

**Listriodontinae (Suidae,
Mammalia), their
evolution, systematics
and distribution in time
and space.**

J. van der Made

Tables 6-19.

**Contributions to Tertiary
and Quaternary Geology,
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PIMUZ BP-86	r	19.1	12.7	12.2		
Villefranche d'Astarac						
MNHNP VAS 32	?	>21.1	14.6	17.1		
MNHNP VAS 33	..	—	—	—		
Paracuellos III						
MNPN PA 1621	r	15.9	12.4	12.5	50	65
Manchones I						
IVAU MA I 111	1	18.3	16.0	14.6	50	70
Arroyo del Val IV						
IVAU AR IV 51	1	20.6	16.3	15.2	55	75
IVAU AR IV 53	r	20.7	16.0	16.7	50	70
IVAU AR IV 55	r	18.1	14.3	11.9	50	60 (tip)
IVAU AR IV 56	r	15.3	12.9	12.9	55	60 (tip)
IVAU AR IV 62	r	19.7	15.0	13.1	50	40-50 (tip)
RGM 262.974	r	21.8	18.7	19.0	55	75
RGM 263.060	1	—	—	—		
RGM 263.066	1	19.9	16.8	16.2	40	65
RGM 263.072	r	21.1	15.7	17.9	65	75
RGM 263.229	1	21.0	16.3	17.2		
MPZ AV-36	1	22.3	18.4	16.8		
Bonnefont						
MNHNP HCP 61	1	18.6	>16.0	—		
MNHNP HCP 62	r?	—	—	—		
MNHNP HCP 63	1	19.7	16.0	15.7		
MNHNP HCP 65	r	24.7	19.1	17.6		
MNHNP HCP 67	?	—	—	—		
Steinheim						
SMNS 20221	r	21.4	16.6	18.2		
Mauer						
NMW 1886XVII219	r	>22.6	24.6	22.1	—	105
La Grive oc						
UCBL —	r	21.9	17.7	18.0		
UCBL —	r	26.5	20.6	21.0		
MGL LGr 720	r	23.6	21.0	16.9	95	120
MGL LGr 723	r	23.2	18.5	17.6	80	105
MGL LGr 724	1	24.4	18.6	18.8	65	90
MGL LGr 725	1	25.5	17.9	20.9	90	100
MGL LGr 726	r	21.6	15.9	16.9	65	75
MGL LGr 727	r	>18.8	>17.1	13.5	70	85
MGL LGr 1402	r	27.4	26.6	22.3	110	135
La Chaume-de-Fonds						
MHNCF 56	r	24.5	17.6	18.6	80	50
MHNCF 56a	r	24.6	17.7	18.9		
MHNCF 56b	1	>24.2	16.8	+18.7	—	120
MHNCF 57	1	26.0	17.8	19.4	80	105
MHNCF 59	1	>22	—	—		
MHNCF 59a	r	19.6	—	—		
MHNCF 60	r	23.8	17.6	19.2		
MHNCF — 5 fragments						
Prittzbach						
BSPHGM 1953 I 73	r	22.3	18.7	17.6	75	90
Santiga						
IPS —	r	>22.6	>21.0	>21.8		
Cerro del Otero						
MNPN NM 18015	1	20.4	16.2	16.2	60	70
MNPN NM 18016	1	22.8	14.6	17.2		
Sant Quirze						
IPS VP 1036	1	26.3	26.2	20.5		
IPS 1112	r	27.0	25.0	21.8		
MGSCB 48571	1	28.6	25.8	20.9	85	110
MGSCB 48572	r	26.0	25.8	18.8	85	115
MGSCB 48573	r	26.1	19.3	<27.6		
MGSCB 48574	1	27.0	26.1	19.7	90	115
MGSCB 48575	r	26.3	24.2	19.9	75	105
MGSCB 48576	r	25.1	23.9	21.2	90	115
MGSCB 48577	?	tip				
Escanecrabe						
MNHNP HCP 21	r?	28.0	22.0	25.5	90	115
MNHNP HCP 22	1	26.4	24.1	20.6		
MNHNP HCP 23	1	21.8	18.2	17.7		
Massenhausen						
BSPHGM 1951 I 21	1	25.8	19.6	20.7	—	100
BSPHGM 1963 I 45	r	25.7	19.5	19.9	100	100
Mas del Olmo						
ITGE 73 (408M)	r	24.5	18.5	16.9		
Castell de Barberà						
IPS —	..	23.3	20.6	18.6		
Hostalets						
MGSCB 48515	r	26.5	23.4	17.5		
MGSCB 48516 tip	r	—	11.9	—		
MGSCB 48557	r	26.1	23.0	16.6		
MGSCB 48558	1	24.1	22.2	17.2		
IPS 1026	..	tip				
IPS 1028	r	25.7	26.3	21.7		
IPS 1030	..	29.1	28.6	21.8		
IPS 1031	1	22.5	22.9	20.9		
IPS 1034	r	20.1	22.4	17.2		
IPS 1035	r	26.1	24.4	17.1		
IPS 1037	..	tip				
IPS VP 307	r	28.7	26.4	22.0		
IPS —	..	>27.1	23.2	18.7		
CJFV 4226	1	25.6	26.8	21.1		
CJFV 4329	1	—	—	—		
CJFV —	1	—	22.3	—		
CJFV —	1	25.6	—	—		
CJFV —	1	21.9	25.1	15.8		
CJFV —	1	20.7	17.3	16.5		
CJFV —	r	26.5	22.0	19.2		
Wissberg						
HLD 1933/896	1	27.3	25.0	21.5		
HLD 1933/897	1	23.2	18.0	18.8		
Ce						
<u>Nguruwe kijivium</u>						
Songhor						
KNM-SO 9913	1	+6.7	4.4			
<u>Bunolistriodon aff. latidens</u>						
La Artesilla						
MPZ 6419	r	12.7	10.0			
Munébrega I						
IVAU 55/1053	1	11.1	8.8			
IVAU 55/1057	1	—	>8.2			
<u>Bunolistriodon M</u>						
Paçalar						
PDTFAU F351	1	12.9/12.0	8.2			
PDTFAU F370	r	>12.3	7.5			
PDTFAU G1746	r	12.8/11.4	7.1			
<u>Bunolistriodon lockharti</u>						
Pellecahus						
UCBL 32028	1	10.3/11.7	10.2			
Pontlevoy						
MNHNP FP 1028	1	14.6	12.7			
<u>Listriodon splendens</u>						
Paçalar						
PDTFAU						
PDTFAU F174	r	14.7	8.3			
PDTFAU F360	1	15.0/13.6	9.0			
PIMUZ BP-95	r	14.1/..	8.4			
PIMUZ BP-104cast 1?	r	11.2/..	9.1			
Arroyo del Val IV						
IVAU AR IV 54	1	12.1	9.2			
IVAU AR IV 127	1	—	—			
IVAU AR IV 437	1	12.6	9.5			
IVAU AR IV 438	r	14.0	9.8			
IVAU AR IV 439	1	14.1	10.3			
RGM 263.220	r	10.8	8.4			
RGM 263.023	r	>13.8	>10.8			
MPZ AV-46 (2)	1	12.0	8.7			
Arroyo del Val VI						
IVAU AR VI 44	r	13.4	9.8			
IVAU AR VI 86	1	12.1	9.1			
La Grive oc						
MGL LGr 733	1	13.1	8.4			
MGL LGr 1534	r	tip				
MGL LGr 1542	r	tip				
MGL LGr 1543	1	tip				
