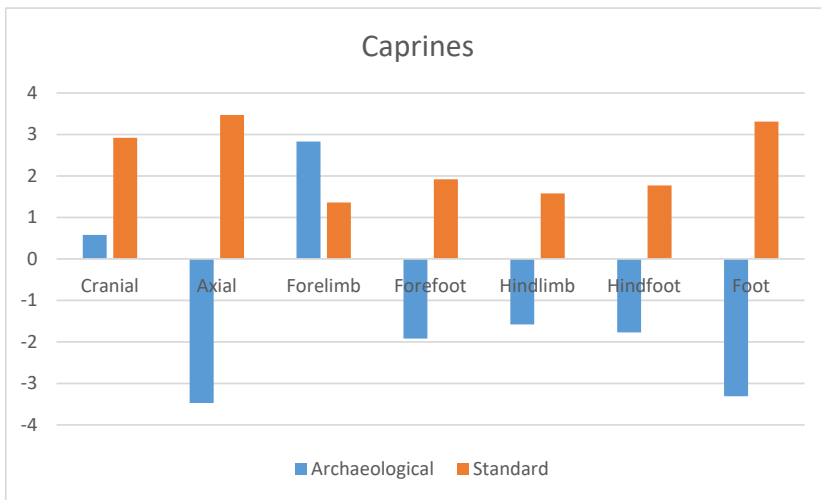


Fig. A.4.139. Skeletal representation in caprines.

Skeletal Representation

Based on %MAU, the radius, with a high fragmentation ratio, is the best represented element (table A.4.273, fig. A.4.140).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Teeth	1	33.33	6.3	61.16	1	50	0.031	6.2				
Radius	2	66.66	4	38.83	1	50	0.5	100	10	4	2	20
Total	3	100	10.3	100	8	100						

Table A.4.273. Skeletal elements and rate of fragmentation.

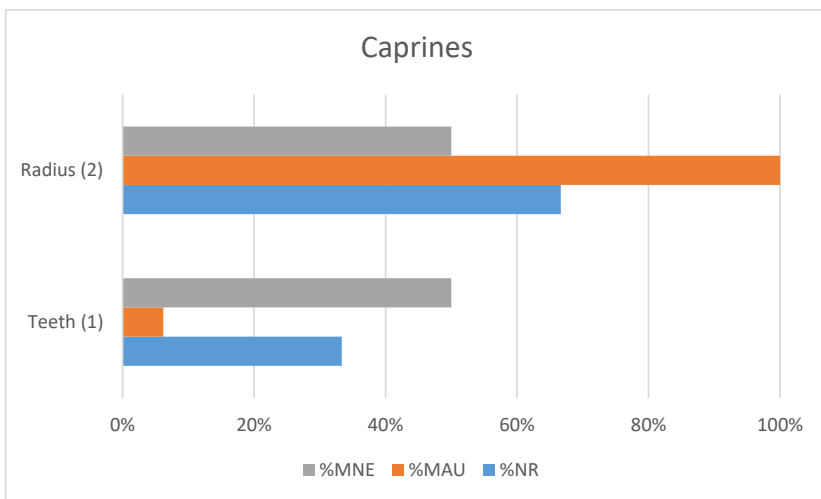


Fig. A.4.140. Skeletal elements according to %MNE, %NISP and %MAU.

Meat Supply

The medium meat yield radius provides the highest proportion of meat (*table A.4.274*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Radius	4	0.053	0.026	100
Total	4	0.053	0.026	100

Table A.4.274. Meat supply according to skeletal elements (teeth and horn core not included).

Age of Death

The epiphyseal fusion and dental eruption data of the M3 reveal a subadult-adult above 18 months. It has not been possible to establish sex differences due to the lack of the pertinent anatomical elements. Likewise, it has not been possible to calculate the mean height at the withers due to the lack of complete bones (*table A.4.275*).

Element	Bp	BFp
Radio	31.42	29.16

Table A.4.275. Measurements.

Pig**Skeletal Representation**

The skeletal representation reveals hind foot to be an over-represented portion when compared to a standard skeleton (*table A.4.276, fig. A.4.141*). All remaining categories are missing.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	-	-	-	2	0.68	-0.37	0.37
Teeth	-	-	-	44	15.17	2.71	-2.71
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	-	-	-	48	16.55	2.80	-2.80
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	-	-	-	2	0.68	-0.37	0.37
Humerus	-	-	-	2	0.68	-0.37	0.37
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	-	-	-	8	2.75	1.01	-1.01
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	-	-	-	8	2.75	1.01	-1.01
Total forefoot	-	-	-	24	8.27	2.11	-2.11
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	-	-	-	10	3.44	1.23	-1.23
Calcaneus	1	100	4.60	2	0.68	-0.37	4.97
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	1	100	4.60	26	8.96	2.19	2.41
Phalanx I	-	-	-	16	5.51	1.70	-1.70
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	-	-	-	16	5.51	1.70	-1.70
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	-	-	-	88	30.34	3.41	-3.41
Total	1	100	4.60	290	100	4.60	0

Table A.4.276. Skeletal representation in pigs from level 122.

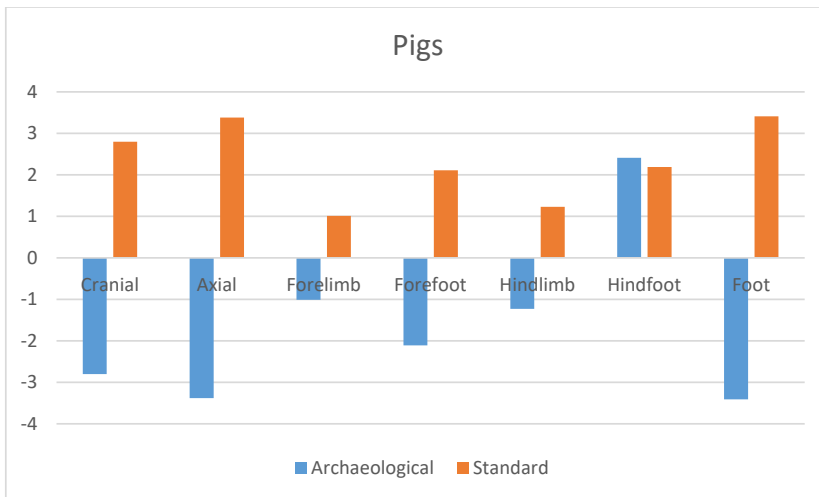


Fig. A.4.141. Skeletal representation in pigs.

Skeletal Elements

The only anatomical element present is a very fragmented calcaneus (table A.4.277).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Calcaneus	1	100	4	100	1	100	0.5	100	5	1	1	20
Total	1	100	4	100	1	100						

Table A.4.277. Skeletal elements and rate of fragmentation.

Meat Supply

Skeletal elements deriving from feet should not be considered elements of consumption because these are normally discarded in the early stages of the quartering process.

Sex and Age

Due to the state and scarcity of the sample, it has not been possible to estimate the sex and age of the identified individual. Likewise, it has not been possible to estimate mean height at the withers due to lack of complete bones.

A.4.3.2.b Structure 115: Level 123

2925 faunal remains comprise the collection. Considering that most were assigned to indeterminate categories the proportion of unidentified remains is quite high (table A.4.278). The level of conservation is poor, exhibiting a high degree of fragmentation.

	NISP	%	Weight (g)	%
Identified	430	14.49	2680.18	43.53
Unidentified	2537	85.50	3475.54	56.46
Total	2967	100	6155.72	100

Table A.4.278. Faunal remains from level 123.

Identified Fragments

Domestic faunas dominate an assemblage where pigs constitute the main taxon and caprines take second position followed by cattle (table A.4.279).

Species	NISP	%	MNI	%	Weight (g)	%
Cattle	49	11.42	2	11.76	636.17	23.74
Caprine	120	27.97	5	29.41	558.24	20.83
Pig	225	52.44	5	29.41	1426.54	53.24
Dog	6	1.39	1	5.88	14.9	0.55
Total domestic	400	93.24	13	76.47	2635.85	98.38
Deer	2	0.46	1	5.88	29.7	1.10
Hare	14	3.26	1	5.88	7.83	0.29
Rabbit	8	1.86	2	11.76	4.8	0.17
Lagomorpha	5	1.16	-		1	0.03
Total wild	29	6.75	4	23.52	43.33	1.61
Total identified	429	100	17	100	2679.18	100
Bird	1		1		1	

Table A.4.279. Results of the zooarchaeological analysis from level 123 at Pabellon Cubierto (Valencia-Castilleja) including NISP, MNI and weight.

Unidentified Fragments

Fragments identified as size 3 mostly correspond to fragments of the appendicular skeleton with a low proportion of cranial and axial fragments. In the case of size 2 fragments there is also a predominance of fragments from the appendicular skeleton followed by those from the axial and cranial skeleton (table A.4.280).

	NISP	%	Weight (g)	%
Size 3	70	2.75	670.23	19.28
Size 2	548	21.60	954.58	27.46
Unidentified	1919	75.64	1850.73	53.25
Total unidentified	2537	100	3475.54	100

Table A.4.280. Unidentified fragments from level 123.

Cattle

Skeletal Representation

The skeletal representation evidenced an under-representation of all anatomical parts when compared to a standard skeleton. The best represented anatomical portion is the forelimb followed by the skull, hindlimb and hind foot. Axial skeleton, fore foot and feet are also present but in lower proportions (*table A.4.281, fig. A.4.142*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	3	6.25	1.83	1	0.48	-0.72	2.55
Mandible	4	8.33	2.12	2	0.96	-0.03	2.15
Teeth	12	25	3.21	32	15.45	2.73	0.48
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	19	39.58	3.67	38	18.35	2.91	0.76
Vertebrae	3	6.25	1.83	45	21.73	3.07	-1.24
Rib	8	16.66	2.81	26	12.56	2.53	0.28
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	11	22.91	3.13	73	35.26	3.56	-0.43
Scapula	1	2.08	0.73	2	0.96	-0.03	0.76
Humerus	2	4.16	1.42	2	0.96	-0.03	1.45
Radius	2	4.16	1.42	2	0.96	-0.03	1.45
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	5	10.41	2.34	8	3.86	1.35	0.99
Carpal	1	2.08	0.73	12	5.79	1.75	-1.02
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	1	2.08	0.73	16	7.72	2.04	-1.31
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	1	2.08	0.73	2	0.96	-0.03	0.76
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	2	4.16	1.42	2	0.96	-0.03	1.45
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	3	6.25	1.83	10	4.83	1.57	0.26
Calcaneus	1	2.08	0.73	2	0.96	-0.03	0.76
Astragalus	1	2.08	0.73	2	0.96	-0.03	0.76
Tarsal	1	2.08	0.73	6	2.89	1.06	-0.33
Metatarsal	1	2.08	0.73	2	0.96	-0.03	0.76
Total hindfoot	4	8.33	2.12	12	5.79	1.75	0.37
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	4	8.33	2.12	8	3.86	1.35	0.77
Sesamoids	1	2.08	0.73	26	12.56	2.53	-1.8
Total foot	5	10.41	2.34	50	24.15	3.18	-0.84
Total	48	100	4.60	207	100	4.60	0

Table A.4.281. Skeletal representation in cattle from level 123.

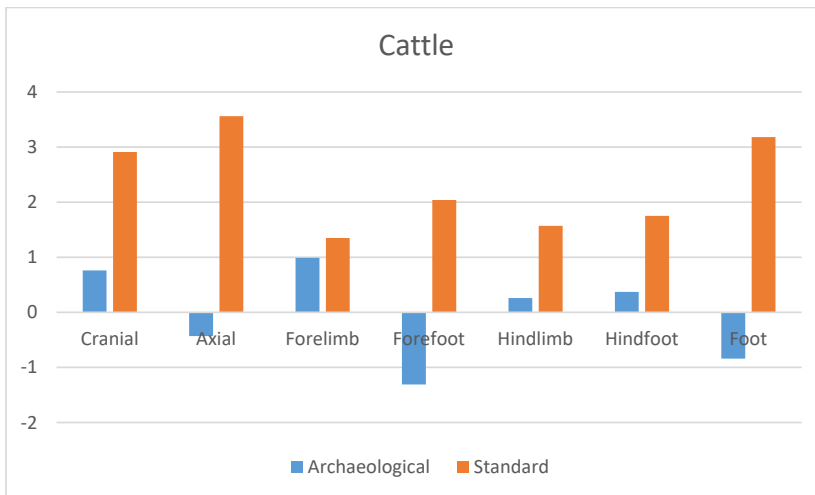


Fig. A.4.142. Skeletal representation in cattle.

Skeletal Elements

Based on the %MAU, elements from the cranial, forelimb and hindlimb are best represented, along with feet. Axial skeletal elements have a low representativeness. In terms of the percentage completeness, the humerus and femur exhibit a higher rate of fragmentation with respect to the remaining elements (*table A.4.282, fig. A.4.143a, 4.143b, A.4.144*).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	3	6.12	28.23	4.43	1	14.03	1	100		3		
Mandible	4	8.16	66.93	10.52	1	14.03	0.5	50	7	6	1.5	21.42
Teeth	12	24.48	26.38	4.14	9	27.27	0.28	28				
Vertebrae	3	6.12	26.4	4.14	1	14.03	0.02	2	2	3	1	50
Ribs	8	16.32	91.4	14.36	4	12.12	0.15	15	2	8	1	50
Scapula	1	2.04	26.64	4.18	1	14.03	0.5	50	9	1	1	11.11
Humerus	1	2.04	55.06	8.65	1	14.03	0.5	50	11	1	1	9.09
Radius	2	4.08	46.9	7.37	2	6.06	1	100	10	3	1.5	15
Carpal	1	2.04	2.9	0.45	1	14.03	0.08	8	1	1	1	12.5
Femur	1	2.04	23.4	3.67	1	14.03	0.5	50	11	1	1	9.09
Tibia	2	4.08	72.02	11.32	2	6.06	1	100	10	4	2	20
Astragalus	1	2.04	43.2	6.79	1	14.03	0.5	50	4	3	3	75
Calcaneus	1	2.04	52.1	8.18	1	14.03	0.5	50	5	4	4	80
Tarsal	1	2.04	9.4	1.47	1	14.03	0.16	16	1	1	1	100
Metatarsal	1	2.04	23.3	3.66	1	14.03	0.25	25	8	2	1	25
Metapodia	1	2.04	4.61	0.72					8	1	1	12.5
Sesamoids	1	2.04	2.2	0.34	1	14.03	0.038	3.8	1	1	1	100
Phalanx II	4	8.16	35.1	5.51	4	12.12	0.5	50	3	12	3	100
Total	49	100	636.17	100	33	100						

Table A.4.282. Skeletal elements and rate of fragmentation.

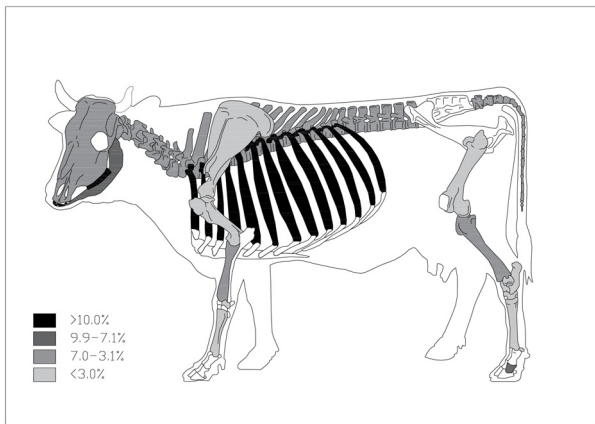


Fig. A.4.143a. Skeletal elements according to %NISP.

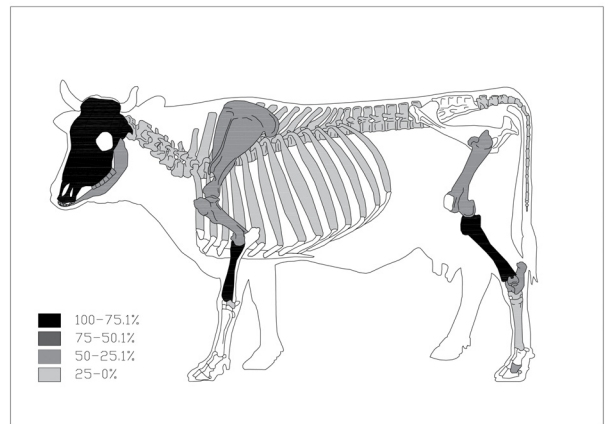


Fig. A.4.143b. Skeletal elements according to %MAU.

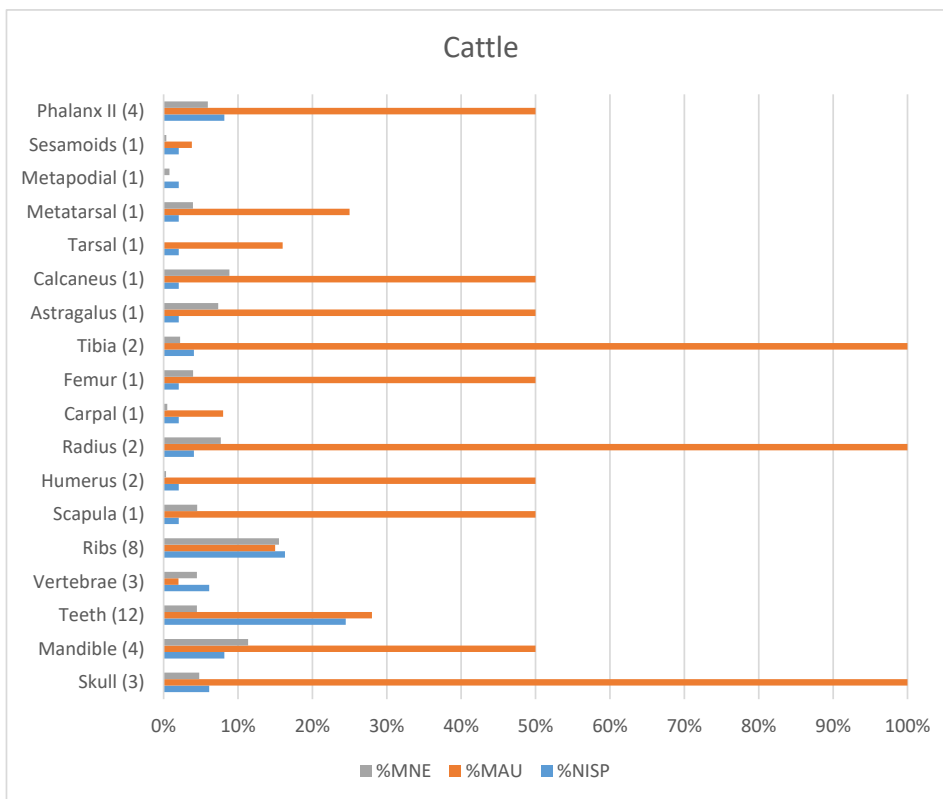


Fig. A.4.144. Skeletal elements according to %MNE %NISP and %MAU.

Meat Supply

Elements deriving from the axial skeleton, mostly of medium contribution yields, would constitute the main input followed by appendicular and cranial elements (*table A.4.283, A.4.284, fig. A.4.145*). Combustion marks were recorded in sesamoids and metapodial fragments.

Skeletal element	Weight (g)	Total meat weight (kg)	Edible meat (kg)	%
Skull	28.23	0.376	0.188	4.62
Mandible	66.93	0.892	0.446	10.97
Total cranial	95.16	1.268	0.634	15.59
Vertebrae	26.4	0.352	0.176	4.32
Rib	91.4	1.218	0.609	14.98
Total axial	117.8	1.570	0.785	19.31
Scapula	26.64	0.355	0.177	4.35
Humerus	55.06	0.734	0.367	9.02
Radius	46.9	0.625	0.312	7.67
Total forelimb	128.6	1.714	0.857	21.08
Carpal	2.9	0.038	0.019	0.46
Total forefoot	2.9	0.038	0.019	0.46
Femur	23.4	0.312	0.156	3.83
Tibia	72.02	0.960	0.480	11.80
Total hindlimb	95.42	1.272	0.636	15.64
Astragalus	43.2	0.576	0.288	7.08
Calcaneus	52.1	0.694	0.347	8.53
Tarsal	9.4	0.125	0.062	1.52
Metatarsal	23.3	0.310	0.155	3.81
Total hindfoot	128	1.706	0.853	20.98
Metapodia	4.61	0.061	0.030	0.73
Sesamoids	2.2	0.029	0.014	0.34
Phalanx II	35.1	0.468	0.234	5.75
Total foot	41.91	0.558	0.279	6.86
Total	609.79	8.130	4.065	100

Table A.4.283. Meat supply according to skeletal elements.

Meat quality	Cranial (g)	Axial (g)	Fore-limb (g)	Fore-foot (g)	Hind-limb (g)	Hind-foot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	2.9	-	128	41.91	172.81	2.304	1.152	28.33
Medium	95.16	91.4	46.9	-	72.02	-	-	305.48	4.073	2.036	50.08
High	-	26.4	81.7	-	23.4	-	-	131.5	1.753	0.876	21.54
Total	95.16	117.8	128.6	2.9	95.42	128	41.91	609.79	8.130	4.065	100

Table A.4.284. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveals an individual below 15 months and a subadult/adult above 36 months. It has not been possible to establish sex differences due to the lack of pertinent elements. Likewise, it has not been possible to calculate mean height at the withers due to the lack of complete bones (*table A.4.285*).

Element	GLm				
Astragalus	53.79	-	-	-	-
Element	Bd	Dd			
Tibia	58.42	37.82	-	-	-
Element	Bd	Bp	Dp	SD	GL
Phalanx II	21.88	26.06		20.44	36.63
		24.88	24.92	19.83	

Table A.4.285. Measurements.

Caprines

Skeletal Representation

The skeletal representation on caprines, reveals the forelimbs to be over-represented when compared to a standard skeleton. All remaining categories are under-represented (*table A.4.286, fig. A.4.146*). Within the size 2 category, there is a predominance of fragments from the appendicular skeleton followed by axial and cranial fragments.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	2	1.68	0.51	1	0.49	-0.71	1.22
Mandible	13	10.92	2.39	2	0.98	-0.01	2.40
Teeth	22	18.48	2.91	32	15.68	2.75	0.16
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	37	31.09	3.43	38	18.62	2.92	0.51
Vertebrae	4	3.36	1.21	38	18.62	2.62	-1.41
Rib	11	9.24	2.22	26	12.74	2.54	-0.32
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	15	12.60	2.53	66	32.35	3.47	-0.94
Scapula	5	4.20	1.43	2	0.98	-0.01	1.44
Humerus	5	4.20	1.43	2	0.98	-0.01	1.44
Radius	13	10.92	2.39	2	0.98	-0.01	2.40
Ulna	3	2.52	0.92	2	0.98	-0.01	0.93
Total forelimb	26	21.84	3.08	8	3.92	1.36	1.72
Carpal	2	1.68	0.51	12	5.88	1.77	-1.26
Metacarpal	5	4.20	1.43	2	0.98	-0.01	1.44
Total forefoot	7	5.88	1.77	14	6.86	1.92	-0.15
Pelvis	5	4.20	1.43	2	0.98	-0.01	1.44
Femur	7	5.88	1.77	2	0.98	-0.01	1.78
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	6	5.04	1.61	2	0.98	-0.01	1.62
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	18	15.12	2.71	10	4.90	1.58	1.13
Calcaneus	3	2.52	0.92	2	0.98	-0.01	0.93
Astragalus	3	2.52	0.92	2	0.98	-0.01	0.93
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	3	2.52	0.92	2	0.98	-0.01	0.93
Total hindfoot	9	7.56	2.02	12	5.88	1.77	0.25
Phalanx I	6	5.04	1.61	8	3.92	1.36	0.25
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	1	0.84	-0.17	8	3.92	1.36	-1.53
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	7	5.88	1.77	56	27.45	3.31	-1.54
Total	119	100	4.60	204	100	4.60	0

Table A.4.286. Skeletal representation in caprines from level 123.

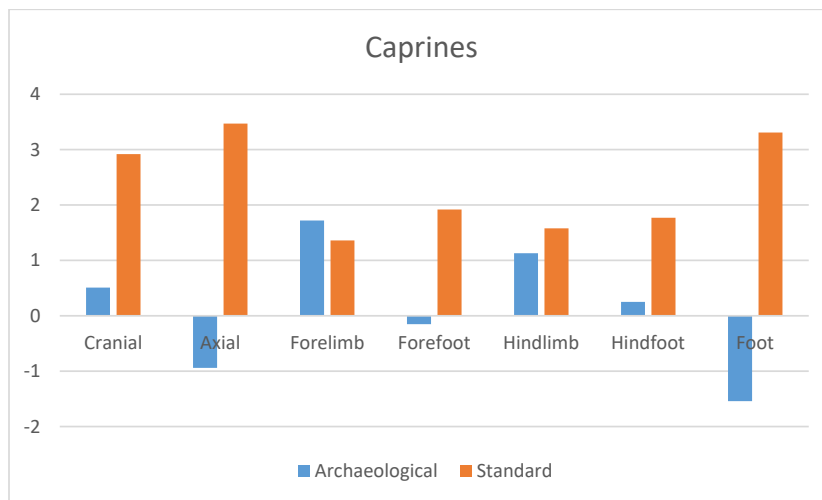


Fig. A.4.146. Skeletal representation in caprines.

Skeletal Elements

Based on the %MAU, forelimb elements in particular humerus are best represented. According to the percentage completeness, cranial, fore and hindlimb elements exhibit a higher rate of fragmentation with respect to the remaining anatomical categories (table A.4.287, fig. A.4.146a, A.4.146b, A.4.147). The rate of fragmentation of elements from the feet is very low.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	2	1.66	5.7	1.02	1	1.33	1	40				
Mandible	13	10.83	64.71	11.59	4	5.33	2	80	7	20	1.53	11.83
Teeth	22	18.33	56.08	10.04	17	22.66	0.53	21.2				
Vertebrae	4	3.33	9.6	1.71	4	5.33	0.10	4	2	4	1	50
Ribs	11	9.16	12.7	2.75	6	8	0.23	9.2	2	11	1	50
Scapula	5	4.16	31.31	5.60	3	4	1.5	60	9	12	2.4	26.66
Humerus	5	4.16	63.09	11.30	5	6.66	2.5	100	11	19	3.8	34.54
Radius	13	10.83	61.46	11	4	5.33	2	80	10	22	1.69	16.92
Ulna	3	2.5	12.5	2.23	3	4	1.5	60	9	8	2.66	29.62
Carpal	2	1.66	3.7	0.66	2	2.66	0.16	6.4	1	2	1	100
Metacarpal	5	4.16	25.37	4.54	3	4	1.5	60	8	12	2.4	30
Pelvis	5	4.16	26.8	4.80	3	4	1.5	60	12	7	1.4	11.66
Femur	7	5.83	57.94	10.37	2	2.66	1	40	11	12	1.71	15.58
Tibia	6	5	47.07	8.43	3	4	1.5	60	10	11	1.83	18.33
Astragalus	3	2.5	18.88	3.38	3	4	1.5	60	4	12	4	100
Calcaneous	3	2.5	17.2	3.08	3	4	1.5	60	5	9	3	60
Metatarsal	3	2.5	21.7	3.88	2	2.66	1	40	8	9	3	37.5
Metapodia	1	0.83	1.9	0.34					8	1	1	12.5
Phalanx I	6	5	19.2	3.43	6	8	0.75	30	3	16	2.66	88.88
Phalanx III	1	0.83	1.33	0.23	1	1.33	0.125	5	2	2	2	100
Total	120	100	558.24	100	75	100						

Table A.4.287. Skeletal elements and rate of fragmentation.

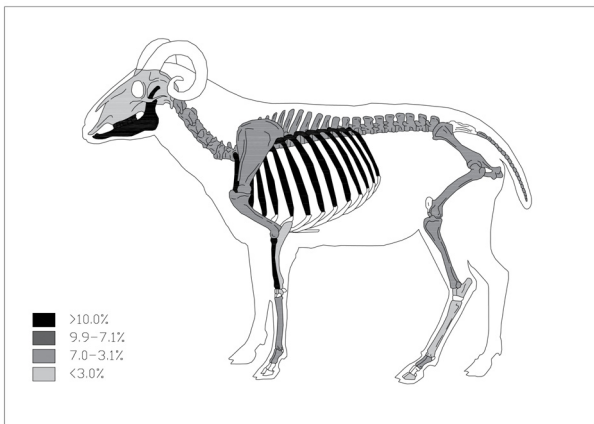


Fig. A.4.147a. Skeletal elements according to %NISP.

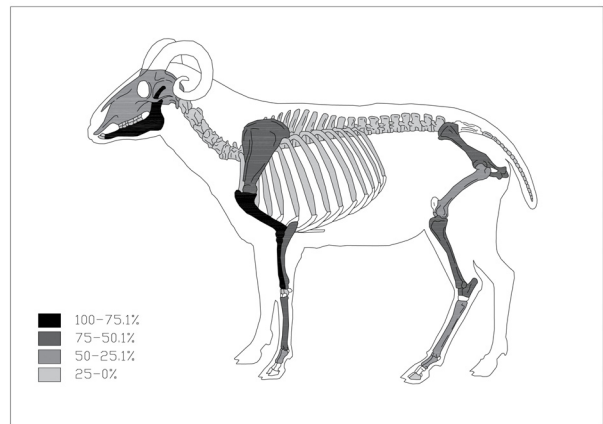


Fig. A.4.147b. Skeletal elements according to %MAU.

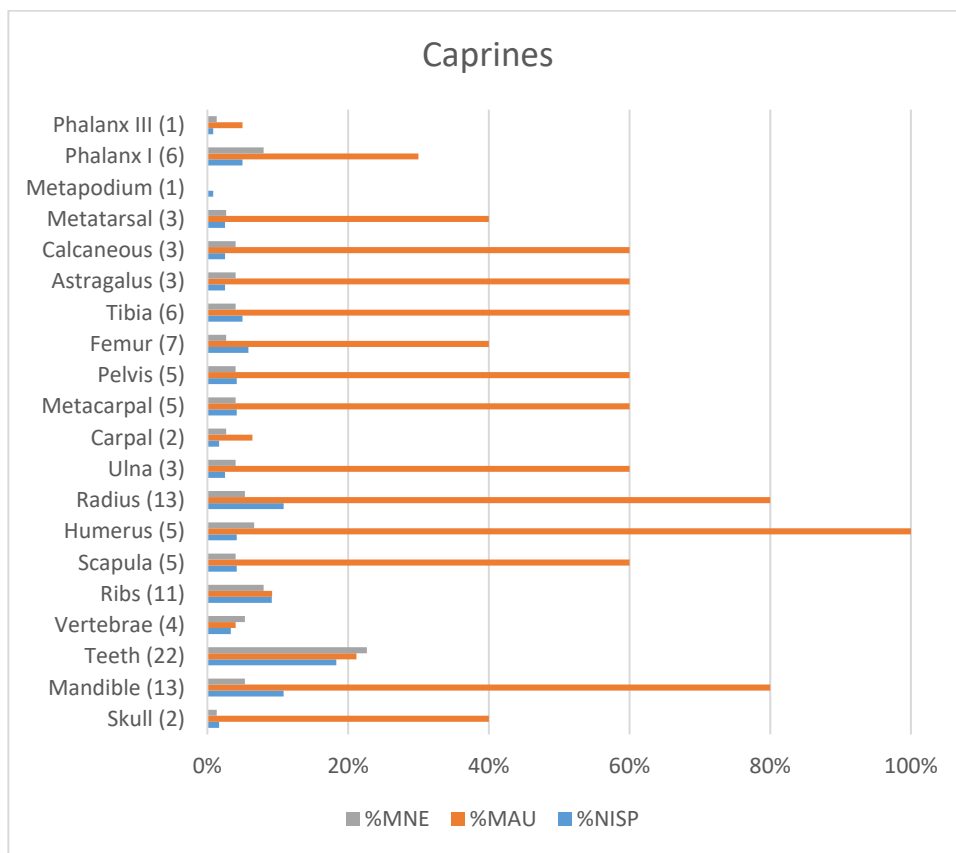


Fig. A.4.148. Skeletal elements according to %MNE %NISP and %MAU.

Meat Supply

Forelimb and hindlimb, mainly high and medium meat yield elements contributed the highest proportion of meat. Many elements of the axial skeleton have been included in the size 2 group thus the representation of this anatomical part is bound to be under-represented. Cutting marks have been documented in scapula and femur (table A.4.288, A.4.289, fig. A.4.149).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	5.7	0.076	0.038	1.13
Mandible	64.71	0.862	0.431	12.87
Total cranial	70.41	0.938	0.469	14.01
Vertebrae	9.6	0.128	0.064	1.91
Rib	12.7	0.169	0.084	2.50
Total axial	22.3	0.297	0.148	4.42
Scapula	31.31	0.417	0.208	6.21
Humerus	63.09	0.841	0.420	12.54
Radius	61.46	0.819	0.409	12.21
Ulna	12.5	0.166	0.083	2.47
Total forelimb	168.36	2.244	1.122	33.52
Carpal	3.7	0.049	0.024	0.71
Metacarpal	25.37	0.338	0.169	5.04
Total forefoot	29.07	0.387	0.193	5.76
Pelvis	26.8	0.357	0.178	5.31
Femur	57.94	0.772	0.386	11.53
Tibia	47.07	0.627	0.313	9.35
Total hindlimb	131.81	1.757	0.878	26.23
Astragalus	18.88	0.251	0.125	3.73
Calcaneus	17.2	0.229	0.114	3.40
Metatarsal	21.7	0.289	0.144	4.30
Total hindfoot	57.78	0.770	0.385	11.50
Metapodia	1.9	0.025	0.012	0.358
Phalanx I	19.2	0.256	0.128	3.82
Phalanx III	1.33	0.017	0.008	0.23
Total foot	22.43	0.299	0.149	4.45
Total	502.16	6.695	3.347	100

Table A.4.288. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Axial (g)	Fore-limb (g)	Fore-foot (g)	Hind-limb (g)	Hind-foot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	29.07	-	57.78	22.43	109.28	1.457	0.728	21.75
Medium	70.41	12.7	73.96	-	47.07	-	-	204.14	2.721	1.360	40.63
High	-	9.6	94.4	-	87.74	-	-	191.74	2.55	1.278	38.18
Total	70.41	22.3	168.36	29.07	131.81	57.78	22.43	502.16	6.695	3.347	100

Table A.4.289. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveal one juvenile individual slaughtered around 30 months and another individual slaughtered at nine months. One individual (infant/juvenile) below nine months and two individuals (juvenile/adult) individuals above nine months but below 30 were also identified. Based on dental wear, an individual slaughtered when 14 months and another individual when 29 months were also identified. It has not been possible to establish sex differences due to the lack of pertinent anatomical elements. Likewise, it has not been possible to calculate the mean height at the withers due to the lack of complete bones (*table A.4.290*).

Element	Bd	DI	GLI	GLm	Dm
Astragalus	-	-	31.22	29.63	-
	19.59	17.1	31.21	29.01	17.92
	17.35	15.86	27.35	26.43	15.81
Element	Bp	Dp			
Metacarpal	23.26	15.86			
	23.32	16.22			
Element	GL	SD	Bp	Dp	
Metatarsal	137.94	10.27	18.67	18.99	
Element	BT	SD	Bd		
Humerus	28.94	-	29.86	-	-
	-	13.44	-	-	-
Element	GL	SD	Bp	Glpe	Bd
Phalanx I	-	12.94	-	-	-
	35	12.75	15.55	34.77	13.91
Element	GLP	SLC			
Scapula	21.87	-	-	-	-
	33.36	19.88	-	-	-
Element	Bp				
Radius	33.24	-	-	-	-
Element	Bd	Dd			
Tibia	26.49	20.4	-	-	-
Element	SB	SH			
Pelvis	7.02	15.1	-	-	-
Element	DLS	Ld			
Phalanx III	22.88	16.99	-	-	-

Table A.4.290. Measurements.

Pig**Skeletal Representation**

The skeletal representation analysis reveals forelimbs to be over-represented when compared with a standard skeleton (*table A.4.291, fig. A.4.150*). The remaining portions are under-represented.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	52	24.64	3.20	1	0.34	-1.06	4.26
Mandible	9	4.26	1.45	2	0.68	-0.37	1.82
Teeth	47	22.27	3.10	44	15.17	2.71	0.39
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	108	51.18	3.93	48	16.55	2.80	1.13
Vertebrae	7	3.31	1.19	56	19.31	2.96	-1.77
Rib	18	8.53	2.14	28	9.65	2.26	-0.12
Sacrum	1	0.47	-0.74	1	0.34	-1.06	0.32
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	26	12.32	2.51	86	29.65	3.38	-0.87
Scapula	12	5.68	1.73	2	0.68	-0.37	2.1
Humerus	4	1.89	0.63	2	0.68	-0.37	1
Radius	9	4.26	1.45	2	0.68	-0.37	1.82
Ulna	7	3.31	1.19	2	0.68	-0.37	1.56
Total forelimb	32	15.16	2.71	8	2.75	1.01	1.7
Carpal	1	0.47	-0.74	16	5.51	1.70	-2.44
Metacarpal	3	1.42	0.35	8	2.75	1.01	-0.66
Total forefoot	4	1.89	0.63	24	8.27	2.11	-1.48
Pelvis	8	3.79	1.33	2	0.68	-0.37	1.7
Femur	4	1.89	0.63	2	0.68	-0.37	1
Patella	1	0.47	-0.74	2	0.68	-0.37	-0.37
Tibia	2	0.94	-0.05	2	0.68	-0.37	0.32
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	15	7.10	1.96	10	3.44	1.23	0.73
Astragalus	4	1.89	0.63	2	0.68	-0.37	1
Calcaneus	3	1.42	0.35	2	0.68	-0.37	0.72
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	9	4.26	1.45	8	2.75	1.01	0.44
Total hindfoot	16	7.58	2.02	26	8.96	2.19	-0.17
Phalanx I	3	1.42	0.35	16	5.51	1.70	-1.35
Phalanx II	4	1.89	0.63	16	5.51	1.70	-1.07
Phalanx III	3	1.42	0.35	16	5.51	1.70	-1.35
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	10	4.73	1.55	88	30.34	3.41	-1.86
Total	211	100	4.60	290	100	4.60	0

Table A.4.291. Skeletal representation in pigs from level 123.

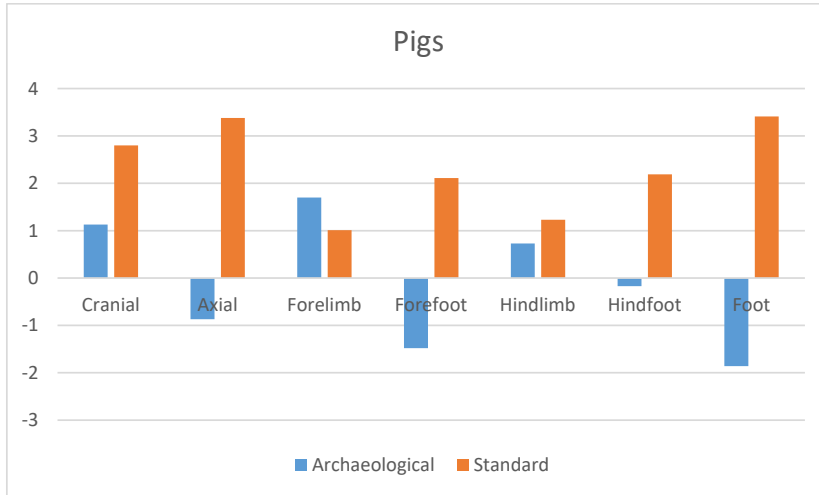


Fig. A.4.150. Skeletal representation in pigs.

Skeletal Elements

Based on the %MAU, elements from the cranial skeleton, forelimb and hindlimb are best represented (table A.4.292, fig. A.4.151a, A.4.151b, A.4.152). Fragmentation exhibits a high rate in cranial, forelimb and hindlimb elements. In the case of the feet, fragmentation rate is quite low.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	52	23.21	371.95	26.07	3	2.4	3	100				
Mandible	9	4.01	137.69	9.65	4	3.2	2	66.66	7	11	1.22	17.46
Teeth	47	20.98	100.18	7.02	46	36.8	1.04	34.66				
Vertebrae	7	3.12	72.37	5.07	7	5.6	0.125	4.16	2	7	1	50
Ribs	18	8.03	89.91	6.30	5	4	0.178	5.93	3	19	1.05	35
Sacrum	1	0.44	9.9	0.69	1	0.8	1	33.33		1		
Scapula	12	5.35	87	6.09	4	3.2	2	66.66	9	23	1.91	21.29
Humerus	4	1.78	82.7	5.79	2	1.6	1	33.33	11	11	2.75	25
Radius	9	4.01	55.54	3.89	4	3.2	2	66.66	10	18	2	20
Ulna	7	3.12	77.98	5.46	4	3.2	2	66.66	9	14	2	22.22
Carpal	1	0.44	3.1	0.21	1	0.8	0.625	20.83	1	1	1	100
Metacarpal	3	1.33	12.1	0.84	3	2.4	0.375	12.5	3	6	2	66.66
Pelvis	8	3.57	97.72	6.85	4	3.2	2	66.66	12	13	1.62	13.54
Femur	4	1.78	65.66	4.60	2	1.6	1	33.33	11	6	1.5	13.63
Patella	1	0.44	6.6	0.46	1	0.8	0.5	16.66	1	1	1	100
Tibia	2	0.89	17.1	1.19	2	1.6	1	33.33	10	5	2.5	25
Astragalus	4	1.78	29.7	2.08	3	2.4	1.5	50	4	11	2.75	68.75
Calcaneus	3	1.33	14.5	1.01	3	2.4	1.5	50	5	6	2	40
Metatarsal	9	4.01	23.5	1.64	6	4.8	0.75	25	3	16	1.77	59
Metapodia	8	3.57	38.22	2.67	5	4	0.312	10.4	3	14	1.75	58.33
Phalanx	5	2.23	6.12	0.42	5	4	0.104	3.46	3	6	1.2	40
Phalanx I	3	1.33	8.2	0.57	3	2.4	0.187	6.23	3	6	2	66.66
Phalanx II	4	1.78	10.9	0.76	4	3.2	0.25	8.33	3	12	3	100
Phalanx III	3	1.33	6.7	0.46	3	2.4	0.187	6.23	2	6	2	100
Total	224	100	1426.54	100	125	100						

Table A.4.292. Skeletal elements and rate of fragmentation.

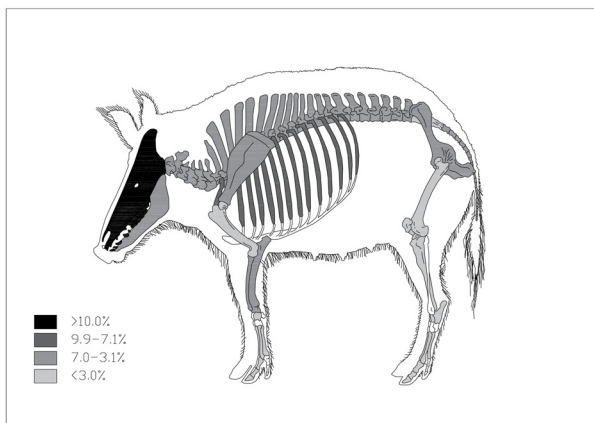


Fig. A.4.151a. Skeletal elements according to %NISP.