La Claterniga						
MNPN NM —	1	>12.9	—			
MNPN NM —	1	>13.1	—			
Sant Quirze						
MGSCB 48841	r	15.8	10.4			
CJFV Squ 5443	1	—	11.6			
Hostalets						
IPS 1046	1	>15.9	12.8			
IPS 1047	..	16.0	10.6			
CJFV 4230	1	17.7	10.4			
P1						
<u>Nguruwe kijivium</u>						
Songhor						
KNM-SO 8451	r	7.2	3.6	3.6		
Kirimon						
KNM-KI 18039	1	6.6	3.4	3.4	4.8	4.6
<u>Kubanochoerus massai</u>						
Gebel Zelten						
MNHNP Z 1961	r	16.8	8.1	7.4	11.8	12.2
<u>Bunolistriodon lockharti</u>						
Pellecahus						
NMB GB 1385	r	8.6	..	4.4	..	>6.9
Baigneaux						
NMB SO-6495	r	8.8	..	5.3		
MGL Or 3109	1	8.6	..	5.5	..	7.9
P2						
<u>Nguruwe kijivium</u>						
Kirimon						

KNM-MB 129	r	—	—	11.8
<u>Bunolistriodon guptai</u>				
HGSP 8321				
HGSP 8321/2075	1	—	—	9.0
<u>Listriodon pentapotamiae</u>				
Chinjji 38				
GSP 2065	1	14.3	7.2	7.9
Kali Nachi				
IVAU QN 37	r	—	7.8	—
Hessuwala				
BSPHGM 1956II60	1	14.0	8.3	9.7
Kundal Nali				
IVAU CHK 110	1	—	9.6	—
Chhonjawala				
BSPHGM 1956III106	1	15.5	9.1	11.0
HGSP 8425				
HGSP 8425/3530	r	17.4	9.5	11.9
Kalin Nal				
BSPHGM 3414-22	r	—	9.3	—
Pirawalaban 1				
BSPHGM 1956III107	1	15.7	8.8	10.8
<u>Listriodon splendens</u>				
Indhu I				
MTA AKI-3/357	r	18.3	10.8	12.4
MTA AKI-3/384	r	17.7	10.1	11.5
Paşalar				
PDITFAU CT1	r	16.6	9.0	11.1
PDITFAU CT1	1	15.6	9.2	9.8
PDITFAU D3	r	17.6	9.7	10.2
PDITFAU D591	1	15.7	8.8	10.9
PDITFAU D731	r	16.1	9.1	9.8
PDITFAU D1026	1	14.8	8.1	9.4
PDITFAU DT1	1	16.1	9.2	11.6
PDITFAU DT1	r	>16.6	9.2	>11.3
PDITFAU E66	1	14.3	7.7	10.0
PDITFAU E66/1	r	18.1	9.6	10.6
PDITFAU E757	r	17.7	9.9	11.7
PDITFAU ET1	1	15.5	8.8	11.7
PDITFAU ET1	1	17.7	9.9	—
PDITFAU ET1	r	—	—	—
PDITFAU ET1	1	15.7	8.2	10.8
PDITFAU ET1	1	15.9	10.0	10.9
PDITFAU ET1	r	15.1	8.6	10.1
PDITFAU ET1	r	16.3	8.8	9.8
PDITFAU ET1	r	16.8	9.6	11.4
PDITFAU ET1	1	—	—	8.9
PDITFAU ET1	r	—	8.1	—
PDITFAU ET1	1	14.6	9.0	9.7
PDITFAU ET1	1	>16.0	—	10.8
PDITFAU F287	1	15.6	9.6	10.5
PDITFAU F389	r	15.5	8.8	9.7
PDITFAU G408	1	16.2	7.6	8.9
PDITFAU G666.6	r	15.1	>7.5	10.1
PDITFAU G669.c	r	15.3	8.8	9.1
PDITFAU G722	r	14.4	8.5	9.4
PDITFAU G1248	1	15.3	8.8	10.1
PDITFAU G1666	r	16.5	9.5	12.1
PDITFAU G1748cd	1	15.6	8.3	10.7
PDITFAU —	r	—	—	9.9
PIMUZ BP-196				
PIMUZ BP-215	r	16.4	9.0	10.3
PIMUZ BP-375	1	14.7	7.5	9.3
Villegfranche d'Astarac				
MNHNP VAS 26	r	15.6	>8.1	—
Manchones I				
IVAU MA 108	r	19.7	9.5	11.6
Arroyo del Val IV				
IVAU AR IV 15	1	17.3	10.8	11.8
IVAU AR IV 485	r	—	>9.3	—
Torriil				
OCL —	r	17.4	10.4	11.0
La Grive oc				
UCBL 65621	r	15.3	..	10.8
Cerro del Otero				
MNCN NM 18034	r	15.3	8.4	9.8
Sant Quirze				
MGSCB 48887	r	18.0	11.1	13.1
MGSCB 48888	r	16.7	9.9	12.0
MGSCB 48896	1	16.4	9.2	10.7
MGSCB 48897	r	15.8	9.3	10.5
CJFV Squ 5454	r	16.9	9.6	11.5
CJFV Squ 5456	1	17.1	9.8	12.0
Escanecrabe				
MNHNP HCP 29	r	17.4	9.8	11.6
Castell de Barberà				
IPS 1967	1	14.6	10.8	11.8
IPS 1969	r	15.1	10.5	12.0

Hostaleta				
IPS VP 320	1	16.1	..	10.6
IPS VP 321	1	15.7	..	10.9
CJFV4235 = HP196	1	17.7	10.6	10.8
<u>D3</u>				
<u>Nguruwe kijivium</u>				
Mfwanganu				
KNM-MW 391	1	—	—	4.6
<u>Kubanochoerus massai</u>				
Gebel Zelten				
MNHNP Z 1961	1	23.0	10.4	10.8
<u>Bunolistriodon aff. latidens</u>				
La Artesilla				
MPZ 6433	1	13.3	6.1	6.9
Munébrega I				
IVAU 55/1087	r	13.5	4.2	6.2
<u>Bunolistriodon M</u>				
Paşalar				
PDITFAU BT 1	1	—	—	6.7
PDITFAU DIT	r	12.4	5.3	6.1
PDITFAU G1770.6	1	11.4	4.6	5.9
<u>Bunolistriodon guptai</u>				
HGSP 8418				
HGSP 8418/3372	1	—	—	6.7
<u>Listriodon pentapotamiae</u>				
Jandawala				
BSPHGM 163	1	12.3	5.6	6.6
<u>Listriodon splendens</u>				
Paşalar				
PDITFAU D937	r	—	5.6	—
PDITFAU DT1	1	—	—	7.2
PDITFAU DT1	r	—	6.7	7.9
PDITFAU DT	r	—	6.0	6.6
PDITFAU ET1	1	13.3	6.3	7.2
PDITFAU ET1	1	13.0	6.0	6.7
PDITFAU ET1	1	—	5.9	6.5
PDITFAU ET1	r	—	5.1	—
PDITFAU F9.9	1	12.9	5.9	6.8
PDITFAU F450	r	—	6.4	7.6
PDITFAU G51	r	—	6.1	—
Murrero				
IVAU MR 29	1	12.7	6.0	6.0
La Grive oc				
MCL —	1	12.8	5.7	6.4
Cerro del Otero				
MNCN NM 18012	1	14.2	7.1	7.5
MNCN NM 18033	1	14.6	8.3	8.2
Castell de Barberà				
IPS —	1	—	—	6.4
IPS —	r	12.0	..	6.7
Hostaleta				
CJFV IPS 1982	r	14.0	..	8.1
CJFV IPS 1975	..	13.0	..	7.5
<u>P4</u>				
<u>Nguruwe kijivium</u>				
Rusinga R106				
KNM-RU 5854	r	10.9	6.9	7.4
Songhor				
KNM-SO 4979	1	10.0	6.2	6.6
KNM-ZP 1369				
(cast M32661)	r	10.7	6.6	6.8
HGSP 8412				
HGSP 8412/3152	r	—	6.2	..
<u>Lopholistriodon moruoroti</u>				
Maboko				
KNM-MB 14487	r	—	4.8	—
<u>Kubanochoerus maryanngui</u>				
Buluk				
KNM-WS 12587	r	27.3	20.9	22.8
KNM-WS 12594	r	>28.0	>20.5	>21.5
<u>Kubanochoerus khinzikebirus</u>				
Maboko				
KNM-MB 14427	r	—	—	>25.1
<u>Kubanochoerus massai</u>				
Gebel Zelten				
MNHNP Z 1961	r	26.1	14.2	15.7
MNHNP Z 1961	r	+26.9	—	—
MNHNP Z 1961	r	27.1	16.0	>16.7
MNHNP Z 1961	r	25.3	14.9	16.4
MNHNP Z 1961	r	>26.5	15.9	—
MNHNP Z 1961	1	25.5	15.1	16.2
MNHNP Z 1961	1	25.1	14.9	16.2
MNHNP Z 1961	1	25.4	15.6	17.9
MNHNP Z 1961	r	25.3	<16.8	—
MNHNP Z 1961	1	27.1	16.1	16.6
MNHNP Z 1961	r	—	—	+15.3

MNHP Z 1961	r	—	—	16.1
MNHP Z 1961	r	25.4	>14.4	>16.4
<u>Bunolistriodon anchidens</u>				
Rusinga R113				
KNM-RU 15163	r	+16.6	12.7	13.5
<u>Bunolistriodon aff. latidens</u>				
Olival da Suzana				
CEPUNL 23	r	18.4	..	12.9
Quinta da Conceição				
CEPUNL 54	l	19.3	..	12.5
Quinta da Fariheira				
CEPUNL 14	l	16.0	..	11.7
La Artesilla				
MPZ 6439	r	17.1	11.7	12.3
Armantes I				
IVAU 41/516	l	17.2	12.6	12.8
IVAU 41/517	r	16.8	12.4	12.4
<u>Bunolistriodon M</u>				
Paşalar				
PDTFAU B592/2	r	17.8	9.4	10.0
PDTFAU BT1	l	17.7	8.9	10.2
PDTFAU C438.c	r	17.4	9.5	11.1
PDTFAU C469.3	r	17.2	9.7	10.9
PDTFAU CT 5	l	18.1	9.9	11.5
PDTFAU CT1	r	17.1	9.7	10.7
PDTFAU CT1	r	15.3	9.7	10.0
PDTFAU CT1	r	>17.0	10.3	11.0
PDTFAU CT1	l	16.2	10.4	10.8
PDTFAU CT1	l	18.6	11.5	12.6
PDTFAU D639	r	17.0	11.4	11.9
PDTFAU ET1	r	15.9	10.5	10.9
PDTFAU ET1	r	18.8	10.0	11.2
PDTFAU ET1	l	—	—	—
PDTFAU ET1	r	—	—	—
PDTFAU F390	r	14.8	9.1	10.0
PDTFAU G371	l	..	..	..
PDTFAU G1748.9	l	16.9	10.4	11.2
PDTFAU G1924.5	l	15.7	9.3	10.2
PDTFAU G1970	r	16.0	9.6	10.4
<u>Bunolistriodon lockharti</u>				
Pellecahus				
NMB GB 2453	l	—	>13.0	—
NMB GB 2459	l	17.4	13.5	13.0
La Romieu				
UCBL 320273	l	15.9	10.6	10.6
UCBL 320275	r	18.6	12.0	13.3
Buñol				
MPV PAN-148	r	>16.8	12.6	14.2
Baigneaux				
NMB —	r	19.0	12.6	13.4
FMNH cast	l	18.8	12.0	13.1
Engelswies				
NMB TD 679	r	18.3	>11.9	>12.4
Pontlevoy				
MNHP FP 226	r	17.9	11.9	10.6
MNHP FP 1035	r	19.8	12.8	12.7
Beaugency				
MNHP 3903 cast	l	18.9	12.6	13.3
Tavers				
COBO —	r	20.5	12.6	14.1
<u>Bunolistriodon akatikubas</u>				
Maboko				
KNM-MB 14424	r	17.9	12.7	12.8
KNM-MB 872	l	18.9	12.4	14.2
<u>Bunolistriodon intermedius</u>				
Maerzuizigou				
IVPP V 9525	l	17.0	10.2	12.3
<u>Bunolistriodon guptai</u>				
HGSP 8412				
HGSP 8412/3123	l	17.5	10.9	11.6
<u>Listriodon pentapotamiae</u>				
Chinjji 38				
GSP 751	r	—	—	>15.3
Chinjji 76				
GSP 5340	r	—	10.1	—
GSP 9662	r	—	—	>9.2
GSP 14163	l	13.6	10.5	10.4
Dhok Talian 189				
GSP 4422	l	17.8	12.5	12.6
GSP 4528	r	16.6	11.3	12.1
Kanatti				
IVAU KA 83	l	17.2	11.5	12.5
IVAU KA 86	r	14.6	10.4	10.7
IVAU KA 87	l	—	>9.9	—
Burri Wala				
IVAU CHB 21	l	15.5	9.7	10.2
Tekunja				
IVAU CHI 66	r	—	10.3	—
Cheski Wala				
IVAU CHC 87	r	>16.8	<14.3	<14.2
Achora				
FISF CHA F6132	l	16.9	12.1	14.1
Kanatti Chak 8				
BSPHGM 1956II105	l	16.4	11.7	11.7
BSPHGM 3275-84	l	15.7	10.8	12.0
BSPHGM 3275-84	r	16.6	10.9	12.3
Kundal Nali				
IVAU CHK 104	l	—	12.3	—
HGSP 8415				
HGSP 8415/3584	r	17.0	—	—
Bhurriwala				
BSPHGM 1956II159	l	16.9	11.5	12.3
Jandawala				
BSPHGM 1956II157	..	16.1	12.2	12.4
Chinjji Fm. bought specimens				
IVAU CH-25	l	18.1	13.8	>14.6
IVAU CH-27	l	—	11.0	—
IVAU CH-29	r	14.9	10.1	10.7
IVAU CH-32	r	—	—	—
IVAU CH-42	l	14.9	>11.5	10.8
<u>Listriodon splendens</u>				
Simorre				
NMB DG 55	l	14.5	10.9	10.8
"Gers"				
MNHP Ger 1	l	18.5	11.5	12.8
Paşalar				
PDTFAU A54	r	17.6	12.5	12.4
PDTFAU A169	l	17.8	12.4	14.0
PDTFAU BT1	r	17.6	12.2	11.9
PDTFAU B	r	17.1	12.2	12.8
PDTFAU CT1	r	16.7	11.5	11.3
PDTFAU CT1	l	17.4	12.1	13.5
PDTFAU CT1	r	>15.2	11.0	11.2
PDTFAU CT1	r	—	—	13.0
PDTFAU CT1	l	16.9	12.0	13.1
PDTFAU CT1	r	17.2	12.3	13.2
PDTFAU D123	l	17.9	12.2	13.8
PDTFAU D656	r	18.4	12.2	12.6
PDTFAU D889	r	>17.9	>12.5	>11.8
PDTFAU E305	l	—	—	12.7
PDTFAU E467	l	17.5	12.4	13.1
PDTFAU E588	r	17.4	11.0	11.8
PDTFAU E852	l	17.8	10.9	12.7
PDTFAU ET1	r	—	—	—
PDTFAU ET1	r	18.2	12.3	11.9
PDTFAU ET1	r	17.1	12.0	11.3
PDTFAU ET1	r	17.6	11.7	12.8
PDTFAU ET1	l	18.4	12.7	12.2
PDTFAU ET1	l	17.7	11.9	12.2
PDTFAU ET1	r	—	—	12.9
PDTFAU F278.6	l	16.9	11.8	12.3
PDTFAU F278.7	r	17.8	12.2	11.6
PDTFAU F281	l	16.9	12.3	14.0
PDTFAU F486	r	18.5	13.2	12.4
PDTFAU F509	r	16.9	11.5	12.8
PDTFAU F2784	r	17.3	11.0	12.2
PDTFAU G172	r	17.9	13.3	12.7
PDTFAU G408.c	r	18.0	12.9	13.0
PDTFAU G692.1	l	17.3	—	—
PDTFAU G870	r	17.0	12.1	12.3
PDTFAU G1598	l	18.6	12.5	13.8
PDTFAU G1599.1	l	17.3	12.2	11.6
PDTFAU G1646	l	16.4	10.5	11.9
PDTFAU G2032.1	l	17.4	12.0	12.9
PDTFAU —	l	18.2	12.3	12.8
PDTFAU —	r	18.5	12.8	12.9
PDTFAU —	l	—	12.0	—
PIMUZ BP-312	r	17.5	11.9	13.5