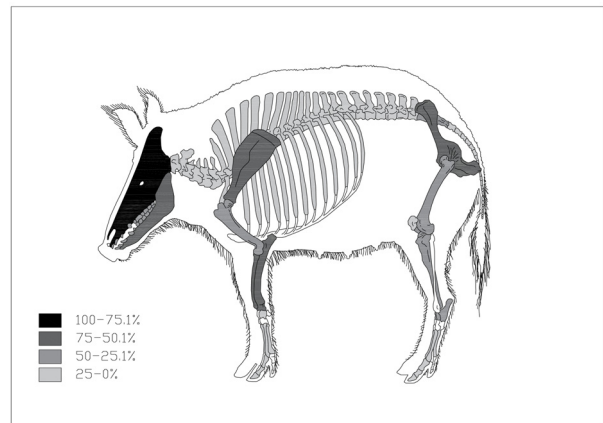


Fig. A.4.151b. Skeletal elements according to %MAU.

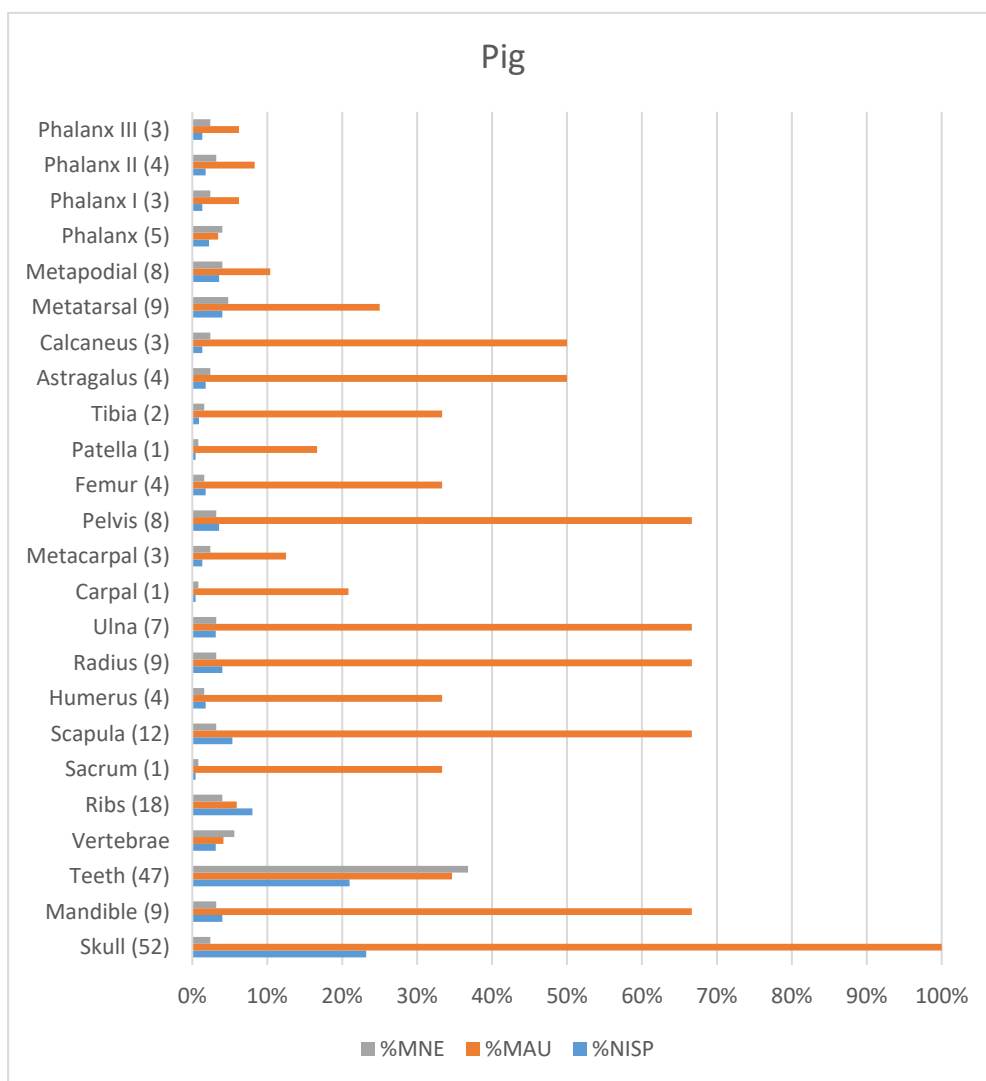


Fig. A.4.152. Skeletal elements according to %MNE, %NISP and %MAU.

Meat Supply

Skull followed by forelimb elements of medium meat value yield the largest amount. Although elements of the axial and cranial skeleton were included in the size 2 category and there could be an under-representation of these skeletal parts in the pig samples, there is a majority of appendicular fragments in this category so that the fore and hindlimb would be the main meat provider portions from the species (*table A.4.293, A.4.294, fig. A.4.153*). Cutting marks have been documented in the scapula and astragalus.

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	371.95	4.959	2.479	28.03
Mandible	137.69	1.835	0.917	10.37
Total cranial	509.64	6.795	3.397	38.41
Vertebrae	72.37	0.964	0.482	5.45
Ribs	89.91	1.198	0.599	6.77
Sacrum	9.9	0.132	0.066	0.74
Total axial	172.18	2.295	1.147	12.97
Scapula	87	1.16	0.58	6.55
Humerus	82.7	1.102	0.551	6.23
Radius	55.54	0.740	0.370	4.18
Ulna	77.98	1.039	0.519	5.86
Total forelimb	303.22	4.042	2.021	22.85
Carpal	3.1	0.041	0.020	0.22
Metacarpal	12.1	0.161	0.080	0.90
Total forefoot	15.2	0.202	0.101	1.14
Pelvis	97.72	1.302	0.651	7.36
Femur	65.66	0.875	0.437	4.94
Tibia	17.1	0.228	0.114	1.28
Patella	6.6	0.088	0.044	0.49
Total hindlimb	187.08	2.494	1.247	14.10
Astragalus	29.7	0.396	0.198	2.23
Calcaneus	14.5	0.193	0.096	1.08
Metatarsal	23.5	0.313	0.156	1.76
Total hindfoot	67.7	0.902	0.451	5.10
Metapodia	38.22	0.509	0.254	2.87
Phalanx	7.32	0.097	0.048	0.54
Phalanx I	8.2	0.109	0.054	0.61
Phalanx II	10.9	0.145	0.072	0.81
Phalanx III	6.7	0.089	0.044	0.49
Total foot	71.34	0.951	0.475	5.37
Total	1326.36	17.684	8.842	100

Table A.4.293. Meat supply according to skeletal elements (teeth are excluded).

Meat value	Cranial (g)	Axial (g)	Fore-limb (g)	Fore-foot (g)	Hind-limb (g)	Hind-foot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	15.2	-	67.7	71.34	154.24	2.056	1.028	11.62
Medium	509.64	89.91	133.52	-	23.7	-	-	756.77	10.090	5.045	57.05
High	-	82.27	169.7	-	163.38	-	-	415.35	5.538	2.769	31.31
Total	509.64	172.18	303.22	15.2	187.08	67.7	71.34	1326.36	17.684	8.842	100

Table A.4.294. Meat quality distribution.

Sex and Age

The epiphyseal fusion and dental eruption data indicate an adult above 36 months, a subadult-adult between 24 and 36 months as well as two infant/juvenile below twelve months. To these, dental wear data add an individual 20 months old.

According to dental morphology, two males and two females were identified. In addition, it has not been possible to calculate the mean height at the withers due to the lack of complete bones (*table A.4.295*).

Element	GLP	SLC	LG	BG		
Scapula	31.9	22.24	25.15	22.41	-	-
	30.65	-	22.24	19.99	-	-
	-	17.38	-	-	-	-
Element	SD	Bd	-	-	-	-
Humerus	16.13	36.26	-	-	-	-
Element	GL	SD	Bd	Dd	Bp	CD
Tibia	-	-	25.42	18.53	-	-
Element	Bd	DI	GLI	GLm	-	-
Astragalus	-	-	38.78	36.19	-	-
	-	-	36.11	32.73	-	-
Element	GB	-	-	-	-	-
Calcaneus	17.24	-	-	-	-	-
Element	B	Bp	Bd	-	-	-
Metacarpal IV	8.32	15.27	-	-	-	-
Metacarpal III	-	14.77	-	-	-	-
Element	B	LeP	Bd	Bp	-	-
Metatarsal III	12.44	85.5	17.08	-	-	-
	-	-	-	13.05	-	-
Element	Bp	Dp	SD	Bd	GL	-
Phalanx II	12.53	-	9.85	9.6	22.95	-
	16.11	14.76	13.62	15.69	22.4	-
	16.54	-	13.58	14.49	22.52	-
	15.4	-	13.71	15.16	20.42	-
Element				DLS	Ld	MBS
Phalanx III	-	-	-	28.53	27.1	11.85
	-	-	-	28.93	27.47	12.13
	-	-	-	32.11	-	8.09
Element	B	L				
M3	15.62	33.59	-	-	-	-

Table A.4.295. Measurements.

A.4.3.3 Soil Level 143

210 faunal remains were retrieved. Considering that most were assigned to indeterminate categories the proportion of unidentified remains is high (*table A.4.296*). The level of conservation of the faunal assemblage is poor, exhibiting a high fragmentation.

	NISP	%	Weight (g)	%
Identified	40	19.05	465.84	55.63
Unidentified	170	80.95	371.52	44.37
Total	210	100	837.36	100

Table A.4.296. Faunal remains from level 143.

Identified Fragments

Domestic faunas dominate an assemblage where pigs constitute the main taxon and caprines take second position followed by cattle (*table A.4.297*).

Species	NISP	%	MNI	%	Weight (g)	%
Cattle	6	15	1	12.5	233.8	50.18
Pig	19	47.5	2	25	179.04	38.43
Caprine	11	27.5	2	25	32.9	7.06
Total domestic	36	90	5	62.5	445.74	95.68
Deer	2	5	1	12.5	18.3	3.92
Lagomorpha	2	5	2	25	1.8	0.38
Total wild	4	10	3	37.5	20.1	4.31
Total identified	40	100	8	99.98	465.84	100

Table A.4.297. Results of the zooarchaeological analysis from level 143 including NISP, MNI and weight.

Unidentified Fragments

Size 3 fragments correspond to the axial skeleton. Since only cattle and deer have been documented, given the very different proportions of cattle and deer, it can be assumed that most elements represent cattle (*table A.4.298*). In the case of size 2 fragments, there is a predominance of fragments from the appendicular skeleton and a low proportion of elements from the axial and cranial skeleton.

	NISP	%	Weight (g)	%
Size 3	10	5.89	19.22	5.17
Size 2	160	94.11	352.3	94.83

Table A.4.298. Unidentified fragments from level 143.

Cattle

Skeletal Representation

The skeletal representation evidences an under-representation of all anatomical parts (*table A.4.299, fig. A.4.154*). The better represented portions are those of the hind foot and hindlimb, rather close to values seen in the standard bovid skeleton followed by cranial elements.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.96	-0.03	0.03
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	2	33.33	3.50	2	0.96	-0.03	3.53
Teeth	1	16.66	2.81	32	15.45	2.73	0.08
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	3	50	3.91	38	18.35	2.91	1
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	-	-	-	8	3.86	1.35	-1.35
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	-	-	-	4	1.93	0.65	-0.65
Total forefoot	-	-	-	16	7.72	2.04	-2.04
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	1	16.66	2.81	2	0.96	-0.03	2.84
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	1	16.66	2.81	10	4.83	1.57	1.24
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	1	16.66	2.81	6	2.89	1.06	1.75
Metatarsal	1	16.66	2.81	2	0.96	-0.03	2.84
Total hindfoot	2	33.33	3.50	12	5.79	1.75	1.75
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-1.35
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	6	100	4.60	207	100	4.60	0

Table A.4.299. Skeletal representation in cattle from level 143.

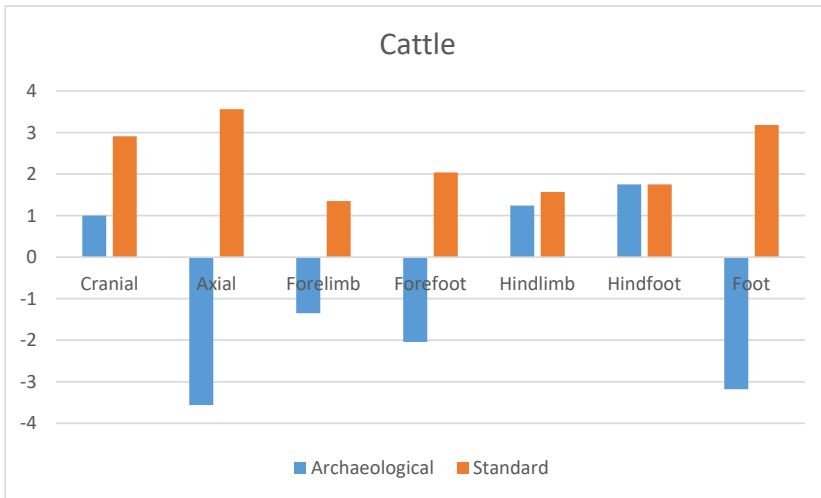


Fig. A.4.154. Skeletal representation in cattle.

Skeletal Elements

Based on the %MAU, cranial elements are the ones best represented followed by those from the hindlimb and hind foot. According to the percentage of completeness, tibia exhibit a higher rate of fragmentation with respect to the remaining elements that also exhibit a high fragmentation rate (table A.4.300, fig. A.4.155 a, A.4.155b, A.4.156).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Mandible	2	33.33	149.2	63.81	2	33.33	1	100	7	2	1	14.28
Teeth	1	16.66	1.4	0.59	1	16.66	0.03	3				
Tibia	1	16.66	65.7	28.1	1	16.66	0.5	50	10	1	1	10
Metatarsal	1	16.66	15	6.41	1	16.66	0.5	50	8	2	2	25
Tarsal	1	16.66	2.5	1.06	1	16.66	0.16	16	1	1	1	100
Total	6	100	233.8	100	6	100						

Table A.4.300. Skeletal elements and rate of fragmentation.

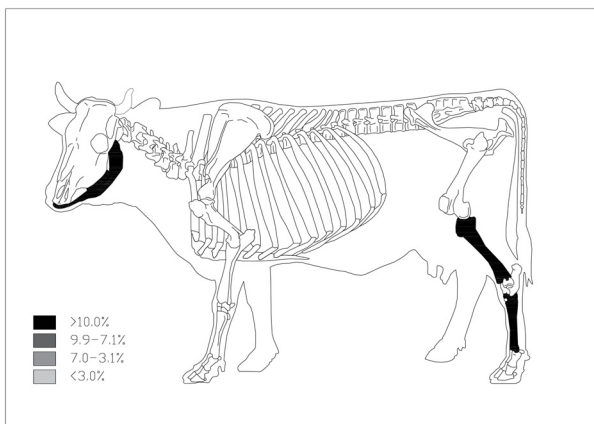


Fig. A.4.155a. Skeletal elements according to %NISP.

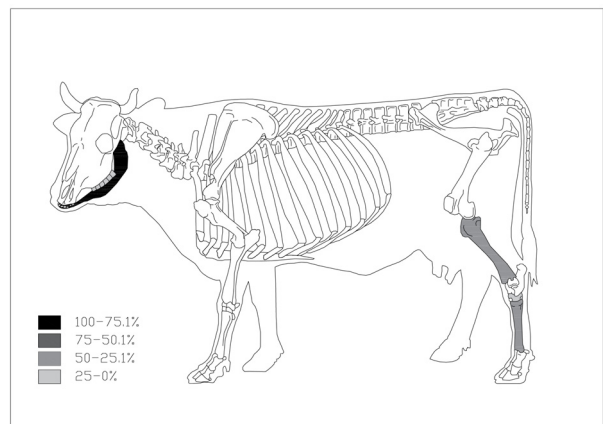


Fig. A.4. 155b. Skeletal elements according to %MAU.

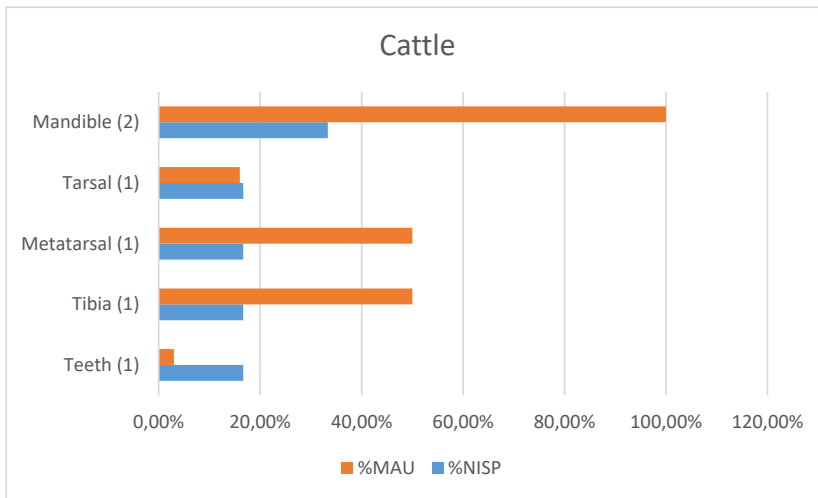


Fig. A.4.156. Skeletal elements according to %NISP and %MAU.

Meat Supply

Skull elements would yield the highest proportion of meat followed by those from the hindlimb. Many axial fragments are included in size group 3, so these may be under-represented in the cattle sample (table A.4.301, A.4.302, fig. A.4.157). Medium contribution elements predominate.

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	149.2	1.989	0.994	64.17
Total cranial	149.2	1.989	0.994	64.17
Tibia	65.7	0.876	0.438	28.27
Total hindlimb	65.7	0.876	0.438	28.27
Metatarsal	15	0.2	0.1	6.45
Tarsal	2.5	0.033	0.016	1.03
Total hindfoot	17.5	0.233	0.116	7.48
Total	232.4	3.098	1.549	100

Table A.4.301. Meat supply according to skeletal elements.

Meat quality	Cranial (g)	Hindlimb (g)	Hindfoot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	17.5	17.5	0.233	0.116	7.48
Medium	149.2	65.7	-	214.9	2.865	1.432	92.44
Total	149.2	65.7	17.5	232.4	3.098	1.549	100

Table A.4.302. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveals a subadult below 30 months. It has not been possible to establish sex differences due to the lack of pertinent anatomical elements. Likewise, it has not been possible to calculate the mean height at the withers due to the lack of complete bones.

Caprines

Skeletal Representation

The skeletal representation analysis reveals cranial skeleton to be over-represented when compared with a standard skeleton. Hindlimb are under-represented (*table A.4.303*, *fig. A.4.158*). Fragments from the axial, forelimb, fore foot, hind foot and foot elements at large were not documented.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	1	0.49	-0.71	0.71
Skull	2	22.22	3.10	2	0.98	-0.01	3.11
Mandible	-	-	-	2	0.98	-0.01	0.01
Teeth	6	66.66	4.19	32	15.68	2.75	1.44
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	8	88.88	4.48	38	18.62	2.92	3.05
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	-	-	-	2	0.98	-0.01	0.01
Humerus	-	-	-	2	0.98	-0.01	0.01
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	-	-	-	2	0.98	-0.01	0.01
Total forelimb	-	-	-	8	3.92	1.36	-1.36
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	1	11.11	2.40	2	0.98	-0.01	2.41
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	-	-	-	2	0.98	-0.01	0.01
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	1	11.11	2.40	10	4.90	1.58	0.82
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	-	-	-	12	5.88	1.77	-1.77
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-1.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	9	100	4.60	204	100	4.60	0

Table A.4.303. Skeletal representation in caprines from level 143.

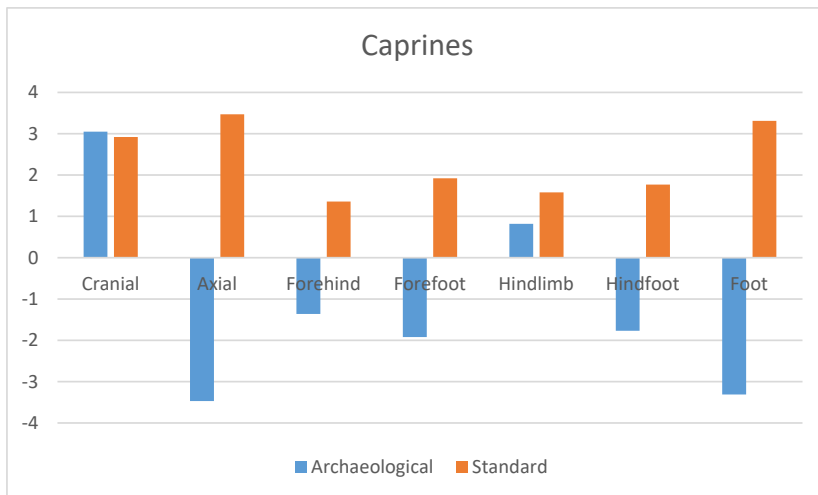


Fig. A.4.158. Skeletal representation in caprines.

Skeletal Elements

Based on the %MAU, the skull is the best represented category followed by the pelvis and the metapodia (table A.4.304, fig. A.4.159a, A.4.159b, A.4.160). Pelvis exhibit a higher fragmentation rate when compared to the remaining anatomical categories.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	2	20	15.6	47.41	2	20	2	100				
Teeth	6	60	6.9	20.97	6	60	0.187	9.35				
Pelvis	1	10	3.7	11.24	1	10	0.5	25	12	1	1	8.33
Metapodia	1	10	6.7	20.36	1	10	0.25	12.5	8	2	2	25
Total	10	100	32.9	100	10	100						

Table A.4.304. Skeletal elements and rate of fragmentation.

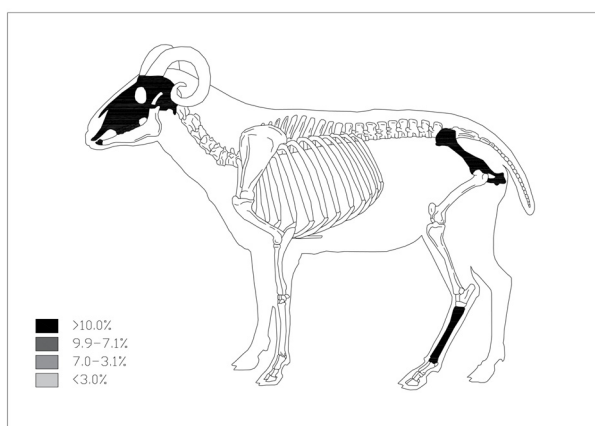


Fig. A.4.159a. Skeletal elements according to %NISP.

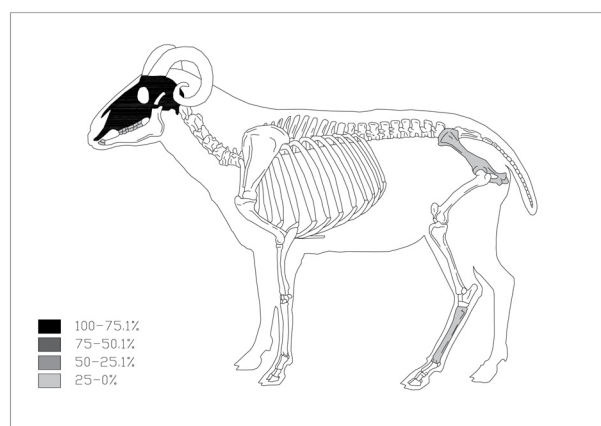


Fig. A.4.159b. Skeletal elements according to %MAU.

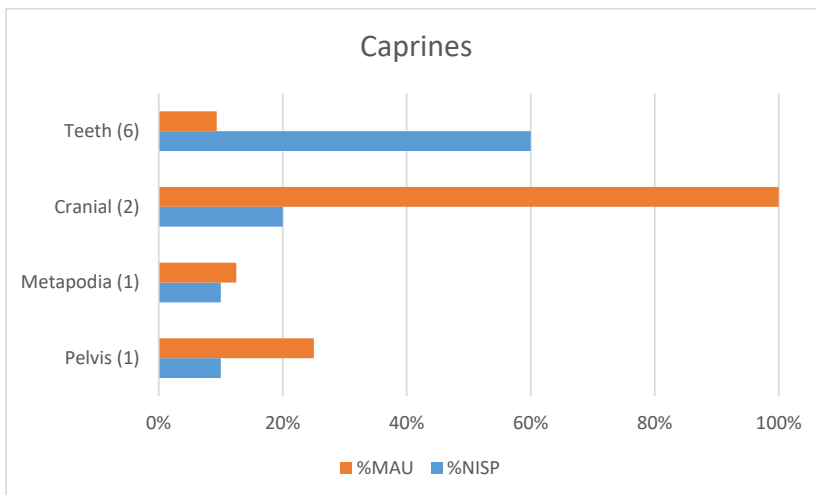


Fig. A.4.160. Skeletal elements according to %NISP and %MAU.

Meat Supply

Cranial elements contribute with the highest proportion of meat followed by foot (table A.4.305, A.4.306, fig. A.4.161). Due to fragmentation, many splinters from the appendicular skeleton have been included within size group 2 so these should be under-represented. Medium yield elements predominate.

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	15.6	0.208	0.104	60.11
Total cranial	15.6	0.208	0.104	60.11
Pelvis	3.7	0.049	0.024	13.87
Total hindlimb	3.7	0.049	0.024	13.87
Metapodia	6.7	0.089	0.044	25.43
Total foot	6.7	0.089	0.044	25.43
Total	26	0.346	0.173	100

Table A.4.305. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Hindlimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	6.7	6.7	0.089	0.044	25.43
Medium	15.6	-	-	15.6	0.208	0.104	60.11
High	-	3.7	-	3.7	0.049	0.024	13.87
Total	15.6	3.7	6.7	26	0.346	0.173	100

Table A.4.306. Meat quality distribution.

Sex and Age

Due to the absence of fragments allowing diagnosis, it has not been possible to estimate the sex or age of the two individuals documented (table A.4.307).

Element	BFp
Metatarsal	19.77

Table A.4.307. Measurements.

Pig**Skeletal Representation**

Skeletal representation reveals that all anatomical portions are under-represented when compared to a standard pig, the cranium being the best represented followed by the hindlimb, fore foot and indeterminate foot (*table A.4.308, fig. A.4.162*). Fragments from the axial skeleton, forelimb and hind foot were not documented.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	1	5.26	1.66	1	0.34	-1.06	2.72
Mandible	7	36.84	3.60	2	0.68	-0.37	3.97
Teeth	8	42.10	3.74	44	15.17	2.71	1.03
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	16	84.21	4.43	48	16.55	2.80	1.63
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	-	-	-	2	0.68	-0.37	0.37
Humerus	-	-	-	2	0.68	-0.37	0.37
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	-	-	-	2	0.68	-0.37	0.37
Total forelimb	-	-	-	8	2.75	1.01	-1.01
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	1	5.26	1.66	8	2.75	1.01	0.65
Total forefoot	1	5.26	1.66	24	8.27	2.11	-0.45
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	1	5.26	1.66	2	0.68	-0.37	2.03
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	1	5.26	1.66	10	3.44	1.23	0.43
Calcaneus	-	-	-	2	0.68	-0.37	0.37
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	-	-	-	26	8.96	2.19	-2.19
Phalanx I	-	-	-	16	5.51	1.70	-1.70
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	1	5.26	1.66	16	5.51	1.70	-0.04
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	1	5.26	1.66	88	30.34	3.41	-1.75
Total	19	100	4.60	290	100	4.60	0

Table A.4.308. Skeletal representation in pigs from level 143.

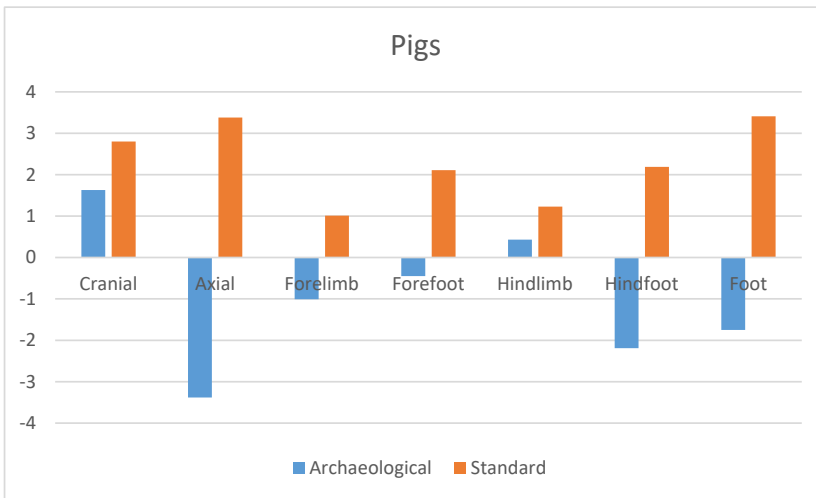


Fig. A.4.162. Skeletal representation in pigs.

Skeletal Elements

Based on the %MAU, elements from the cranial are those best represented followed by the fore foot (table A.4.309, fig. A.4.163 a, b, A.4.164). Undeterminate foot and hindlimb skeletal elements have minimal representations. Tibia exhibits the highest fragmentation rate when compared to the remaining anatomical categories.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	1	5.26	2	1.11	1	7.14	1	100				
Mandible	7	36.84	127.44	7.11	2	14.28	1	100	7	13	1.85	26.42
Teeth	8	42.1	18.4	10.27	8	5.71	0.18	18				
Metacarpal	1	5.26	6.3	3.51	1	7.14	0.125	12.5	3	2	2	66.66
Tibia	1	5.26	23	12.84	1	7.14	0.5	5	10	1	100	10
Phalanx III	1	5.26	1.9	1.06	1	7.14	0.0625	6.25	2	2	2	100
Total	19	100	179.04	100	14	100						

Table A.4.309. Skeletal elements and rate of fragmentation.

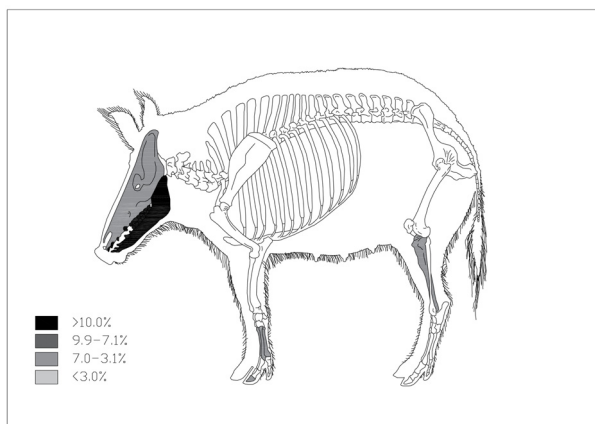


Fig. A.4.163a. Skeletal elements according to %NISP.

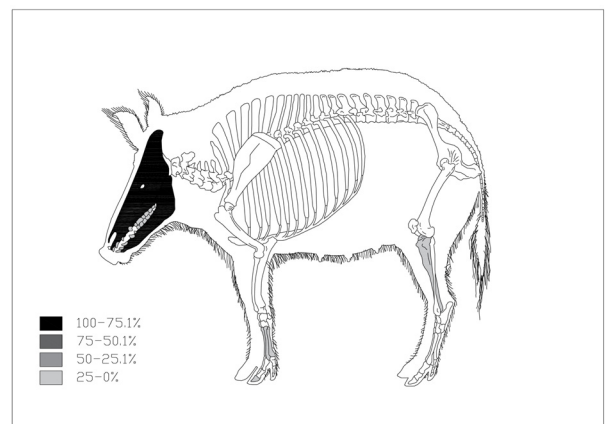


Fig. A.4.163b. Skeletal elements according to %MAU.

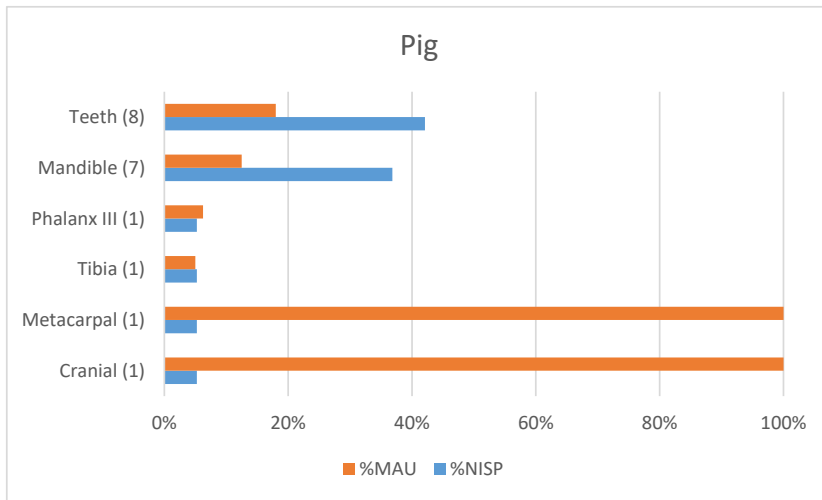


Fig. A.4.164. Skeletal elements according to %NISP and %MAU.

Meat Supply

Skeletal elements deriving from the cranial skeleton provided the greatest meat contributions followed by foot elements. Due to fragmentation, many fragments from the appendicular skeleton have been included as size group 2 so these should be under-represented in the pig samples (table A.4.310, A.4.311, fig. A.4.165). Medium contribution elements predominate.

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	2	0.002	0.001	0.09
Mandible	127.44	1.699	0.849	79.34
Total cranial	129.44	1.725	0.862	80.56
Metacarpal	6.3	0.084	0.042	3.92
Total forefoot	6.3	0.084	0.042	3.92
Tibia	23	0.306	0.153	14.29
Total hindlimb	23	0.306	0.153	14.29
Phalanx III	1.9	0.025	0.001	0.09
Total foot	1.9	0.025	0.001	0.09
Total	160.64	2.141	1.070	100

Table A.4.310. Meat supply according to skeletal elements (teeth are not included).

Meat value	Cranial (g)	Forefoot (g)	Hindlimb (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	6.3	-	1.9	8.2	0.109	0.054	5.04
Medium	129.44	-	23	-	152.44	2.032	1.016	94.95
Total	129.44	6.3	23	1.9	160.64	2.141	1.070	100

Table A.4.311. Meat quality distribution.

Sex and Age

Dental wear and eruption data reveal one subadult was slaughtered at 23 months. It has not been possible to establish sex differences due to lack of the pertinent elements. Likewise, it has not been possible to calculate the mean height at the withers due to the absence of complete bones. The poor state of conservation, allowed for only two bones to be measured (*table A.4.312*).

Element	GL	SD	Bp	Bd	DLS	Ld	MBS
Metacarpal IV			16.77				
Phalanx III					25.89	25.05	10.84

Table A.4.312. Measurements.

A.4.3.4 Structure 116

A.4.3.4.a Structure 116: Level 121

310 faunal remains comprise the collection. Considering that most were assigned to indeterminate categories the proportion of unidentified remains is high (*table A.4.313*). The level of conservation is poor, exhibiting an intensive fragmentation.

	NISP	%	Weight (g)	%
Identified	27	8.70	301.17	46.27
Unidentified	283	91.29	349.61	53.72
Total	310	100	650.78	100

Table A.4.313. Faunal remains from level 121.

Identified Fragments

Domestic faunas dominate an assemblage where pigs constitute the main taxon and caprines take second position followed by cattle (*table A.4.314*).

Species	NISP	%NISP	MNI	%MNI	Weight (g)	%Weight
Cattle	5	18.51	1	20	156.6	51.99
Caprine	9	33.33	1	20	72.57	24.09
Pig	10	37.03	1	20	66.8	22.18
Total domestic	24	88.88	3	60	295.97	98.27
Deer	2	7.4	1	20	3.9	1.29
Hare	1	3.7	1	20	1.3	0.43
Total wild	3	11.11	2	40	5.2	1.72
Total identified	27	99.99	5	100	301.17	99.99

Table A.4.314. Results of the zooarchaeological analysis from level 121 at Pabellon Cubierto (Valencina-Castilleja) including NISP, MNI and weight.

Unidentified Fragments

Size 3 fragments identified as correspond to those from the appendicular skeleton (*table A.4.315*). In the case of size 2 fragments, there is a predominance of splinters from the appendicular skeleton and a low proportion of elements from the axial and cranial skeleton.

Size	NISP	%	Weight (g)	%
Size 3	2	0.70	6.8	1.95
Size 2	281	99.30	342.81	98.05
Total unidentified	283	100	349.61	100

Table A.4.315. Unidentified fragments from level 121.

Cattle

Skeletal Representation

The skeletal representation study evidences an over-representation of forelimb elements. The remaining portions are under-represented relation to a standard skeleton (*table A.4.316, fig. A.4.166*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	1	20	2,99	2	0.96	-0.03	3.02
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	-	-	-	2	0.96	-0.03	0.03
Teeth	-	-	-	32	15.45	2.73	-2.73
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	1	20	2,99	38	18.35	2.91	0.08
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	1	20	2,99	2	0.96	-0.03	3.02
Radius	-	-	-	2	0.96	-0.03	0.03
Ulna	-	-	-	2	0.96	-0.03	0.03
Total forelimb	1	20	2,99	8	3.86	1.35	1.64
Carpal	-	-	-	12	5.79	1.75	-1.75
Metacarpal	1	20	2,99	4	1.93	0.65	2.34
Total forefoot	1	20	2,99	16	7.72	2.04	0.95
Pelvis	-	-	-	2	0.96	-0.03	0.03
Femur	1	20	2,99	2	0.96	-0.03	3.02
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	1	20	2,99	10	4.83	1.57	1.42
Calcaneus	-	-	-	2	0.96	-0.03	0.03
Astragalus	-	-	-	2	0.96	-0.03	0.03
Tarsal	-	-	-	6	2.89	1.06	-1.06
Metatarsal	1	20	2,99	2	0.96	-0.03	3.02
Total hindfoot	1	20	2,99	12	5.79	1.75	1.24
Phalanx I	-	-	-	8	3.86	1.35	-1.35
Phalanx II	-	-	-	8	3.86	1.35	-1.35
Phalanx III	-	-	-	8	3.86	1.35	-1.35
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	-	-	-	50	24.15	3.18	-3.18
Total	5	100	4.60	207	100	4.60	0

Table A.4.316. Skeletal representation in cattle from level 121.

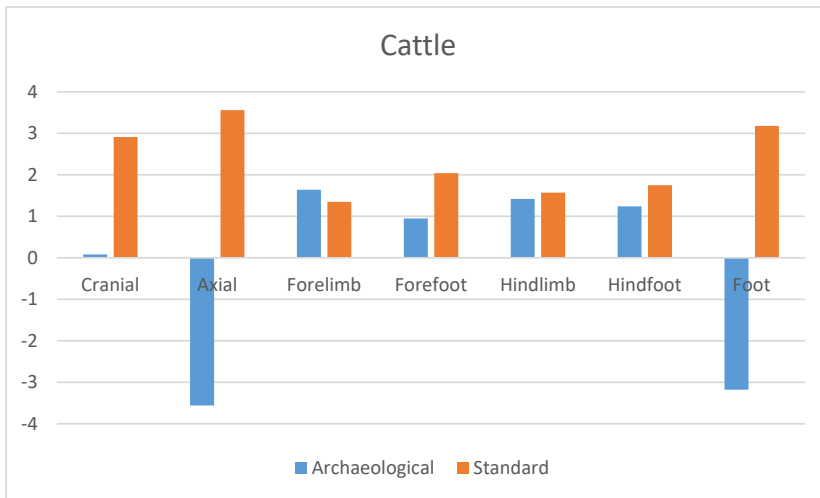


Fig. A.4.166. Skeletal representation in cattle.

Skeletal Elements

All elements are represented by %MAU of 100. According to the percentage of completeness. Humerus and femur exhibit a higher rate of fragmentation in relation with the remaining elements, which also are intensively fragmented (table A.4.317, fig. A.4.167, 1.168).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Horn cores	1	20	5.1	3.25	1	20	0.5	100				
Humerus	1	20	20.9	13.34	1	20	0.5	100	11	1	1	9.09
Metacarpal	1	20	9.6	6.13	1	20	0.5	100	8	2	2	25
Femur	1	20	18	11.49	1	20	0.5	100	11	1	1	9.09
Metatarsal	1	20	103	65.77	1	20	0.5	100	8	2	2	25
Total	5	100	156.6	100	5	100						

Table A.4.317. Skeletal elements and rate of fragmentation.

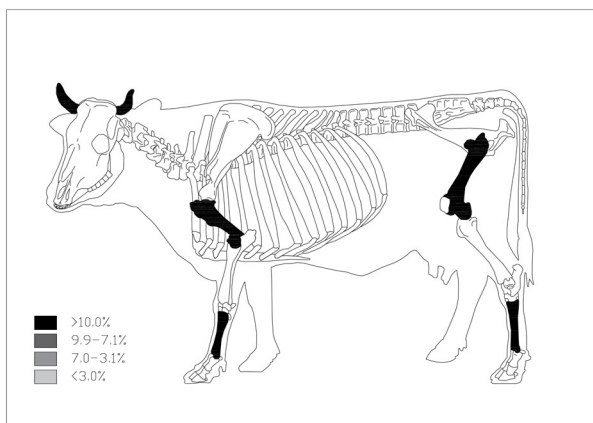


Fig. A.4.167. Skeletal elements according to %NISP.

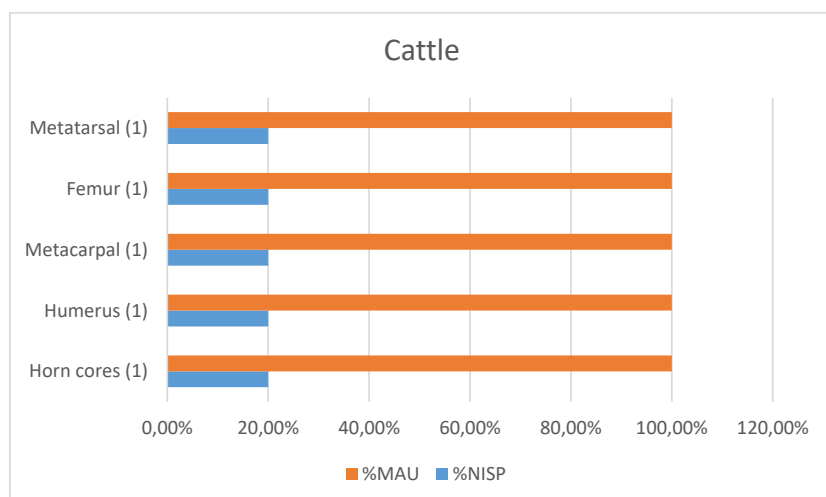


Fig. A.4.168. Skeletal elements according to %NISP and %MAU.

Meat Supply

Forelimb and hindlimb elements, mainly the high meat yield femur and humerus constitute the main meat contributors (*table A.4.318, A.4.319, fig. A.4.169*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Humerus	20.9	0.278	0.139	13.80
Total forelimb	20.9	0.278	0.139	13.80
Metacarpal	9.6	0.128	0.064	6.35
Total forefoot	9.6	0.128	0.064	6.35
Femur	18	0.24	0.12	11.91
Total hindlimb	18	0.24	0.12	11.91
Metatarsal	103	1.373	0.686	68.12
Total hindfoot	103	1.373	0.686	68.12
Total	151.1	2.014	1.007	100

Table A.4.318. Meat supply according to skeletal elements (horn cores not included).