PIMUZ BP—	r	17.7	12.4	12.4
Çandır				
MCA CA —	r	17.4	12.3	12.6
Villefranche d'Astarac				
MNHP VAS 19	l	17.8	11.8	12.8
MNHP VAS 20	r	>16.4	12.0	13.2
Krivádia railway station				
HGSB Ob-19	l	18.8	13.7	14.5
St. Margarethen				
NW SK 3607	r	17.6	12.9	12.9
Paracuellos V				
MNCN PA V 553	r	18.2	—	—
Manchones I				
IVAU MA 107	r	20.3	13.7	13.6
IPS MA 260	l	17.7	11.5	12.9
IPS MA 263	l	20.3	11.5	13.1

PDITFAU E89.11	r	17.5	11.4	11.7					
PDITFAU E297	r	—	—	—					
PDITFAU F9.2	r	—	—	12.3					
PDITFAU F377	r	18.5	13.0	13.0					
PDITFAU F382	r	—	11.1	—					
PDITFAU G240	1	—	>13.1	>12.1					
PDITFAU G408.6	r	18.5	13.0	12.9					
PDITFAU G915	1	17.6	11.7	11.6					
PDITFAU G1232	1	20.0	13.4	>12.4					
PDITFAU G1557	1	17.9	11.9	12.4					
PDITFAU G1645	r	17.1	12.6	12.1					
PDITFAU G1868	1	18.3	11.6	12.2					
PDITFAU G2023	1	>15.3	11.4	11.4					
<u>Bunolistriodon lockharti</u>									
Pellicahus									
NMB GB 2454	r	—	14.2	—					
La Romieu									
UCBL 320288	1	20.0	12.7	13.3					
Baigneaux									
NMB SO-929	1	20.0	13.6	13.6					
NMB SO-1694	r	21.9	17.1	—					
NMB SO-6737	r	18.3	14.4	14.8					
Avaray									
MSNO —	r	19.1	13.9	14.6					
Buñol	—	1	—	>14.1					
FMNH cast	r	19.5	13.2	13.8					
<u>Bunolistriodon akatikubas</u>									
Majiwa									
KNM-MJ 9776	r	19.4	13.0	13.7					
<u>Bunolistriodon guptai</u>									
HGSP 8222									
HGSP 8222/1218	r	19.1	15.2	15.4					
HGSP 8412									
HGSP 8412/3135	r	19.7	>15.3	15.3					
<u>Listriodon pentapotamiae</u>									
Dhok Talian 189									
GSP 4419	1	—	—	14.8					
Telunja									
IVAU GHT 14	r	—	—	14.4					
HGSP 8427									
HGSP 8427/3646	1	18.6	13.4	13.2					
Chinji Fm.									
bought spec.									
IVAU CH-28	1	16.3	>11.7	12.0					
IVAU CH-35	..	—	—	11.8					
<u>Listriodon splendens</u>									
"Gers"									
MNHNP Ger 44	1	18.7	16.3	15.7					
Paçalar									
PDITFAU B593	r	—	13.3	—					
PDITFAU B593/1	1	19.3	13.7	13.7					
PDITFAU C280.5	r	—	—	14.6					
PDITFAU CT1 93	1	18.9	13.5	13.5					
PDITFAU CT1	1	18.0	12.9	13.3					
PDITFAU CT1	r	—	12.9	—					
PDITFAU CT1	r	—	13.1	—					
PDITFAU CT1	1	—	13.7	—					
PDITFAU CT5	r	>16.3	>13.3	13.5					
PDITFAU D5	1	16.9	12.0	12.6					
PDITFAU D9.43	1	<18.3	13.6	14.0					
PDITFAU D210.11	1	—	—	13.2					
PDITFAU DT1	r	19.1	13.9	13.8					
PDITFAU E89.2	1	18.9	13.2	14.1					
PDITFAU E118	r	19.3	13.9	13.8					
PDITFAU E251	1	19.2	14.5	15.6					
PDITFAU E532	r	19.1	12.6	13.5					
PDITFAU ET1	r	17.7	13.2	13.2					
PDITFAU ET1	1	—	13.2	—					
PDITFAU ET1	r	—	14.8	—					
PDITFAU ET1	r	—	13.1	—					
PDITFAU ET1	r	—	11.8	—					
PDITFAU ET	r	17.6	13.0	13.4					
PDITFAU F278.8	r	19.7	14.6	15.4					
PDITFAU F278.9	1	18.0	13.6	13.6					
PDITFAU F278.13	r	—	12.4	—					
PDITFAU F384	1	—	—	13.7					
PDITFAU G458	1	—	—	13.4					
DITFAU G704	r	18.5	12.9	12.3					
PDITFAU G1548	r	16.5	12.5	12.9					
PDITFAU G1598.1	r	20.1	—	14.8					
PDITFAU -583	r	17.0	12.2	11.9					
PIMIZ BP-307	1	17.9	12.8	13.1					
Çandır									
MIA CA —	r	18.3	13.2	14.0					
MIA AÇH 910	1	16.2	>13.2	13.4					
Villefranche d'Astarac									
MNHNP VAS 21	1	17.0	—	12.9					
MNHNP VAS 23	1	17.0	13.4	13.3					
Arroyo del Val IV									
IVAU AR IV 42	r	20.0	13.9	13.6	12.1	10.7			
IVAU AR IV 43	r	19.5	14.5	14.0					
RGM 263.103	r	—	—	13.5					
MPZ AV-42	1	19.6	14.4	13.5					
Murrero									
IVAU MR 28	r	—	>15.7	—					
Arroyo del Val I									
IVAU AR I —	.	—	—	18.0					
Bonnefont									
MNHNP HGP 69	r	18.2	13.3	13.7					
MNHNP HGP 70	r	17.6	12.6	12.4					
La Grive oc									
NMB GA 4706	..	—	12.8	—					
MCL LGr 715	1	15.9	12.5	12.4					
Sant Quirze									
MGSCB 48910	..	—	—	14.0					
MGSCB 48911	..	—	—	>13.9					
CJFV SQ 5451	1	>16.5	14.2	14.3					
Castell de Barberà									
IPS —	1	17.4	13.3	12.4					
Hoetalets									
IPS 1075	r	20.4	—	—					
IPS H 213	r	18.2	—	14.3					
CJFV4223 = HP194	r	19.7	15.4	14.0					
<u>M₂</u>									
<u>DAP</u>									
<u>DTa</u>									
<u>DTp</u>									
Nguruwe kijivium									
Mteitei									
KNM-MV 19	r	13.8	10.8	10.5					
Koru 25									
KNM-KO 51	..	—	—	>9.8					
Napak (loc. ?)									
KNM-ZP1383a cast	r	13.5	9.5	9.6					
Rusinga R106									
KNM-RU 2776	1	12.4	9.9	10.0					
Mfwanganu									
KNM-MW 169	r	13.6	9.3	9.8					
KNM-MW 173	1	13.8	10.8	11.0					
KNM-MW 174	1	14.8	11.9	11.2					
KNM-MW 390	1	14.8	11.4	11.9					
<u>Lopholistriodon moruoroti</u>									
Maboko									
KNM-MB 145	r	—	—	6.5					
KNM-MB 881	r	—	—	6.4					
KNM-MB 10288	r	—	7.7	7.3	6.8	—			
KNM-MB 10331	r	10.6	6.9	7.4					
KNM-MB 14488	1	—	—	6.0					
<u>Lopholistriodon pickfordi</u>									
Maboko									
KNM-MB 10289	r	—	8.0	—					
KNM-MB 10333+144	r	12.5	8.6	8.6	8.1	..			
KNM-MB 14479	r	12.1	8.1	9.0					
KNM-MB 14480	1	11.9	8.2	8.7					
KNM-MB 15118	1	—	—	8.8					
<u>Lopholistriodon akatidogus</u>									
Maboko									
KNM-MB 10370	r	19.2	13.0	12.9	9.9	9.9			
<u>Lopholistriodon kidogosana</u>									
Ngorora B5, 2/56									
KNM-BN 2084	r	14.3	9.6	9.6	>7.0				
Ngorora B									
KNM-BN 1711	1	—	10.0	—					
<u>Kubanochoerus massai</u>									
Gebel Zelten									
MNHNP Z 1961	1	—	—	22.6					
MNHNP Z 1961	1	31.4	22.5	22.8					
MNHNP Z 1961	..	>30.7	—	—					
MNHNP Z 1961	r	30.1	23.5	>22.8					
MNHNP Z 1961	1	33.0	25.0	25.6	+21.7	18.0			
MNHNP Z 1961	1	30.9	23.6	23.2					
MNHNP Z 1961	1	32.7	24.3	24.5					
MNHNP Z 1961	1	33.6	24.4	25.0					
<u>Bunolistriodon aff. latidens</u>									
Quinta da Farinheira									
ML 5545	r	22.0	15.6	14.6					
CEPUNL 9	r	22.1	18.1	18.6					
CEPUNL 10	1	22.1	18.8	17.7					
CEPUNL 13	r	17.5	14.3	15.0					
Casal das Chitas									
ML 5542	1	23.1	18.7	16.5					
Olival da Suzana									
CEPUNL 22	r	21.5	17.1	15.3					
Echzell									
HLD Ez 323	r	20.9	15.9	16.4					
<u>Bunolistriodon aff. latidens</u>									
Armantes I									

KNM-RU 2773	r	18.6	12.0	9.7	7.4		
KNM-RU 15162	r	>22.8	+13.1	+11.3	—		
Rusinga R3							
KNM-RU 2777	r	—	11.3	9.6	—		
Songhor							
KNM-SO 1054	1	—	—	9.7	7.7		
KNM-SO 1121	r	20.7	11.9	11.1	8.3		
KNM-SO 1138	r	18.4	10.3	9.1	7.0		
KNM-ZP 1381 cast							
BMNH M32660	1	18.6	10.3	8.4	7.2		
Mfwanganu							
KNM-MW 172	r	18.0	10.1	9.0	6.7		
KNM-MW 502	1	—	—	—	—		
Kirimon							
KNM-KI 18040	1	—	—	10.3	7.6		
KNM-KI 18032	r	21.1	—	>10.4	7.5		
<u>Lopholistriodon moruoroti</u>							
Maboko							
KNM-MB 14482	1	16.3	8.3	8.9	5.7	7.3	6.9
Arrisdraft							
KNM-ZP 1390 casts							
AD 135	1	13.8	7.6	7.4	5.4	7.6	>6.0
AD 636	1	>12.0	7.9	7.2	4.5		
<u>Lopholistriodon pickfordi</u>							
Nyakach-Kaimoroon							
KNM-NC 9802	1	—	—	12.3	8.1		
KNM-NC 9808	1	>19.0	—	11.3	7.8		
<u>Lopholistriodon akatidogus</u>							
Mbagathi							
KNM-MG 9	1	28.8	15.5	14.7	11.7	13.6	11.3
KNM-MG 11	r	29.3	14.8	14.4	12.6		
Maboko							
KNM-MB 10363	r	>27.1	—	>14.6	12.6		
KNM-MB 613 + 869	r	28.8	17.9	16.4	12.9		
<u>Lopholistriodon kidogosana</u>							
Ngorora B5, 2/56							
KNM-BN 1723	1	—	—	11.3	7.4		
KNM-BN 1727	1	20.5	—	>10.0	7.6		
Ngorora D, 2/11							
KNM-BN 188	1	16.7	10.3	10.0	6.8	7.6	>6.2
Ngorora D							
KNM-BN 847	1	—	—	8.3	5.0		
<u>Kubenochoerus khinzikebirus</u>							
Gebel Zelten							
KNM-ZP 1394 cast	r	59.1	34.7	31.5	22.8		
<u>Kubenochoerus hussaini</u>							
Maboko							
KNM-MB 130	1	—	—	>28.3	23.7		
KNM-MB 131	1	—	—	—	28.3		
<u>Kubenochoerus massai</u>							
Gebel Zelten							
MNHNP Z 1961	r	>45.7	—	21.0	16.7		
MNHNP Z 1961	r	>46.6	>23.8	>21.7	>16.3		
MNHNP Z 1961	r	>41.9	>22.7	—	—		
MNHNP Z 1961	1	>45.9	>25.2	21.7	17.9		
MNHNP Z 1961	1	>41.9	>25.0	21.7	17.9		
MNHNP Z 1961	r	>45.4	—	21.1	16.8		
MNHNP Z 1961	r	—	—	>21.5	—		
MNHNP Z 1961	1	—	—	22.5	16.6		
MNHNP Z 1961	1	—	—	>20.9	17.8		
MNHNP Z 1961	1	44.8	24.9	22.1	17.3	>18.3	>15.6
MNHNP Z 1961	1	48.1	>25.2	>22.4	17.1	>17.7	—
MNHNP Z 1961	1	45.6	25.4	22.3	17.6	18.3	15.1
MNHNP Z 1961	1	46.2	25.4	22.3	17.6	>19.9	—
MNHNP Z 1961	1	44.3	26.1	22.5	18.9		
MNHNP Z 1961	r	47.6	26.1	23.2	18.4	18.1	14.8
MNHNP Z 1961	r	44.5	25.3	22.6	18.6		
MNHNP Z 1961	r	>46.6	>26.8	25.0	19.4		
MNHNP Z 1961	r	45.2	>25.4	22.3	15.5	..	>16.0
MNHNP Z 1961	1	>42.1	21.9	23.3	16.4	20.3	16.2
MNHNP Z 1961	r	—	—	24.9	20.7		
MNHNP Z 1961	1	—	—	—	16.7		
MNHNP Z 1961	1	—	—	23.6	18.2		
MNHNP Z 1961	1	—	—	24.1	18.4		
MNHNP Z 1961	r	—	—	24.2	17.6		
MNHNP Z 1961	1	41.3	25.1	21.6	17.6	>17.8	>15.0
MNHNP Z 1961	r	46.2	27.4	23.3	17.1		
MNHNP Z 1961	1	47.9	—	22.4	18.3		
MNHNP Z 1961	r	45.6	—	21.2	16.6		
MNHNP Z 1961	1	+42.4	—	—	18.4		
MNHNP Z 1961	1	46.0	24.5	21.6	15.3		
<u>Bunolistriodon anchidens</u>							
Rusinga R113?							
KNM-RU 15164	1	32.2	18.8	>16.0	11.9		
Karungu	?						