Meat value	Forelimb (g)	Forefoot (g)	Hindlimb (g)	Hindfoot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	9.6	-	103	112.6	1.501	0.750	74.47
High	20.9	-	18	-	38.9	0.518	0.259	25.71
Total	20.9	9.6	18	103	151.1	2.014	1.007	100

Table A.4.319. Meat quality distribution.

Sex and Age

The epiphyseal fusion data indicates a subadult below 30 months. It has not been possible to establish sex differences due to lack of pertinent anatomical elements. Likewise, it has not been possible to calculate mean height at the withers due to lack of complete bones.

Caprines

Skeletal Representation

The skeletal representation analysis reveals that caprine forelimbs are over-represented when compared with a standard skeleton (*table A.4.320, fig. A.4.170*). The rest of anatomical parts are under-represented relation to a standard skeleton.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	2	22.22	3.10	2	0.98	-0.01	3.11
Teeth	1	11.11	2.40	32	15.68	2.75	-0.35
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	3	33.33	3.50	38	18.62	2.92	0.58
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	1	11.11	2.40	2	0.98	-0.01	2.41
Humerus	1	11.11	2.40	2	0.98	-0.01	2.41
Radius	-	-	-	2	0.98	-0.01	0.01
Ulna	2	22.22	3.10	2	0.98	-0.01	3.11
Total forelimb	4	44.44	3.79	8	3.92	1.36	2.43
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	-	-	-	2	0.98	-0.01	0.01
Total forefoot	-	-	-	14	6.86	1.92	-1.92
Pelvis	-	-	-	2	0.98	-0.01	0.01
Femur	-	-	-	2	0.98	-0.01	0.01
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	1	11.11	2.40	2	0.98	-0.01	2.41
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	1	11.11	2.40	10	4.90	1.58	0.82
Calcaneus	-	-	-	2	0.98	-0.01	0.01
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	-1.07
Metatarsal	1	11.11	2.40	2	0.98	-0.01	2.41
Total hindfoot	1	11.11	2.40	12	5.88	1.77	0.63
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	9	100	4.60	204	100	4.60	0

Table A.4.320. Skeletal representation in caprines from level 121.

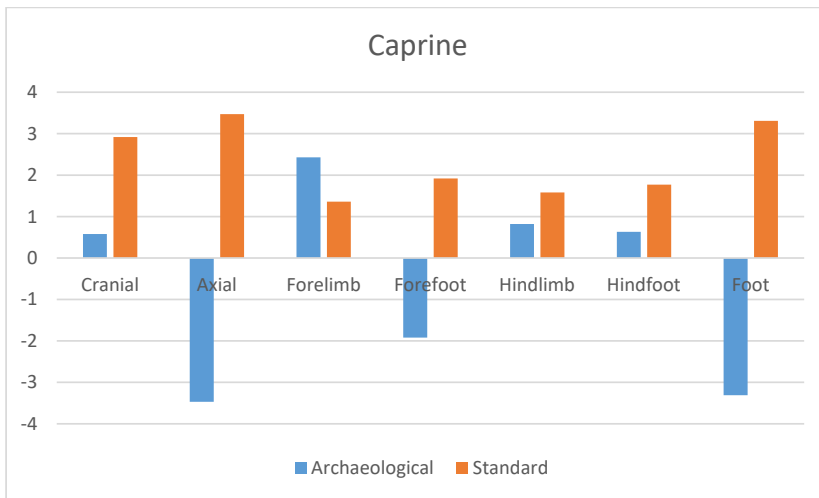


Fig. A.4.170. Skeletal representation in caprine.

Skeletal Elements

All elements are %MAU value of 100, except for teeth (1.2%). Identified elements exhibit intensive fragmentation, similar for all elements (table A.4.321, fig. A.4.171a, A.4.171b, A.4.172).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Mandible	1	11.11	0.9	1.24	1	12.5	0.5	100	7	2	2	28.57
Teeth	2	22.22	4.3	5.92	2	25	0.06	1.2				
Scapula	1	11.11	1.7	2.34	1	12.5	0.5	100	9	1	1	11.11
Humerus	1	11.11	51.37	70.78	1	12.5	0.5	100	11	2	2	18.18
Ulna	2	22.22	6.6	9.09	1	12.5	0.5	100	9	2	1	11.11
Tibia	1	11.11	3.3	4.54	1	12.5	0.5	100	10	1	1	10
Metatarsal	1	11.11	4.4	6.06	1	12.5	0.5	100	8	1	1	12.5
Total	9	100	72.57	100	8	100						

Table A.4.321. Skeletal elements and rate of fragmentation.

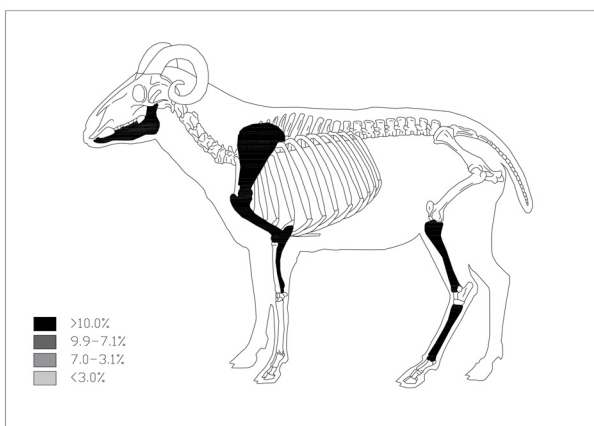


Fig. A.4.171a. Skeletal elements according to %NISP.

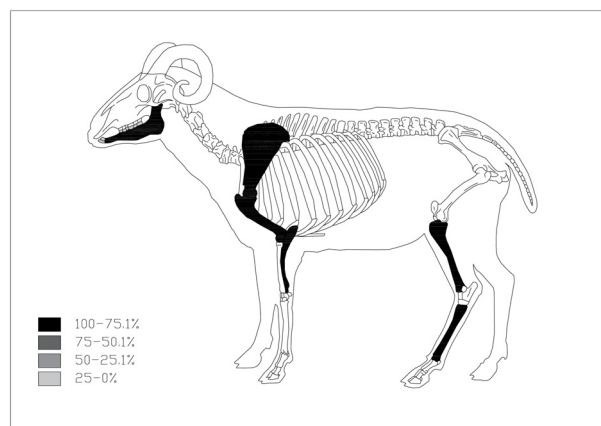


Fig. A.4.171b. Skeletal elements according to %MAU.

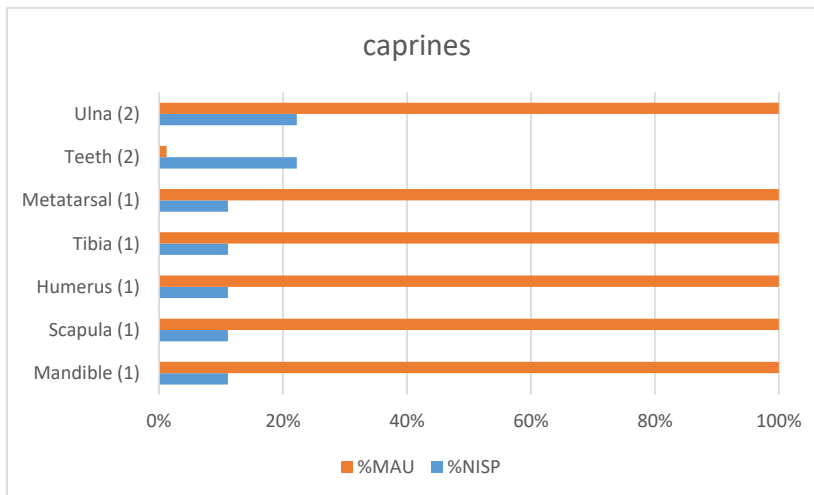


Fig. A.4.172. Skeletal elements according to %NISP and %MAU.

Meat Supply

Forelimb elements, in particular those with a higher m yield value are the main meat contributors (*table A.4.322, A.4.323, fig. A.4.173*).

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	0.9	0.012	0.006	1.31
Total craneal	0.9	0.012	0.006	1.31
Scapula	1.7	0.022	0.011	2.41
Humerus	51.37	0.684	0.342	75.16
Ulna	6.6	0.088	0.044	9.67
Total forelimb	59.67	0.795	0.397	87.25
Tibia	3.3	0.044	0.022	4.83
Total hindlimb	3.3	0.044	0.022	4.83
Metatarsal	4.4	0.058	0.029	6.37
Total hindfoot	4.4	0.058	0.029	6.37
Total	68.27	0.910	0.455	100

Table A.4.322. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Forelimb (g)	Hindlimb (g)	Hindfoot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	4.4	4.4	0.058	0.029	6.37
Medium	0.9	6.6	3.3	-	10.8	0.144	0.072	15.82
High	-	53.07	-	-	53.07	0.707	0.353	77.58
Total	0.9	59.67	3.3	4.4	68.27	0.910	0.455	100

Table A.4.323. Meat quality distribution.

Sex and Age

Due to the absence of fragments allowing diagnosis, it has not been possible to estimate either the sex or the age of the individual documented.

Pig**Skeletal Representation**

The skeletal representation analysis reveals the forelimb to be over-represented when compared with a standard suid skeleton (*table A.4.324, fig. A.4.173*). Cranial and fore foot skeletal elements are under-represented. Axial skeleton and hindlimbs were not documented.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	-	-	-	1	0.34	-1.06	1.06
Mandible	2	20	2.99	2	0.68	-0.37	3.36
Teeth	3	30	3.40	44	15.17	2.71	0.69
Hyoid	-	-	-	1	0.34	-1.06	1.06
Total cranial	5	50	3.91	48	16.55	2.80	1.11
Vertebrae	-	-	-	56	19.31	2.96	-2.96
Rib	-	-	-	28	9.65	2.26	-2.26
Sacrum	-	-	-	1	0.34	-1.06	1.06
Sternum	-	-	-	1	0.34	-1.06	1.06
Total axial	-	-	-	86	29.65	3.38	-3.38
Scapula	-	-	-	2	0.68	-0.37	0.37
Humerus	-	-	-	2	0.68	-0.37	0.37
Radius	-	-	-	2	0.68	-0.37	0.37
Ulna	1	10	2.30	2	0.68	-0.37	2.67
Total forelimb	1	10	2.30	8	2.75	1.01	1.29
Carpal	-	-	-	16	5.51	1.70	-1.70
Metacarpal	2	20	2.99	8	2.75	1.01	1.98
Total forefoot	2	20	2.99	24	8.27	2.11	0.88
Pelvis	-	-	-	2	0.68	-0.37	0.37
Femur	-	-	-	2	0.68	-0.37	0.37
Patella	-	-	-	2	0.68	-0.37	0.37
Tibia	-	-	-	2	0.68	-0.37	0.37
Fibula	-	-	-	2	0.68	-0.37	0.37
Total hindlimb	-	-	-	10	3.44	1.23	-1.23
Calcaneus	1	10	2.30	2	0.68	-0.37	2.67
Astragalus	-	-	-	2	0.68	-0.37	0.37
Tarsal	-	-	-	14	4.82	1.57	-1.57
Metatarsal	-	-	-	8	2.75	1.01	-1.01
Total hindfoot	1	10	2.30	26	8.96	2.19	0.11
Phalanx I	-	-	-	16	5.51	1.70	-1.70
Phalanx II	-	-	-	16	5.51	1.70	-1.70
Phalanx III	1	10	2.30	16	5.51	1.70	0.6
Sesamoids	-	-	-	40	13.79	2.62	-2.62
Total foot	1	10	2.30	88	30.34	3.41	-1.11
Total	10	100	4.60	290	100	4.60	0

Table A.4.324. Skeletal representation in pigs from level 121.

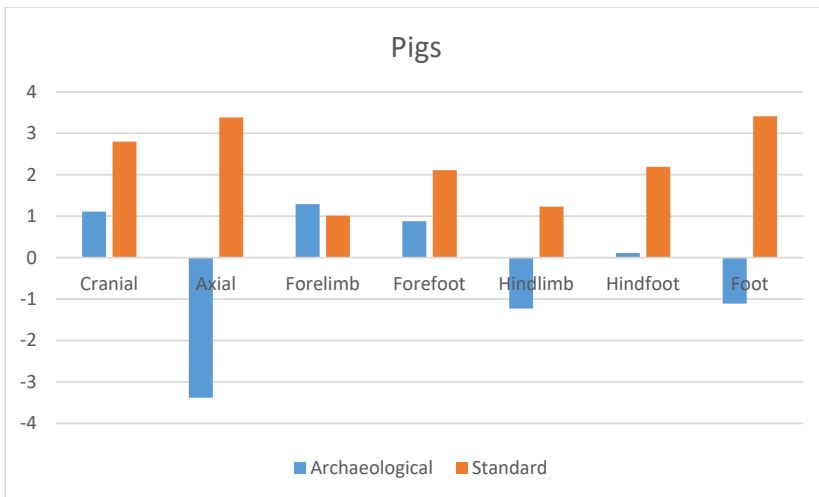


Fig. A.4.174. Skeletal representation in pigs.

Skeletal Elements

Based on the %MAU, mandible, ulna, metacarpal and calcaneus are the best represented elements followed by teeth and phalanx III (table A.4.325, fig. A.4.175a, A.4.175b, A.4.176). The elements with the highest fragmentation rate correspond to the mandible and ulna. The remaining categories corresponding to feet, exhibit a very restricted fragmentation.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Mandible	2	20	26.4	39.52	1	12.5	0.5	100	7	4	2	28.57
Teeth	3	30	3	4.49	3	37.5	0.06	12				
Ulna	1	10	5	7.48	1	12.5	0.5	100	9	3	3	33.33
Metacarpal	2	20	13.4	20.05	1	12.5	0.125	6.25	3	5	2.5	83.33
Calcaneus	1	10	17.4	26.04	1	12.5	0.5	100	5	5	5	100
Phalanx III	1	10	1.6	2.39	1	12.5	0.125	6.25	2	2	2	100
Total	10	100	66.8	100	8	100						

Table A.4.325. Skeletal elements and rate of fragmentation.

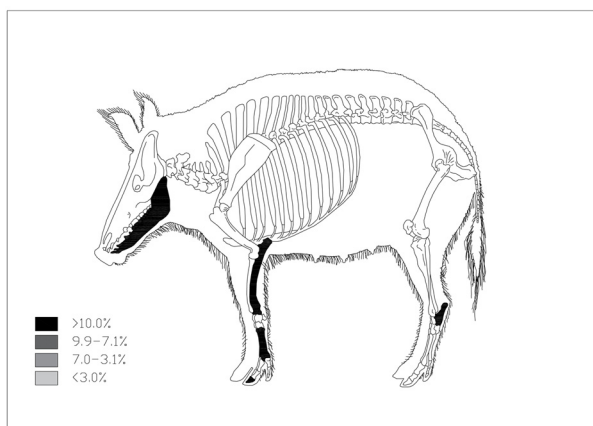


Fig. A.4.175a. Skeletal elements according to %NISP.

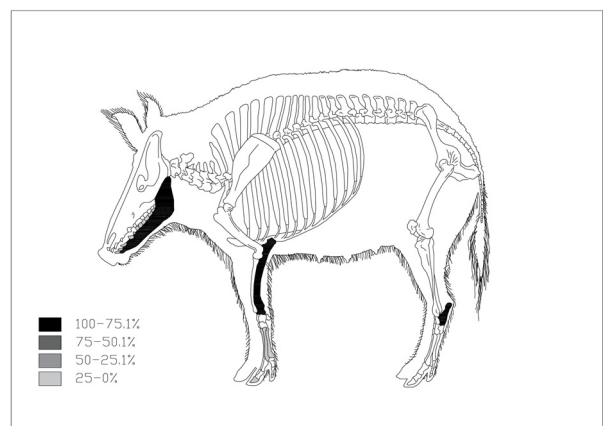


Fig. A.4.175b. Skeletal elements according to %MAU.

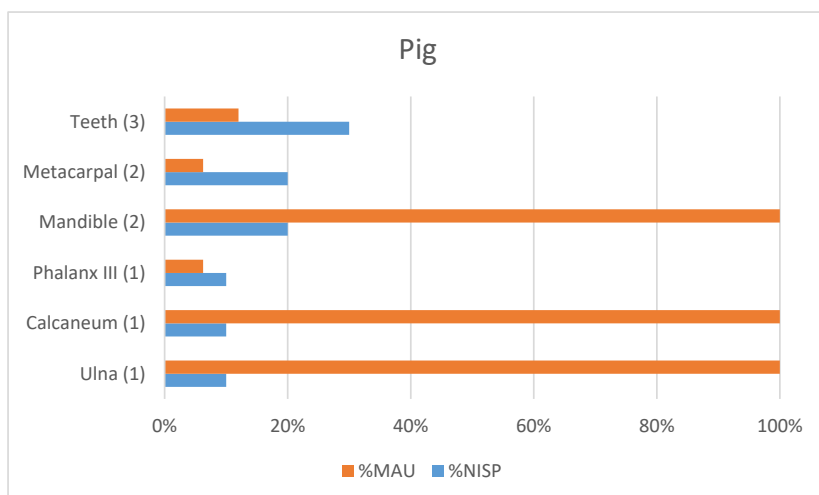


Fig. A.4.176. Skeletal elements according to %NISP and %MAU.

Meat Supply

Cranial skeleton elements provide the highest meat yield followed by foot elements. Due to their high fragmentation, many fragments from the appendicular skeleton have been included in size group 2, thus these anatomical parts must be under-represented (table A.4.326, A.4.327, fig. A.4.177).

Skeletal elements	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	26.4	0.352	0.176	41.41
Total cranial	26.4	0.352	0.176	41.41
Ulna	5	0.066	0.033	7.76
Total forelimb	5	0.066	0.033	7.76
Metacarpal	13.4	0.178	0.089	20.94
Total forefoot	13.4	0.178	0.089	20.94
Calcaneus	17.4	0.232	0.116	27.29
Total hindfoot	17.4	0.232	0.116	27.29
Phalanx III	1.6	0.021	0.010	2.35
Total foot	1.6	0.021	0.010	2.35
Total	63.8	0.850	0.425	100

Table A.4.326. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Fore-limb (g)	Forefoot (g)	Hindfoot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	13.4	17.4	1.6	32.4	0.432	0.216	50.82
Medium	26.4	5	-	-	-	31.4	0.418	0.209	49.17
Total	26.4	5	13.4	17.4	1.6	63.8	0.850	0.425	100

Table A.4.327. Meat quality distribution.

Sex and Age

The epiphyseal fusion data indicates the presence of a subadult/adult over 24 months. It has not been possible to determine the sex status due to lack of pertinent anatomical elements. Likewise, it has not been possible to calculate the mean height at the withers due to the lack of complete bones (*table A.4.328*).

Element	GL	GB	SD	Bp	B	DLS	Ld	MBS
Metacarpal III	77.81	20.68		15.58				
Metacarpal IV				15.33	12.54			
Phalanx III						27.67		11.81

Table A.4.328. Measurements.

A.4.3.4.b Structure 116: Level 124

735 faunal remains make up the collection. Considering that most remains were assigned to unidentified categories the proportion of unidentified remains is high (*table A.4.329*). The level of conservation is poor, exhibiting an intensive fragmentation.

	NISP	%	Weight (g)	%
Identified	141	19.19	1614.63	58.99
Unidentified	594	80.81	1122.71	41.01
Total	735	100	2737.34	100

Table A.4.329. Faunal remains from level 124.

Identified Fragments

Domestic faunas dominate an assemblage where pigs constitute the main taxon and caprines take second position followed by cattle (*table A.4.330*).

Species	NISP	%NISP	MNI	%MNI	Weight (g)	%Weight
Cattle	25	17.48	2	11.76	742.22	45.96
Caprine	50	35.66	7	41.17	373.45	23.12
Sheep	1					
Pig	58	40.55	4	23.52	451.88	27.98
Dog	1	0.69	1	5.88	3.98	0.24
Total domestic	135	94.40	14	82.35	1571.53	97.33
Wild board	1	0.69	1	5.88	14.5	0.89
Deer	2	1.39	1	5.88	25.1	1.55
Hare	5	3.49	1	5.88	3.5	0.21
Total wild	8	5.59	3	17.64	43.1	2.66
Total identified	143	100	17	100	1614.63	100

Table A.4.330. Results of the zooarchaeological analysis from level 124 at Pabellon Cubierto (Valencia-Castilleja) including NISP, MNI and weight.

Unidentified Fragments

Size 3 fragments are mostly from the axial skeleton followed by some from the appendicular and cranial skeleton. Since only cattle and deer have been documented, it can be assumed, that size 3 elements correspond to cattle given its far higher frequency when compared to deer. In the case of size 2 fragments, there is a predominance of those from the appendicular skeleton and a low proportion of elements from the axial and cranial skeleton (*table A.4.331*).

	NISP	%	Weight (g)	%
Size 3	27	4.55	221.03	19.68
Size 2	567	95.45	901.68	80.32
Total unidentified	594	100	1122.71	100

Table A.4.331. Unidentified fragments from level 124.

Cattle

Skeletal Representation

The skeletal representation study shows an over-representation of forelimb parts (*table A.4.332, fig. A.4.178*). The remaining are under-represented in relation to a standard skeleton.

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	1	4	1.38	2	0.96	-0.03	1.41
Skull	-	-	-	1	0.48	-0.72	0.72
Mandible	1	4	1.38	2	0.96	-0.03	1.41
Teeth	1	4	1.38	32	15.45	2.73	-1.35
Hyoid	-	-	-	1	0.48	-0.72	0.72
Total cranial	3	12	2.48	38	18.35	2.91	-0.42
Vertebrae	-	-	-	45	21.73	3.07	-3.07
Rib	-	-	-	26	12.56	2.53	-2.53
Sacrum	-	-	-	1	0.48	-0.72	0.72
Sternum	-	-	-	1	0.48	-0.72	0.72
Total axial	-	-	-	73	35.26	3.56	-3.56
Scapula	-	-	-	2	0.96	-0.03	0.03
Humerus	-	-	-	2	0.96	-0.03	0.03
Radius	3	12	2.48	2	0.96	-0.03	2.51
Ulna	4	16	2.77	2	0.96	-0.03	2.80
Total forelimb	7	28	3.33	8	3.86	1.35	1.98
Carpal	1	4	1.38	12	5.79	1.75	-0.37
Metacarpal	1	4	1.38	4	1.93	0.65	0.73
Total forefoot	2	8	2.07	16	7.72	2.04	0.03
Pelvis	2	8	2.07	2	0.96	-0.03	2.1
Femur	-	-	-	2	0.96	-0.03	0.03
Patella	-	-	-	2	0.96	-0.03	0.03
Tibia	-	-	-	2	0.96	-0.03	0.03
Fibula	-	-	-	2	0.96	-0.03	0.03
Total hindlimb	2	8	2.07	10	4.83	1.57	0.50
Calcaneus	2	8	2.07	2	0.96	-0.03	2.10
Astragalus	1	4	1.38	2	0.96	-0.03	1.41
Tarsal	1	4	1.38	6	2.89	1.06	2.44
Metatarsal	-	-	-	2	0.96	-0.03	0.03
Total hindfoot	4	16	2.77	12	5.79	1.75	1.02
Phalanx I	4	16	2.77	8	3.86	1.35	1.42
Phalanx II	2	8	2.07	8	3.86	1.35	0.72
Phalanx III	1	4	1.38	8	3.86	1.35	0.03
Sesamoids	-	-	-	26	12.56	2.53	-2.53
Total foot	7	28	3.33	50	24.15	3.18	0.15
Total	25	100	4.60	207	100	4.60	0

Table A.4.332. Skeletal representation in cattle from level 124.

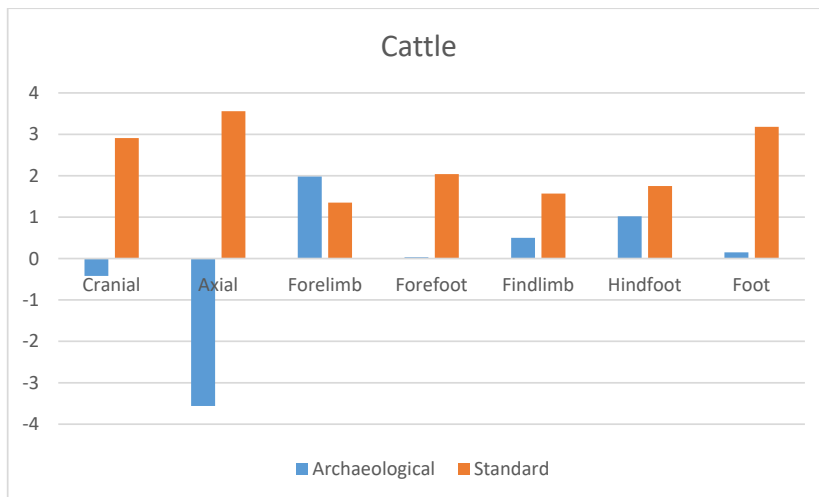


Fig. A.4.178. Skeletal representation in cattle.

Skeletal Elements

Based on the %MAU, elements from the forelimb are best represented along with the calcaneus. Teeth and carpals have minimal representation. Fragmentation rate shows high values for elements coming from the cranial skeleton, forelimb and hindlimb. In the case of feet the fragmentation rate is very low (table A.4.333, fig. A.4.179a, A.4.179b, A.4.180).

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Horn	1	4.34	1.9	0.25	1	5.26	0.5	50				
Mandible	1	4.34	17.5	2.35	1	5.26	0.5	50	7	1	1	14.28
Teeth	1	4.34	2.4	0.32	1	5.26	0.031	3.1				
Radius	1	4.34	25	3.36					10	1	1	10
Ulna	2	8.69	16	2.15	2	10.52	1	100	9	2	1	11.11
Radioulna	2	8.69	177	23.84					19	2	1	5.26
Carpal	1	4.34	12.2	1.64	1	5.26	0.08	8	1	1	1	100
Metacarpal	1	4.34	38.9	5.24	1	5.26	0.5	50	8	1	1	12.5
Pelvis	2	8.69	87	11.72	1	5.26	0.5	50	12	2	1	8.33
Calcaneus	2	8.69	148.82	20.05	2	10.52	1	100	5	8	4	80
Astragalus	1	4.34	84	11.31	1	5.26	0.5	50	4	4	4	100
Tarsal	1	4.34	6.7	0.90	1	5.26	0.16	16	1	1	1	100
Phalanx I	4	17.39	85	11.45	4	21.05	0.5	50	3	12	3	100
Phalanx II	2	8.69	20.8	2.80	2	10.52	0.25	25	3	5	2.5	83.33
Phalanx III	1	4.34	19	2.55	1	5.26	0.125	12.5	2	2	2	100
Total	23	100	742.22	100	19	100						

Table A.4.333. Skeletal elements and rate of fragmentation.

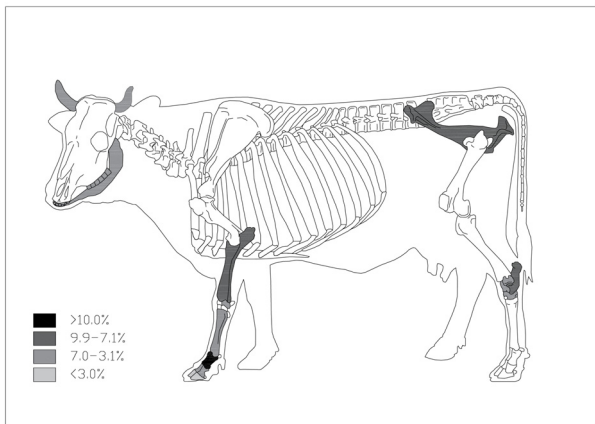


Fig. A.4.179a. Skeletal elements according to %NISP.

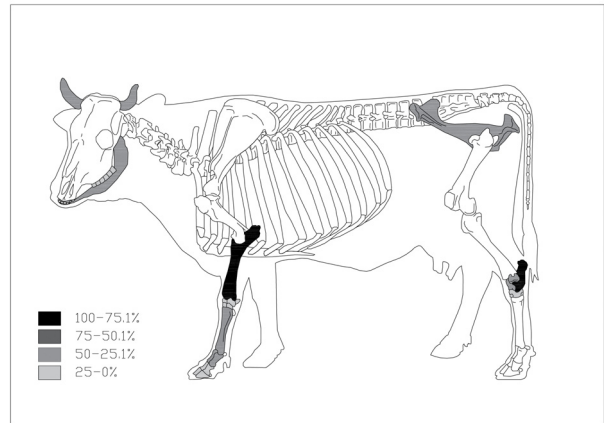


Fig. A.4.179b. Skeletal elements according to %MAU.

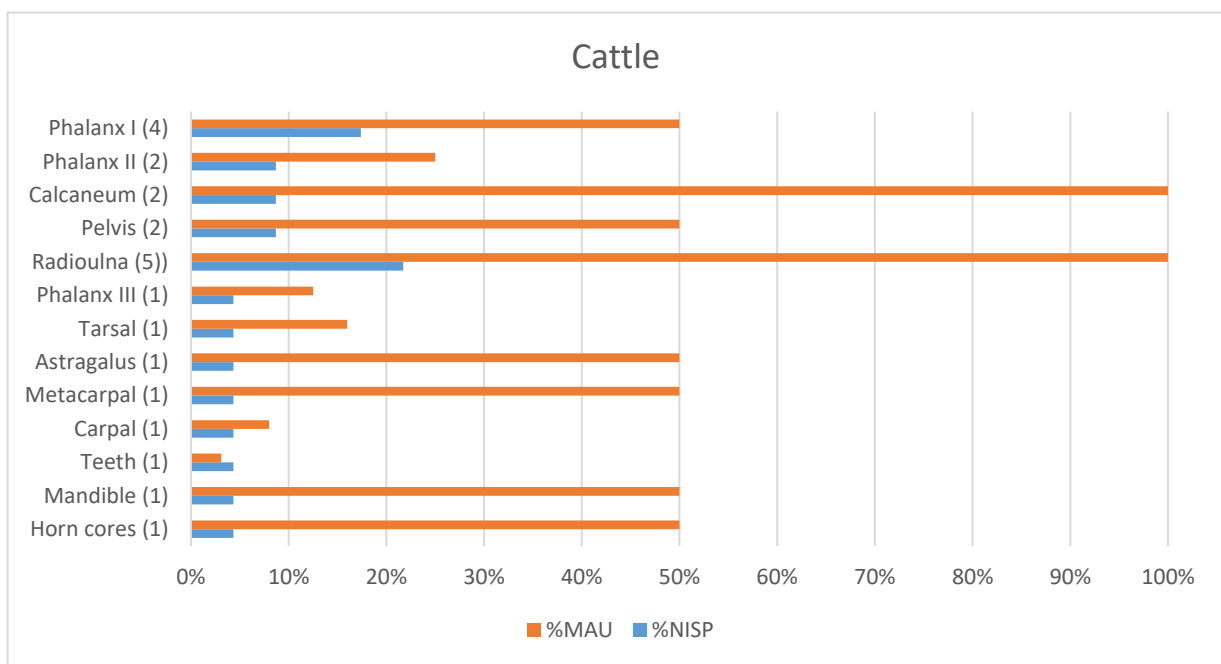


Fig. A.4.180. Skeletal elements according to %NISP and %MAU.

Meat Supply

Elements deriving from the forelimb and hindlimb, mostly the pelvis with a high meat content and the radio-ulna with medium values, constitute the main meat contributors (*table 4.334, A.4.335*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	17.5	0.233	0.116	2.34
Total cranial	17.5	0.233	0.116	2.34
Radius	25	0.333	0.166	3.35
Ulna	16	0.213	0.106	2.14
Radioulna	177	2.36	1.18	23.84
Total forelimb	218	2.906	1.453	29.36
Carpal	12.2	0.162	0.325	6.56
Metacarpal	38.9	0.518	0.259	5.23
Forefoot	51.1	0.681	0.340	6.87
Pelvis	87	1.16	0.58	11.72
Hindlimb	87	1.16	0.58	11.72
Calcaneus	148.82	1.984	0.992	20.04
Astragalus	84	1.12	0.56	11.31
Tarsal	6.7	0.089	0,044	0.88
Hindfoot	239.52	3.193	1.596	32.25
Phalanx I	85	1.133	0.566	11.43
Phalax II	20.8	0.277	0.138	2.78
Phalanx III	19	0.253	0.126	2.54
Total foot	124.8	1.664	0.832	16.81
Total	742.22	9.896	4.948	100

Table A.4.334. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Fore-limb (g)	Fore-foot (g)	Hind-limb (g)	Hind-foot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	51.1	-	239.52	124.8	415.42	5.538	2.769	55.96
Medium	17.5	218	-	-	-	-	235.5	3.14	1.57	31.72
High	-	-	-	87	-	-	87	1.16	0.58	11.72
Total	17.5	218	51.1	87	239.52	124.8	742.22	9.896	4.948	100

Table A.4.335. Meat quality distribution.

Age and Sex

Epiphyseal fusion data reveals a subadult-adult between 18 and 30 months and an adult above 36 months. It has not been possible to establish sex differences due to lack of the pertinent anatomical elements. Likewise, it has not been possible to calculate mean height at the withers due to the lack of complete bones (*table 4.336*).

Element	GLI	GLm	DI	Dm	Bd	Dm	Bd
Astragalus	70.06	61.76	38.38	40.27	43.65	40.27	43.65
Element	GL	SD	Bd	Bp	BFp	MBS	
Radioulna				73.5	67.74		
Phalanx II	38.63	23.08	23.01	28.13			23.01
Phalanx III						20.65	
Element	SB	SH					
Pelvis	20.29	36.92					

Table A.4.336. Measurements.

Caprines

Skeletal Representation

The skeletal representation analysis reveal forelimb to be over-represented in the archaeological caprines when compared with a standard skeleton. All remaining categories are under-represented. Hind-limb elements fall behind those from the fore foot and these are followed by those from the hind foot. Axial and indeterminate foot bones were not documented (*table A.4.337, fig. A.4.182*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Horn	-	-	-	2	0.98	-0.01	0.01
Skull	-	-	-	1	0.49	-0.71	0.71
Mandible	3	6.25	1.83	2	0.98	-0.01	1.82
Teeth	17	35.41	3.56	32	15.68	2.75	0.81
Hyoid	-	-	-	1	0.49	-0.71	0.71
Total cranial	20	41.66	3.72	38	18.62	2.92	0.8
Vertebrae	-	-	-	38	18.62	2.62	-2.62
Rib	-	-	-	26	12.74	2.54	-2.54
Sacrum	-	-	-	1	0.49	-0.71	0.71
Sternum	-	-	-	1	0.49	-0.71	0.71
Total axial	-	-	-	66	32.35	3.47	-3.47
Scapula	2	4.16	1.42	2	0.98	-0.01	1.43
Humerus	9	18.75	2.93	2	0.98	-0.01	2.94
Radius	2	4.16	1.42	2	0.98	-0.01	1.43
Ulna	2	4.16	1.42	2	0.98	-0.01	1.43
Total forelimb	15	31.25	3.44	8	3.92	1.36	2.08
Carpal	-	-	-	12	5.88	1.77	-1.77
Metacarpal	1	2.08	0.73	2	0.98	-0.01	0.74
Total forefoot	1	2.08	0.73	14	6.86	1.92	-1.19
Pelvis	2	4.16	1.42	2	0.98	-0.01	1.43
Femur	4	8.33	2.12	2	0.98	-0.01	2.13
Patella	-	-	-	2	0.98	-0.01	0.01
Tibia	5	10.41	2.34	2	0.98	-0.01	2.35
Fibula	-	-	-	2	0.98	-0.01	0.01
Total hindlimb	11	22.91	3.13	10	4.90	1.58	1.55
Calcaneus	1	2.08	0.73	2	0.98	-0.01	0.74
Astragalus	-	-	-	2	0.98	-0.01	0.01
Tarsal	-	-	-	6	2.94	1.07	1.07
Metatarsal	-	-	-	2	0.98	-0.01	0.01
Total hindfoot	1	2.08	0.73	12	5.88	1.77	-1.04
Phalanx I	-	-	-	8	3.92	1.36	-1.36
Phalanx II	-	-	-	8	3.92	1.36	-1.36
Phalanx III	-	-	-	8	3.92	1.36	-1.36
Sesamoids	-	-	-	32	15.68	2.75	-2.75
Total foot	-	-	-	56	27.45	3.31	-3.31
Total	48	100	4.60	204	100	4.60	0

Table A.4.337. Skeletal representation in caprines from level 124.

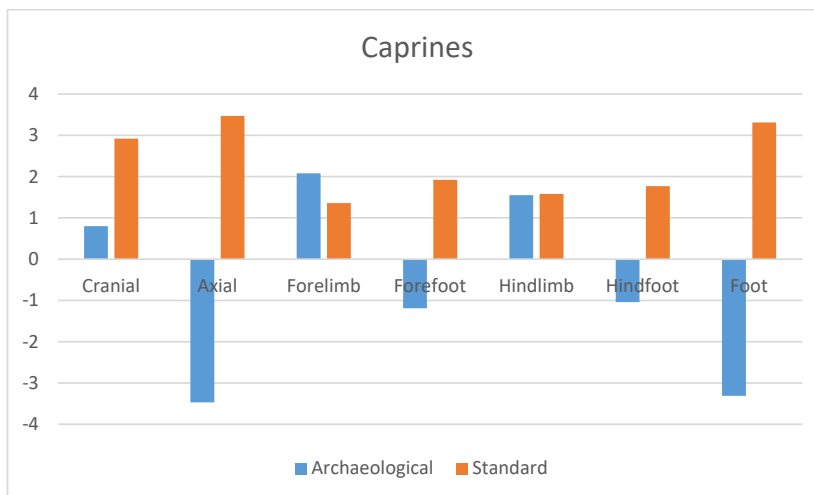


Fig. A.4.182. Skeletal representation in caprines.

Skeletal Elements

Teeth are best represented (17 elements) followed by the humerus. Based on the %MAU, the humerus is the best represented element followed by the tibia (*table A.4.338, fig. A.4.183a, A.4.183b, A.4.184*). The analysis of the fragmentation reveals quite similar percentages of fragmentation for most elements. Pelvis, femur and tibia are the most fragmented categories.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Mandible	3	6	17.84	4.77	2	5.12	1	28.57	7	7	2.33	33.28
Teeth	17	34	72.9	19.52	17	43.58	0.53	15.14				
Scapula	2	4	13.2	3.53	2	5.12	1	28.57	9	4	2	22.22
Humerus	9	18	135.18	36.19	7	17.94	3.5	100	11	42	4.66	42.36
Radius	2	4	16.2	4.33	1	2.56	0.5	14.28	10	8	4	40
Ulna	2	4	12.12	3.24	2	5.12	1	28.57	9	4	2	22.22
Metacarpal	1	2	4.2	1.12	1	2.56	0.5	14.28	8	3	3	37.5
Pelvis	2	4	5.7	1.52	1	2.56	0.5	14.28	12	2	1	8.33
Femur	4	8	48.36	12.94	2	5.12	1	28.57	11	5	1.25	11.36
Tibia	5	10	39.18	10.49	3	7.69	1.5	42.85	10	8	1.6	16
Calcaneus	1	2	5.7	1.52	1	2.56	0.5	14.28	5	1	1	20
Metapodia	2	4	2.87	0.76	-	-	-	-	8	3	1.5	18.75
Total	50	100	373.45	100	39	100						

Table A.4.338. Skeletal elements and rate of fragmentation.

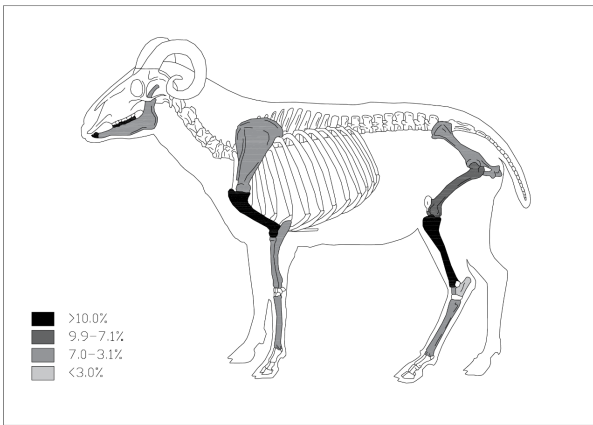


Fig. A.4.183a. Skeletal elements according to %NISP.

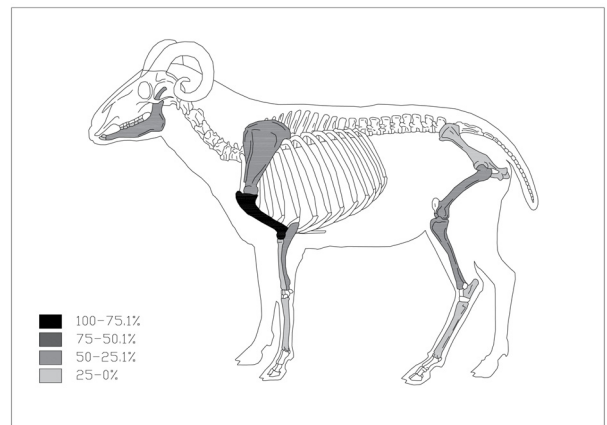


Fig. A.4.183b. Skeletal elements according to %MAU.

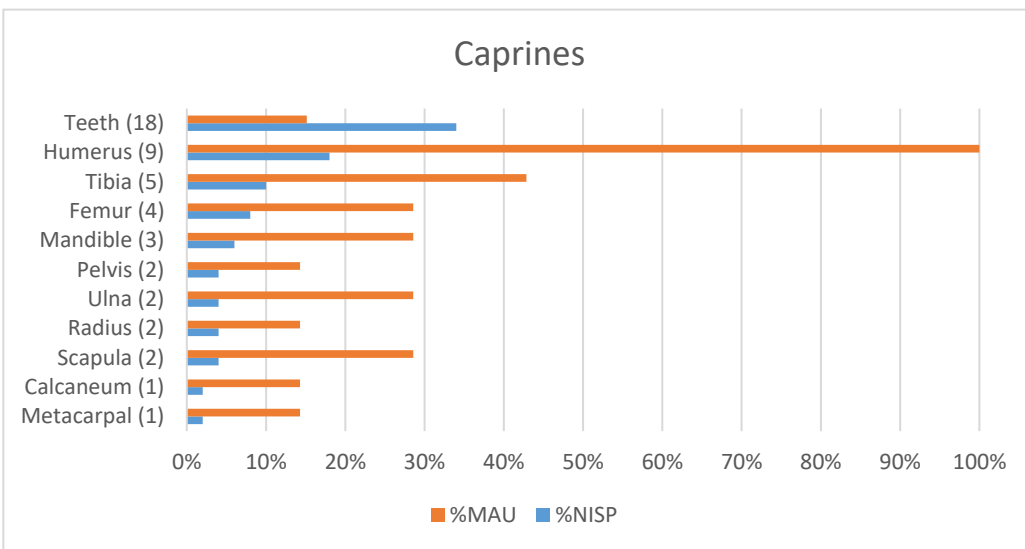


Fig. A.4.184. Skeletal elements according to %NISP and %MAU.