KNM-KA 51	1	—	18.6	16.3	—		
<u>Bunolistriodon aff. latidens</u>							
Olival da Suzana							
CEPUNL 20	r	—	—	—	12.9		
CEPUNL 17	r	35.0	—	—	15.0		
Quinta Flamengas							
CEPUNL 36	r	34.4	22.0	19.7	15.8		
Quinta da Silvéria							
CEPUNL 42	r	34.5	—	18.4	14.4		
Quinta Grande							
CEPUNL 31	1	33.3	—	14.5	13.3		
CEPUNL 32	1	—	—	>16.0	>11.8		
Quinta da Conceição							
CEPUNL 50	1	>36.2	—	18.9	14.7		
Quinta da Lobeira							
CEPUNL 44	r	>27.9	18.8	16.2	11.3		
La Artesilla							
MPZ 6442	r	30.5	16.0	15.1	11.5		
MPZ 6443	1	—	17.7	—	—		
MPZ 6444	r	35.3	19.9	19.4	13.7		
Armantes I							
IVAU 41/506	1	34.2	19.8	18.3	13.3		
IVAU 41/507	r	34.7	21.4	18.9	13.4		
IVAU 41/508	r	—	—	—	—		
Munébrega III							
IVAU 53/73	r	—	—	—	—		
Munébrega AB							
IVAU Mun 1	1	32.7	>17.4	17.4	13.0		
IVAU Mun 2	r	—	—	16.7	14.1		
<u>Bunolistriodon latidens</u>							
InBnl I							
MTA AKI-3/162	r	33.6	19.3	17.3	12.5		
<u>Bunolistriodon sp.</u>							
Ad Dabtiyah							
BMNH M 42949	r	32.6	—	16.8	12.3		
<u>Bunolistriodon M</u>							
Paşalar							
PIMUZ BP-118	r	30.8	17.4	16.9	12.2	13.2	10.7
PDITFAU B593	1	—	—	18.1	13.8		
PDITFAU C8.5	1	32.3	17.7	16.2	12.8		
PDITFAU C8.7	r	—	—	17.2	12.1		
PDITFAU C8.8	1	—	19.0	—	—		
PDITFAU C8.9	1	—	18.4	—	—		
PDITFAU C279	r	—	—	17.1	13.6		
PDITFAU C280/1	1	31.6	17.1	16.1	11.6		
PDITFAU C280/2	1	33.7	19.4	17.5	13.5		
PDITFAU C280/3	1	33.2	18.5	17.1	13.7		
PDITFAU C374	r	—	—	16.9	12.4		
PDITFAU C11	r	—	—	18.0	12.2		
PDITFAU D8.14	r	—	—	15.7	12.7		
PDITFAU D8.15	1	—	—	17.5	12.4		
PDITFAU D62	1	33.2	16.9	16.2	12.4		
PDITFAU D210/3	r	32.5	17.8	16.5	12.6		
PDITFAU D210/4	1	34.8	19.9	18.1	12.8		
PDITFAU D813	r	32.2	18.8	17.1	12.5		
PDITFAU E7.9	r	—	—	15.8	12.0		
PDITFAU E7.18	1	—	—	—	13.3		
PDITFAU E89.1	r	—	17.1	16.2	—		
PDITFAU E662	1	—	—	16.3	11.7		
PDITFAU E805+807	1	—	17.1	15.8	—		
PDITFAU G652a	1	36.2	20.1	18.0	12.7		
PDITFAU G1248	1	30.9	15.7	15.2	11.6		
PDITFAU G1286	r	29.9	17.2	15.7	10.1		
Çandır							
FMNH cast	r	35.9	>18.4	17.6	13.2		
<u>Bunolistriodon lockharti</u>							
Pellecahus							
UCBL 320293	1	32.4	17.2	17.4	..		
La Romieu							
UCBL 320275	r	31.3	18.0	16.5	12.8		
UCBL 320288	r	>34.9	19.2	17.1	12.2		
UCBL 320288	1	35.3	20.6	17.7	13.6		
UCBL 320299	r	29.9	17.1	16.4	10.7		
UCBL 320311	r	—	20.8	18.6	—		
Baigneaux							
NMB SO-2002	r	34.9	18.6	16.8	13.6		
NMB SO-2814	1	31.2	17.3	15.9	12.2		
NMB SO-4926	r	34.2	18.5	16.9	13.1		
NMB SO-5633	r	—	—	15.6	12.9		
Chevilly							
MNHNP CHE 43	r	35.4	21.6	18.8	13.0		
MNHNP CHE 44	..	35.1	—	18.2	12.3	16.0	13.4
"Orléans"							
MSNO 266	r	36.6	21.1	18.9	13.6	16.5	13.3
Buñol							
IPS 1147	1	—	>20.6	20.1	14.6		
GerLenhofen							
SMNS — cast	r	37.6	19.8	..	..
SMNS — cast	r	+32.4	>18.0	..	..
SMNS — cast	1	34.3	20.0	..	..
Pontlevoy							

MNHP FP 1807	r	34.5	20.8	18.9	13.0				
MNHP FP 1808	l	38.0	21.2	19.3	14.7	16.9	13.6		
Taverns									
COBO —	l	35.9	19.5	18.2	13.6				
COBO —	r	32.2	18.7	16.9	12.8	14.8	11.8		
Ravensburg									
NMB TD 549	r	35.7	19.7	19.7	13.6				
NMB TD 550	l	35.6	20.9	19.1	12.8				
Szentendre									
HGSP V60614 cast	r	33.1	19.3	17.3	12.2				
<u>Bunolistriodon akatikubas</u>									
Mbagathi									
KNM-MG 2	l	33.1	—	18.1	12.0	—	11.6		
Maboko									
KNM-MB 132	l	34.5	19.6	16.9	13.6				
KNM-MB 614	r	—	18.4	16.3	—				
KNM-MB 16712	l	—	>19.8	—	—				
KNM-MB 19424	l	31.5	19.1	16.6	10.8				
KNM-MB 19524	l	—	—	—	10.9				
<u>Bunolistriodon guptai</u>									
HGSP 8320									
HGSP 8320/2016	l	34.9	20.1	19.0	12.1				
HGSP 8321									
HGSP 8321/2072	l	—	—	—	—				
<u>Listriodon pentapotamia</u>									
Chinj 38									
GSP 1360	r	31.6	17.7	16.4	11.1				
Dhok Talian 189									
GSP 4532	l	—	21.7	—	—	—	16.0	—	
Kanatti									
IVAU KA 81	r	—	19.3	18.0	12.2				
HGSP 8427									
HGSP 8427/3646	l	—	—	16.7	12.6				
Achora									
IVAU GHA-60	r	—	17.0	—	—				
Mochiwala									
BSPHGM 1294	l	—	—	16.8	12.0				
Mochi Wala									
IVAU CHO 33	r	—	—	—	—				
IVAU CHO 126	r	32.2	>17.9	16.7	9.3				
IVAU CHO 127	l	27.8	16.5	>13.6	9.9				
HGSP 8304									
HGSP 8304/1333	r	32.8	18.0	17.4	13.3				
HGSP 8220									
HGSP 8220/1037	r	—	—	>17.0	11.8				
Kanatti Chak 5									
BSPHGM 1956II48	l	28.5	17.7	15.8	12.0				
Kanatti Chak 9									
BSPHGM 1956II85	r	33.7	20.0	18.6	12.8				
Sostanwali									
BSPHGM 1956II49	r	—	16.5	15.8	—				
Bhurriwala									
BSPHGM 205	r	—	—	—	—				
Bhilomar									
IVAU CH 25	l	—	—	—	11.5				
Marianwala Kas									
BSPHGM 1672	r	—	—	16.3	11.2				
Kundal Nali									
IVAU CHK 105	r	—	—	15.0	..	—	>10.5		
IVAU CHK 118	r	—	—	—	—				
Kalin Nal									
BSPHGM 1956II50	r	31.6	17.6	16.2	11.0				
SSO Bhilomar									
BSPHGM 1956II107	l	34.4	18.7	17.9	11.4				
Djuguwala									
BSPHGM 2613	r	—	—	>18.0	12.9				
Chinj Fm.									
bought spec.									
IVAU CH-16	l	—	—	18.1	14.6	—	12.2		
IVAU CH-26	r	—	—	14.9	10.8	—	10.0		
IVAU CH-43	l	—	—	—	11.8				
<u>Listriodon splendens</u>									
La Gruas									
NMB DG 34	r	27.8	16.5	15.4	8.2				
Simorre									
CFE cast ICT	r	28.8	17.8	16.7	10.2				
Castelnau									
de Barbarens									
CFE cast ICT	r	31.4	18.3	17.2	10.8				
"Cers"									
MNHP Ger 37	r	33.8	—	17.6	12.7				
Inbnd I									
MTA AKI 3/778	r	35.3	19.7	18.6	13.6				
Stützling									
BSPHGM — cast	l	33.9	19.7	18.0	13.1	15.2	10.4		
Paşalar									
PDTFAU A167	l	—	17.9	—	—				
PDTFAU B592	r	36.3	19.2	17.2	11.8				
PDTFAU B593	r	—	—	16.8	12.4				
PDTFAU B593	r	—	—	>18.3	—				
PDTFAU BT	l	—	20.4	19.1	—	14.3	12.4		
PDTFAU C280	l	35.9	19.6	19.1	12.6				
PDTFAU C280/4	l	35.9	19.9	18.1	12.6				
PDTFAU C396	r	35.8	19.6	18.4	12.2				
PDTFAU C663	l	33.5	19.2	17.7	12.1				
PDTFAU CT1	r	35.9	19.4	19.2	12.7				
PDTFAU CT1	r	—	—	19.0	14.2				
PDTFAU CT1	r	—	>19.2	—	—				
PDTFAU CT1	l	—	—	—	11.8				
PDTFAU CT5	r	—	18.3	—	—				
PDTFAU CT5	r	—	—	—	12.7				
PDTFAU D188	l	—	—	17.4	12.0	—	11.7		
PDTFAU D210.5	l	35.8	19.4	18.2	13.3				
PDTFAU D381	r	—	—	—	18.1				
PDTFAU D593	r	—	—	16.8	12.4				
PDTFAU D728	r	—	—	17.2	11.2	—	12.8		
PDTFAU D993	l	—	—	18.1	12.7				
PDTFAU D1064	r	31.0	17.9	16.6	11.2				
PDTFAU D1140	r	35.2	19.5	17.9	13.8				
PDTFAU D1190/1	l	34.8	19.4	18.0	12.1	15.1	13.4		
PDTFAU DT1	r	—	—	17.7	12.0	—	13.0		
PDTFAU DT1	r	—	—	—	>11.6				
PDTFAU DT1	r	—	—	—	>11.9				
PDTFAU E89	r	31.7	19.4	18.0	12.2				
PDTFAU E470	r	35.8	20.2	18.3	12.8				
PDTFAU E541	l	—	—	17.1	11.7	—	12.1		
PDTFAU E546	l	34.8	18.6	18.0	13.2	14.8	13.9		
PDTFAU E955	r	—	17.4	—	—				
PDTFAU ET1	r	34.4	19.2	18.0	11.1				
PDTFAU ET1	l	32.1	18.8	17.9	10.4	13.9	12.6		
PDTFAU ET	r	—	18.5	18.2	—				
PDTFAU ET	l	—	—	—	13.7				
PDTFAU F7	r	34.2	19.2	18.0	12.2				
PDTFAU F289	r	37.8	21.7	19.7	14.2	15.9	14.2		
PDTFAU F380	r	—	—	18.6	12.4	—	13.8		
PDTFAU F404	l	—	—	19.5	14.0				
PDTFAU F445	l	31.5	17.9	17.1	11.3				
PDTFAU F765	r	34.9	20.5	18.1	12.3	15.3	13.1		
PDTFAU G370	l	39.9	21.7	19.1	12.2				
PDTFAU G402	l	34.9	19.4	>17.6	12.6	14.0	—		
PDTFAU G408	r	—	—	19.3	13.9				
PDTFAU G774	l	—	19.9	18.2	—				
PDTFAU G1091	r	34.7	20.6	19.2	12.8				
PDTFAU G1371	r	33.2	19.7	18.3	12.1				
PDTFAU G1665.4	r	—	19.4	—	—				
PDTFAU G1690	r	35.4	20.4	18.6	12.7				
PDTFAU —	l	36.3	20.1	19.5	14.2	15.0	12.7		
PIMUZ BP-117	r	35.6	19.3	17.8	12.6	14.1	12.0		
PIMUZ BP-123	r	33.6	18.8	17.7	11.0	13.9	12.6		
Çandır									
PIMUZ CA I/61	l	36.0	19.7	17.6	11.4				
Villefranche d'Astarac									
MNHP VAS 14	r	31.6	17.9	16.3	10.9				
MNHP VAS 22	r	—	19.3	—	—				
MNHP VAS 25	l	>30.1	—	—	—				
Paracuellos III									
MNCN PA 450	r	>41.0	—	20.9	12.1				
MNCN PA 619	l	38.9	21.6	>19.2	12.2	+18	13.4		
Manchones I									
IVAU MA 104	r	—	21.1	18.7	—				
Arroyo del Val IV									
IVAU AR IV 5	l	32.3	19.9	18.0	11.9				
IVAU AR IV 8	r	33.5	>20.4	19.0	13.1				
IVAU AR IV 10	r	35.7	—	18.1	12.6	—	13.6		
IVAU AR IV 11	r	>32.1	—	18.4	13.7				
IVAU AR IV 84	l	34.0	20.4	18.9	13.7				
IVAU AR IV 86	r	—	20.5	18.7	—				
MPZ AV-33	l	34.5	20.6	18.4	12.3				
Arroyo del Val I									
IVAU AR I 1	r	41.1	22.8	20.4	12.3				
IVAU AR I 2	l	41.9	21.4	20.0	12.6				
IVAU AR I 3	l	—	—	22.8	—				
Larroque de Magnoac									
MNHP HCP 31	l	35.5	21.0	19.2	10.4				
MNHP HCP 32	r	33.4	17.2	16.3	11.4				
Yaylacilar									
PIMUZ AY 1/7	r	33.2	18.6	18.1	10.0	14.5	12.0		
Kaisersteinbruch									
NMW 1866III14	l	31.7	18.9	18.3	10.9				
Sooskút									
NMW 1865XXX21	l	33.7	19.8	18.3	12.4				
Steinheim									
SMNS 5811	r	33.0	19.1	..	..		
SMNS —	r	—	—	..	..		
La Grive oc									
IGF 295	l	—	—	15.9	—				

IGF 295	r	31.8	17.3	15.6	10.7	13.8	..		
UCBL 65618	1	32.1	18.5	16.6	11.4	14.8	..		
UCBL 65618	1	31.1	18.4	16.9	11.1				
UCBL 65618	1	31.4	17.5	16.2	9.5	14.1	..		
UCBL 65618	r	34.4	19.9	18.1	11.0				
UCBL 65618	r	—	—	17.2	11.2				
<u>La Chaux-de-Fonds</u>									
MHNCF 2	r	—	—	17.8	11.6				
<u>Solera</u>									
IVAU —	1	36.9	21.7	19.9	11.9				
<u>Sant Quirze</u>									
MGSCB 30485	r	>36.4	—	21.2	13.4				
MGSCB 30501	1	+36.2	23.5	20.3	10.9				
MGSCB 48883	r	—	—	18.4	..				
MGSCB 48899	1	—	—	>19.8	—				
MGSCB 48908	r	—	19.1	—	—				
MGSCB 48909	1	—	>18.7	—	—				
MGSCB 48924	r	36.5	>20.7	20.1	12.8				
ITGE 69 (411M)	1	31.6	>20.0	+17.6	8.6				
CJFV SQu 5452	r	37.5	21.4	19.3	12.2				
<u>Wartenberg</u>									
IVAU P25-1963	r	34.7	19.9	19.1	14.7				
<u>Hostalets</u>									
MGSCB 48504	1	—	—	18.2	10.7				
MGSCB 48507	1	—	—	>18.7	..				