Meat Supply

Skeletal elements deriving from the hind and forelimbs provide the greatest proportion of meat, mainly through high meat yield elements. Many elements of the appendicular skeleton have been included as size 2 group bones thus the representation of the appendicular skeleton is underestimated (*table A.4.339, A.4.340, fig. A.4.185*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Mandible	17.84	0.237	0.118	5.89
Total cranial	17.84	0.237	0.118	5.89
Scapula	13.2	0.176	0.088	4.39
Humerus	135.18	1.802	0.901	44.98
Radius	16.2	0.216	0.108	5.39
Ulna	12.12	0.161	0.080	3.99
Total forelimb	176.7	2.356	1.178	58.81
Metacarpal	4.2	0.056	0.028	1.39
Forefoot	4.2	0.056	0.028	1.39
Pelvis	5.7	0.076	0.038	1.89
Femur	48.36	0.644	0.322	16.07
Tibia	39.18	0.522	0.261	13.03
Hindlimb	93.24	1.243	0.621	31.00
Calcaneus	5.7	0.076	0.038	1.89
Hindfoot	5.7	0.076	0.038	1.89
Metapodia	2.87	0.0382	0.019	0.94
Total foot	2.87	0.0382	0.019	0.94
Total	300.55	4.007	2.003	100

Table A.4.339. Meat supply according to skeletal elements.

Meat value	Cranial (g)	Fore-limb (g)	Fore-foot (g)	Hind-limb (g)	Hind-foot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	4.2	-	5.7	2.87	12.77	0.170	0.085	4.24
Medium	17.84	28.32	-	39.18	-	-	85.34	1.137	0.568	28.35
High	-	148.38	-	54.06	-	-	202.44	2.699	1.349	67.34
Total	17.84	176.7	4.2	93.24	5.7	2.87	300.55	4.007	2.003	100

Table A.4.340. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveal one individual slaughtered below 42 months, a juvenile individual above nine months and an infant below nine months. It has not been possible to determine the sex due to the lack of the pertinent anatomical elements that would allow such assessment. Likewise, it has not been possible to calculate mean height at the withers due to the lack of complete bones (*table A.4.341*).

Element	BT	SD	Bd	Bp	BFp
Humerus			29.52		
	29.16	14.32	30.39		
	28.08		28.23		
Element		SD	Bd	Bp	BFp
Radius				21.53	
		16.29	29.6		15.05
Element		Dp		Bp	
Metacarpal		16.47		22.88	

Table A.4.341. Measurements.

Pig**Skeletal Representation**

Skeletal representation of pigs (one wild boar fragment has been included in this assemblage), reveal the forelimb to be over-represented when compared to a standard skeleton. All remaining categories are under-represented (*table A.4.342, fig. A.4.186*).

Skeletal element	Archaeological			Standard			Total
	NISP	NISP%	Log _e X	NISP	NISP%	Log _e Y	d=(LogeX)-(LogeY)
Skull	2	3.50	1.25	1	0.34	-1.06	2.31
Mandible	1	1.75	0.56	2	0.68	-0.37	0.93
Teeth	15	26.31	3.27	44	15.17	2.71	0.56
Hyoid	0	0	0	1	0.34	-1.07	1.06
Total cranial	18	31.57	3.45	48	16.55	2.80	0.65
Vertebrae	2	3.50	1.25	56	19.31	2.96	-1.71
Rib	0	0	0	28	9.65	2.26	-2.26
Sacrum	0	0	0	1	0.34	-1.06	1.06
Sternum	0	0	0	1	0.34	-1.06	1.06
Total axial	2	3.50	1.25	86	29.65	3.38	-2.13
Scapula	4	7.01	1.94	2	0.68	-0.37	2.31
Humerus	6	10.52	2.35	2	0.68	-0.37	2.72
Radius	0	0	0	2	0.68	-0.37	0.37
Ulna	1	1.75	0.56	2	0.68	-0.37	0.93
Total forelimb	11	19.29	2.96	8	2.75	1.01	1.95
Carpal	0	0	0	16	5.51	1.70	-1.70
Metacarpal	10	17.54	2.86	8	2.75	1.01	1.85
Total forefoot	10	17.54	2.86	24	8.27	2.11	0.75
Pelvis	3	5.26	1.66	2	0.68	-0.37	2.03
Femur	0	0	0	2	0.68	-0.37	0.37
Patella	0	0	0	2	0.68	-0.37	0.37
Tibia	3	5.26	1.66	2	0.68	-0.37	2.03
Fibula	0	0	0	2	0.68	-0.37	0.37
Total hindlimb	6	10.52	2.35	10	3.44	1.23	1.12
Calcaneus	0	0	0	2	0.68	-0.37	0.37
Astragalus	1	1.75	0.56	2	0.68	-0.37	2.12
Tarsal	0	0	0	14	4.82	1.57	-1.57
Metatarsal	2	3.50	1.25	8	2.75	1.01	0.24
Total hindfoot	3	5.26	1.66	26	8.96	2.19	-0.53
Phalanx I	4	7.01	1.94	16	5.51	1.70	0.24
Phalanx II	1	1.75	0.56	16	5.51	1.70	-1.14
Phalanx III	2	3.50	1.25	16	5.51	1.70	-0.45
Sesamoids	0	0	0	40	13.79	2.62	-2.62
Total foot	7	12.28	2.50	88	30.34	3.41	-0.91
Total	57	100	4.60	290	0	4.60	0

Table A.4.342. Skeletal representation in pigs from level 124.

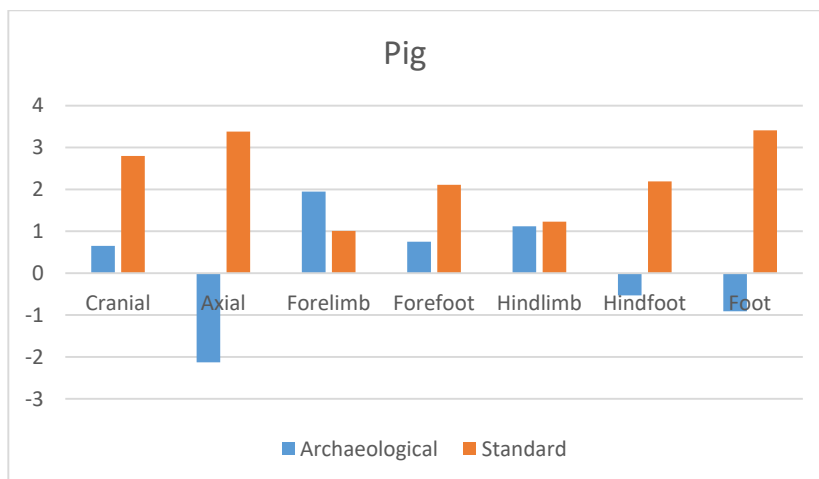


Fig. A.4.186. Skeletal representation in pigs.

Skeletal Elements

Based on the %MAU, the humerus is best represented followed by the skull at large and the scapula (*table A.4.343, fig. A.4.187, A.4.188*). The pelvis exhibits a higher fragmentation rate when compared to the remaining anatomical categories.

Skeletal elements	NISP	%	Weight (g)	%	MNE	%	MAU	%	PD	PP	PP/NISP	%CN
Skull	2	3.38	19.8	4.24	2	3.63	2	80				
Mandible	1	1.69	8.1	1.73	1	1.81	0.5	20	7	2	2	28.57
Teeth	15	25.42	24.55	5.26	15	27.27	0.34	13.6				
Vertebrae	2	3.38	15.1	3.23	2	3.63	0.03	1.2	2	2	1	50
Scapula	4	6.77	80.8	17.32	4	7.27	2	80	9	9	2.25	25
Humerus	6	10.16	87.12	18.68	5	9.09	2.5	100	11	12	2	18.18
Ulna	1	1.69	27.6	5.91	1	1.81	0.5	20	9	4	4	44.44
Metacarpal	10	16.94	41.82	8.96	10	18.18	1.25	50	3	21	2.1	70
Pelvis	3	5.08	32.81	7.03	2	3.63	1	40	12	3	1	8.33
Tibia	3	5.08	72.2	15.48	2	3.63	1	40	10	6	2	20
Astragalus	1	1.69	6.2	1.32	1	1.81	0.5	20	4	3	3	75
Metatarsal	2	3.38	22.8	4.88	2	3.63	0.25	10	3	4	2	66.66
Metapodia	2	3.38	3.38	0.72	1	1.81	-	-	3	2	1	33.33
Phalanx I	4	6.77	13	2.78	4	7.27	0.25	10	3	10	2.5	83.33
Phalanx II	1	1.69	3.3	0.70	1	1.81	0.06	2.4	3	3	3	100
Phalanx III	2	3.38	7.8	1.67	2	3.63	0.12	4.8	2	4	2	100
Total	59	100	466.38	100	55	100						

Table A.4.343. Skeletal elements and rate of fragmentation.

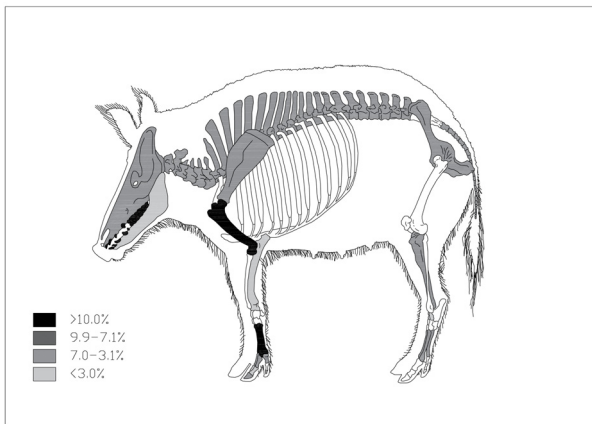


Fig. A.4.187. Skeletal elements according to %NISP.

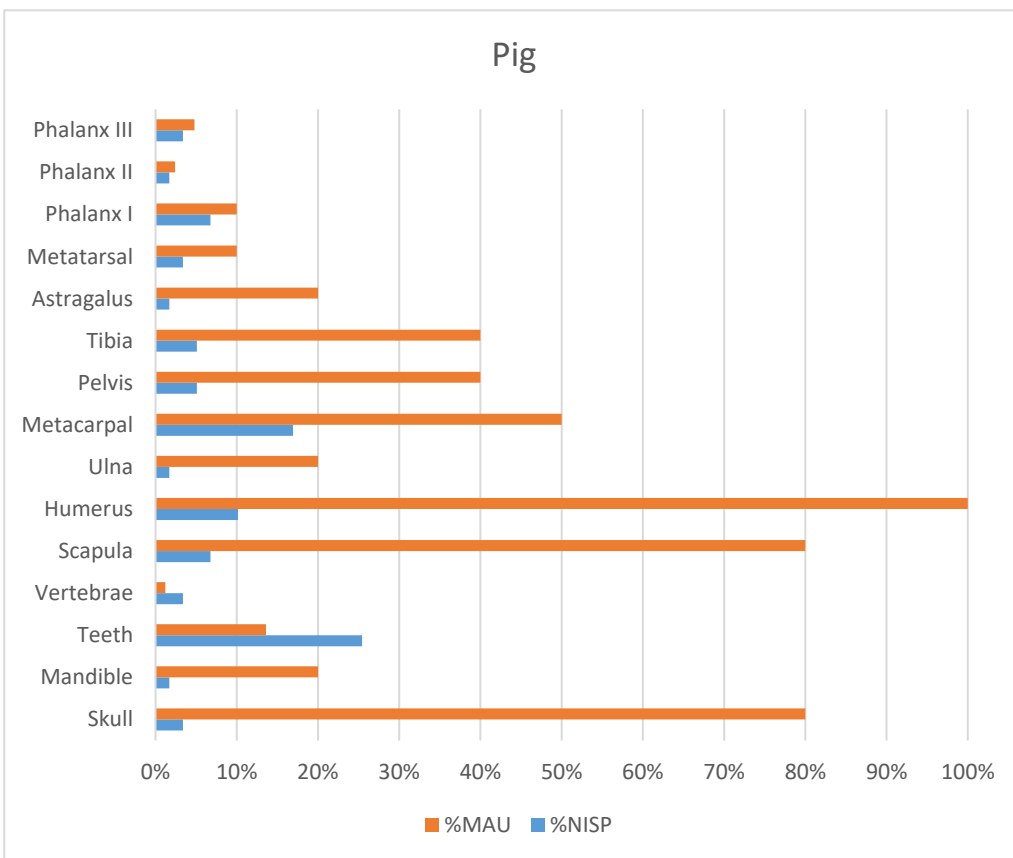


Fig. A.4.188. Skeletal elements according to %NISP and %MAU.

Meat Supply

Skeletal elements deriving from the appendicular skeleton, the forelimb in particular, provide the highest proportion of meat. In the case of forelimb, there is a predominance of the high-meat yield elements, as opposed to the hindlimb, where medium yield elements predominate (*table A.4.344, 4.345, fig. A.4.189*).

Skeletal element	Weight (g)	Total meat (kg)	Edible meat (kg)	%
Skull	19.8	0.264	0.132	4.48
Mandible	8.1	0.108	0.054	1.83
Total cranial	27.9	0.372	0.186	6.31
Vertebrae	15.1	0.201	0.100	3.39
Total axial	15.1	0.201	0.100	3.39
Scapula	80.8	1.077	0.538	18.26
Humerus	87.12	1.161	0.580	19.69
Ulna	27.6	0.368	0.184	6.24
Total forelimb	195.52	2.606	1.303	44.24
Metacarpal	41.82	0.557	0.278	9.43
Total forefoot	41.82	0.557	0.278	9.43
Pelvis	32.81	0.437	0.218	7.40
Tibia	72.2	0.962	0.481	16.33
Total hindlimb	105.01	1.400	0.700	23.76
Astragalus	6.2	0.082	0.041	1.39
Metatarsal	22.8	0.304	0.152	5.16
Total hindfoot	29	0.386	0.193	6.55
Metapodia	3.38	0.045	0.02	0.67
Phalanx I	3	0.173	0.086	2.92
Phalanx II	3.3	0.044	0.022	0.74
Phalanx III	7.8	0.104	0.052	1.76
Total foot	27.48	0.366	0.183	6.21
Total	441.83	5.891	2.945	100

Table A.4.344. Meat supply according to skeletal elements (teeth and horn core are not included).

Meat value	Cranial (g)	Axial (g)	Fore-limb (g)	Fore-foot (g)	Hind-limb (g)	Hind-foot (g)	Foot (g)	Total (g)	Total meat (kg)	Edible meat (kg)	%
Low	-	-	-	41.82	-	29	27.48	98.3	1.310	0.655	22.24
Medium	27.9	-	27.6	-	72.2	-	-	127.7	1.702	0.851	28.89
High	-	15.1	167.92	-	32.81	-	-	215.83	2.877	1.438	48.82
Total	27.9	15.1	195.52	41.82	105.01	29	27.48	441.83	5.891	2.945	100

Table A.4.345. Meat quality distribution.

Sex and Age

Epiphyseal fusion data reveal one juvenile slaughtered at twelve months and one subadult at around 24 months. An individual below twelve months (i.e. infant/juvenile) and an individual above 24 months (adult) were also identified. Based on dental morphology, two of these individuals are female. It has not been possible to calculate mean height at the withers due to the lack of complete bones (*table A.4.346*).

Element	BT	SD	Bd	Dd							
Humerus	30.72	15.28	37.26								
Tibia			34.27	26.13							
Element	GL	SD	Bd	Bp	Dp	Glpe	B	Lep	DLS	Ld	MBS
Phalanx I	26.08	8	8.12	12.32	12.12	25.51					
	3.31	12.27	14.62	15.57		38.14					
Phalanx II	20.4	12.36	12.81	14.95		20.34					
Phalanx III									23.62	22.48	8.57
									40.31	38.43	14.62
Metacarpal III				17.57							
	72.05		16	15.75			3.82				
Metacarpal IV	15.84		15.67	16			11.52	72.04			
Element	GLP	SLC	LG	BG							
Scapula	44.13	29.52	31.1	30							

Table A.4.346. Measurements.

Appendix 5: Isotops Results

A.5.1 Isotopic Analyses

A.5.1.1 La Loma del Real Tesoro II

Sample	Taxon	CaCO ₃ (%)	δ ¹³ C (‰)	δ ¹⁸ O _{VPDB} (‰)	δ ¹⁸ O _{SMOW} (‰)	δ ¹⁸ O _{PO4} (‰)	δ ¹⁸ O _{h2o} (‰)	T _{Air} °C	⁸⁷ Sr/ ⁸⁶ Sr	2σ
LRT-1	Pig	3.49	-12.08	-6.26	24.41	15.42	-9.22	22.86	0.7094	0.00001
LRT-2	Cattle	2.48	-10.30	-3.21	27.55	18.50	-6.06	26.01	0.7097	0.00001
LRT-3	Pig	0.65	-17.85	-13.53	16.91	8.07	-16.75	15.33	0.70879	0.00001
LRT-4	Pig	3.67	-11.20	-5.93	24.75	15.75	-8.88	23.20	0.70988	0.00001
LRT-5	Caprine	4.26	-14.26	-3.35	27.41	18.36	-6.21	25.87	0.71324	0.00010
LRT-6	Pig	2.42	-12.08	-5.27	25.43	16.42	-8.20	23.88	0.71093	0.00001
LRT-8	Caprine	4.46	-12.86	-0.41	30.43	21.33	-3.17	28.91	0.70975	0.00002
LRT-9	Horse	2.23	-9.83	-2.38	28.41	19.34	-5.21	26.87	0.70986	0.00002
LRT-10	Caprine	5.38	-15.62	-4.42	26.30	17.27	-7.32	24.76	0.71024	0.00001
LRT-11	Pig	3.55	-10.31	-3.52	27.24	18.19	-6.38	25.70	0.70892	0.00002
LRT-12	Pig	2.9	-11.95	-4.50	26.22	17.19	-7.40	24.67	0.71008	0.00001
LRT-13	Pig	5.98	-13.02	-3.68	27.06	18.02	-6.55	25.52	0.71366	0.00005
LRT-14	Cattle	6.74	-12.69	-1.06	29.76	20.67	-3.84	28.23	0.70887	0.00004

Table A.5.1.1 Results of δ¹⁸O_{ap}, δ¹³C_{ap} and ⁸⁷Sr/⁸⁶Sr from LRT-II.

Sample	Structure	SU	Taxon	Skeletal element	%C	%N	C/N	δ ¹³ C	δ ¹⁵ N
LRT-71	12	42	Caprine	Maxilla				-18.1	7.6
LRT-059	9	57	Dog	Maxilla	34.17	12.19	3.3	-19.21	8.28

Table A.5.1.2 Results of δ¹³C and δ¹⁵N for LRT-II.

A.5.1.2 Carmona-Ronda del Cenicero

Sample	Taxon	Element	Distance from ERJ (mm)	CaCO ₃ (%)	δ ¹³ C (‰)	δ ¹⁸ O _{VPDB} (‰)	δ ¹⁸ O _{SMOW} (‰)	δ ¹⁸ O _{PO4} (‰)	δ ¹⁸ O _{h2o} (‰)	T _{Air} °C	Individual	⁸⁷ Sr/ ⁸⁶ Sr	2σ
RDC-1	Pig	Canine	Bulk	-	-	-	-	-	-		-	0.70928	0.00001
RDC-2(b)	Pig	Incisor	Bulk	3.6	-12.6	-3.0	32.9	23.7	-0.7	31.3	1	0.70910	0.00001
RDC-3(b)	Caprine	Molar	22	5.2	-12.9	-2.8	28.6	19.5	-5.0	27.1	2	0.70881	0.00002
RDC-3(c)	Caprine	Molar	19	4.1	-11.8	-2.6	25.0	16.0	-8.7	23.4	2	-	-
RDC-3(d)	Caprine	Molar	15	4.6	-11.5	-2.3	31.1	21.9	-2.5	29.5	2	-	-
RDC-3(e)	Caprine	Molar	13	4.3	-11.0	-2.6	26.6	17.6	-7.0	25.1	2	-	-
RDC-3(f)	Caprine	Molar	10	3.6	-10.4	-2.5	26.1	17.0	-7.6	24.5	2	-	-

Sample	Taxon	Element	Distance from ERJ (mm)	CaCO ₃ (%)	δ ¹³ C (‰)	δ ¹⁸ O _{VPOB} (‰)	δ ¹⁸ O _{SOMOW} (‰)	δ ¹⁸ O _{PO4} (‰)	δ ¹⁸ O _{H2O} (‰)	T _{Air} °C	Individual	⁸⁷ Sr/ ⁸⁶ Sr	2σ
RDC-3(g)	Caprine	Molar	8	4.4	-9.8	-2.9	25.1	16.1	-8.6	23.5	2	-	-
RDC-3(h)	Caprine	Molar	5	3.1	-9.4	-3.5	28.7	19.6	-4.9	27.1	2	-	-
RDC-3(i)	Caprine	Molar	3	4.2	-9.8	-3.7	28.6	19.6	-5.0	27.1	2	-	-
RDC-3(j)	Caprine	Molar	1	3.2	-10.1	-3.8	27.1	18.1	-6.5	25.6	2	0.70896	0.00002
RDC-4(b)	Cattle	Molar	23	4.6	-12.3	-3.0	27.7	18.6	-5.9	26.2	3	0.70932	0.00003
RDC-4(c)	Cattle	Molar	19	3.2	-11.3	-1.7	29.2	20.1	-4.4	27.7	3	-	-
RDC-4(d)	Cattle	Molar	17	4.1	-10.8	-1.4	29.4	20.3	-4.2	27.8	3	-	-
RDC-4(e)	Cattle	Molar	15	3.5	-10.2	-0.7	30.5	21.4	-3.1	29.0	3	-	-
RDC-4(f)	Cattle	Molar	13	4.4	-9.7	-2.1	30.8	21.7	-2.8	29.3	3	-	-
RDC-4(g)	Cattle	Molar	11	3.5	-9.2	-3.3	30.5	21.4	-3.1	28.9	3	-	-
RDC-4(h)	Cattle	Molar	8	3.8	-8.9	-1.5	30.4	21.3	-3.2	28.8	3	-	-
RDC-4(i)	Cattle	Molar	6	3.7	-8.5	-2.1	29.6	20.5	-4.0	28.1	3	-	-
RDC-4(j)	Cattle	Molar	4	4.1	-8.5	-2.7	27.6	18.6	-6.0	26.1	3	-	-
RDC-4(k)	Cattle	Molar	1.5	5.0	-8.8	-2.2	26.8	17.8	-6.8	25.3	3	0.70924	0.00001
RDC-5(b)	Pig	Canine	Bulk	3.5	-12.1	-4.2	32.7	23.6	-0.9	31.2	4	0.70937	0.00001
RDC-6(b)	Caprine	Molar	9	5.6	-10.1	0.0	32.2	23.1	-1.4	30.7	5	0.70926	0.00001
RDC-6(c)	Caprine	Molar	6	4.4	-8.7	-2.8	28.7	19.6	-4.9	27.1	5	-	-
RDC-6(d)	Caprine	Molar	4	5.7	-8.2	-1.1	28.3	19.3	-5.3	26.8	5	-	-
RDC-6(e)	Caprine	Molar	2	5.1	-8.4	-1.8	30.4	21.3	-3.2	28.8	5	0.70941	0.00002
RDC-7(b)	Cattle	Molar	6	6.7	-11.8	-2.0	31.0	21.9	-2.6	29.4	6	0.71390	0.00001
RDC-7(c)	Cattle	Molar	3	4.6	-12.0	-2.5	28.3	19.2	-5.3	26.8	6	-	-
RDC-7(d)	Cattle	Molar	1	4.4	-12.0	-2.1	26.8	17.8	-6.8	25.3	6	0.71403	0.00001
RDC-8(b)	Cattle	Molar	19	3.3	-10.4	-0.7	26.9	17.8	-6.7	25.3	6	0.71426	0.00001
RDC-8(c)	Cattle	Molar	15	4.1	-10.4	-0.3	27.5	18.5	-6.1	26.0	6	-	-
RDC-8(d)	Cattle	Molar	13	3.3	-10.1	-0.9	31.2	22.0	-2.4	29.6	6	-	-
RDC-8(e)	Cattle	Molar	11	3.7	-10.1	-1.5	26.8	17.8	-6.8	25.3	6	-	-
RDC-8(f)	Cattle	Molar	9	4.9	-10.4	-1.2	33.0	23.8	-0.6	31.5	6	-	-
RDC-8(g)	Cattle	Molar	7	4.1	-10.6	-2.8	26.6	17.5	-7.1	25.0	6	-	-
RDC-8(h)	Cattle	Molar	5	3.9	-10.8	-3.3	27.0	17.9	-6.6	25.4	6	-	-
RDC-8(i)	Cattle	Molar	2	3.6	-11.1	-3.6	27.5	18.4	-6.1	25.9	6	0.71441	0.00001
RDC-9(b)	Cattle	Molar	18	5.9	-10.4	0.5	28.4	19.3	-5.3	26.8	6	0.71426	0.00001
RDC-9(c)	Cattle	Molar	16	4.4	-10.3	-1.7	26.5	17.4	-7.1	24.9	6	-	-
RDC-9(d)	Cattle	Molar	14	5.1	-11.0	-2.0	29.3	20.2	-4.3	27.8	6	-	-
RDC-9(e)	Cattle	Molar	12	2.7	-11.0	-1.9	26.1	17.0	-7.6	24.5	6	-	-
RDC-9(f)	Cattle	Molar	10,7	3.5	-11.2	-2.8	26.7	17.6	-6.9	25.1	6	-	-
RDC-9(g)	Cattle	Molar	9	3.1	-11.6	-2.2	26.5	17.5	-7.1	25.0	6	-	-
RDC-9(h)	Cattle	Molar	6	3.8	-11.5	-1.5	28.6	19.6	-5.0	27.1	6	-	-
RDC-9(i)	Cattle	Molar	3	3.4	-11.2	-1.0	27.8	18.8	-5.8	26.3	6	0.71414	0.00001

Table A.5.1.2.1 Results of δ¹⁸O_c, δ¹³C and ⁸⁷Sr/⁸⁶Sr from Ronda del Cenicero, Carmona.

A.5.1.3 Valencina-Castilleja

A.5.1.3.a Results of $^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$ and $\delta^{13}\text{C}_{\text{ap}}$ from Valencina-Castilleja

Sample	Taxon	Element	Distance from ERJ (mm)	CaCO ₃ (%)	$\delta^{13}\text{C}$ (‰)	$\delta^{18}\text{O}_{\text{VPDB}}$ (‰)	$\delta^{18}\text{O}_{\text{SMOW}}$ (‰)	$\delta^{18}\text{O}_{\text{PO4}}$ (‰)	$\delta^{18}\text{O}_{\text{H2O}}$ (‰)	T _{Air} °C	$^{87}\text{Sr}/^{86}\text{Sr}$	2 σ
VAL-562-a	Caprine	Enamel	10	5.16	-8.23	-1.28	29.59	20.5	-4.02	28.06	0.71027	0.00002
VAL-562-b	Caprine	Enamel	2	6.31	-8.97	-2.26	28.58	19.51	-5.03	27.05	0.70881	0.00002
VAL-563-a	Caprine	Enamel	12	6.73	-12.89	0.52	31.45	22.32	-2.15	29.92	0.70892	0.00001
VAL-563-b	Caprine	Enamel	10	5.81	-11.22	-0.92	29.96	20.86	-3.64	28.43	0.70891	0.00001
VAL-563-c	Caprine	Enamel	6	6.27	-10.39	-1.94	28.91	19.83	-4.7	27.38	0.70878	0.00001
VAL-563-d	Caprine	Enamel	2	5.84	-9.9	-2.68	28.15	19.08	-5.47	26.61	-	-
VAL-02b	Caprine	Enamel	8	3.8	-12.8	-1.9	28.95	19.87	-4.66	27.42	0.70886	0.00001
VAL-02c	Caprine	Enamel	6	3.8	-11.3	-1.1	29.78	20.68	-3.83	28.25	-	-
VAL-02d	Caprine	Enamel	4	3.6	-8.8	-0.8	30.09	20.98	-3.52	28.56	-	-
VAL-02e	Caprine	Enamel	2	3.5	-5.6	-1	29.88	20.78	-3.73	28.35	0.70882	0.00001
VAL-416a(m)	Caprine	Cementum	-	-	-	-	-	-	-	-	0.70832	0.00003
VAL-416b(l)	Caprine	Enamel	22	3.1	-11.9	-2.3	28.54	19.47	-5.07	27	-	-
VAL-416c(k)	Caprine	Enamel	20	3.7	-12	-3.1	27.71	18.66	-5.9	26.18	-	-
VAL-416d(j)	Caprine	Enamel	18	3.7	-12.3	-3.9	26.89	17.85	-6.73	25.35	-	-
VAL-416e(i)	Caprine	Enamel	16	4	-12.7	-3.8	26.99	17.95	-6.63	25.45	-	-
VAL-416f(h)	Caprine	Enamel	14	3.4	-12.8	-4.3	26.48	17.45	-7.14	24.93	-	-
VAL-416g(g)	Caprine	Enamel	12	3.9	-12.9	-4.3	26.48	17.45	-7.14	24.93	-	-
VAL-416h(f)	Caprine	Enamel	10	3.6	-13.1	-4	26.79	17.75	-6.83	25.24	-	-
VAL-416i(e)	Caprine	Enamel	8	3.2	-13.1	-4	26.79	17.75	-6.83	25.24	-	-
VAL-416j(d)	Caprine	Enamel	6	3.1	-12.9	-3.5	27.3	18.26	-6.32	25.76	-	-
VAL-416k(c)	Caprine	Enamel	4	3.4	-12.8	-2.7	28.13	19.06	-5.49	26.59	-	-
VAL-416l(b)	Caprine	Enamel	2	4.2	-12.7	-1.6	29.26	20.18	-4.35	27.73	-	-
VAL-411a(j)	Caprine	Enamel	24	3.7	-12	-2.1	28.75	19.67	-4.87	27.21	-	-
VAL-411b(i)	Caprine	Enamel	21	3.8	-11.3	-2	28.85	19.77	-4.76	27.31	-	-
VAL-411c(h)	Caprine	Enamel	18	3.4	-10.8	-1.2	29.67	20.58	-3.93	28.14	-	-
VAL-411d(g)	Caprine	Enamel	15	3.1	-10.2	-0.5	30.39	21.29	-3.21	28.87	-	-
VAL-411e(f)	Caprine	Enamel	12	3.4	-9.7	-0.4	30.5	21.39	-3.11	28.97	-	-
VAL-411f(e)	Caprine	Enamel	9	4.3	-9.3	-0.1	30.81	21.69	-2.8	29.28	-	-
VAL-411g(d)	Caprine	Enamel	6	2.6	-9	-0.3	30.6	21.49	-3	29.07	-	-
VAL-411h(c)	Caprine	Enamel	3	4.3	-9.3	-1.5	29.36	20.28	-4.24	27.83	-	-
VAL-411i(b)	Caprine	Enamel	1	3.2	-9.3	-1.6	29.26	20.18	-4.35	27.73	-	-
VAL-411j(a)	Caprine	Cementum	-	-	-	-	30.91	21.79	-2.69	29.38	0.70905	0.00001
VAL-302	Caprine	Enamel	Bulk	4.2	-9.4	0.3	31.22	22.09	-2.38	29.7	0.70851	0.00001
VAL-373	Caprine	Enamel	Bulk	4.4	-9.6	0.2	31.12	21.99	-2.48	29.59	0.70933	0.00002

Table A.5.1.3.a Results of $^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$ and $\delta^{13}\text{C}_{\text{ap}}$ from Valencina-Castilleja (part 1/6).

Sample	Taxon	Element	Distance from ERJ (mm)	CaCO ₃ (%)	δ ¹³ C (‰)	δ ¹⁸ O _{VPTDB} (‰)	δ ¹⁸ O _{SMOW} (‰)	δ ¹⁸ O _{PO4} (‰)	δ ¹⁸ O _{H2O} (‰)	T _{Air} °C	⁸⁷ Sr/ ⁸⁶ Sr	2σ
VAL-413	Caprine	Enamel	Bulk	3.3	-6.8	-0.4	30.5	21.39	-3.11	28.97	0.71052	0.00001
VAL-414	Caprine	Enamel	Bulk	2.9	-12.4	-1	29.88	20.78	-3.73	28.35	0.71021	0.00001
VAL-443	Caprine	Enamel	Bulk	6	-14.5	-1.8	29.05	19.97	-4.56	27.52	0.70851	0.00001
GUZ-16	Caprine	Enamel	Bulk	4.5	-11.3	-2.8	28.02	18.96	-5.59	26.49	-	-
VAL-445	Caprine	Enamel	Bulk	5.1	-14.95	-1.63	29.23	20.15	-4.38	27.7	0.71056	0.00002
VAL-452	Caprine	Enamel	Bulk	6.04	-14.16	-1.62	29.24	20.16	-4.37	27.71	0.70873	0.00002
VAL-454	Caprine	Enamel	Bulk	5.34	-8.99	0.22	31.14	22.01	-2.46	29.61	0.7102	0.00002
VAL-455	Caprine	Enamel	Bulk	5.67	-11.48	-0.04	30.87	21.75	-2.73	29.34	0.71027	0.00002
PA-36	Cattle	Cementum	-	6.64	-7.75	-3.85	26.94	17.9	-6.68	25.4	-	-
PA-36 a	Cattle	Enamel	36	3.19	-10.44	-2.07	28.78	19.7	-4.83	27.24	0.70999	0.00002
PA-36 b	Cattle	Enamel	33	3.43	-10.87	-1.26	29.61	20.52	-4	28.08	-	-
PA-36 c	Cattle	Enamel	30.5	3.32	-10.01	-0.62	30.27	21.17	-3.33	28.74	-	-
PA-36 d	Cattle	Enamel	28	3.31	-9.4	-0.69	30.2	21.09	-3.41	28.67	-	-
PA-36 e	Cattle	Enamel	25.5	3.32	-8.57	-0.68	30.21	21.1	-3.4	28.68	-	-
PA-36 f	Cattle	Enamel	22.5	3.33	-8	-0.48	30.42	21.31	-3.19	28.89	-	-
PA-36 g	Cattle	Enamel	18	3.7	-7.29	-0.27	30.63	21.52	-2.97	29.11	0.70909	0.00003
PA-36 h	Cattle	Enamel	15.5	3.85	-7.2	-0.6	30.29	21.19	-3.31	28.76	-	-
PA-36 i	Cattle	Enamel	12	3.8	-7.41	-1.12	29.76	20.66	-3.85	28.23	-	-
PA-36 j	Cattle	Enamel	9	3.8	-8.03	-0.91	29.97	20.87	-3.63	28.44	-	-
PA-36 k	Cattle	Enamel	7	3.86	-8.62	-1.53	29.33	20.25	-4.28	27.8	0.70914	0.00001
PA-36	Cattle	Dentine	-	3.83	-9.45	-2.72	28.11	19.04	-5.51	26.57	-	-
PA-37	Cattle	Cementum	-	27.7	-8.68	-4.72	26.04	17.02	-7.58	24.5	-	-
PA-37 a	Cattle	Enamel	34	3.81	-6.47	-1.06	29.82	20.72	-3.79	28.29	0.70913	0.00001
PA-37 b	Cattle	Enamel	30	3.71	-4.86	-1.04	29.84	20.74	-3.77	28.31	-	-
PA-37 c	Cattle	Enamel	27	4	-4.79	-1.56	29.3	20.22	-4.31	27.77	-	-
PA-37 d	Cattle	Enamel	23.5	3.88	-4.86	-1.76	29.1	20.01	-4.51	27.56	-	-
PA-37 e	Cattle	Enamel	20	4.09	-5.34	-2.4	28.44	19.37	-5.18	26.9	0.70896	0.00002
PA-37 f	Cattle	Enamel	17	4.25	-6.35	-2.78	28.04	18.98	-5.57	26.51	-	-
PA-37 g	Cattle	Enamel	14	4.36	-7.54	-3.32	27.49	18.44	-6.13	25.95	-	-
PA-37 h	Cattle	Enamel	11	4.45	-9.3	-3.64	27.16	18.11	-6.46	25.62	-	-
PA-37 i	Cattle	Enamel	7.5	4.5	-10.33	-3.95	26.84	17.8	-6.78	25.3	-	-
PA-37 j	Cattle	Enamel	4	4.53	-11.29	-3.72	27.08	18.03	-6.54	25.53	0.70906	0.00003
PA-37	Cattle	Dentine	-	4.44	-10.93	-3.81	26.98	17.94	-6.64	25.44	-	-
PA-38	Cattle	Cementum	-	21.44	-9.03	-4.52	26.25	17.23	-7.37	24.71	-	-
PA-38 a	Cattle	Enamel	43	4.08	-10.89	-2.65	28.18	19.11	-5.44	26.64	-	-
PA-38 b	Cattle	Enamel	40	3.93	-11.19	-2.75	28.07	19.01	-5.54	26.54	-	-
PA-38 c	Cattle	Enamel	37	4.03	-11.37	-2.13	28.71	19.64	-4.9	27.18	-	-
PA-38 d	Cattle	Enamel	35	3.6	-11.72	-1.62	29.24	20.16	-4.37	27.71	-	-
PA-38 e	Cattle	Enamel	33	3.78	-11.4	-0.91	29.97	20.87	-3.63	28.44	-	-

Table A.5.1.3.a Results of ⁸⁷Sr/⁸⁶Sr, δ¹⁸O and δ¹³C_{ap} from Valencina-Castilleja (part 2/6).

Sample	Taxon	Element	Distance from ERJ (mm)	CaCO ₃ (%)	δ ¹³ C (‰)	δ ¹⁸ O _{VFPDB} (‰)	δ ¹⁸ O _{SMOW} (‰)	δ ¹⁸ O _{PO4} (‰)	δ ¹⁸ O _{H2O} (‰)	T _{Air} °C	⁸⁷ Sr/ ⁸⁶ Sr	2σ
PA-38 f	Cattle	Enamel	31	3.21	-10.98	-1.21	29.66	20.57	-3.94	28.13	-	-
PA-38 g	Cattle	Enamel	29	3.76	-10.59	-0.28	30.62	21.51	-2.98	29.1	0.70931	0.00001
PA-38 h	Cattle	Enamel	27	3.22	-10.17	-0.95	29.93	20.83	-3.68	28.4	-	-
PA-38 i	Cattle	Enamel	25	3.63	-10.05	-0.41	30.49	21.38	-3.12	28.96	-	-
PA-38 j	Cattle	Enamel	23	3.56	-9.75	-0.12	30.79	21.67	-2.82	29.26	-	-
PA-38 k	Cattle	Enamel	21	3.75	-9.54	-0.93	29.95	20.85	-3.65	28.42	-	-
PA-38 l	Cattle	Enamel	19	3.69	-9.49	-1.6	29.26	20.18	-4.35	27.73	-	-
PA-38 m	Cattle	Enamel	16	3.72	-9.54	-1.86	28.99	19.91	-4.62	27.46	0.70936	0.00002
PA-38 n	Cattle	Enamel	14	3.39	-9.66	-3	27.82	18.76	-5.8	26.28	-	-
PA-38 o	Cattle	Enamel	11	3.7	-9.61	-3.74	27.05	18.01	-6.56	25.51	-	-
PA-38 p	Cattle	Enamel	6	3.94	-10.01	-4.28	26.5	17.47	-7.12	24.95	0.70929	0.00001
PA-38	Cattle	Dentine	-	4.29	-10.3	-3.35	27.46	18.41	-6.16	25.92	-	-
PA-39	Cattle	Cementum	-	6.4	-8.54	-4.48	26.29	17.27	-7.33	24.75	-	-
PA-39 a	Cattle	Enamel	38	3.49	-9.68	-3.4	27.4	18.36	-6.21	25.87	0.70946	0.00001
PA-39 b	Cattle	Enamel	34	3.48	-9.9	-4.16	26.62	17.59	-7	25.08	-	-
PA-39 c	Cattle	Enamel	30	3.45	-10.49	-3.58	27.22	18.17	-6.4	25.68	-	-
PA-39 d	Cattle	Enamel	25	3.4	-10.99	-3.06	27.76	18.7	-5.86	26.22	-	-
PA-39 e	Cattle	Enamel	20	3.57	-11.25	-1.61	29.25	20.17	-4.36	27.72	-	-
PA-39 f	Cattle	Enamel	16	3.61	-10.54	-0.11	30.8	21.68	-2.81	29.27	-	-
PA-39 g	Cattle	Enamel	11	3.81	-10.02	0.13	31.04	21.92	-2.56	29.52	0.70931	0.00002
PA-39 h	Cattle	Enamel	7	3.86	-9.62	0.14	31.05	21.93	-2.55	29.53	-	-
PA-39 i	Cattle	Enamel	2	3.81	-9.18	-0.17	30.73	21.62	-2.87	29.21	-	-
PA-39 j	Cattle	Enamel	-4	4.16	-9.29	-2.09	28.76	19.68	-4.86	27.22	-	-
PA-39	Cattle	Dentine	-	3.76	-9.77	-4.23	26.55	17.52	-7.07	25.01	-	-
PA-41 a	Cattle	Cementum	-	22.13	-8.47	-4.38	26.39	17.37	-7.23	24.85	-	-
PA-41 b	Cattle	Enamel	32	5.06	-11.23	-4.39	26.38	17.36	-7.24	24.84	0.71687	0.00003
PA-41 c	Cattle	Enamel	28	3.49	-12.71	-3.04	27.78	18.72	-5.84	26.24	-	-
PA-41 d	Cattle	Enamel	25	3.8	-12.58	-3.33	27.48	18.43	-6.14	25.94	-	-
PA-41 e	Cattle	Enamel	22	3.56	-12.49	-3.31	27.5	18.45	-6.12	25.96	-	-
PA-41 f	Cattle	Enamel	19	3.67	-12.47	-3.46	27.34	18.3	-6.27	25.8	-	-
PA-41 g	Cattle	Enamel	15	3.76	-12.34	-3.78	27.01	17.97	-6.61	25.47	-	-
PA-41 h	Cattle	Enamel	12	3.73	-12.6	-4.56	26.21	17.18	-7.41	24.66	-	-
PA-41 i	Cattle	Enamel	9	3.95	-12.39	-5.02	25.73	16.72	-7.89	24.19	-	-
PA-41 j	Cattle	Enamel	6	3.99	-12.65	-5.26	25.49	16.48	-8.14	23.94	-	-
PA-41 k	Cattle	Enamel	3	4.25	-12.67	-5.68	25.05	16.05	-8.57	23.5	0.71607	0.00001
PA-41 l	Cattle	Dentine	-	5.89	-9.59	-5	25.76	16.74	-7.87	24.21	-	-
PA-42a	Cattle	Cementum	-	9.97	-8.76	-4.52	26.25	17.23	-7.37	24.71	-	-
PA-42b	Cattle	Enamel	31	3.65	-9.08	1.55	32.51	23.36	-1.09	30.99	0.70871	0.00001
PA-42c	Cattle	Enamel	27	3.3	-9.14	0.4	31.32	22.2	-2.28	29.8	-	-

Table A.5.1.3.a Results of ⁸⁷Sr/⁸⁶Sr, δ¹⁸O and δ¹³C_{ap} from Valencina-Castilleja (part 3/6).

Sample	Taxon	Element	Distance from ERJ (mm)	CaCO ₃ (%)	δ ¹³ C (‰)	δ ¹⁸ O _{VPTDB} (‰)	δ ¹⁸ O _{SMOW} (‰)	δ ¹⁸ O _{PO4} (‰)	δ ¹⁸ O _{H2O} (‰)	T _{Air} °C	⁸⁷ Sr/ ⁸⁶ Sr	2σ
PA-42d	Cattle	Enamel	23	3.49	-9.68	-1.34	29.53	20.44	-4.08	28	-	-
PA-42e	Cattle	Enamel	19	3.46	-11.01	-2.33	28.51	19.44	-5.1	26.97	-	-
PA-42f	Cattle	Enamel	14	3.56	-11.53	-1.5	29.36	20.28	-4.24	27.83	-	-
PA-42g	Cattle	Enamel	10	3.46	-10.32	-0.31	30.59	21.48	-3.01	29.06	-	-
PA-42h	Cattle	Enamel	5	3.54	-9.14	-0.63	30.26	21.16	-3.34	28.73	0.70896	0.00001
PA-42i	Cattle	Dentine	-	4.93	-10.57	-4.37	26.4	17.38	-7.22	24.86	-	-
PA-67a	Cattle	Cementum	-	4.4	-10.35	-4.37	26.4	17.38	-7.22	24.86	-	-
PA-67b	Cattle	Enamel	24.82	5.11	-11.91	-3.11	27.7	18.65	-5.91	26.17	-	-
PA-67c	Cattle	Enamel	21.23	4.79	-11.19	-3.45	27.35	18.31	-6.26	25.81	-	-
PA-67d	Cattle	Enamel	17.67	4.41	-10.57	-3.3	27.51	18.46	-6.11	25.97	-	-
PA-67e	Cattle	Enamel	13.81	4.33	-9.35	-3.03	27.79	18.73	-5.83	26.25	-	-
PA-67f	Cattle	Enamel	10.27	4.28	-8.5	-2.93	27.89	18.83	-5.73	26.35	-	-
PA-67g	Cattle	Enamel	7.2	4.12	-8.29	-2.26	28.58	19.51	-5.03	27.05	-	-
PA-67h	Cattle	Enamel	3.8	3.68	-8.07	-2.77	28.05	18.99	-5.56	26.52	-	-
PA-67i	Cattle	Dentine	-6	7.64	-11.29	-3.6	27.2	18.15	-6.42	25.66	0.70917	0.00003
PA-69a	Cattle	Cementum	-	14.08	-8.98	-6.09	24.63	15.64	-9	23.08	0.71016	0.00002
PA-69b	Cattle	Enamel	29.41	4.48	-8.61	-2.58	28.25	19.19	-5.36	26.71	-	-
PA-69c	Cattle	Enamel	26.13	4.79	-7.87	-2.29	28.55	19.48	-5.06	27.01	-	-
PA-69d	Cattle	Enamel	24.14	5	-7.23	-1.77	29.09	20	-4.52	27.55	-	-
PA-69e	Cattle	Enamel	21.93	4.75	-6.8	-2.23	28.61	19.54	-5	27.08	-	-
PA-69f	Cattle	Enamel	19.9	5.01	-6.31	-1.72	29.14	20.05	-4.47	27.6	-	-
PA-69g	Cattle	Enamel	17.6	4.35	-6.19	-2.62	28.21	19.14	-5.4	26.67	-	-
PA-69h	Cattle	Enamel	15.13	4.68	-6.51	-2.87	27.95	18.89	-5.66	26.41	-	-
PA-69i	Cattle	Enamel	12.01	4.4	-7.18	-2.62	28.21	19.14	-5.4	26.67	-	-
PA-69j	Cattle	Enamel	10.3	5.19	-7.6	-3.06	27.76	18.7	-5.86	26.22	-	-
PA-69k	Cattle	Enamel	8.6	5.01	-8.16	-3.8	26.99	17.95	-6.63	25.45	-	-
PA-69l	Cattle	Enamel	6.7	5.09	-8.93	-3.72	27.08	18.03	-6.54	25.53	-	-
PA-69m	Cattle	Enamel	3.5	5.05	-9.98	-4	26.79	17.75	-6.83	25.24	-	-
PA-69	Cattle	Dentine	-	8.07	-8.99	-4.45	26.32	17.3	-7.3	24.78	0.71002	0.00003
PA-72a	Cattle	Cementum	-	5.27	-10.35	-4.03	26.76	17.72	-6.86	25.21	0.70942	0.00001
PA-72b	Cattle	Enamel	21.6	4.34	-10.69	-2.11	28.73	19.66	-4.88	27.2	-	-
PA-72c	Cattle	Enamel	18.81	4.38	-10.47	-1.75	29.11	20.02	-4.5	27.57	-	-
PA-72d	Cattle	Enamel	15.52	4.1	-9.92	-1.77	29.09	20	-4.52	27.55	-	-
PA-72e	Cattle	Enamel	12.37	4.18	-9.54	-1.41	29.46	20.37	-4.15	27.93	-	-
PA-72f	Cattle	Enamel	9.14	3.66	-9.1	-1.83	29.02	19.94	-4.59	27.49	-	-
PA-72g	Cattle	Enamel	5.93	4.31	-8.82	-1.63	29.23	20.15	-4.38	27.7	-	-
PA-72h	Cattle	Dentine	-	7.79	-10.9	-5	25.76	16.74	-7.87	24.21	0.70905	0.00001
PA-68	Cattle	Enamel	-	2.5	-4.1	-1	29.88	20.78	-3.73	28.35	0.70908	0.00001
VAL-109	Cattle	Enamel	Bulk	3.1	-11.2	-2.5	28.33	19.27	-5.28	26.8	0.71023	0.00001

Table A.5.1.3.a Results of ⁸⁷Sr/⁸⁶Sr, δ¹⁸O and δ¹³C_{ap} from Valencina-Castilleja (part 4/6).

Sample	Taxon	Element	Distance from ERJ (mm)	CaCO ₃ (%)	δ ¹³ C (‰)	δ ¹⁸ O _{VPOB} (‰)	δ ¹⁸ O _{SMOW} (‰)	δ ¹⁸ O _{PO4} (‰)	δ ¹⁸ O _{H2O} (‰)	T _{Air} °C	⁸⁷ Sr/ ⁸⁶ Sr	2σ
GUZ-13b	Cattle	Enamel	34	4	-11.2	-0.2	30.7	21.59	-2.9	29.18	-	-
GUZ-13c	Cattle	Enamel	31	3.7	-9.9	-1.1	29.78	20.68	-3.83	28.25	-	-
GUZ-13d	Cattle	Enamel	29	3	-9.1	-0.6	30.29	21.19	-3.31	28.76	-	-
GUZ-13e	Cattle	Enamel	27	3.8	-8.4	-1.2	29.67	20.58	-3.93	28.14	-	-
GUZ-13f	Cattle	Enamel	25	3.2	-7.6	-0.9	29.98	20.88	-3.62	28.45	-	-
GUZ-13g	Cattle	Enamel	23	3.4	-7	-1.8	29.05	19.97	-4.56	27.52	-	-
GUZ-13h	Cattle	Enamel	20	3.3	-6.4	-1	29.88	20.78	-3.73	28.35	-	-
GUZ-13i	Cattle	Enamel	18	3.6	-6	0.7	31.63	22.5	-1.97	30.11	-	-
GUZ-13j	Cattle	Enamel	16	3.7	-5.9	-1.5	29.36	20.28	-4.24	27.83	-	-
GUZ-13k	Cattle	Enamel	14	3.6	-5.6	-0.1	30.81	21.69	-2.8	29.28	-	-
GUZ-13l	Cattle	Enamel	12	4	-5.5	0.1	31.01	21.89	-2.59	29.49	-	-
GUZ-13m	Cattle	Enamel	9	3.7	-5.2	-1.3	29.57	20.48	-4.04	28.04	-	-
GUZ-13n	Cattle	Enamel	7	3.9	-5	-0.5	30.39	21.29	-3.21	28.87	-	-
GUZ-13o	Cattle	Enamel	5	3.7	-5.1	-2.4	28.44	19.37	-5.18	26.9	-	-
GUZ-14ab	Cattle	Enamel	24	4.3	-11.7	-3.4	27.4	18.36	-6.21	25.87	-	-
GUZ-14c	Cattle	Enamel	21	3.9	-11.5	-2.7	28.13	19.06	-5.49	26.59	-	-
GUZ-14d	Cattle	Enamel	18	4.3	-11.4	-2.2	28.64	19.57	-4.97	27.11	-	-
GUZ-14e	Cattle	Enamel	16	4.1	-11.3	-1.6	29.26	20.18	-4.35	27.73	-	-
GUZ-14f	Cattle	Enamel	14	4	-10.9	-2.5	28.33	19.27	-5.28	26.8	-	-
GUZ-14g	Cattle	Enamel	11	4.2	-10.6	-1.8	29.05	19.97	-4.56	27.52	-	-
GUZ-14h	Cattle	Enamel	8	4.3	-10.3	-1.2	29.67	20.58	-3.93	28.14	-	-
GUZ-14i	Cattle	Enamel	5	4.2	-9.6	-2.1	28.75	19.67	-4.87	27.21	-	-
GUZ-14j-k	Cattle	Enamel	1	5.7	-9.6	-0.9	29.98	20.88	-3.62	28.45	-	-
VAL-108ab	Cattle	Enamel	24.48	3.3	-10.5	-3.1	27.71	18.66	-5.9	26.18	0.709	0.00002
VAL-108c	Cattle	Enamel	20.76	4.2	-11.9	-3.9	26.89	17.85	-6.73	25.35	-	-
VAL-108d	Cattle	Enamel	17.47	4.1	-11.9	-4.2	26.58	17.55	-7.04	25.04	-	-
VAL-108e	Cattle	Enamel	15.22	4.8	-11.5	-3.8	26.99	17.95	-6.63	25.45	-	-
VAL-108f	Cattle	Enamel	12.55	3.8	-11.2	-3.3	27.51	18.46	-6.11	25.97	-	-
VAL-108g	Cattle	Enamel	9.87	4.2	-10.8	-3.5	27.3	18.26	-6.32	25.76	-	-
VAL-108h	Cattle	Enamel	7.11	3.9	-10.5	-3.2	27.61	18.56	-6	26.07	-	-
VAL-108i	Cattle	Enamel	4.61	3.9	-10.2	-3.1	27.71	18.66	-5.9	26.18	0.709	0.00001
VAL-108j	Cattle	Enamel	2.27	4.3	-10.4	-2.3	28.54	19.47	-5.07	27	-	-
VAL-108k	Cattle	Enamel	1	3.6	-10.3	-2.1	28.75	19.67	-4.87	27.21	-	-
VAL-456	Cattle	Enamel	Bulk	4.95	-10.72	-4.34	26.44	17.41	-7.18	24.89	0.70995	0.00002
VAL-05b	Pig	Enamel	Bulk	3.7	-11.3	-3.7	27.1	18.05	-6.52	25.55	-	-
VAL-301	Pig	Enamel	Bulk	3.2	-11.8	-3.2	27.61	18.56	-6	26.07	0.70925	0.00001
VAL-310	Pig	Enamel	Bulk	3	-12.3	-3.9	26.89	17.85	-6.73	25.35	0.71056	0.00002
VAL-100	Pig	Enamel	Bulk	3.9	-12.6	-4.3	26.48	17.45	-7.14	24.93	0.70978	0.00001
VAL-101	Pig	Enamel	Bulk	2.6	-11	-1.5	29.36	20.28	-4.24	27.83	0.70944	0.00002

Table A.5.1.3.a Results of ⁸⁷Sr/⁸⁶Sr, δ¹⁸O and δ¹³C_{ap} from Valencina-Castilleja (part 5/6).

Sample	Taxon	Element	Distance from ERJ (mm)	CaCO ₃ (%)	δ ¹³ C (‰)	δ ¹⁸ O _{VPOB} (‰)	δ ¹⁸ O _{SMOW} (‰)	δ ¹⁸ O _{PO4} (‰)	δ ¹⁸ O _{H2O} (‰)	T _{Air} °C	⁸⁷ Sr/ ⁸⁶ Sr	2σ
VAL-102	Pig	Enamel	Bulk	3.8	-10.5	-4.7	26.06	17.04	-7.56	24.52	0.71289	0.00002
VAL-103	Pig	Enamel	Bulk	3.1	-12.2	-4.1	26.68	17.65	-6.94	25.14	0.70988	0.00002
VAL-104	Pig	Enamel	Bulk	2.9	-10.6	-4.2	26.58	17.55	-7.04	25.04	0.71068	0.00002
VAL-105	Pig	Enamel	Bulk	3.8	-10.9	-2.2	28.64	19.57	-4.97	27.11	0.70855	0.00002
VAL-106	Pig	Enamel	Bulk	3.1	-11.4	-2.9	27.92	18.86	-5.69	26.38	0.7092	0.00001
VAL-107	Pig	Enamel	Bulk	4.1	-12.3	-3.6	27.2	18.15	-6.42	25.66	0.70976	0.00001
VAL-370	Pig	Enamel	Bulk	2.4	-12	-5.7	25.03	16.03	-8.59	23.48	0.70864	0.00001
VAL-380	Pig	Enamel	Bulk	3.4	-12.3	-4.1	26.68	17.65	-6.94	25.14	-	-
VAL-387	Pig	Enamel	Bulk	3.8	-12.8	-4.6	26.17	17.14	-7.45	24.62	0.70888	0.00003
VAL-388	Pig	Enamel	Bulk	4.4	-12.7	-5.6	25.14	16.13	-8.49	23.59	0.70886	0.00002
VAL-401	Pig	Enamel	Bulk	3.8	-13.1	-2.1	28.75	19.67	-4.87	27.21	0.7083	0.00001
VAL-403	Pig	Enamel	Bulk	3.8	-12.5	-2.2	28.64	19.57	-4.97	27.11	0.70956	0.00002
VAL-404	Pig	Enamel	Bulk	3.3	-11.8	-3.1	27.71	18.66	-5.9	26.18	0.70956	0.00002
VAL-421	Pig	Enamel	Bulk	4.6	-11	-4.4	26.37	17.35	-7.25	24.83	0.70885	0.00002
GUZ-15	Pig	Enamel	Bulk	3.5	-11.5	-4.9	25.86	16.84	-7.76	24.31	-	-
VAL-446	Pig	Enamel	Bulk	4.06	-10.03	-4.06	26.72	17.69	-6.9	25.18	0.70944	0.00001
VAL-448	Pig	Enamel	Bulk	4.41	-11.43	-2.97	27.85	18.79	-5.77	26.31	0.70991	0.00002
VAL-449	Pig	Enamel	Bulk	4.47	-12.95	-3.74	27.05	18.01	-6.56	25.51	0.70931	0.00002
VAL-450	Pig	Enamel	Bulk	4.01	-13.12	-3.34	27.47	18.42	-6.15	25.93	0.71269	0.00001
VAL-451	Pig	Enamel	Bulk	3.07	-12.15	-4.12	26.66	17.63	-6.96	25.12	0.70927	0.00001
VAL-453	Pig	Enamel	Bulk	3.9	-11.24	-3.84	26.95	17.91	-6.67	25.41	0.71214	0.00002
VAL-55	Dog	Enamel	Bulk	5.1	-11.1	-4.6	26.17	17.14	-7.45	24.62	0.70868	0.00001
VAL-447	Dog	Enamel	Bulk	4.77	-11.07	-4.61	26.16	17.13	-7.46	24.61	0.70932	0.00001

Table A.5.1.3.a Results of ⁸⁷Sr/⁸⁶Sr, δ¹⁸O and δ¹³C_{ap} from Valencina-Castilleja (part 6/6).

A.5.1.3.b Results of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ from Valencina-Castilleja

Sample	Sector	Taxon	%C	%N	C/N	$\delta^{13}\text{C}$	$\delta^{15}\text{N}$	Skeletal element
VAL-305	Presidente Plácido Fernández Viagas 15	Cattle	24.4	8.3	3.4	-19.7	5.3	Tibia
VAL-406	Pabellón Cubierto	Cattle	18.87	7.07	3.1	-19.28	6.47	Calcaneus
VAL-506	PP4-Montelirio	Cattle	22.2	7.8	3.3	-20.7	7.4	Metapodial
VAL-416a	Pabellón Cubierto	Caprine	38.43	13.49	3.3	-20.56	4.45	Mandible
VAL-302	Presidente Plácido Fernández Viagas 15	Caprine	9.0	3.2	3.3	-19.1	5	Mandible
VAL-02b	Algarrobillo	Caprine	24.0	8.4	3.3	-17.4	7.8	Mandible
VAL-307	Presidente Plácido Fernández Viagas 15	Caprine	9.1	2.8	3.8	-18.1	6.5	Mandible
VAL-381	PP4-Mont	Caprine	36.63	14.15	3.0	-19.6	6	Metacarpal
VAL-385	PP4-Mont	Caprine	39.80	15.30	3.0	-21.47	5.97	Tibia
VAL-556	Trabajadores	Caprine	40.4	14.1	3.3	-20.2	5.8	Tibia
VAL-558	Trabajadores	Caprine	28.5	9.8	3.4	-21.2	8.3	Pelvis
VAL-559	Pabellón Cubierto	Caprine	22.7	7.5	3.5	-19.2	8.1	Pelvis
VAL-560	Pabellón Cubierto	Caprine	41.3	14.4	3.3	-20.6	5.2	Humerus
VAL-564	Pabellón Cubierto	Caprine	39.3	13.7	3.3	-20.9	5.6	Femur
VAL-301	Presidente Plácido Fernández Viagas 15	Pig	11.8	3.8	3.7	-19.6	6.3	Mandible
VAL-382b	PP4-Mont	Pig	31.04	11.87	3.0	-20.99	6.35	Mandible
VAL-386	PP4-Mont	Pig	39.25	14.11	3.2	-18.05	8.96	Humerus
VAL-426	La Cima	Pig	38.49	13.63	3.3	-20.18	5.5	Mandible
VAL-430	La Cima	Pig	41.51	15.39	3.1	-18.62	7.54	Mandible
VAL-436	La Gallega	Pig	38.35	14.21	3.1	-20.69	6.4	Humerus
VAL-555	Trabajadores	Pig	25.8	9.0	3.3	-17.7	5.8	Rib
VAL-557	Trabajadores	Pig	30.8	10.5	3.4	-20	5.5	Rib
VAL-310	Presidente Plácido Fernández Viagas 15	Pig	10.6	4.5	2.8	-19	5.7	Mandible
VAL-383b	PP4-Mont	Pig	28.97	10.73	3.1	-20.02	6.59	Long bone
VAL-55	PP4-Mont	Dog				-18	9.1	Long bone
VAL-306	Presidente Plácido Fernández Viagas 15	Dog	19.5	6.6	3.5	-21.1	5.6	Radius
VAL-410	Pabellón Cubierto	Dog	39.43	14.64	3.1	-19.77	6.7	Ulna
VAL-432	Mariana Pineda	Dog	39.50	15.10	3.1	-19.03	8.29	Mandible
VAL-304	Presidente Plácido Fernández Viagas 15	Deer	16.8	5.4	3.6	-19	4.8	Scapula
VAL-351	Algarrobillo	Deer	40.11	14.76	3.2	-20.49	5.64	Ulna
VAL-437	Mariana Pineda	Deer	64.51	23.08	3.3	-20.8	5.08	Mandible
VAL-303	Presidente Plácido Fernández Viagas 15	Aurochs	21.3	7.4	3.4	-21.1	5.9	Humerus
VAL-354	Algarrobillo	Horse	40.40	14.87	3.2	-19.35	6.87	Metatarsal
VAL-353	Algarrobillo	Human	40.77	14.83	3.2	-19.85	7.27	Fibula
VAL-356	Algarrobillo	Human	39.41	13.96	3.3	-19.17	9.3	Femur
VAL-441	C/Huelva	Mesomammal	38.78	13.65	3.3	-20.99	5.92	Tibia

Table 5.1.3.b Results of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ from Valencina-Castilleja.

A.5.1.4 El Amarguillo

Sample	Taxon	Tooth	Distance from CEJ (mm)	CaCO ₃ (%)	$\delta^{13}\text{C}$ (‰)	$\delta^{18}\text{O}_{\text{VPDB}}$ (‰)	$\delta^{18}\text{O}_{\text{SMOW}}$ (‰)	$\delta^{18}\text{O}_{\text{PO4}}$ (‰)	$\delta^{18}\text{O}_{\text{H2O}}$ (‰)	T _{Air-C}	⁸⁷ Sr/ ⁸⁶ Sr	2 σ
AMA-7b	Pig	M ₁	Bulk	2.8	-12.0	-3.8	26.9	17.9	-6.7	25.4	0.7091	0.00003
AMA-13b	Caprine	M ₂	23.21	4.7	-10.1	-1.6	29.2	20.1	-4.4	27.7	0.70919	0.00002
AMA-13c	Caprine	M ₂	18.86	4.1	-12.1	-2	28.8	19.7	-4.8	27.3	-	-
AMA-13d	Caprine	M ₂	14.25	4.4	-13.2	-3.2	27.6	18.5	-6.1	26.0	-	-
AMA-13e	Caprine	M ₂	9.13	3.8	-13.4	-4	26.7	17.7	-6.9	25.2	-	-
AMA-13f	Caprine	M ₂	4.42	4.3	-12.3	-2.2	28.6	19.5	-5.0	27.1	0.70914	0.00001
AMA-32b	Caprine	M ¹	14.86	3.9	-10.5	-2.1	28.7	19.6	-4.9	27.2	0.70886	0.00001
AMA-32c	Caprine	M ¹	11.67	2.6	-9.9	-3.9	26.9	17.9	-6.7	25.3	-	-
AMA-32d	Caprine	M ¹	6.79	3.3	-10.1	-3.4	27.4	18.3	-6.3	25.8	0.70876	0.00002
AMA-29b	Cattle	M ²	44.56	3.6	-11.4	-5.2	25.5	16.5	-8.1	24.0	0.70953	0.00002
AMA-29c	Cattle	M ²	39.14	3.7	-11.7	-4.3	26.4	17.4	-7.2	24.9	-	-
AMA-29d	Cattle	M ²	35.59	3.1	-11.6	-4.5	26.2	17.1	-7.4	24.6	-	-
AMA-29e	Cattle	M ²	31.63	3.6	-11.9	-4.2	26.5	17.5	-7.1	24.9	-	-
AMA-29f	Cattle	M ²	26.49	2.2	-11.6	-4.5	26.3	17.2	-7.4	24.7	-	-
AMA-29g	Cattle	M ²	21.1	2.4	-11.5	-4.3	26.4	17.4	-7.2	24.8	-	-
AMA-29h	Cattle	M ²	16.33	2.1	-11.2	-4.9	25.8	16.8	-7.8	24.3	-	-
AMA-29i	Cattle	M ²	12.5	2.7	-10.9	-5	25.7	16.6	-8.0	24.1	0.70902	0.00001
AMA-21a (PA-63)	Cattle	M ²	Cement	6.91	-10.9	-5.04	25.7	16.6	-7.9	24.1	-	-
AMA-21b	Cattle	M ²	30	4.09	-9.45	-2.91	27.9	18.9	-5.7	26.4	-	-
AMA-21c	Cattle	M ²	27	4.79	-9.38	-2.61	28.2	19.2	-5.4	26.7	-	-
AMA-21d	Cattle	M ²	23	4.36	-9.19	-2.84	28.0	18.9	-5.6	26.4	-	-
AMA-21e	Cattle	M ²	18	4.87	-9.09	-2.83	28.0	18.9	-5.6	26.5	-	-
AMA-21f	Cattle	M ²	15	3.74	-9.20	-3.25	27.6	18.5	-6.1	26.0	-	-
AMA-21g	Cattle	M ²	12	4.51	-9.13	-3.51	27.3	18.2	-6.3	25.8	-	-
AMA-21h	Cattle	M ²	9	4.65	-9.57	-3.66	27.1	18.1	-6.5	25.6	-	-
AMA-21i	Cattle	M ²	6	5.03	-9.76	-3.63	27.2	18.1	-6.4	25.6	-	-
AMA-21j	Cattle	M ²	4	5.26	-10.01	-4.49	26.3	17.3	-7.3	24.7	-	-
AMA-21k	Cattle	M ²	Dentine	8.22	-11.88	-4.92	25.8	16.8	-7.8	24.3	-	-
AMA-49a (PA-66)	Aurochs	M ₃	Cement	7.2	-11.72	-4.43	26.9	26.3	17.3	-7.3	-	-
AMA-49b	Aurochs	M ₃	40	4.64	-11.15	-2.79	27.98	28.0	19.0	-5.6	-	-
AMA-49c	Aurochs	M ₃	36	4.51	-10.89	-2.30	28.48	28.5	19.5	-5.1	-	-
AMA-49d	Aurochs	M ₃	33	4.69	-10.79	-1.69	29.12	29.2	20.1	-4.4	-	-
AMA-49e	Aurochs	M ₃	29	4.58	-10.53	-1.51	29.31	29.4	20.3	-4.3	-	-
AMA-49f	Aurochs	M ₃	26	4.48	-10.13	-1.79	29.01	29.1	20.0	-4.5	-	-
AMA-49g	Aurochs	M ₃	21	4.69	-10.16	-1.53	29.28	29.3	20.2	-4.3	-	-
AMA-49h	Aurochs	M ₃	17	5.01	-10.24	-2.01	28.78	28.8	19.8	-4.8	-	-
AMA-49i	Aurochs	M ₃	14	4.96	-10.31	-2.47	28.31	28.4	19.3	-5.2	-	-
AMA-49j	Aurochs	M ₃	10	4.44	-10.31	-3.88	26.86	26.9	17.9	-6.7	-	-
AMA-49k	Aurochs	M ₃	6	5.41	-10.59	-3.82	26.92	27.0	17.9	-6.6	-	-
AMA-49l	Aurochs	M ₃	3	5.33	-10.91	-4.00	26.73	26.8	17.8	-6.8	-	-
AMA-49m	Aurochs	M ₃	Dentine	7.71	-11.92	-4.59	26.13	26.2	17.2	-7.4	-	-

Table A.5.1.4 Results of $\delta^{18}\text{O}$, $\delta^{13}\text{C}$ and $^{87}\text{Sr}/^{86}\text{Sr}$ from Amarguillo II, Los Molares.

A.5.1.5 Poblado Calcolítico

Sample	Taxon	Element	CaCO ₃ (%)	δ ¹³ C (‰)	δ ¹⁸ O _{VPDB} (‰)	δ ¹⁸ O _{SΜOW} (‰)	δ ¹⁸ O _{PO₄} (‰)	δ ¹⁸ O _{H₂O} (‰)	T _{Air-C}	⁸⁷ Sr/ ⁸⁶ Sr	2σ
PAR-21	Pig	Mandible	3.7	-12.1	-5.2	28.5	19.4	-5.1	26.9	0.71014	0.00002
PAR-22	Pig	Mandible	5.3	-13.2	-3.8	28.6	19.6	-5.0	27.1	0.71038	0.00001
PAR-23	Pig	Mandible	5.7	-13.7	-2.2	28.3	19.2	-5.4	26.7	0.71112	0.00001

Table A.5.1.5 Results of δ¹⁸O_c, δ¹³C and ⁸⁷Sr/⁸⁶Sr from Poblado Calcolítico, Aznalcóllar.

A.5.1.6 Parque Miraflores

Sample	Taxon	Element	CaCO ₃ (%)	δ ¹³ C (‰)	δ ¹⁸ O _{VPDB} (‰)	δ ¹⁸ O _{SΜOW} (‰)	δ ¹⁸ O _{PO₄} (‰)	δ ¹⁸ O _{H₂O} (‰)	T _{Air-C}	⁸⁷ Sr/ ⁸⁶ Sr	2σ
MIR-2(O)	Pig	Mandible	5.0	-11.0	-2.5	28.3	19.3	-5.3	26.8	0.70859	0.00001
MIR-4(O)	Pig	Mandible	4.3	-11.7	-0.5	30.4	21.3	-3.2	28.8	0.70833	0.00001
MIR-6(O)	Pig	Cranial	3.1	-11.5	0.1	31.0	21.9	-2.6	29.4	0.71022	0.00001
MIR-7(O)	Pig	Upper Canine	2.9	-11.9	-2.5	28.3	19.2	-5.3	26.8	0.71048	0.00001
MIR-8(O)	Pig	Lower Canine	4.8	-12.7	-3.9	26.8	17.8	-6.8	25.3	0.71054	0.00001
MIR-9(O)	Pig	Teeth	3.6	-11.0	-3.9	26.9	17.8	-6.7	25.3	0.70888	0.00001

Table A.5.1.6 Results of δ¹⁸O_c, δ¹³C and ⁸⁷Sr/⁸⁶Sr from Parque Miraflores, Sevilla.

A.5.2 Phytoliths Analyses

Sample	Structure	Level	Concentration (Mill/g of sediment)	Monocots (%)	Dicots (%)	Melted and weathered (%)	Inflorescence ^a	Leaf and stem ^a	Ratio leaf-stem to inflorescence	Dendritics (%)	Short cells (Pooideae) ^b (%)	Multicells (%)
Control 1	-	-	0.07	-	-	-	-	-	-	-	-	-
Control 2	-	-	0.04	-	-	-	-	-	-	-	-	-
Control 3	-	-	0.16	-	-	-	-	-	-	-	-	-
LRTII-1	1	53	0.85	49	11	40	28	72	2.6	0	89	9
LRTII-2	1	55	0.23	-	-	-	-	-	-	-	-	-
LRTII-3	2	30	0.13	-	-	-	-	-	-	-	-	-
LRTII-4	2	31	2.50	77	12	11	71	29	0.4	3	56	6
LRTII-5	3	38	0.24	-	-	-	-	-	-	-	-	-
LRTII-6	3	46	0.58	63	10	27	51	49	1.0	3	61	10
LRTII-7	4	36	0.07	-	-	-	-	-	-	-	-	-
LRTII-8	7	29	1.61	89	8	3	30	70	2.4	0	12	8
LRTII-10	11	47	1.05	89	9	2	52	48	0.9	0	12	8
LRTII-11	16	33	0.07	-	-	-	-	-	-	-	-	-
LRTII-12	18	59	0.06	-	-	-	-	-	-	-	-	-

Table A.5.2.1 Results of phytoliths analyses at LRT-II (^aPercentage over monocot morphotypes. ^bPercentage over all the grass short cell morphotypes, which include Pooideae, Panicoideae and Chloridoideae subfamilies).

Appendix 6: Pottery Analyses of La Loma del Real Tesoro II

A.6.1 Structure 1

Level 10

	NF	%	Weight (g)	%
Shapeless	50	90.90	1293	92.65
Form	5	10.10	102.63	7.35
Total	55	100	1395.63	100

Table A.6.1

Level 24

	NF	%	Weight (g)	%
Shapeless	42	87.5	618.98	95.96
Form	6	12.5	26.06	4.04
Total	48	100	645.04	100

Table A.6.2

Level 52

	NF	%	Weight (g)	%
Shapeless	24	85.71	209.38	78.01
Form	4	14.29	58.99	21.98
Total	28	100	268.37	100

Table A.6.3

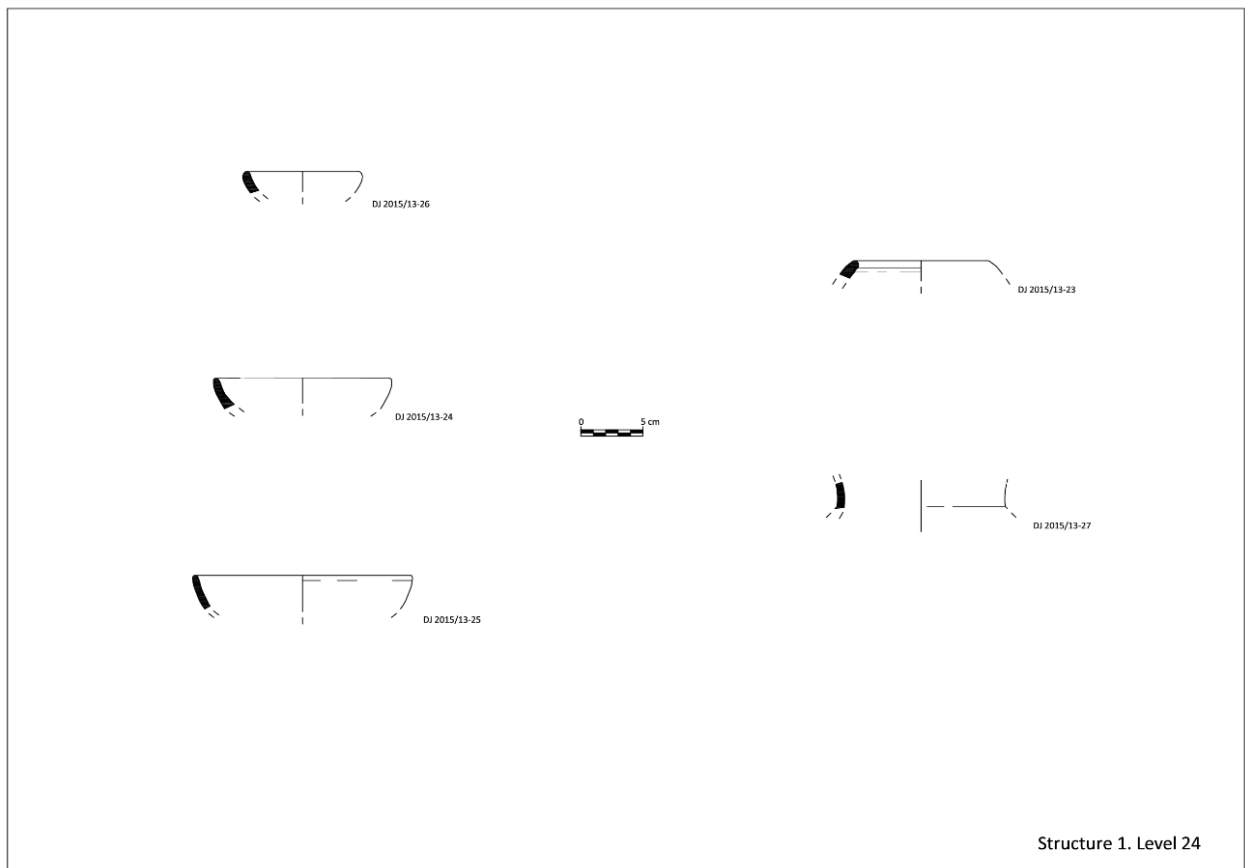
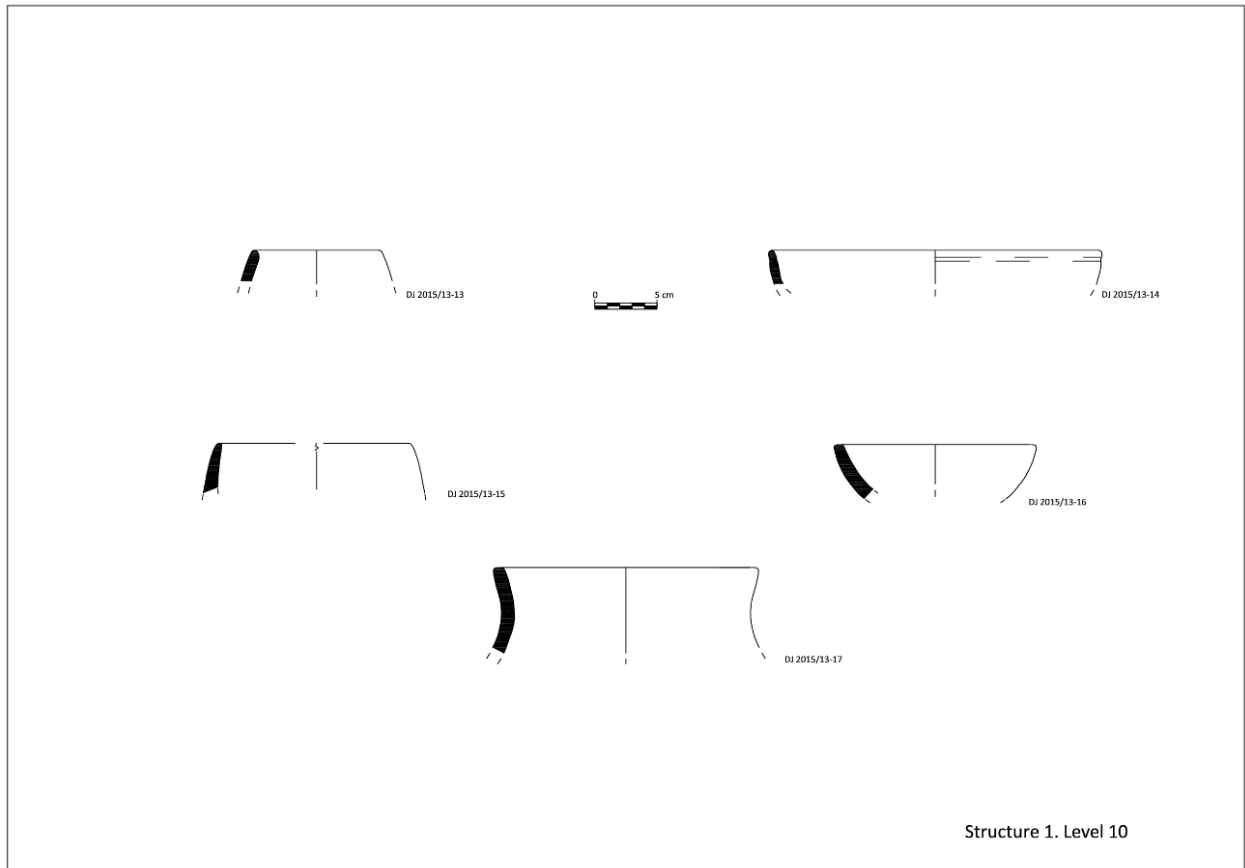
Level 55

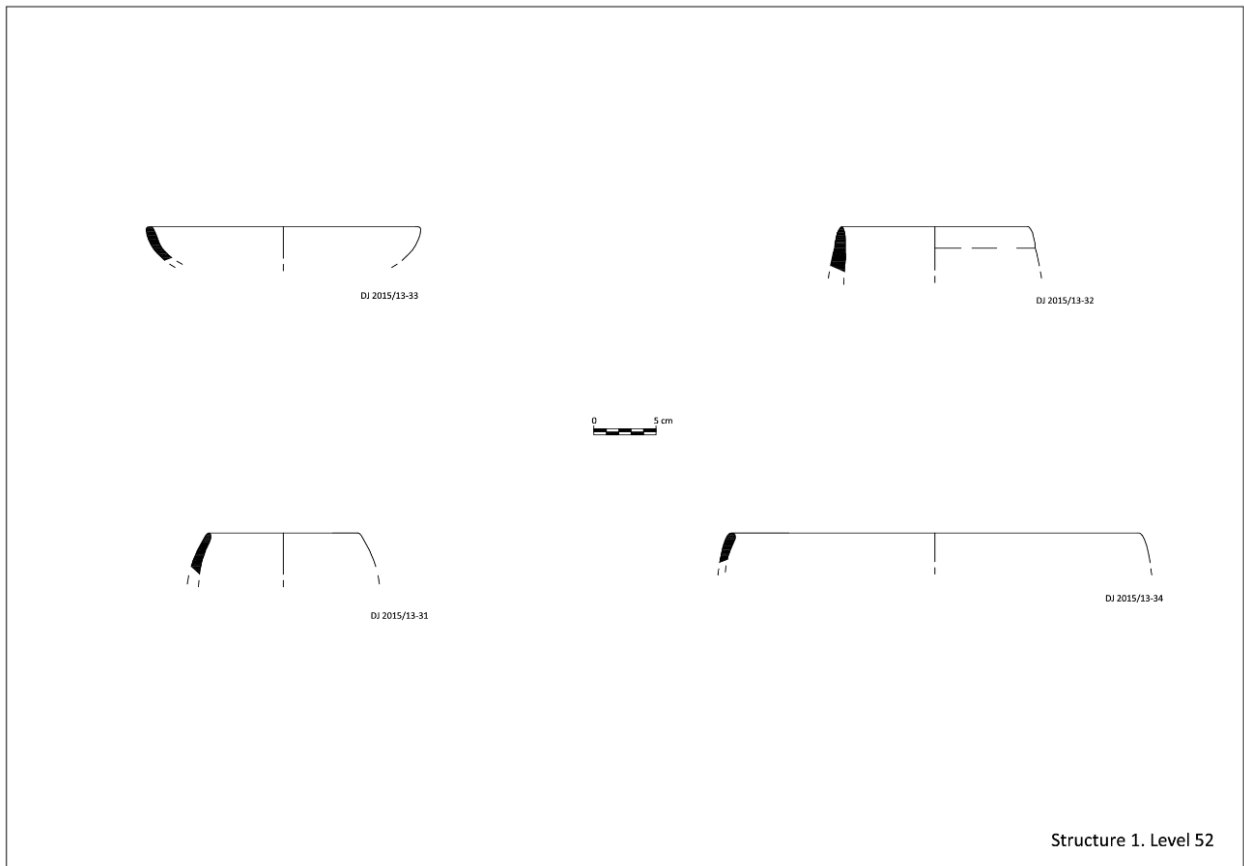
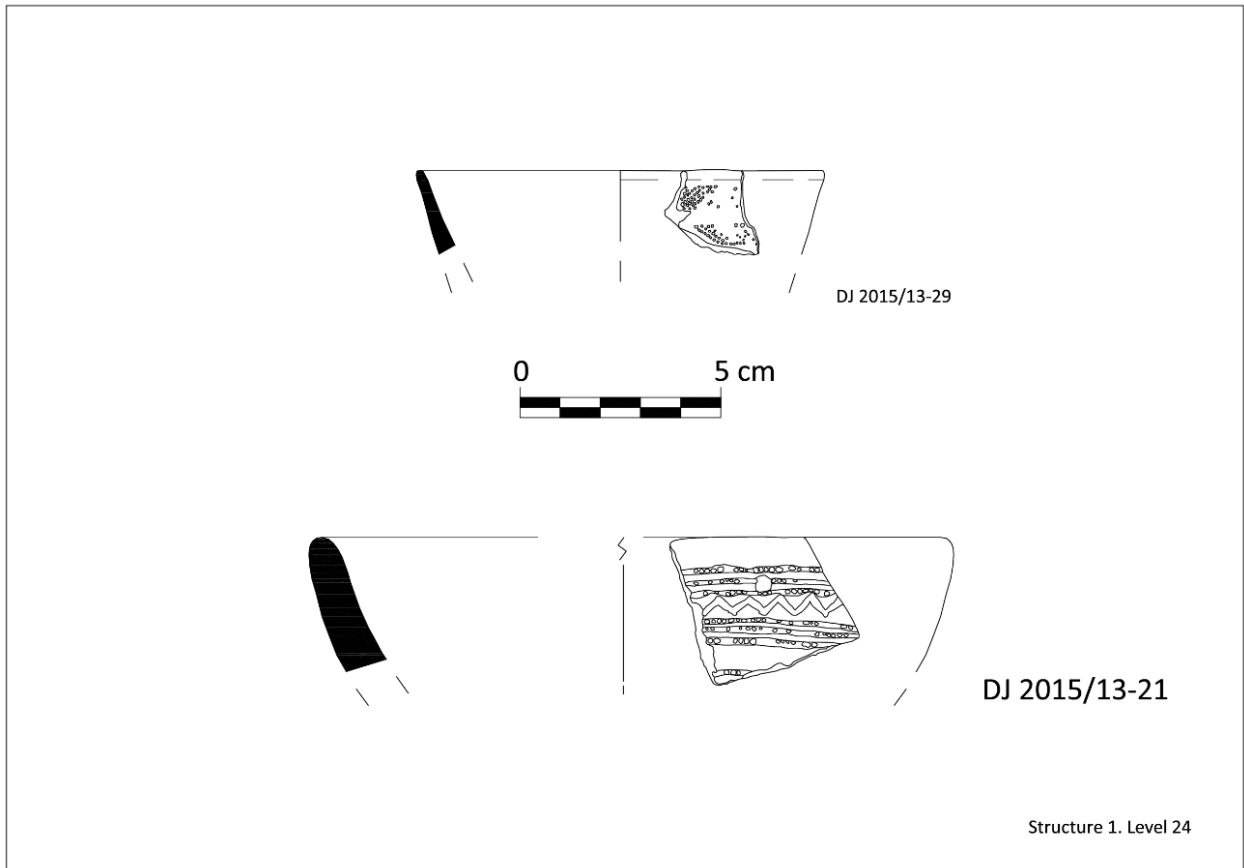
33 shapeless sherds have been recorded in level 55. Their total weight is 259 gr. All of the fragments are indistinct fragments of different vessels with grey and brown paste, medium small sized tempering and fired under reducing conditions.

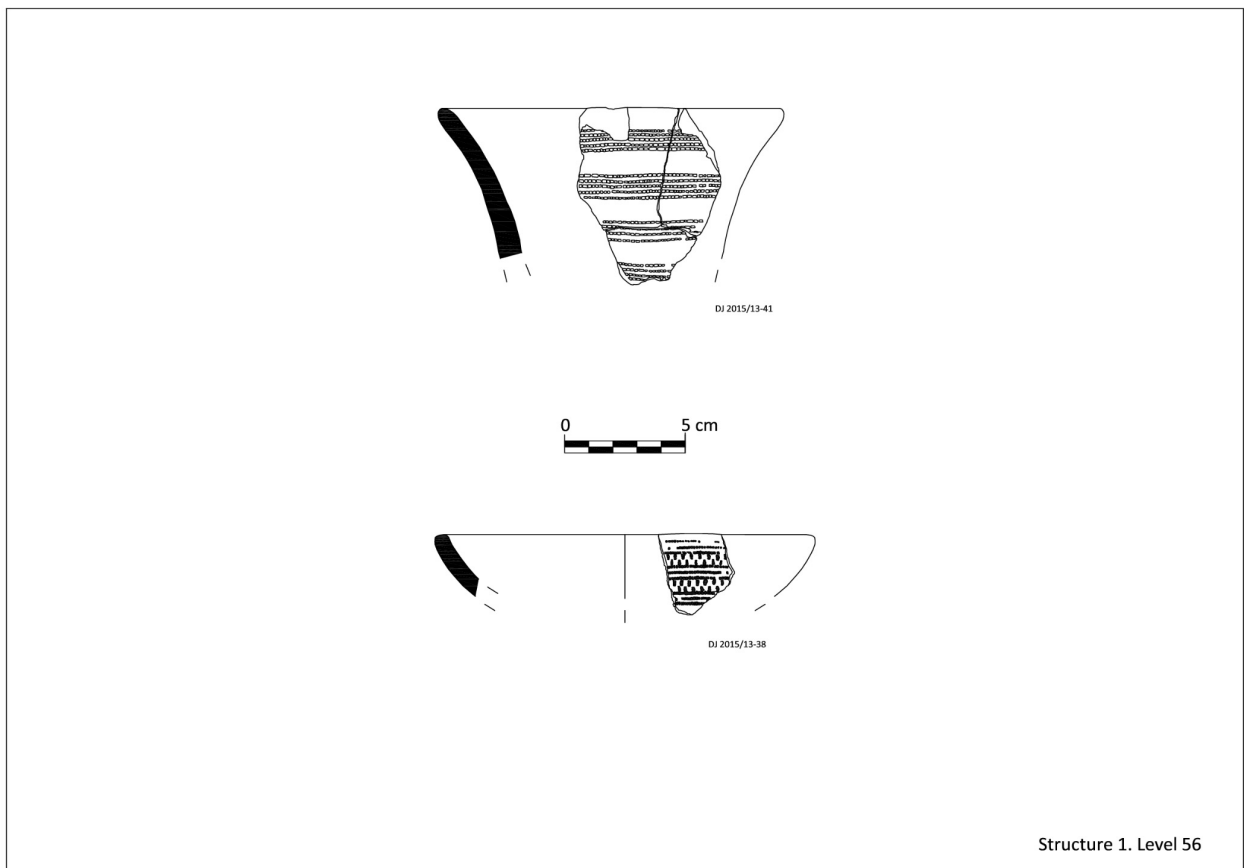
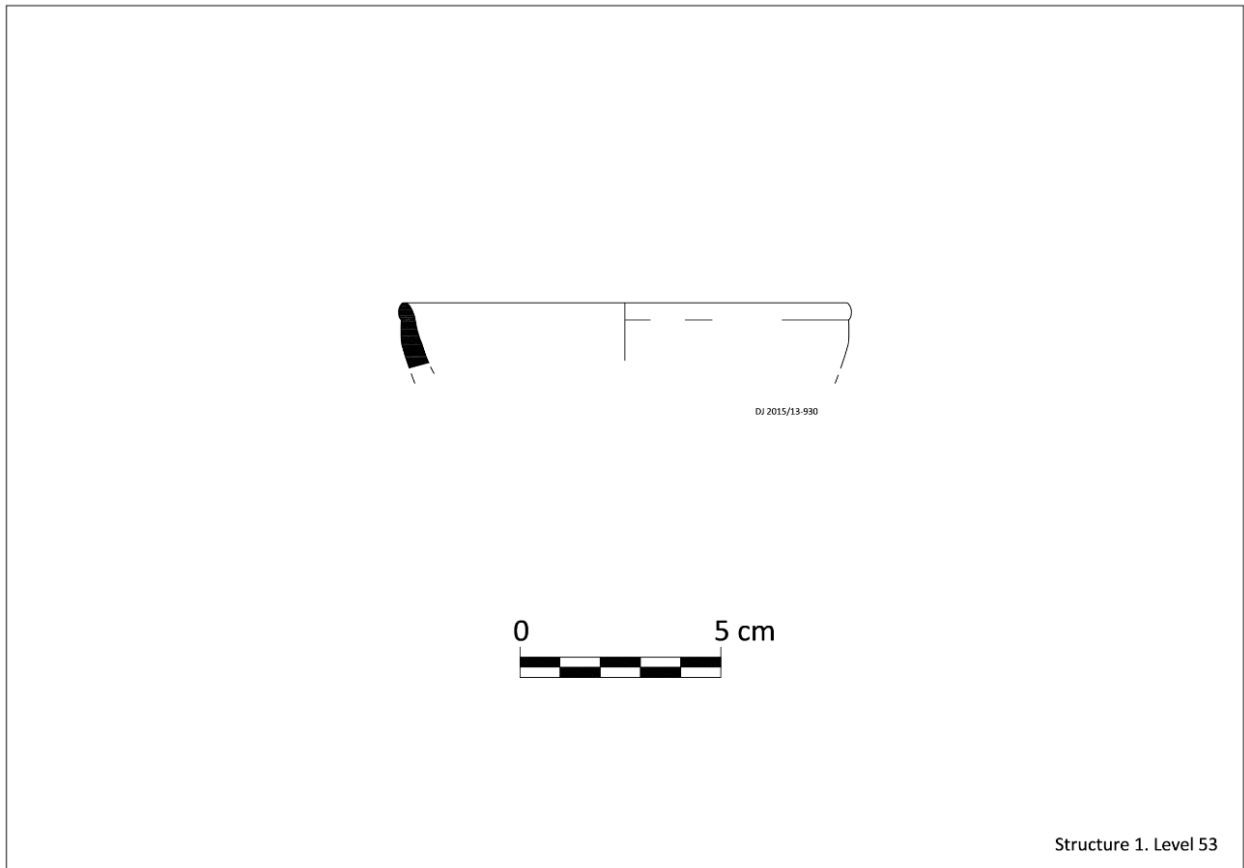
Level 56/61

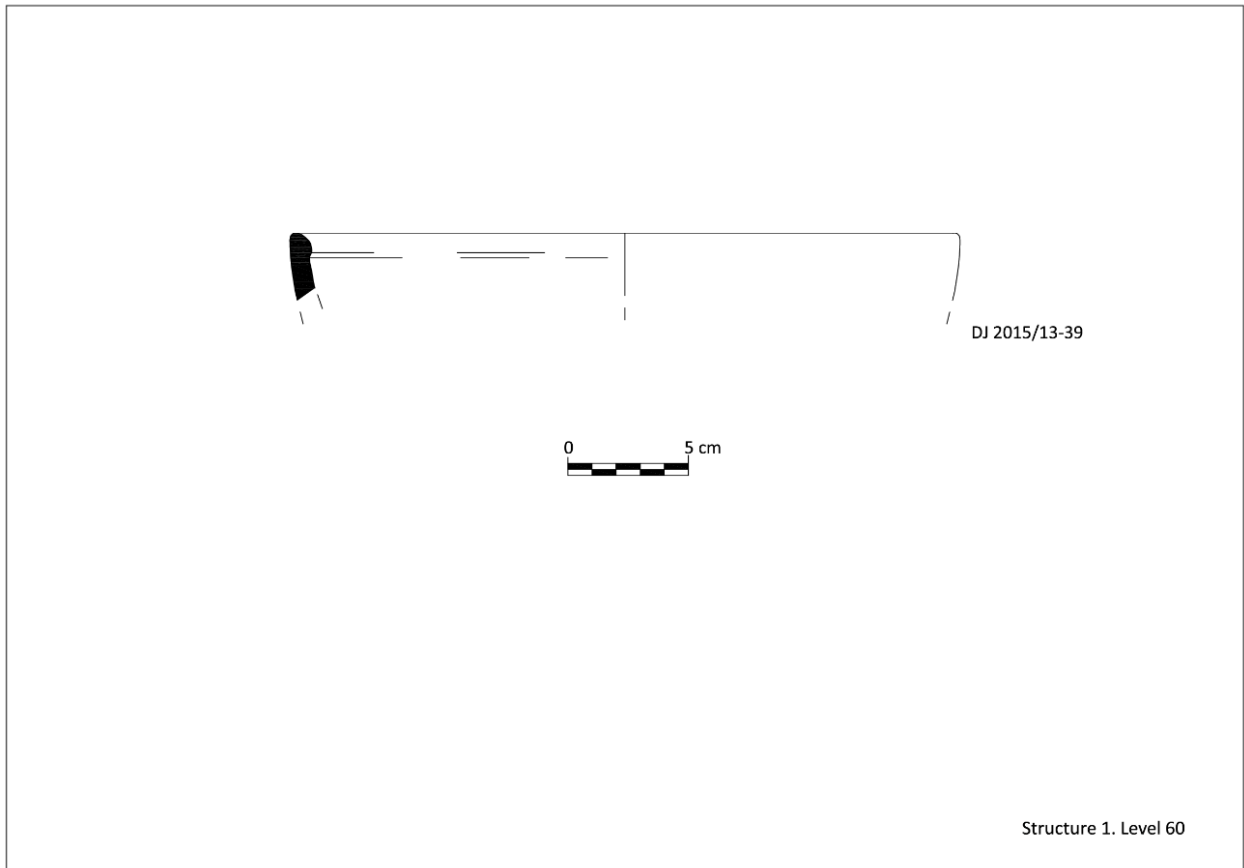
	NF	%	Weight (g)	%
Shapeless	8	80	92	70.07
Form	2	20	39.28	29.92
Total	10	100	131.28	100

Table A.6.4.









DJ2015/13-21. Structure 1-Ue24.



DJ2015/13-29. Structure 1. Level 24.



DJ2015/13-38. Structure 1. Level 56/61.



DJ2015/13-41. Structure 1. Level 56/61.

A.6.2 Structure 2

Level 22

	NF	%	Weight (g)	%
Form	5	10.20	67.04	10.84
Shapeless	44	89.79	551,14	89.15
Total	49	100	618.18	100

Table A.6.5

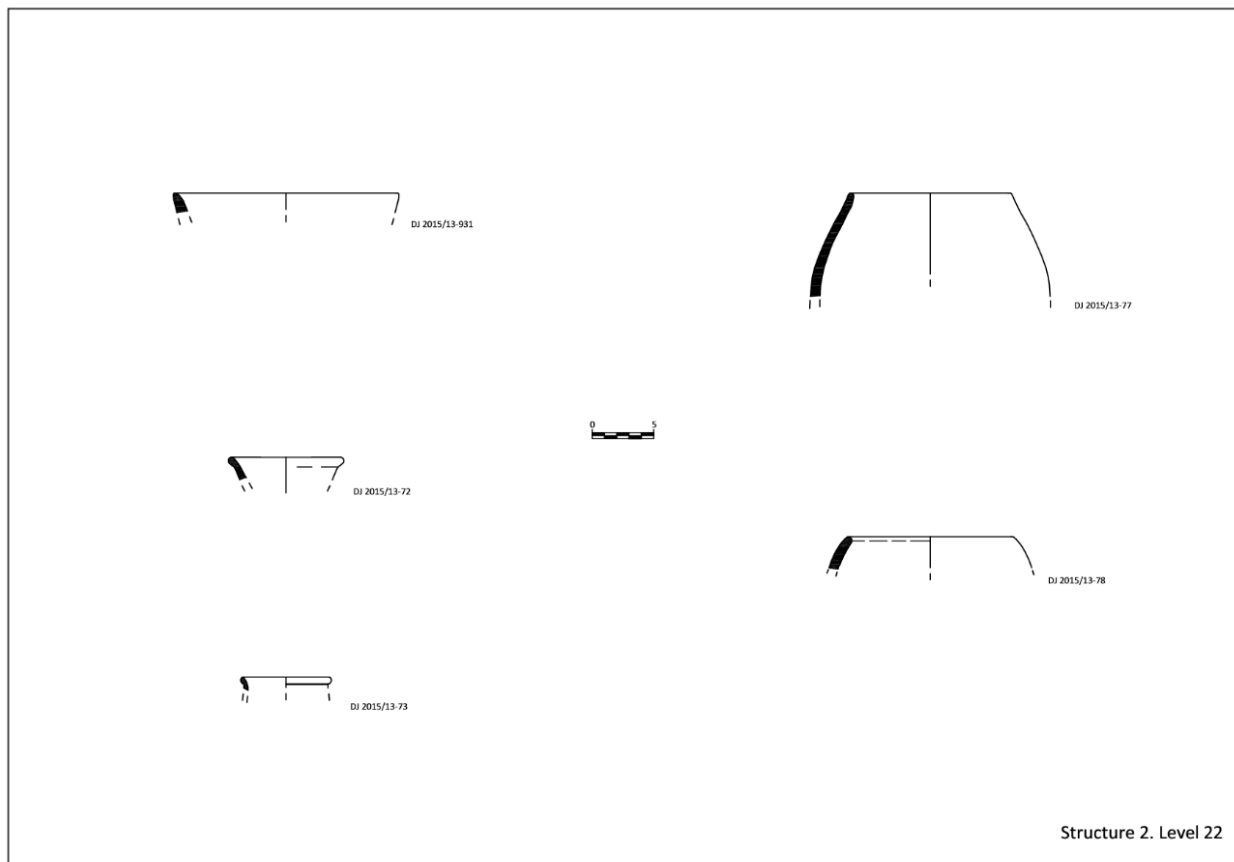
Level 30

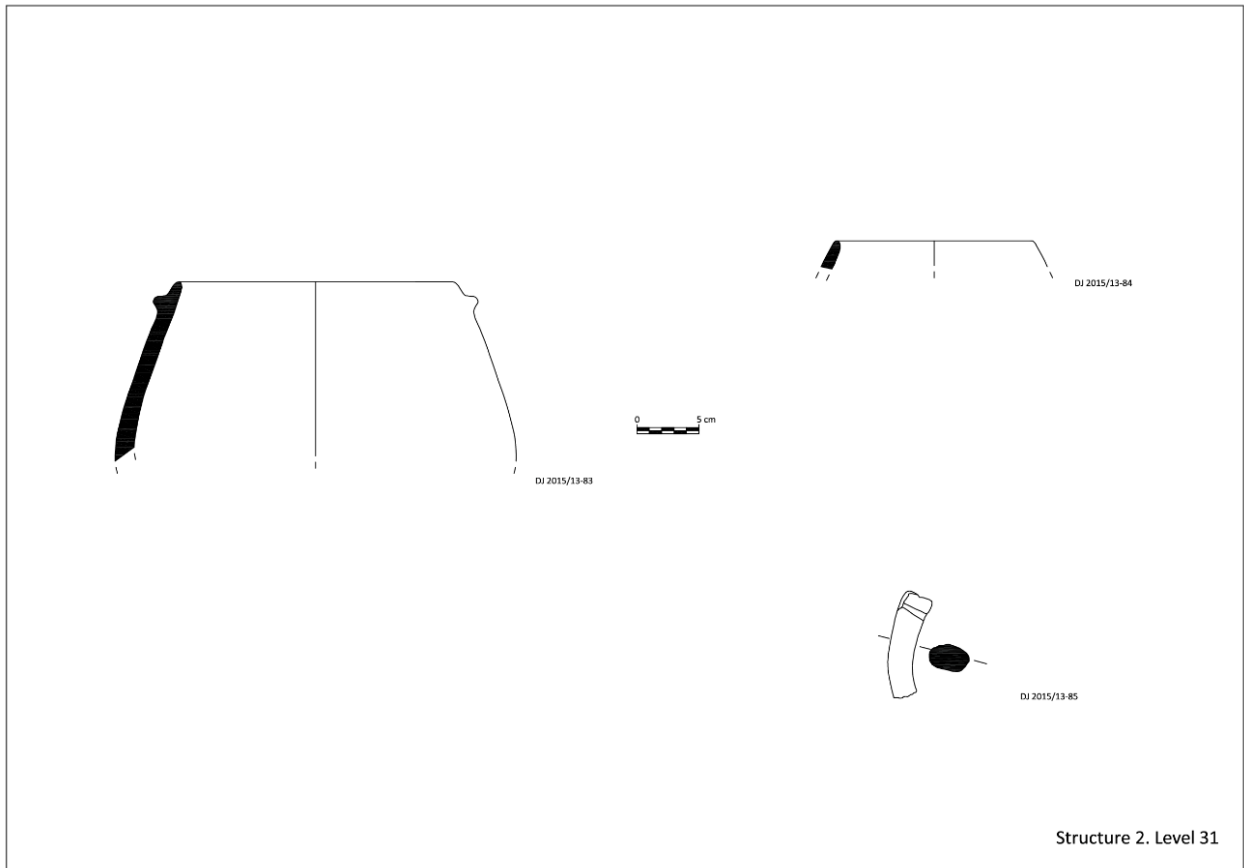
Five unidentifiable, indistinct sherds were documented in level 30. 57 fragments of adobe with a thickness between 2 and 4cm were documented also.

Level 31

	NF	%	Weight (g)	%
Shapeless	5	71.42	80.65	84.03
Form	2	28.57	15.32	15.96
Total	7	100	95.97	100

Table A.6.6.





DJ2015/13-85.

A.6.3 Structure 3

Level 28

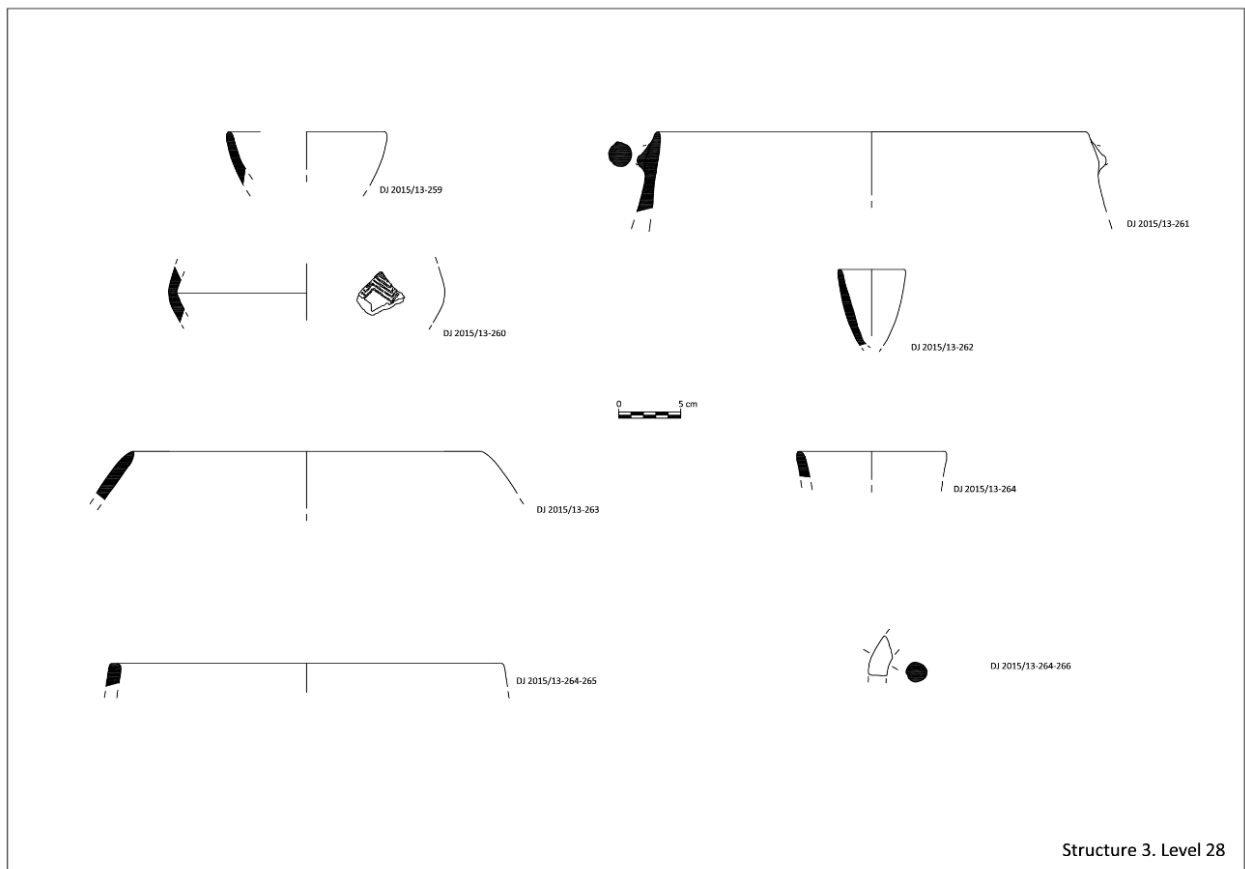
	NF	%	Weight	%
Form	16	12.69	149.35	8.49
Shapeless	110	87.30	1609	91.50
Total	126	100	1758.35	100

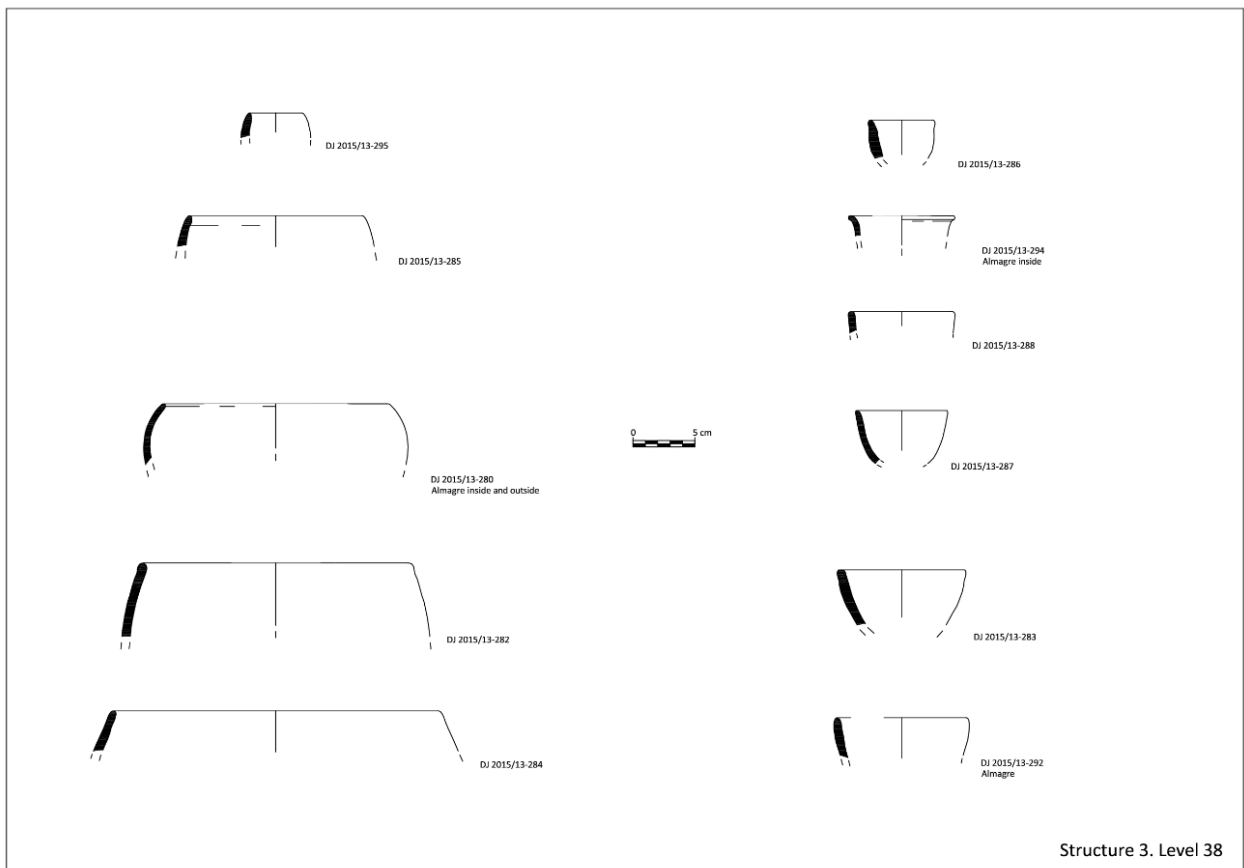
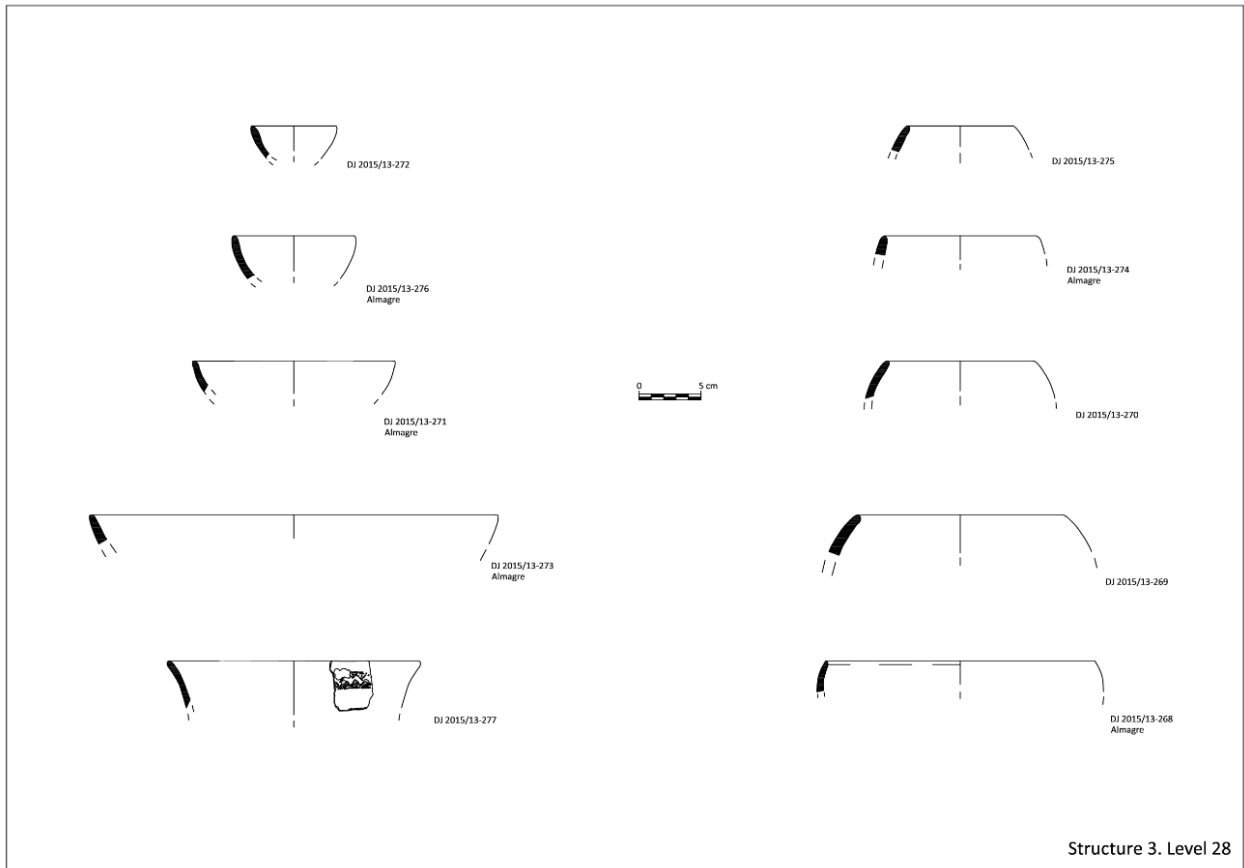
Table A.6.7.

Level 38

	NF	%	Weight	%
Shapeless	64	84.21	1138	83.36
Form	12	15.78	227.16	16.63
Total	76	100	1365.16	100

Table A.6.8.







Dj2015/13-294. Structure 2-28.



DJ2015/13-260. Structure 2-28.



DJ2015/13-261. Structure 2-28.



DJ2015/13-277. Structure 2-28.



DJ2015/13-280. Structure 2-38.

A.6.4 Structure 4

Level 4

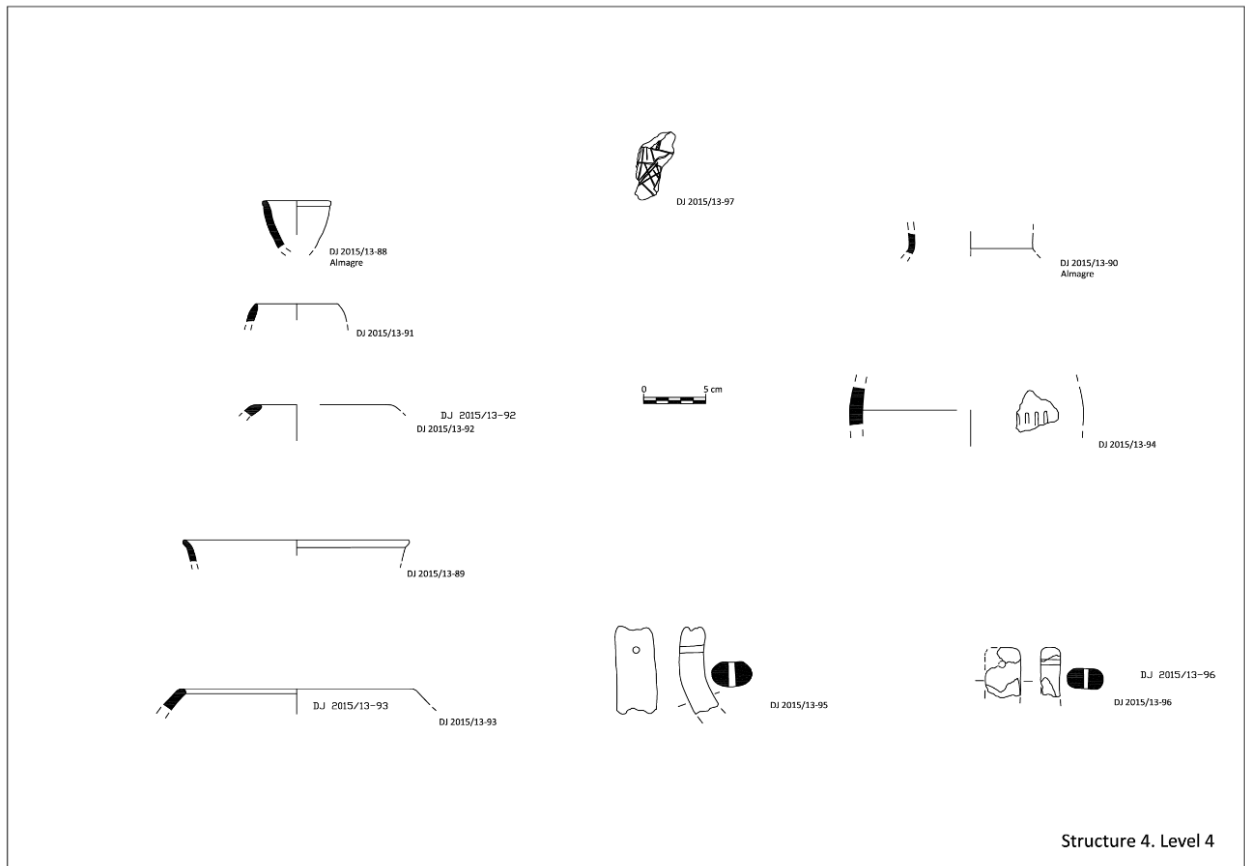
	NF	%	Weight (g)	%
Shapeless	78	91.76	509.73	91.25
Form	7	8.23	48.85	8.74
Total	85	100	558.58	100

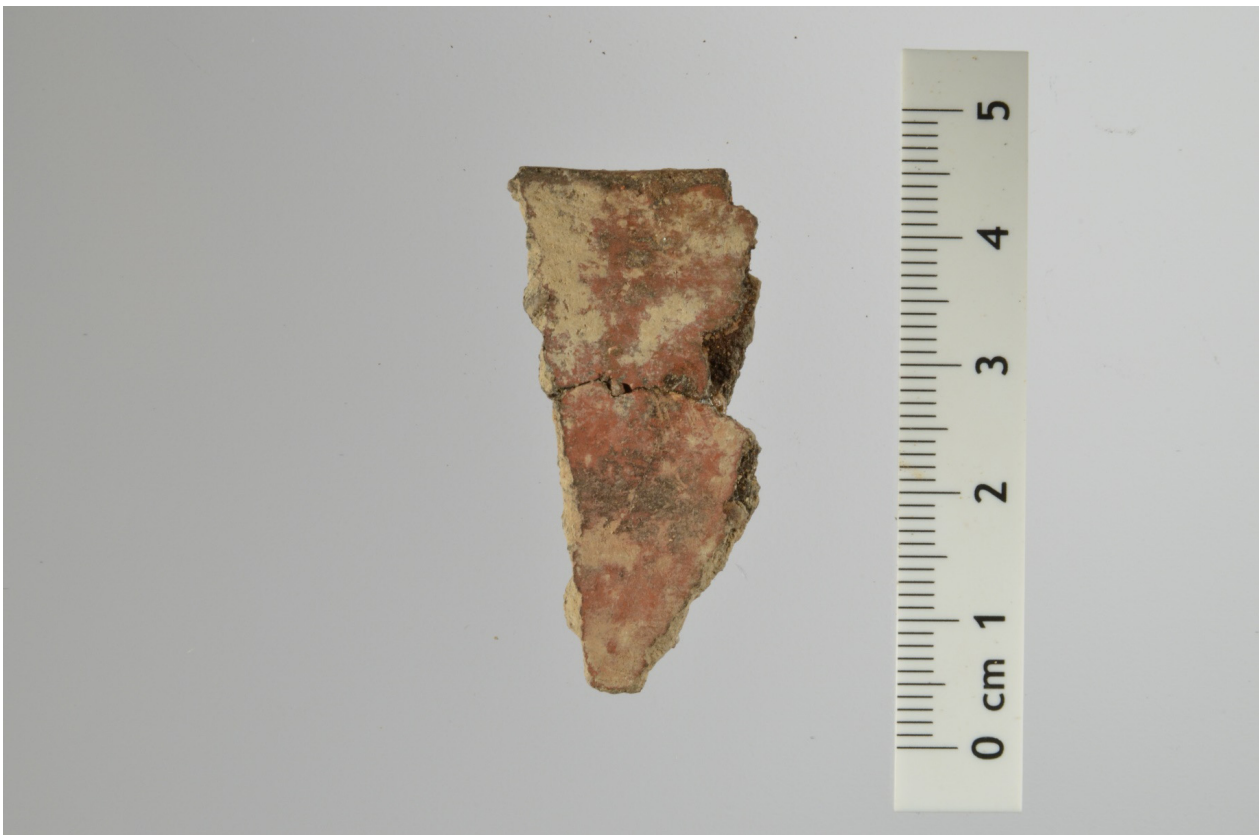
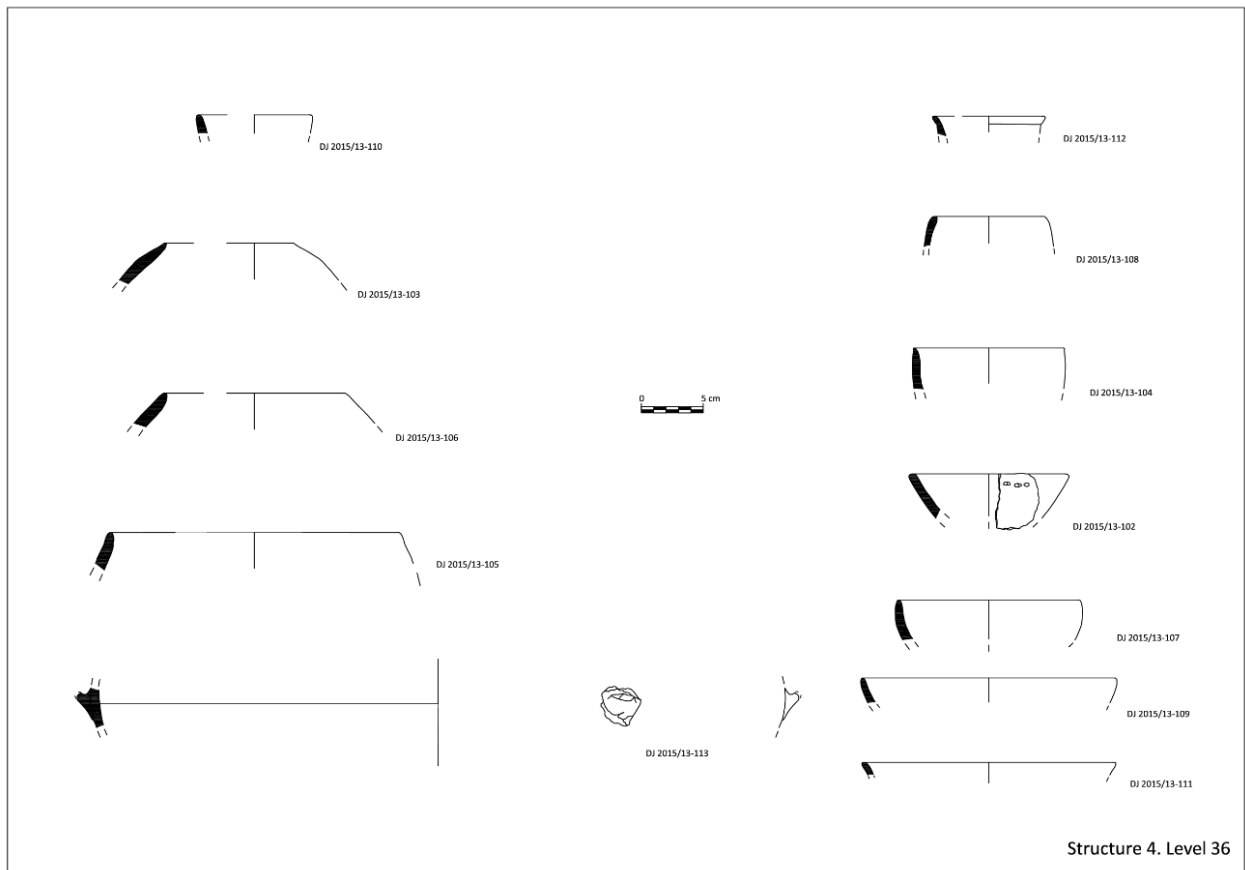
Table A.6.9.

Level 36

	NF	%	Weight (g)	%
Shapeless	85	87.62	1118	92.30
Form	12	12.37	93.14	7.69
Subtotal	97	100	1211.14	100
Others	21	17.79	1105	47.70
Total	118	100	2316.14	100

Table A.6.10





DJ2015/13-88. Structure 4. Level 4.



DJ2015/13-94. Structure 4. Level 4.



DJ2015/13-95. Structure 4. Level 4.



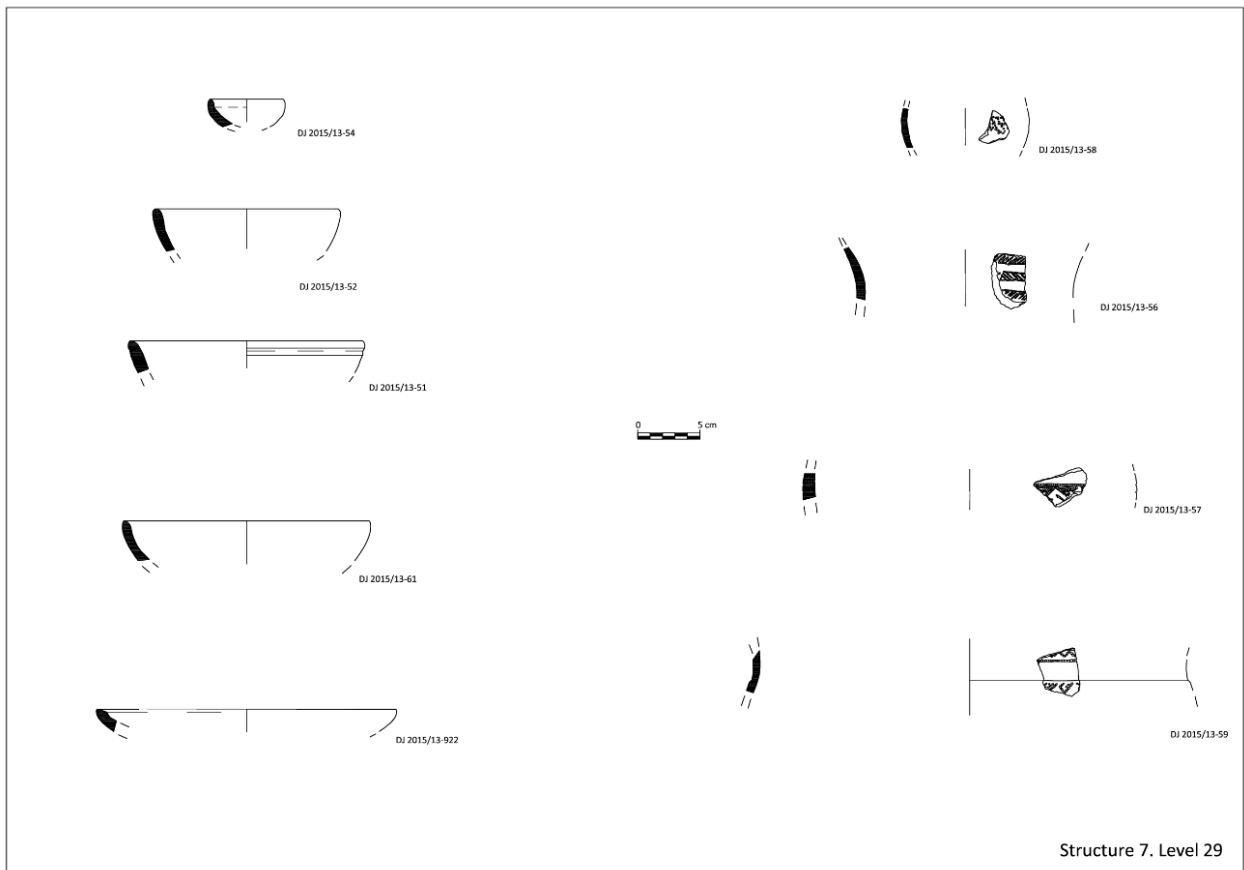
DJ2015/13-102. Structure 4. Level 36.

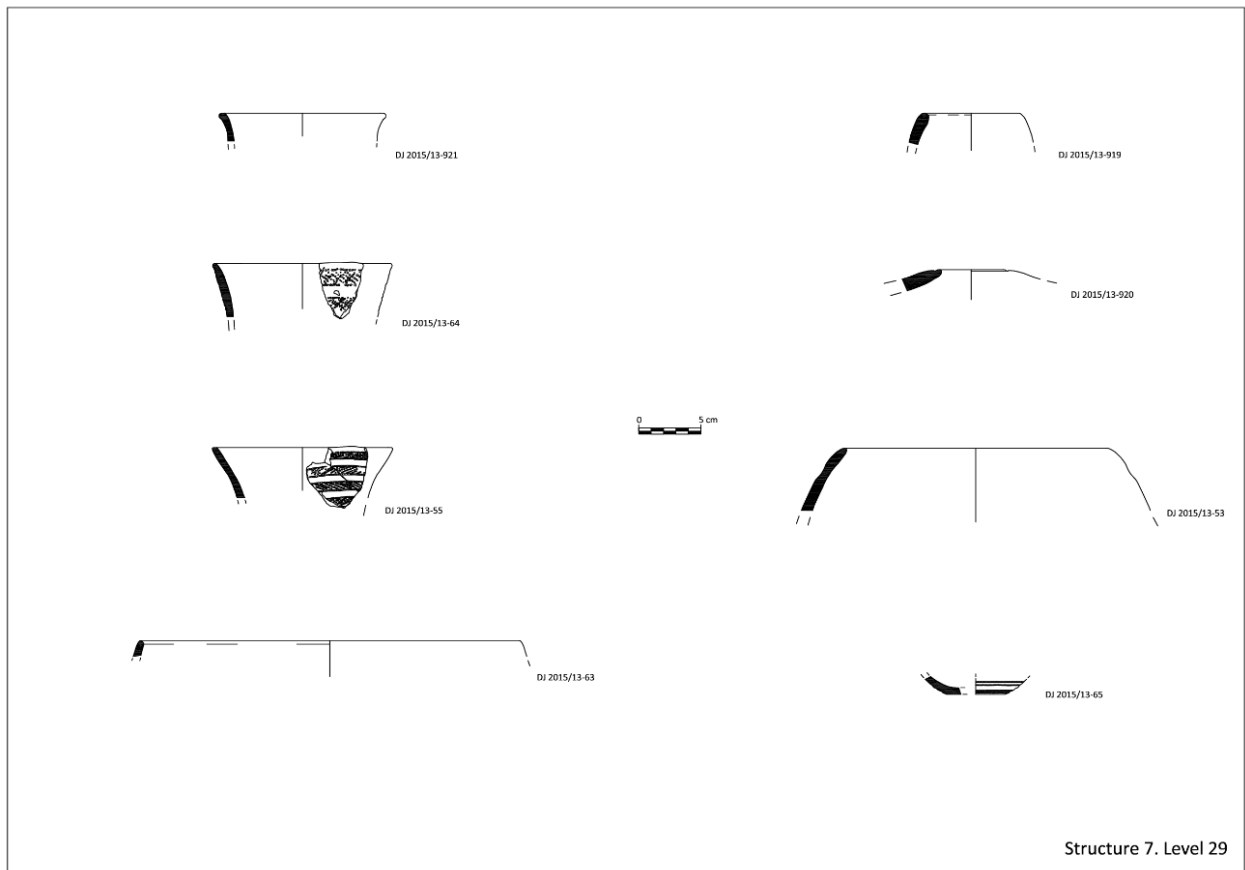
A.6.5 Structure 7

Level 29

	NF	%	Weight	%
Shapeless	64	83.11	1069.17	89.29
Form	13	16.88	128.17	10.70
Total	77	100	1197.34	100

Table A.6.11.





DJ2015/13-55. Structure 7. Level 29.



DJ2015/13-56. Structure 7. Level 29.



DJ2015/13-57. Structure 7. Level 29.



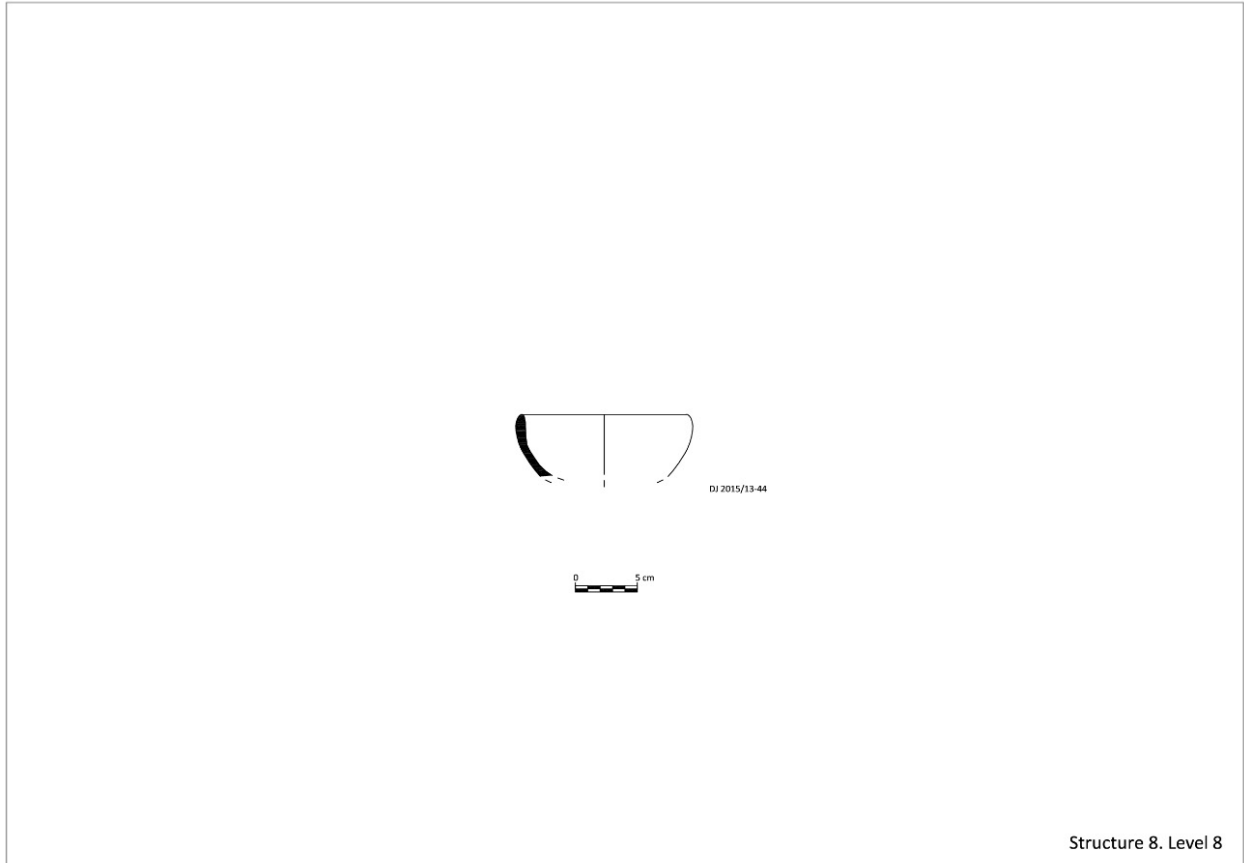
DJ2015/13-59. Structure 7. Level 29.



DJ2015/13-64. Structure 7. Level 29.

A.6.6 Structure 8

Form 44 is a small hemispherical bowl with a simple rim and a slightly inwards and rounded lip. It is 13cm in diameter and shows reducing firing and medium temper.



A.6.7 Structure 9

Level 18

	NF	%	Weight (g)	%
Shapeless	89	89.89	1678	78.37
Form	10	10.10	463	21.62
Total	99	100	2141	100

Table A.6.12

Level 37

	NF	%	Weight (g)	%
Shapeless	65	83.33	1329.69	76.98
Form	13	16.66	397.56	23.01
Total	78	100	1727.25	100

Table A.6.13.

Level 54

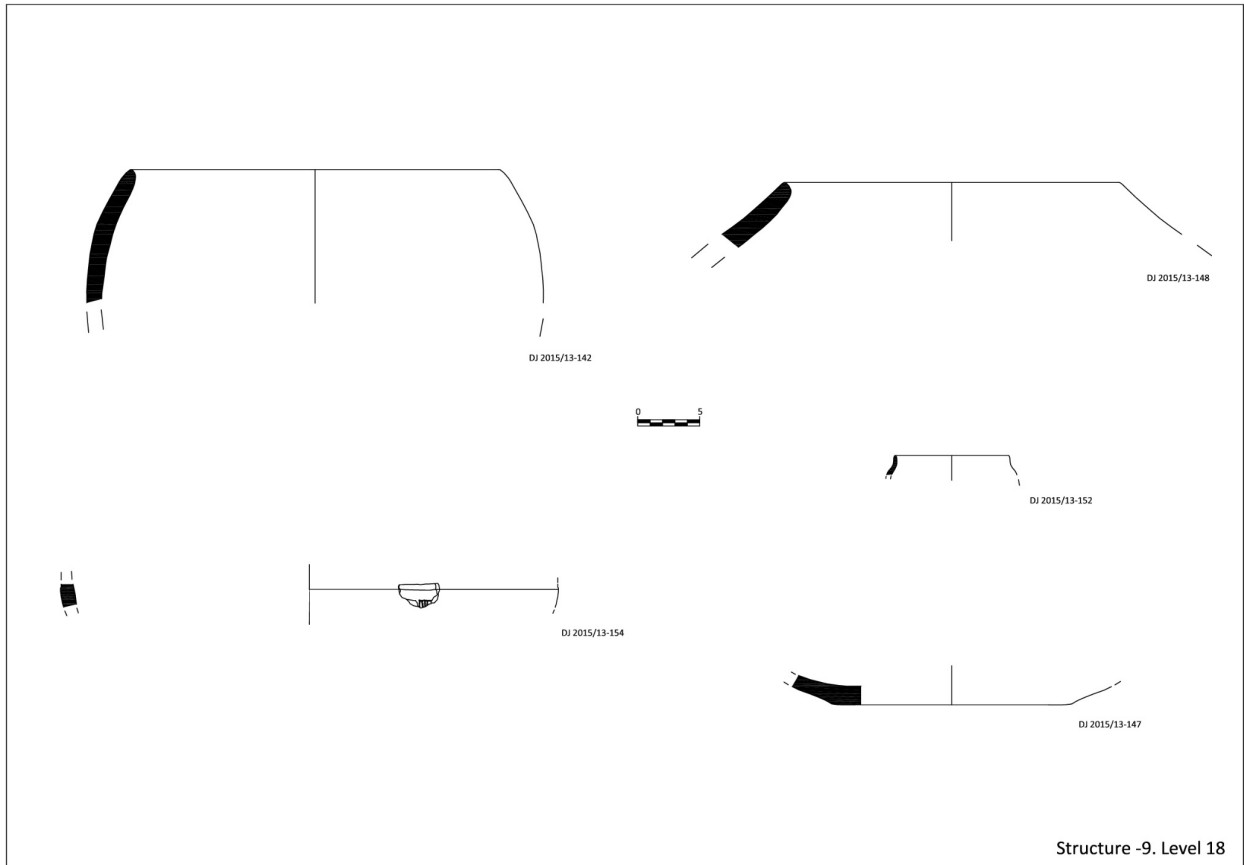
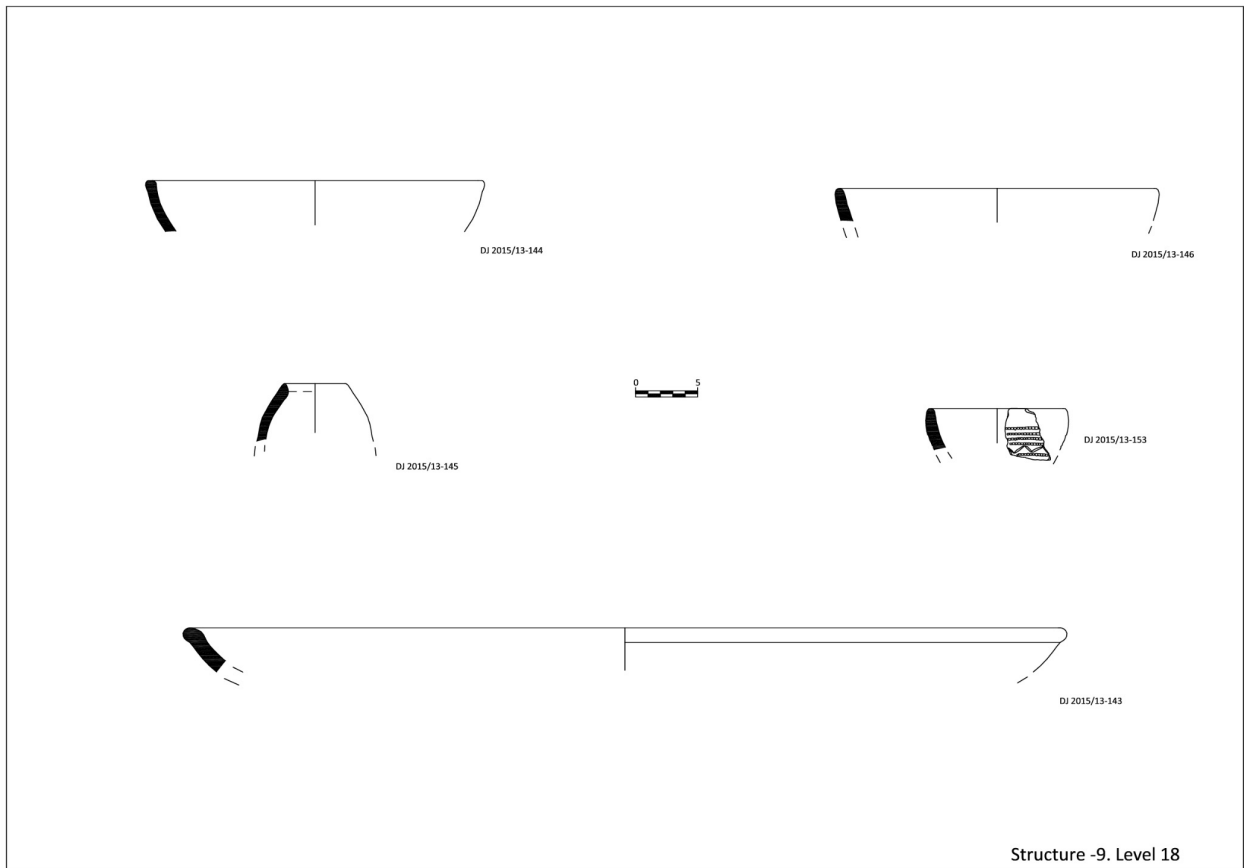
	NF	%	Weight (g)	%
Shapeless	25	83.33	419	86.07
Form	5	16.66	67.8	13.92
Total	30	100	486.8	100

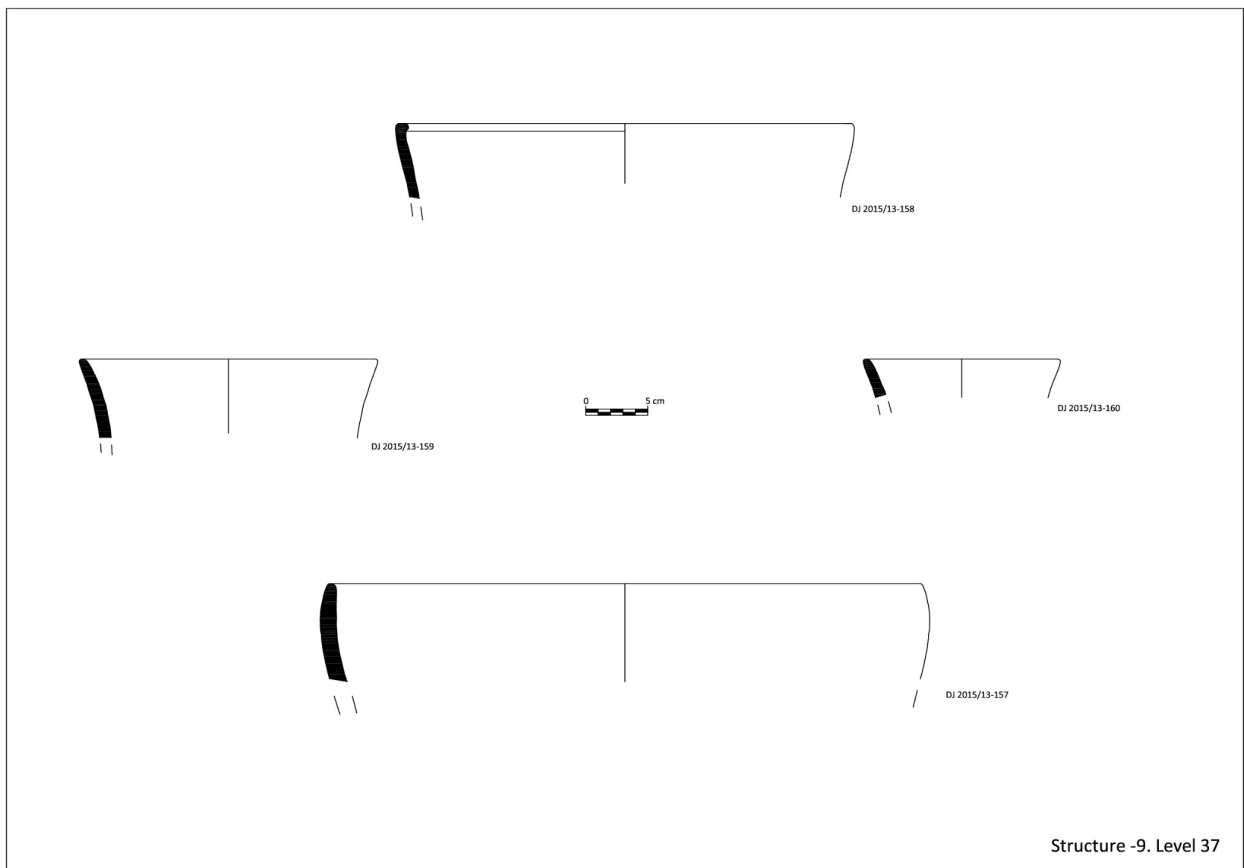
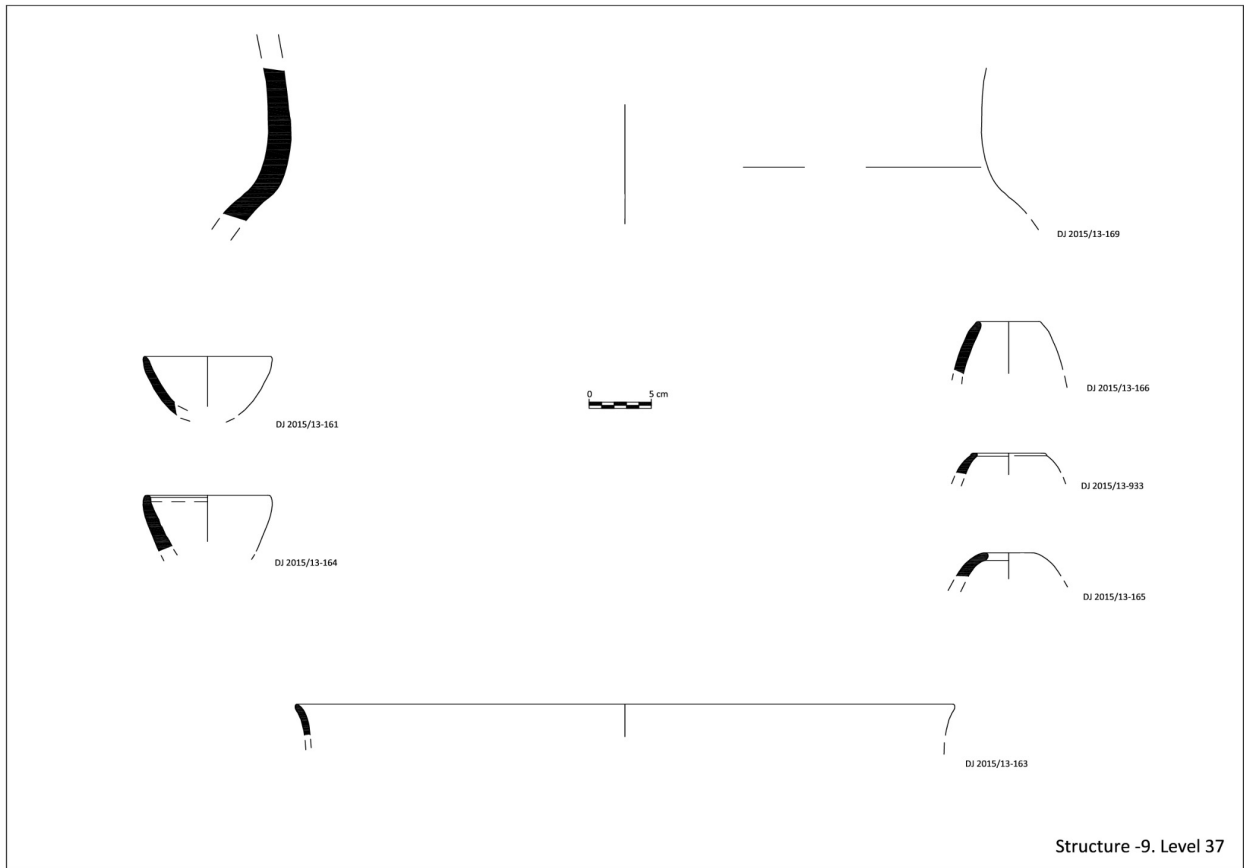
Table A.6.14

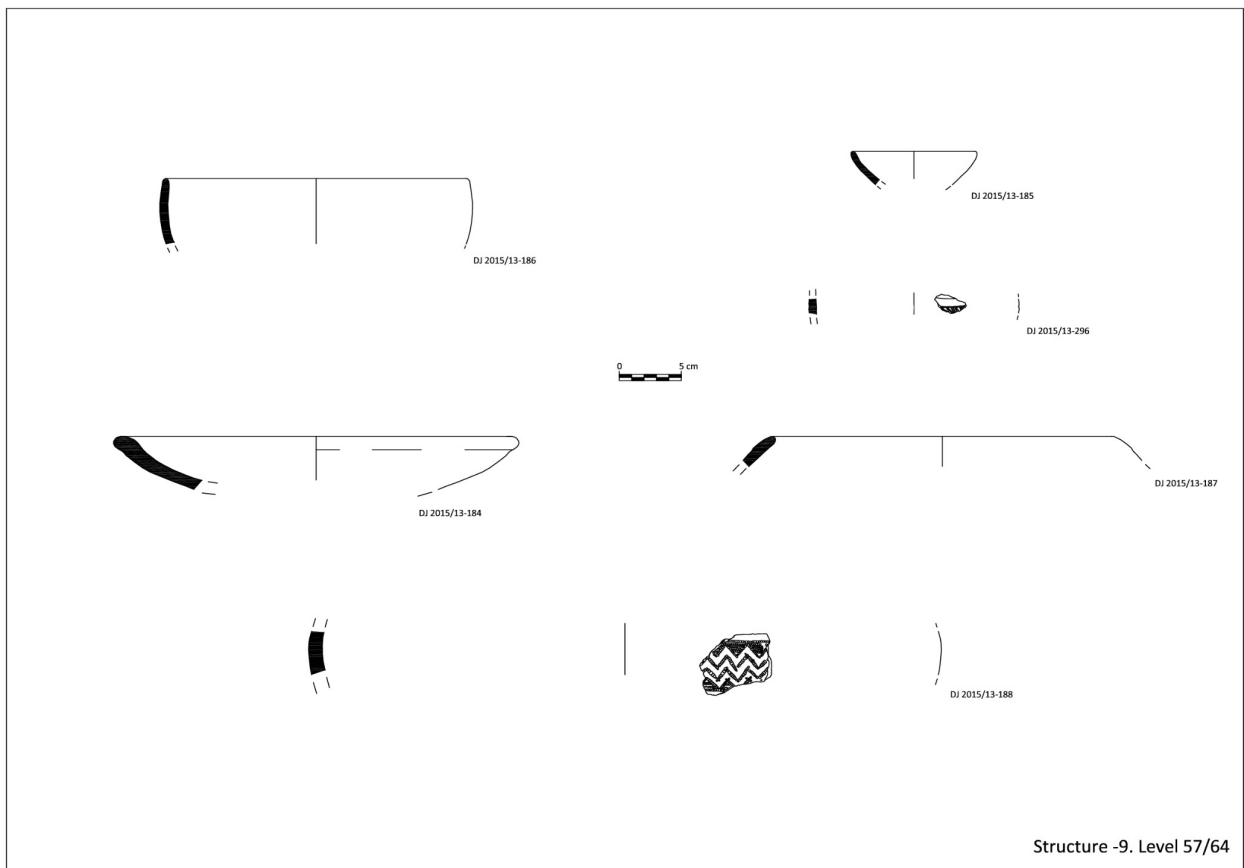
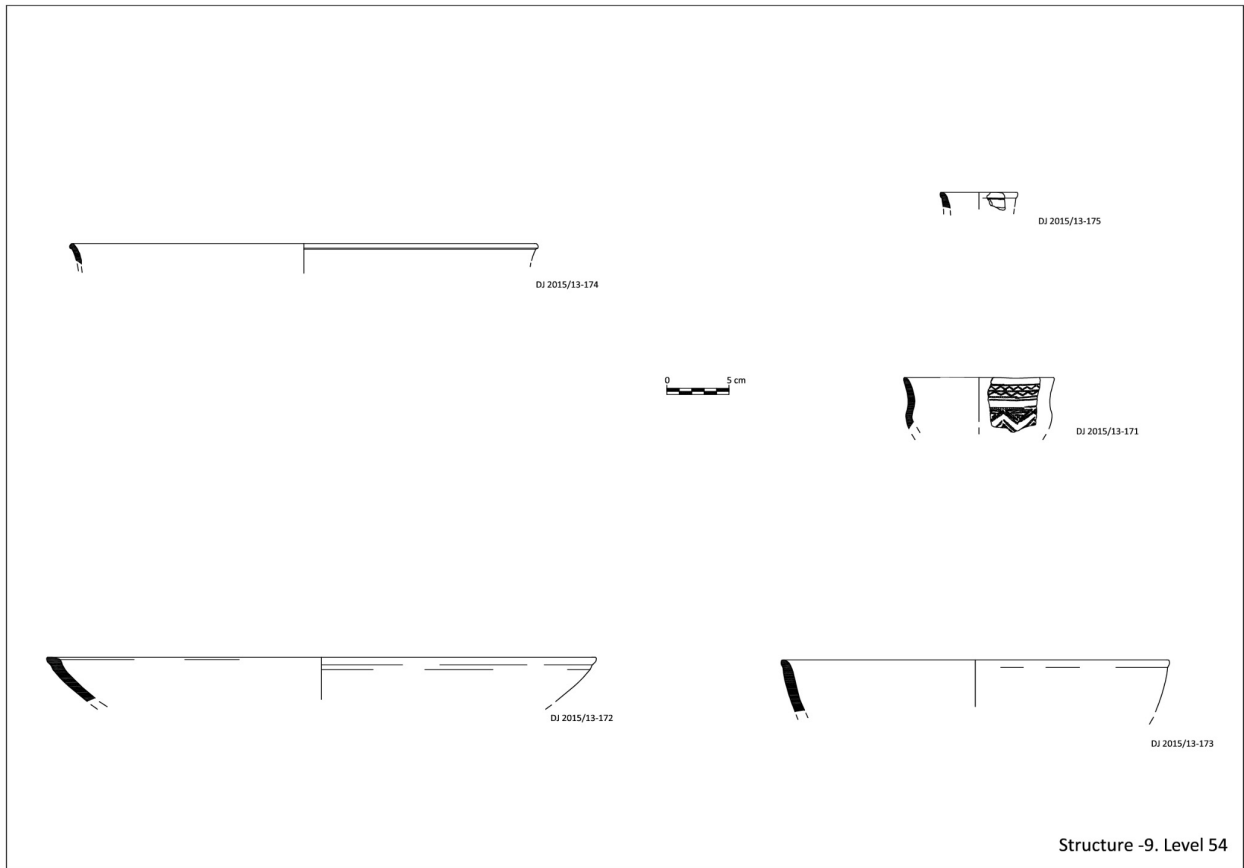
Level 57/64

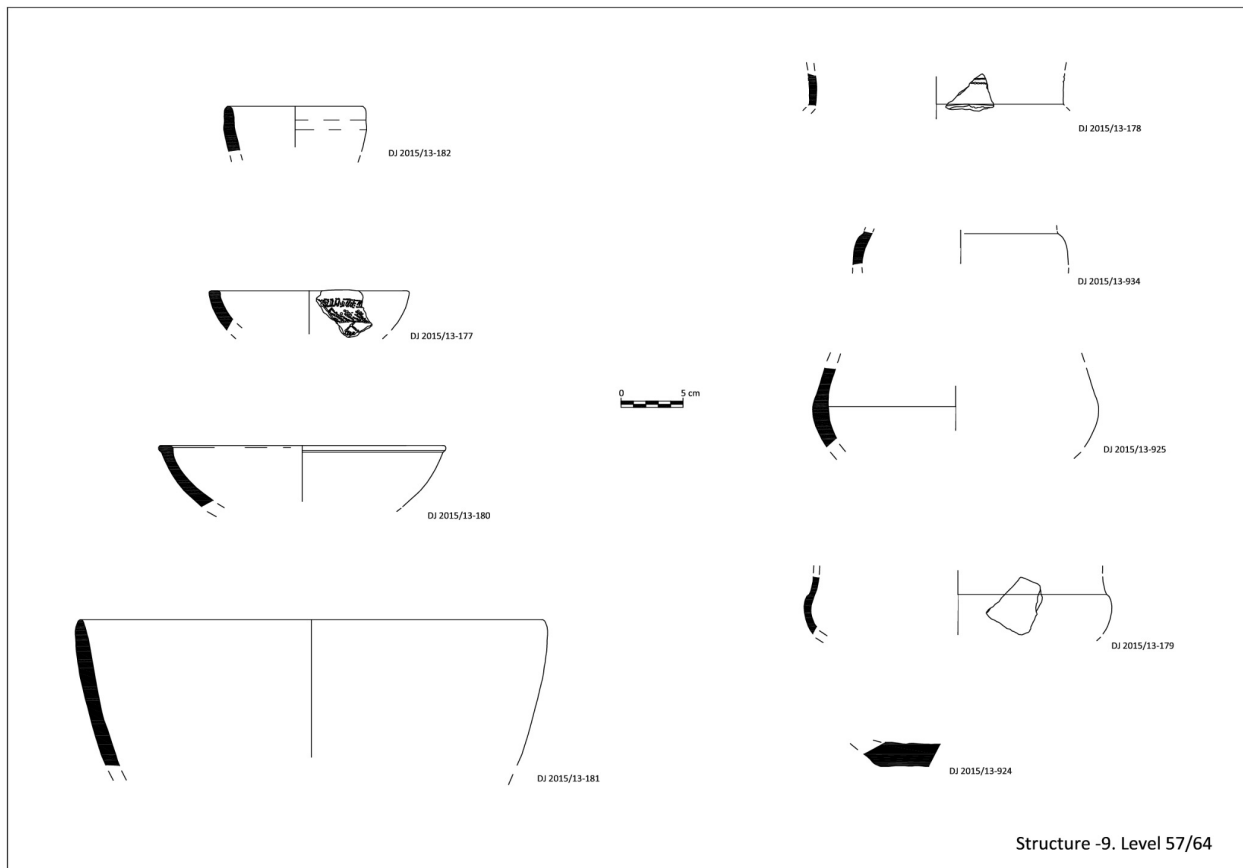
	NF	%	Weight (g)	%
Shapeless	48	65.75	908	60.41
Form	25	34.24	594.93	39.58
Total	73	100	1502.93	100

Table A.6.15.









DJ2015/13-153. Structure 9. Level 18.



DJ2015/13-156. Structure 9. Level 37.



DJ2015/13-171. Structure 9. Level 54.



DJ2015/13-177. Structure 9. Level 57/64.



DJ2015/13-188. Structure 9. Level 57/64.

A.6.8 Structure 11

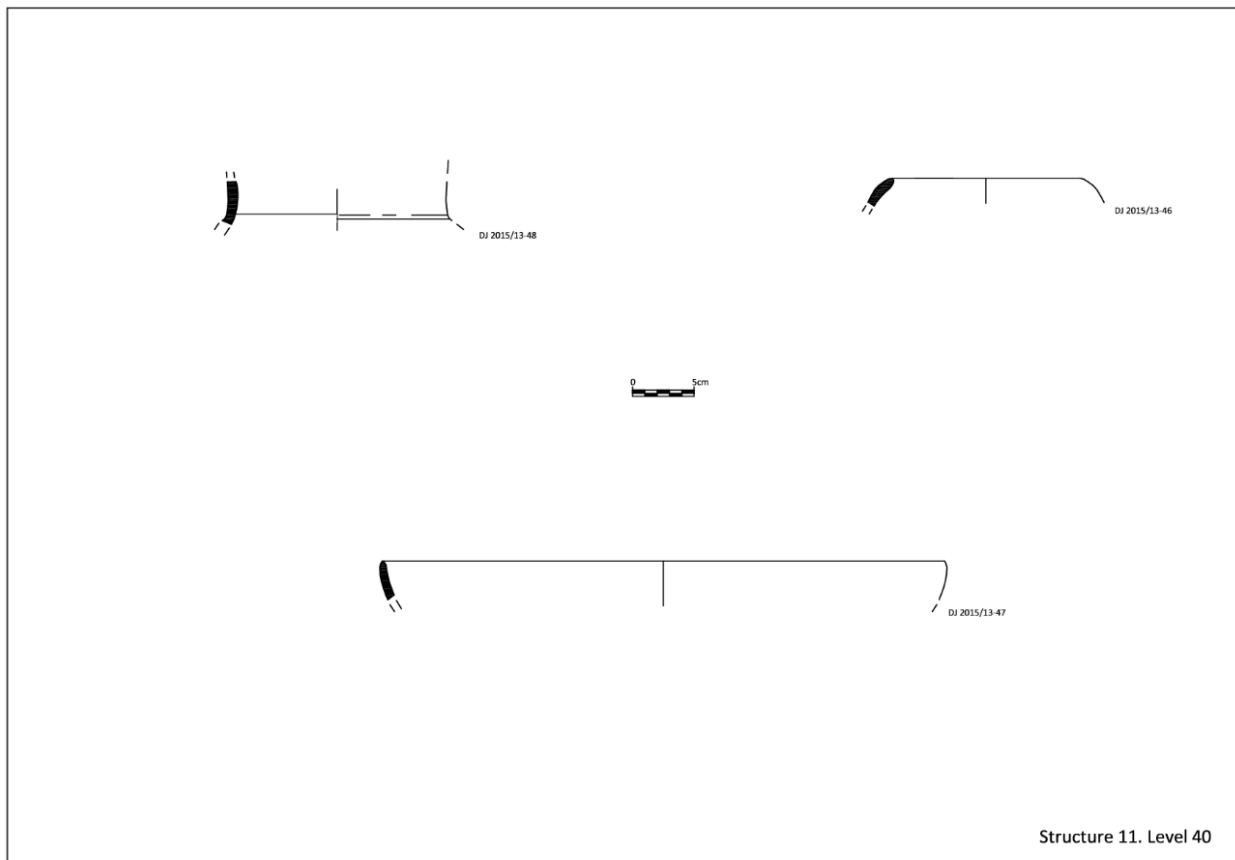
Level 40

	NF	%	Weight (g)	%
Shapeless	27	90	480.9	94.60
Form	3	10	27.45	5.39
Total	30	100	508.35	100

Table A.6.16

Level 47

From Level 47 only four amorphous sherds with a total weight of 173.2g, have been documented.

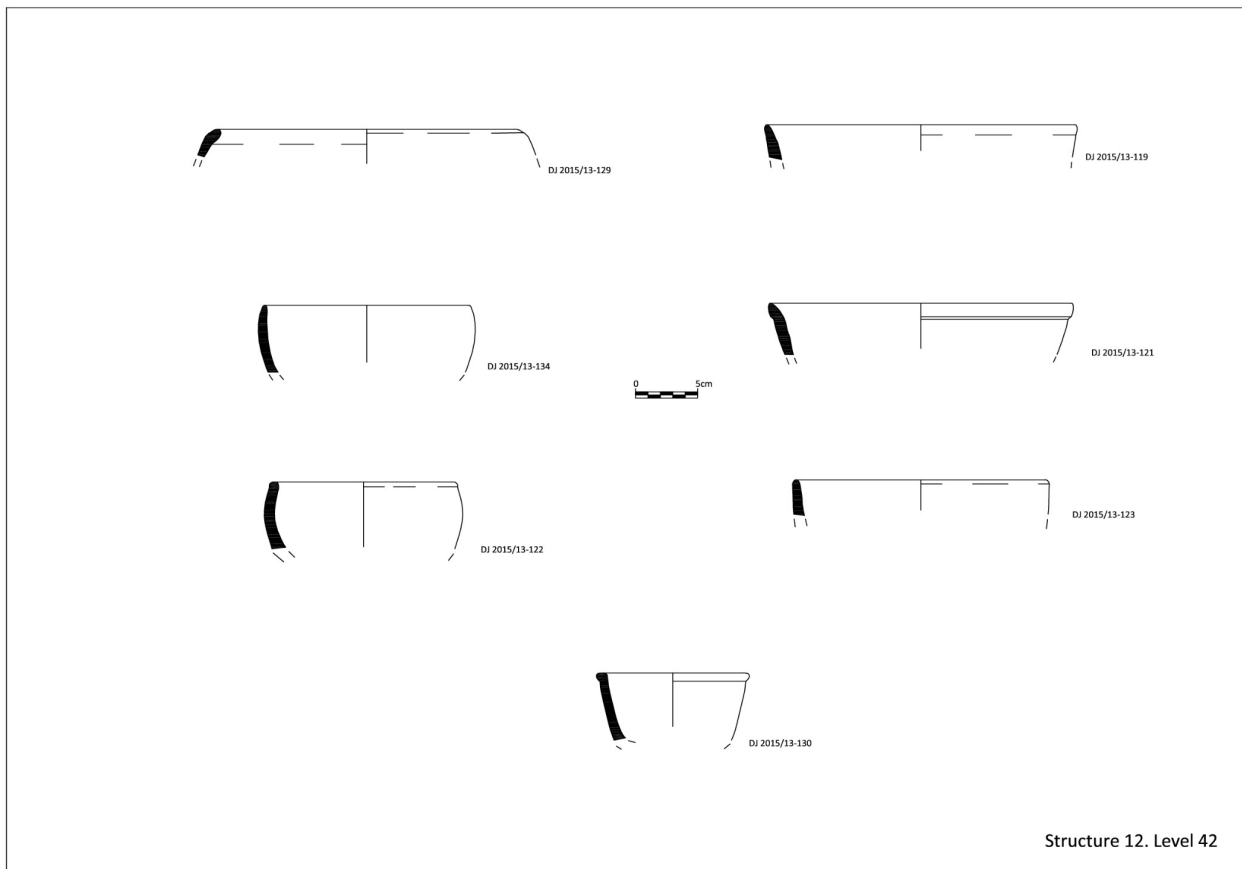


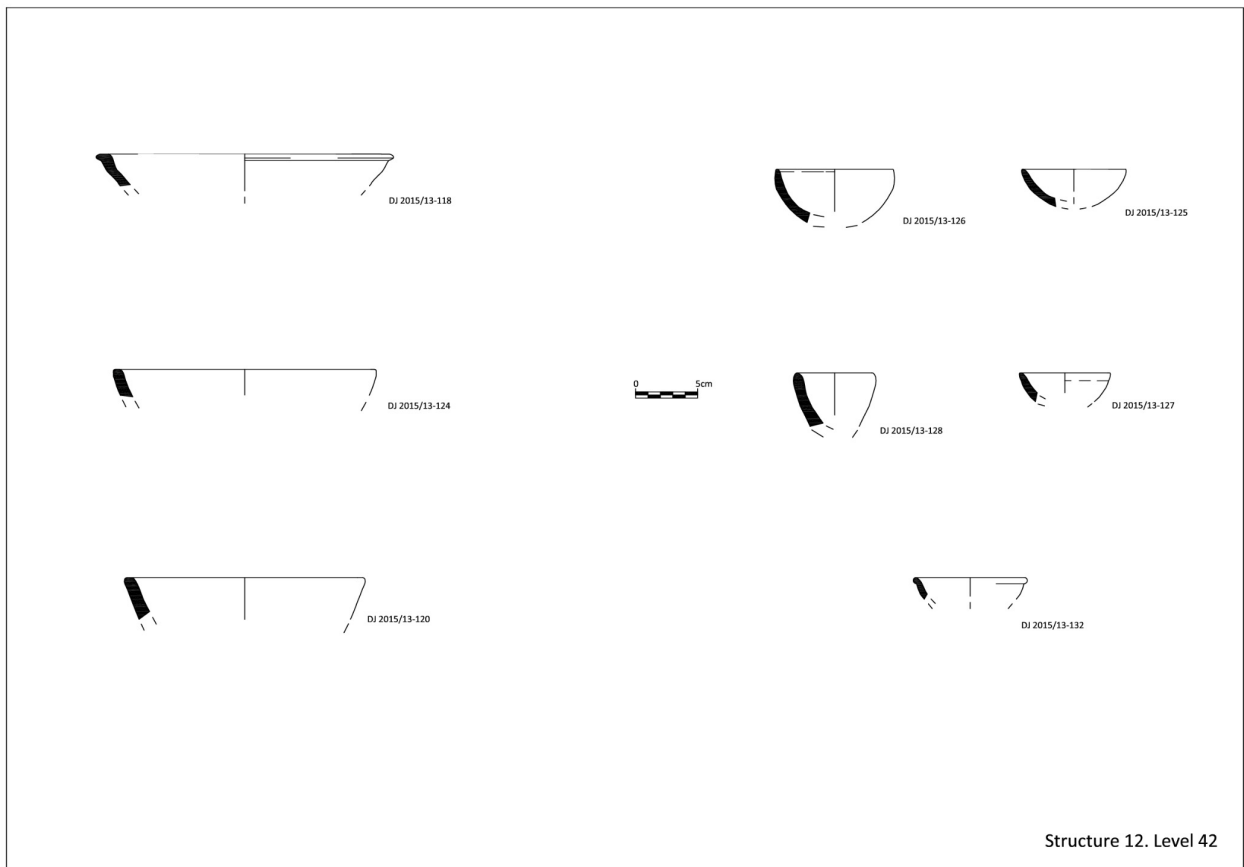
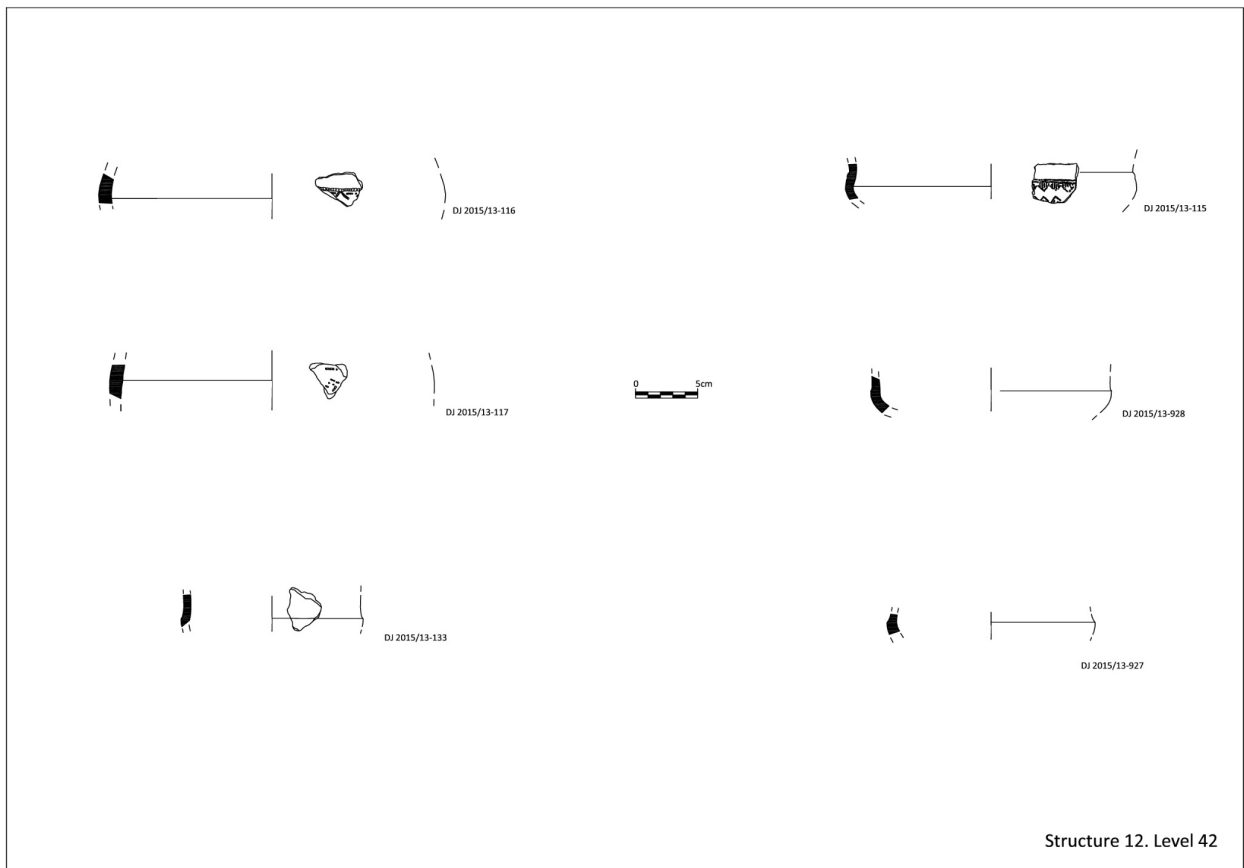
A.6.9 Structure 12

Level 42

	NF	%	Weight (g)	%
Shapeless	86	81.90	1772.97	85.11
Form	19	18.09	310	14.88
Total	105	100	2082.97	100

Table A.6.17







DJ2015/13-115. Structure 12. Level 42.

A.6.10 Structure 17

Level 26

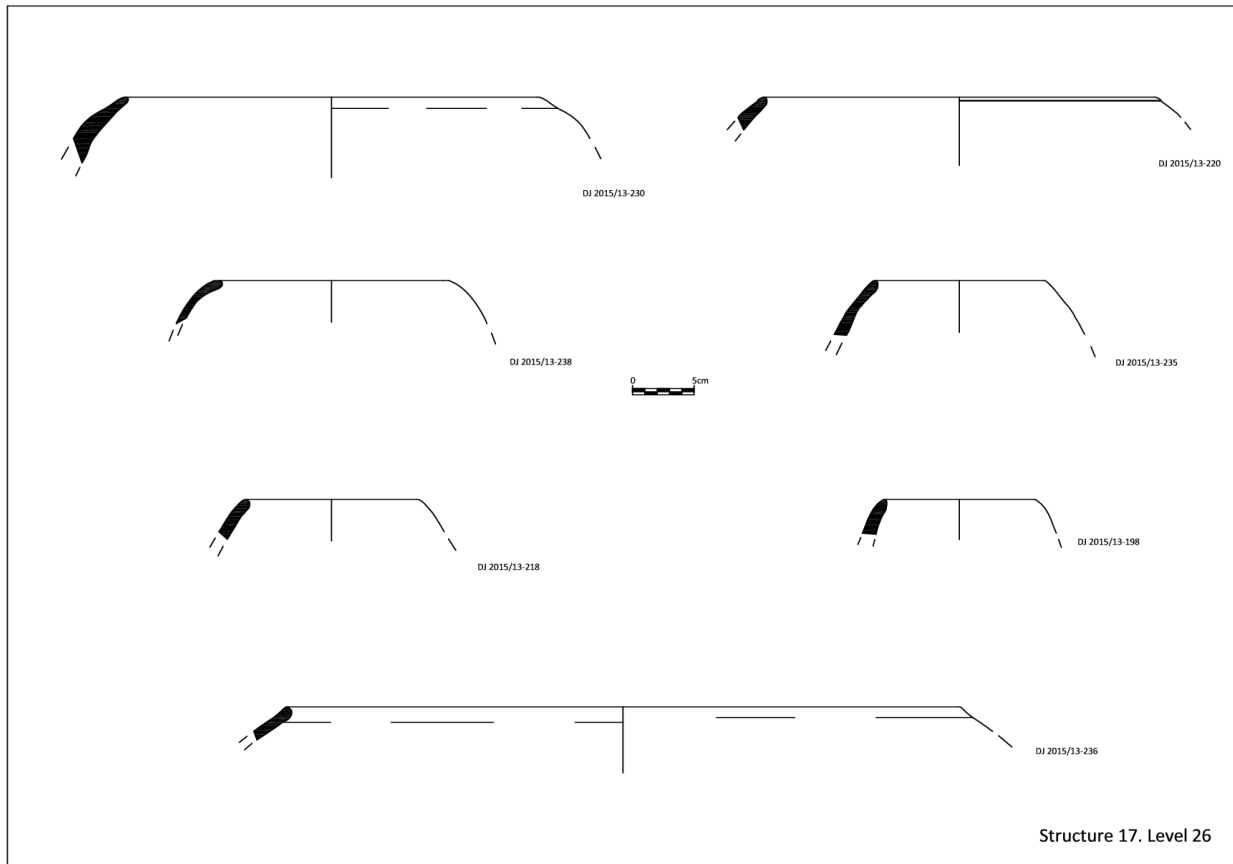
	NF	%	Weight (g)	%
Shapeless	211	73.51	3238	72.46
Form	76	26.48	1230.46	27.53
Total	287	100	4468.46	100

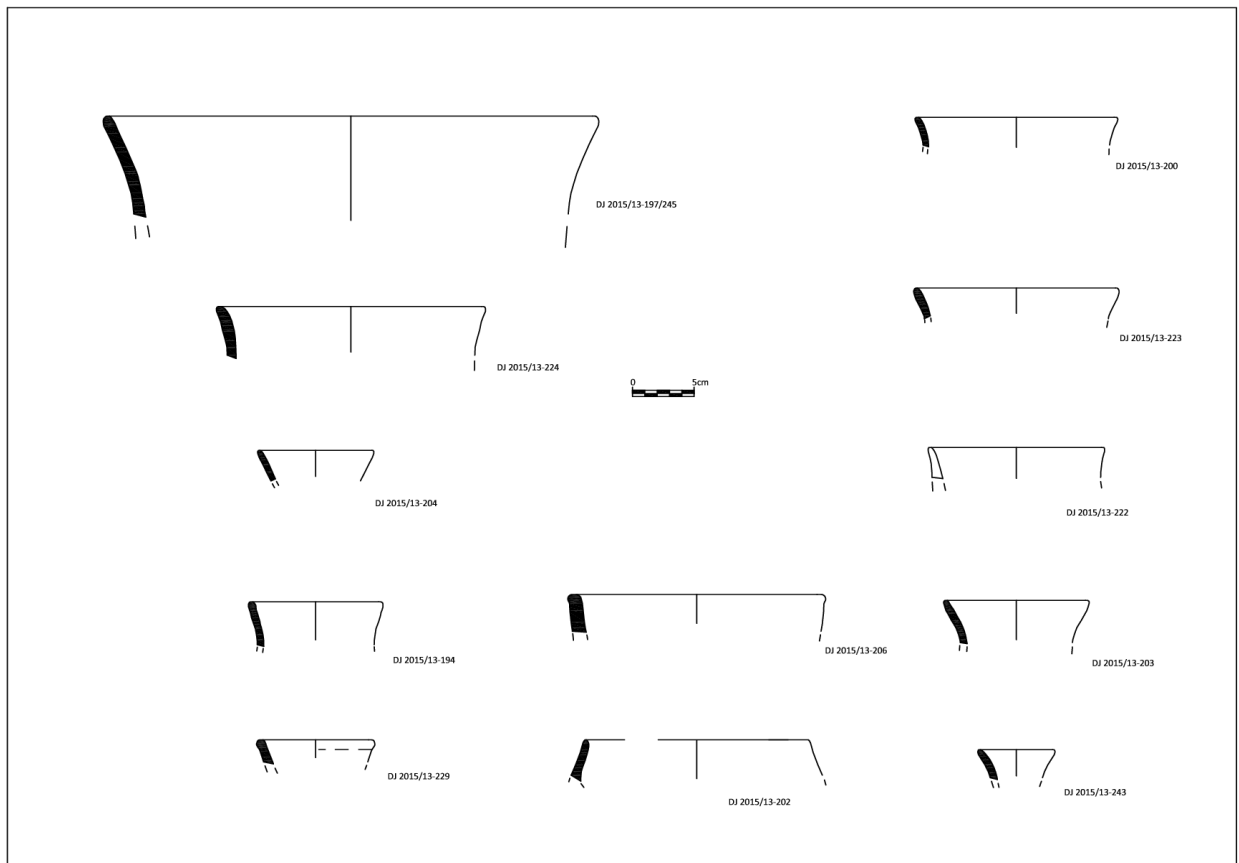
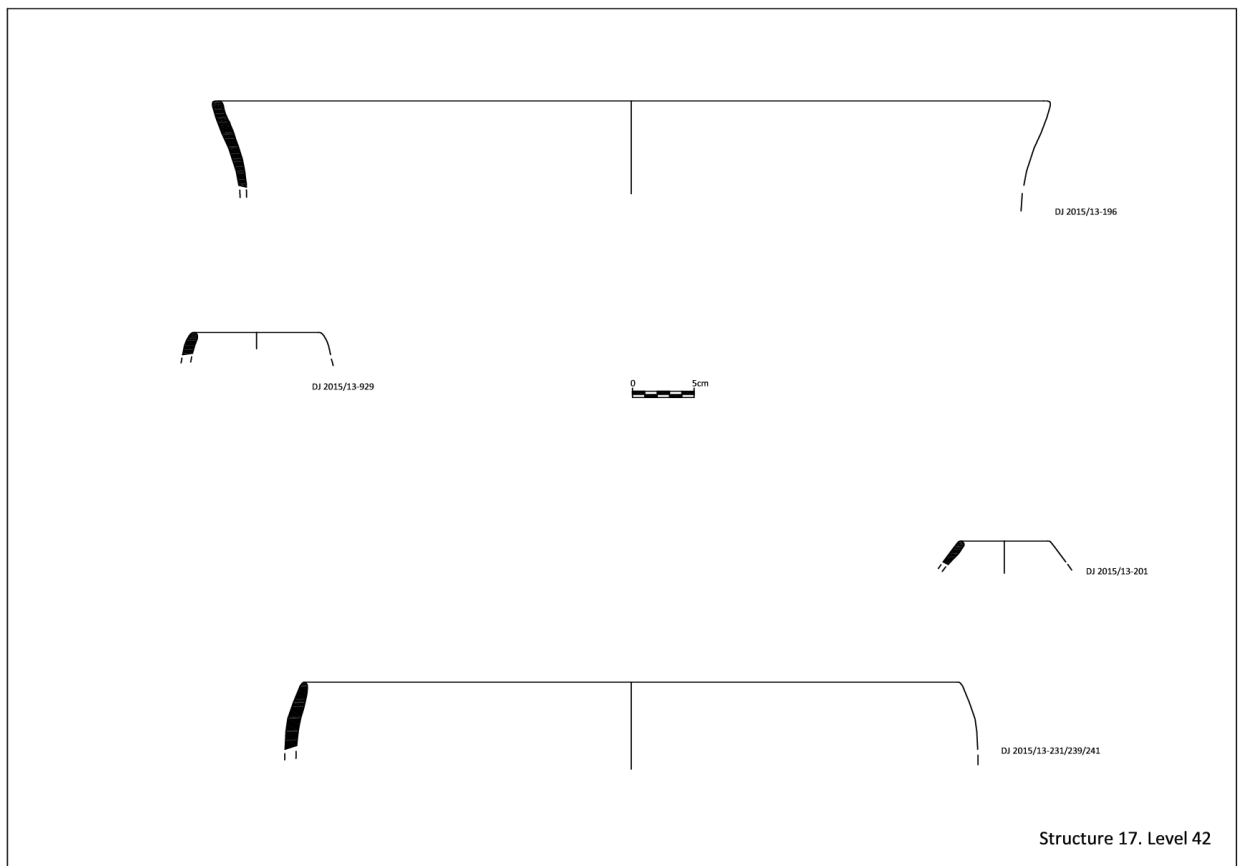
Table A.6.18

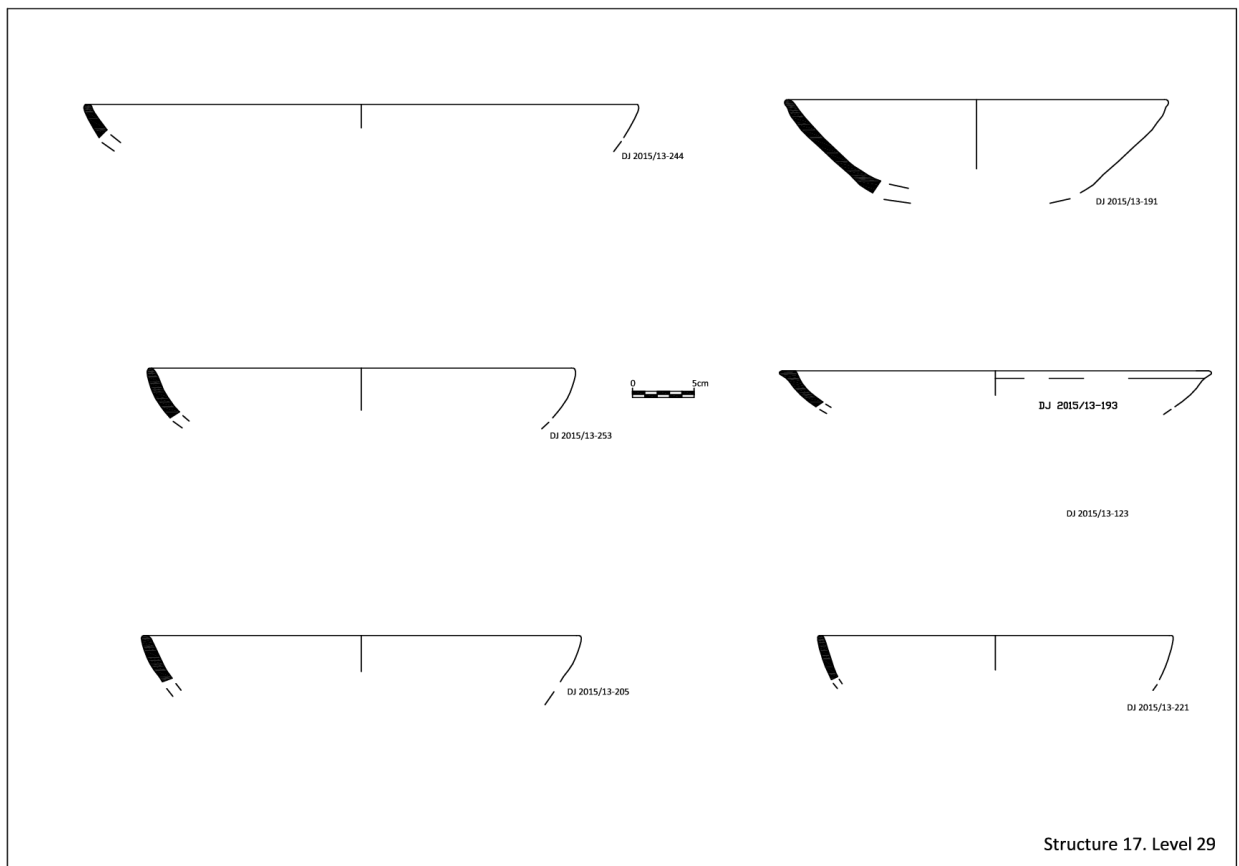
Level 49

	NF	%	Weight (g)	%
Shapeless	5		89	
Form	4		28	
Total	11	100	117	100

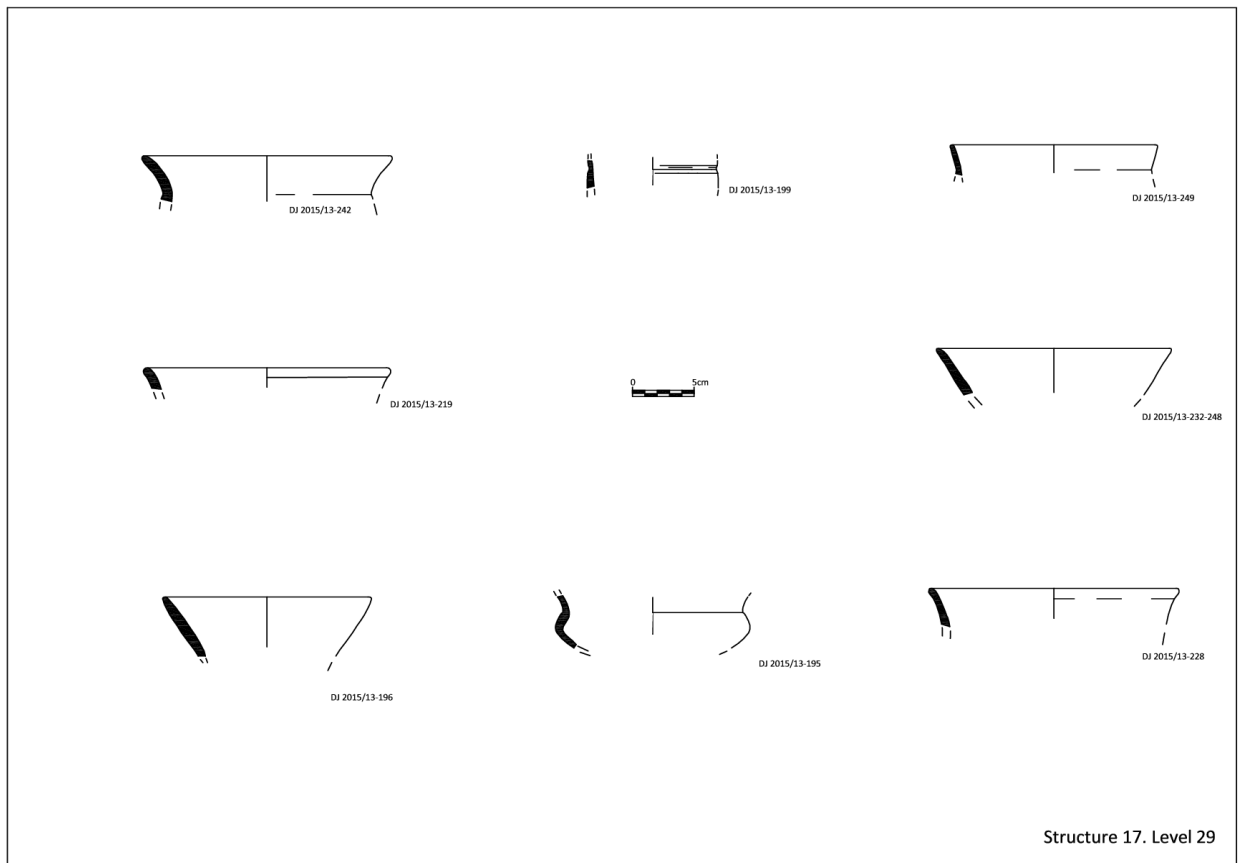
Table A.6.19



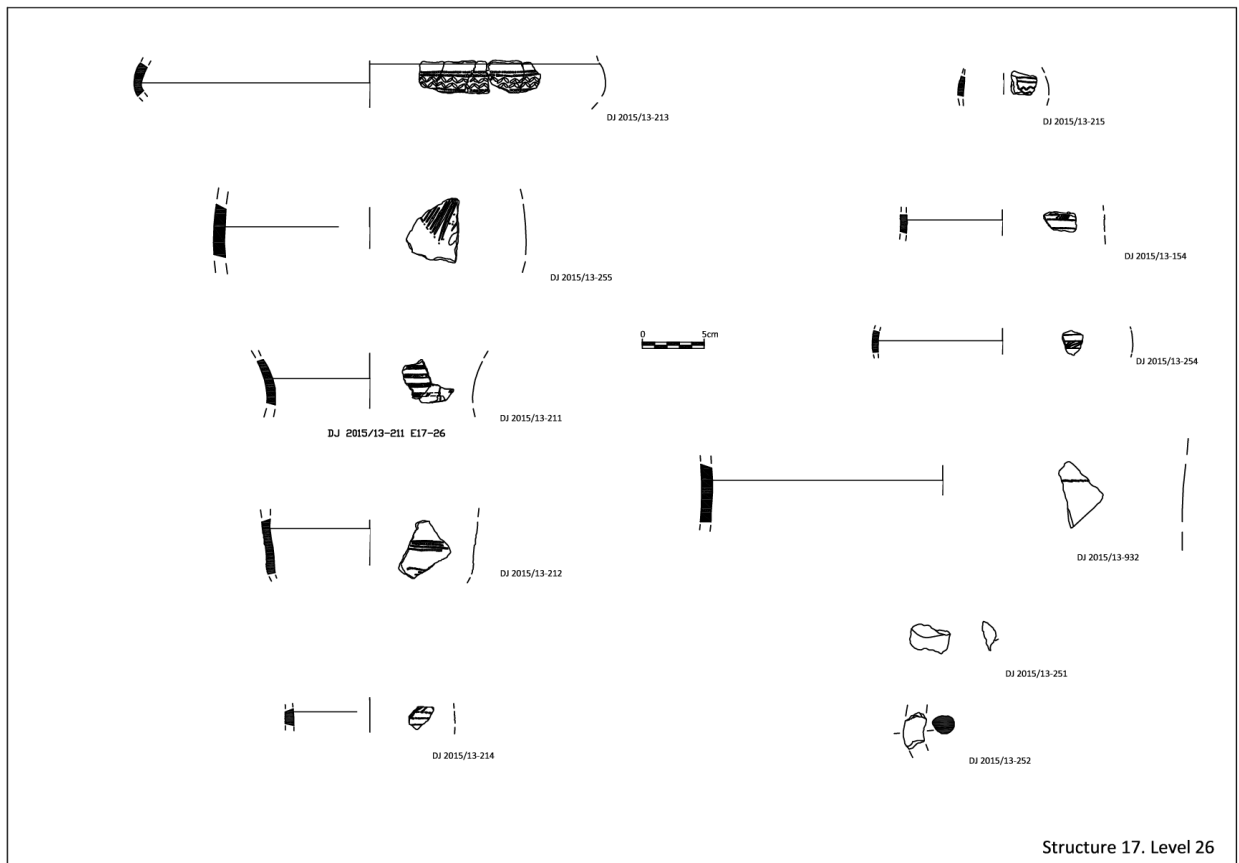
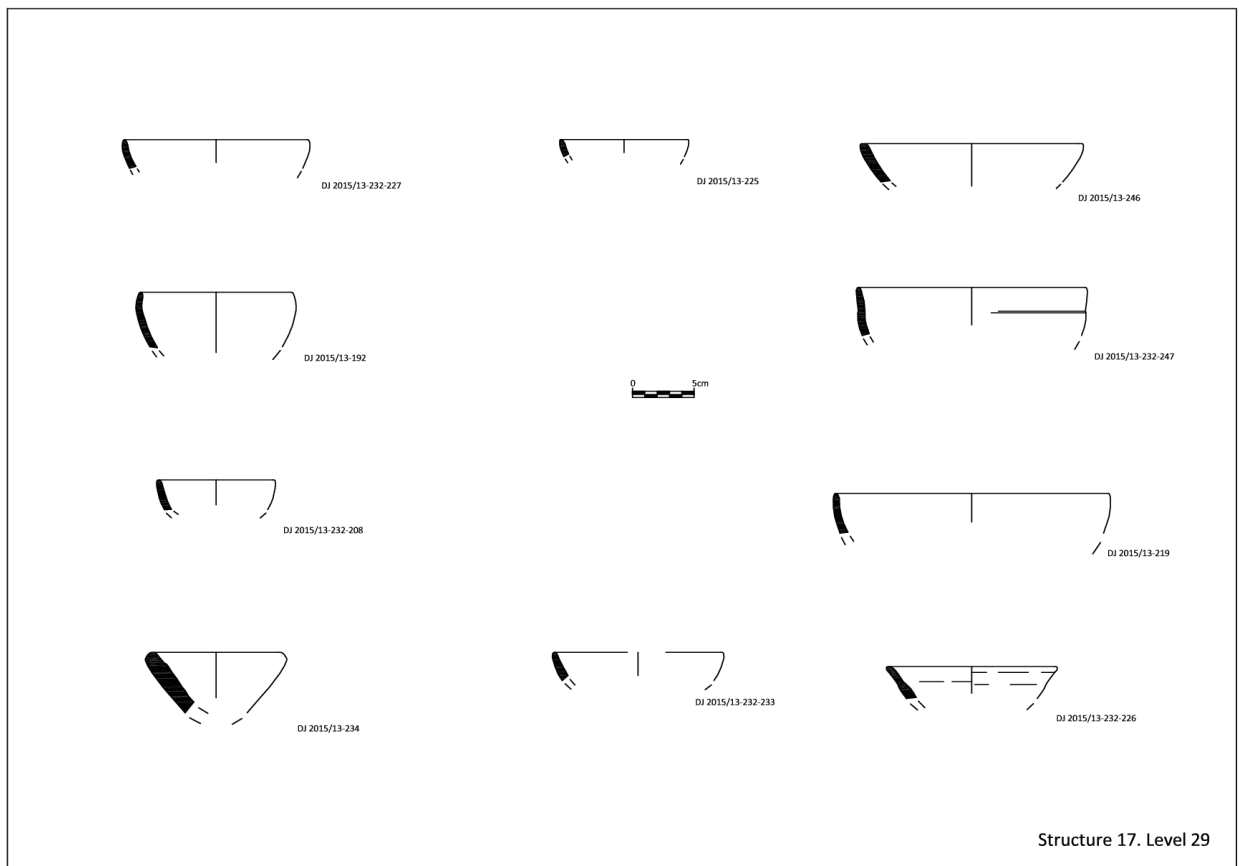


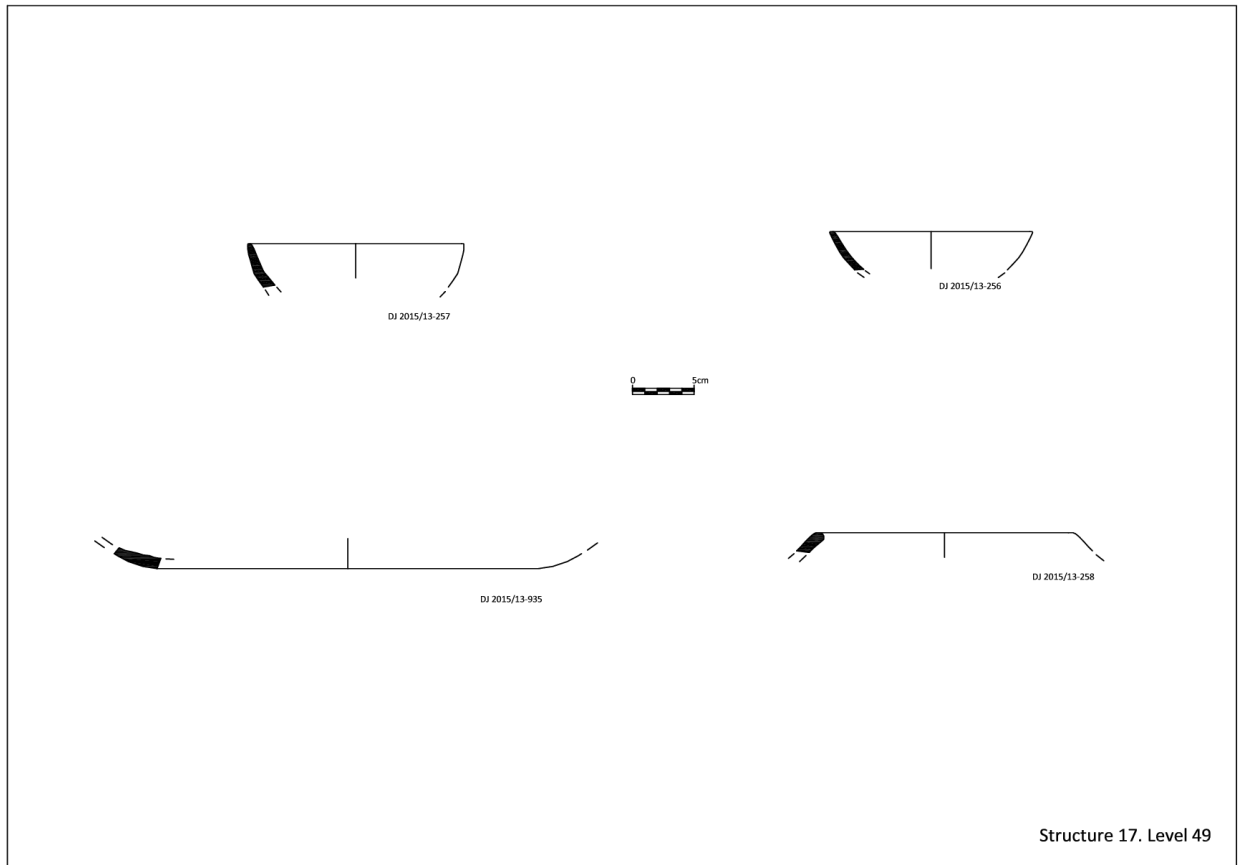


Structure 17. Level 29



Structure 17. Level 29





Structure 17. Level 49



DJ2015/13-207. Structure 17. Level 26.



DJ2015/13-208. Structure 17. Level 26.



DJ2015/13-211. Structure 17. Level 26.



DJ2015/13-213. Structure 17. Level 26.

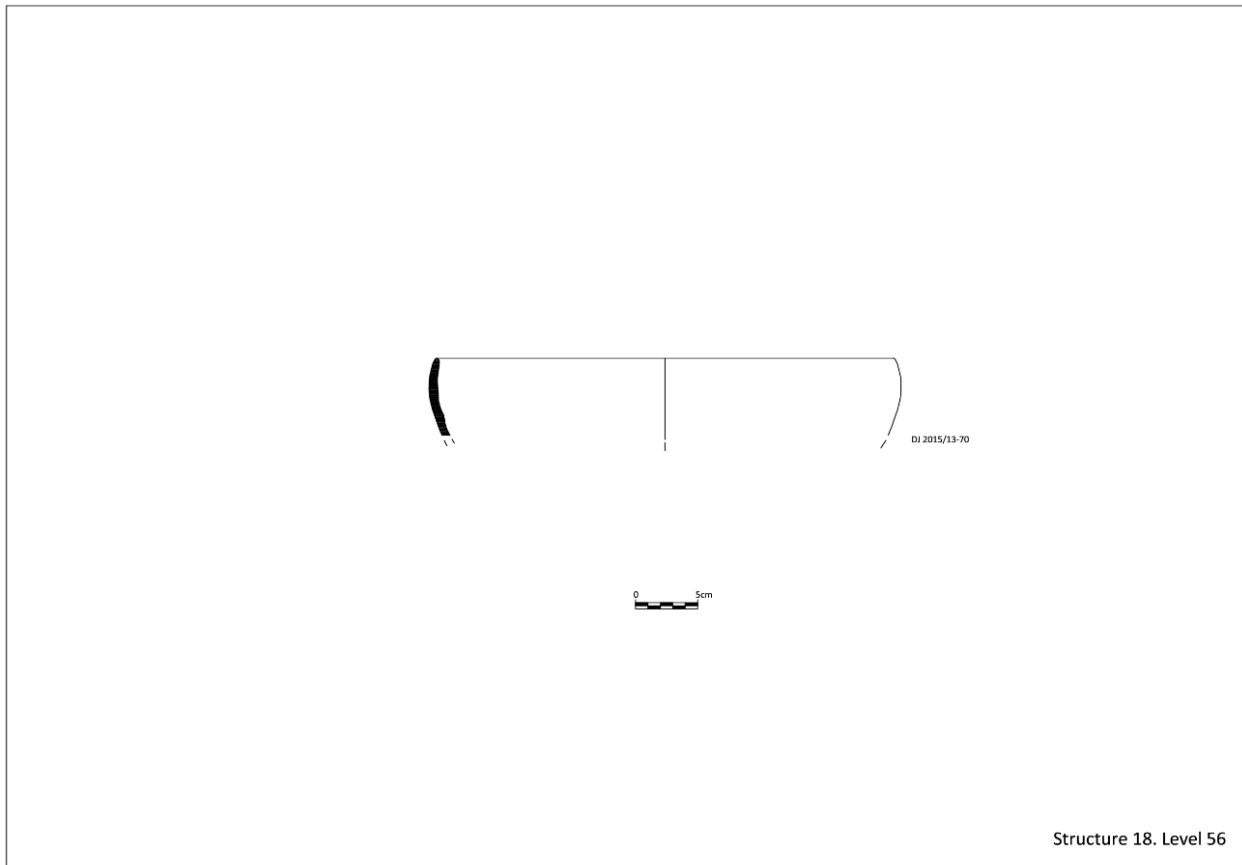


DJ2015/13-253. Structure 17. Level 26.

A.6.11 Structure 18

Level 56

Two sherds were recovered. Form 70 is a hemispherical bowl with a single inward rim and a rounded lip. It is 37cm in diameter and shows irregular firing and fine temper. Form 71 is a small bowl with a rounded lip, which shows mixed firing and fine temper. It has a smoothing treatment on both the internal and external surfaces. It is the only vessel that has been found complete.





DJ2015/13-71. Structure 18. Level 56.

Appendix 7: Comparative Analyses Intra- and Inter-Sites

A.7.1 La Loma del Real Tesoro II

Structure	Cattle	Caprines	Pig	Dog	Cat	Auroch	Horse	Red deer	Lago-morpha
1	7	3	6	-	-	-	2	-	2
2	5	3	3	-	-	-	-	1	1
3	2	5	6	2	-	-	-	-	5
4	8	9	19	3	1	-	2	-	16
7	-	1	4	-	-	-	-	2	-
8	-	-	-	-	-	1	-	-	-
9	11	6	15	11	-	1	-	2	3
11	-	3	-	-	-	-	-	-	-
12	2	5	2	-	-	-	-	2	-
17	35	24	25	2	-	3	-	10	5
18	-	-	-	-	-	1	1	-	-
Total NISP	68	60	81	18	1	8	5	17	35

Table A.7.1.a Comparative analysis of species by sites according to the NISP in LRT-II.

Structure	Cattle	Caprines	Pig	Dog	Cat	Auroch	Horse	Red deer	Lago-morpha
1	192.18	8.63	56.57	-	-	-	155.76	-	1.36
2	204.68	14.18	33.93	-	-	-	-	59.57	0.41
3	36.48	34.72	57.42	1.17	-	-	-	-	4.8
4	212.78	21.29	145.05	23.75	2.48	-	146	-	6.42
7	-	9.32	13.01	-	-	-	-	9.52	-
8	-	-	-	-	-	36.29	-	-	-
9	255.57	27.02	183.28	67	-	17.55	-	25.4	3.54
11	-	51.14	-	-	-	-	-	-	-
12	145.94	20.1	43.69	-	-	-	-	6.66	-
17	1348.2	107.63	356.16	2.39	-	141.42	-	191.78	0.86
18	-	-	-	-	-	866*	9.84	-	-
Total Weight	2334.54*	294.03	889.11	94.31	2.48	1117.21 (866*)	397.73	299.59	19.59

Table A.7.1.b Comparative analysis of species by sites according to the weight in LRT-II.

Structure	Cattle	Caprines	Pig	Dog	Cat	Auroch	Horse	Red deer	Lagomorpha
1-2-3-4	7	5	5	3	1	-	1	1	6
7	-	1	1	-	-	-	-	1	-
8			-	-	-	1	-		-
9	3	2	3	2	-	1	-	1	1
11	-	1	-	-	-	-	-		-
12	1	1	1	-	-	-	-	1	-
17	2	2	2	1	-	1	-	1	1
18	-	-	-	-	-	1	1	-	-
Total MNI	13	12	12	6	1	4	2	5	8

Table A.7.1.c. Comparative analysis of species by sites according to the MNI in LRT-II.

A.7.2 Carmona

Sector	Cattle	Sheep	Caprines	Goat	Pig	Reference
Dolores Quintanilla E6 and E3	339	31	321	7	240	Moreno García 1999
Ronda de los Ceniceros	26		10		12	this work
Total NISP	365	369	252			

Table A.7.2.a Comparative analysis of species by sites according to the NISP in Carmona.

Sector	Cattle	Sheep	Caprines	Goat	Pig	Reference
Dolores Quintanilla E6 and E3	8064	789	1965	51	2070	Moreno García 1999
Ronda de los Ceniceros	442,19		23,59		19,51	this work
Total weight	8506,19	2828,59	2089,51			

Table A.7.2.b Comparative analysis of species by sites according to the weight in Carmona.

Sector	Cattle	Sheep	Caprines	Goat	Pig	Reference
Dolores Quintanilla E6 and E3	10	5	19	3	13	Moreno García 1999
Ronda de los Ceniceros	4		3		3	this work
Total MNI	14	30	16			

Table A.7.2.c Comparative analysis of species by sites according to the MNI in Carmona.

A.7.3 Valencina-Castilleja

Sector	Cattle	Sheep	Caprines	Goat	Pig	Auroch	Red deer	Horse	Reference
La Perrera	2480	1007	4591	84	6368	13	220	83	Hain 1982
Cerro de la Cabeza	3754	669	3492	272	3587	22	273	92	Hain 1982
La Gallega	253	-	532	-	578	-	27	34	Bernaldez Sánchez et al. 2013
Mariana Pineda	173	33	262	12	376	1	14	1	Pajuelo Pando/ López Aldana 2013
Sector IV-PP Matarrubilla	193	-	85	-	230		18		Abril López 2013
Sector V-IES	313	-	573	-	1366		27	8	Abril López 2013
Avda Andalucía 9	55	-	69	-	107	-	16	7	Sardá Piñero 2013
PP4-Montelirio*	51	2	31		10	2	2	1	Liesau et al. 2014
Tholos de Montelirio	1		5		1				Pajuelo Pando 2016
Pabellón Cubierto	103	2	200	-	330		8		this work
Total NISP	7376	1713	9840	368	12953	38	605	226	

Table A.7.3.a Comparative analysis of species by sectors according to the MNI in Valencina-Castilleja.

Sector	Cattle	Sheep	Caprines	Goat	Pig	Auroch	Red deer	Horse	Reference
La Perrera	68195	15176	31336	1031	66226	3124	5420	3833	Hain 1982
Cerro de la Cabeza	124028	9722	22972	2720	37047	3894	4855	5560	Hain 1982
La Gallega	7303		2752.40		3869.80	-	429	620	Bernaldez Sánchez et al. 2013
Mariana Pineda	7339	575	3219	115	4984	281	1111	9	Pajuelo Pando/ López Aldana 2013
Sector IV-PP Matarrubilla	5645		1716		3422	-	606.5 (159.5)***	-	Abril López 2013
Sector V-IES	8264		4342		12188	-	535 (260)***	192	Abril López 2013
Avda Andalucía 9*	-	-	-	-	-	-	-	-	Sardá Piñero 2013
PP4-Montelirio**	1266		192		86	723	20	55	Liesau et al. 2014
Tholos de Montelirio	62		19		2	-	-	-	Pajuelo Pando 2016
Pabellón Cubierto	1855.65		1089.66		2167.36	-	77	-	this work
TOTAL	223,957.65		96,977.06		129,992.16	8022	13053.5	10269	

Key to table: *weight is not reported in the publication, **non-funerary contexts, ***weight of antlers.

Table A.7.3.b Comparative analysis of species by sites according to the weight in Valencina-Castilleja.

Sector	Cattle	Sheep	Caprines	Goat	Pig	Auroch	Red deer	Horse	Reference
La Perrera	87	114	205	29	194	13	27	16	Hain 1982
Cerro de la Cabeza									Hain 1982
La Gallega	12		28		22	-	2	-	Bernaldez Sánchez et al. 2013
Mariana Pineda	10	10	18	5	20	1	5	1	Pajuelo Pando/ López Aldana 2013
Sector IV-PP Matarrubilla	4	4	6	1	13	-	3	-	Abril López 2013
Sector V-IES	5		11		38	-	1	1	Abril López 2013
Avda Andalucía 9	4		3		6	-	1	1	Sardá Piñero 2013
PP4-Montelirio*	7	2	6	-	3	2	1	1	Liesau et al. 2014
Tholos de Montelirio	1	-	4	-	1	-	-	-	Pajuelo Pando 2016
Pabellón Cubierto	8		18		14	-	4	-	this work
Total	138		464		311	16	44	20	

Key to table: *non-funerary contexts

Table A.7.3.c Comparative analysis of species by sectors s according to the MNI in Valencina-Castilleja.

A.7.4 El Amarguillo II

	Cattle	Caprines	Pig	Reference
NISP	207	213	366	Bernáldez Sánchez 2009
Weight	7165	1813	5081	
MNI	3	4	4	

Table A.7.4 Results of the zooarchaeological analyses from El Amarguillo II.