CJFV 4221	1	>32.9	+20.5	—	12.4				
CJFV 4229	r	—	—	—	12.9				
CJFV —	r	32.5	18.2	16.8	10.8				
<u>Mering</u>									
NMB TD 838 cast	r	33.5	18.9	18.0	12.1				
<u>Doué la Fontaine</u>									
MNHNP cast	r	—	—	19.6	12.4				
<u>Il</u>									
		IMD	ILL	HLI	HLA				
<u>Ngurwe kijivium</u>									
<u>Songhor</u>									
KNM-SO 4976	r	7.8	5.6	9.9	8.3				
KNM-SO 4980	1	7.2	6.1						
<u>Mfwanganu</u>									
KNM-MW 384	1	6.8	5.9	7.2	8.5				
<u>Lopholistriodon moruoroti</u>									
<u>Maboko</u>									
KNM-MB 14486	1	8.1	5.6						
KNM-MB 14490	1	8.0	5.5						
KNM-MB 15116	1	7.5	5.2	8.6	9.5				
<u>Majiwa</u>									
KNM-MJ 9775	1	7.8	5.8						
<u>Muryur</u>									
KNM-MY 25	1	6.6	6.1	10.3	11.5				
<u>Lopholistriodon kidogosana</u>									
<u>Ngorora B5, 2/56</u>									
KNM-BN 2086	1	—	—						
<u>Ngorora D, 2/11</u>									
KNM-BN 190	1	11.2	6.5	6.5	8.1				
<u>Kubanochoerus massai</u>									
<u>Gebel Zeiten</u>									
MNHNP Z 1961	r	24.9	14.1	16.4	20.4				
MNHNP Z 1961	1	23.2	14.8	17.1	20.0				
MNHNP Z 1961	r	24.7	14.8	>15.8	19.2				
MNHNP Z 1961	r	24.4	15.3	17.8	20.7				
MNHNP Z 1961	1	23.9	15.4	>18.2	>19.4				
MNHNP Z 1961	r	23.2	14.4	>15.3	>18.7				
MNHNP Z 1961	1	27.3	15.8	17.7	18.6				
MNHNP Z 1961	1	25.8	15.9	16.4	18.8				
MNHNP Z 1961	r	23.3	15.3	>16.3	>18.3				
MNHNP Z 1961	1	24.6	>14.9						
MNHNP Z 1961	r	25.5	15.4						
MNHNP Z 1961	1	>23.3	>14.3						
MNHNP Z 1961	r	—	—						
MNHNP Z 1961	1	—	—						
<u>Bunolistriodon anchidens</u>									
<u>Rusinga</u>									
KNM-RU 8322	r	15.2	11.2	>14.0	>12.8				
<u>Rusinga R1</u>									
KNM-RU 15166	r	>15.5	+11.6	+14.6	+15.3				
<u>Bunolistriodon aff. latidens</u>									
<u>La Artesilla</u>									
MPZ 6420	r	15.9	10.4						
MPZ 6421	1	16.9	10.2						
MPZ 6422	r	>17.4	10.7						
MPZ 6423	r	16.9	10.9						
<u>Munébrega AB</u>									
IVAU Mun 3	r	17.9	9.9						
<u>Armentes I</u>									
IVAU 41/526	r	19.4	9.6						
IVAU 41/527	1	17.4	10.1						
<u>Munébrega I</u>									
IVAU 55/1055	1	19.1	11.4						
<u>IVAU 55/1056</u>									
IVAU 55/1056	r	—	—	11.2					
<u>Bunolistriodon latidens</u>									
<u>Inhali I</u>									
MIA AKI-3/571	1	28.9	11.6						
<u>Bunolistriodon M</u>									
<u>Paşalar</u>									
PIMUZ BP268 cast	1	—	—						
PIMUZ BP143 cast	1	35.1	11.1						
PDIFFAU A173	r	—	—						
PDIFFAU D210/1	r	33.0	11.9						
PDIFFAU D210/2	1	32.7	>11.3						
PDIFFAU D210.23	r	37.8	12.7						
PDIFFAU DT 210.30	1	—	—						
PDIFFAU E89.28	1	—	>11.5						
PDIFFAU E189	1	37.3	12.1						
PDIFFAU E934	1	—	—						
PDIFFAU F278.21	r	—	—						
PDIFFAU F278.26	1	—	—						
PDIFFAU G631.3	1	—	—						
<u>Çandır</u>									
MIA ACH-1334	r	38.6	>11.2						
PIMUZ CA I	1	41.9	13.0						
<u>Bunolistriodon lockharti</u>									
<u>La Romieu</u>									
UCBL 320268	r	16.7	9.5						
UCBL 320270	1	19.2	13.2						
UCBL 320270	r	16.9	9.8						
<u>Baigneaux</u>									
NMB SO-571	1	20.3	11.9						
NMB SO-752	r	18.4	10.1						
NMB SO-3019	r	18.8	11.3						
NMB SO-3613	r	20.4	11.6						
NMB SO-5632	1	21.5	12.5						
<u>Gerlenhofen</u>									
SMNS — cast	1	22.8	11.4						
SMNS — cast	r	20.6	>10.9						
SMNS — cast	1	21.8	11.0						
<u>Langenau 1</u>									
SMNS 40965	1	21.7	13.0						
<u>Ravensburg</u>									
NMB TD 547	r	24.7	13.3						
<u>Pontlevoy</u>									
MNHNP FP 220	r	22.7	13.9						
MNHNP FP 1027	1	>20.0	11.8						
MNHNP FP 1037	r	23.4	12.3	11.4	16.0				
<u>Tavers</u>									
COBO —	1	23.9	12.7						
<u>Bunolistriodon akatikubas</u>									
<u>Maboko</u>									
KNM-MB 409	1	21.6	13.3						
<u>Bunolistriodon guptai</u>									
<u>HGSP 8223</u>									
HGSP 8223/1215	r	18.3	9.5	11.0	16.0				
?HGSP 8312									
HGSP 8312/1402	r	20.9	12.4	13.2	12.4				
<u>Loc.?</u>									
IM K 13/768	1	19.6	11.5	10.7	12.2				
<u>Listriodon pentapotamiae</u>									
<u>Chinji 38</u>									
GSP 811	1	19.0	10.6						
<u>Chinji 67</u>									
GSP 1424	1	21.4	11.0						
<u>Dhulian 305</u>									
GSP 10050	1	—	—						
<u>Marianwala-Kas</u>									
BSPHGM 1956II100	1	19.0	10.6						
<u>Bhurriwala</u>									
BSPHGM 2637	r	—	—						
<u>Bhurriwala 2</u>									
BSPHGM 1956II94	r	—	13.4						
BSPHGM 1956II97	r	—	11.4						
<u>Kanatti Chak 5</u>									
BSPHGM 1956II95	1	—	11.9						
<u>Kanatti Chak 6</u>									
BSPHGM 1956II90	r	17.6	9.7						
<u>Dhulian W. Khaur</u>									
BSPHGM 1939X	1	20.9	10.3						
<u>Kadirpur</u>									
BSPHGM 1956II91	1	20.2	11.4						
<u>Kundal Nali</u>									
FLSF CHK - F6114	1	—	11.8						
IVAU CHK 31	1	—	>8.8						
<u>Kundal Nala 2</u>									
BSPHGM 1956II93	r	>19.3	9.2						
<u>Pirawalaban 3</u>									
BSPHGM 1956II92	r	+18.5	8.4						
<u>Chattuwala</u>									
BSPHGM 1956II89	r	25.5	12.0						

KNM-EN 1728	1	9.2	4.9						
<u>Kubanochoerus maryunungui</u>									
Baragoi BGX									
KNM-BG 18012	1	>19.5	>13.4						
<u>Kubanochoerus massai</u>									
Gebel Zelten									
MNHN Z 1961	r	17.0	10.6	>12.5	>13.2				
MNHN Z 1961	1	15.8	10.8						
MNHN Z 1961	1	18.0	10.6						
MNHN Z 1961	1	17.1	10.9						
MNHN Z 1961	r	17.3	11.6						
MNHN Z 1961	r	>18.4	8.9	>11.6	>11.4				
MNHN Z 1961	1	—	+12.3						
MNHN —	r	—	10.5						
<u>Kubanochoerus minheensis</u>									
Guangha									
BMH —	r	16.9	9.9						
<u>Kubanochoerus gigas</u>									
Chinjī Fm bought material									
IVAU CH 262	1	25.6	15.1						
<u>Bunolistriodon anchidens</u>									
Rusinga R3									
KNM-RU 5847	1	12.2	8.8						
Rusinga R3a									
KNM-RU 5846	r	11.7	7.9	9.4	10.5				
Rusinga									
KNM-RU 8318	r	12.5	8.8						
KNM-RU 4363	1	12.2	8.7	>9.7	>10.2				
Rusinga? R1?									
KNM-X 119	1	>10	8.1						
<u>Bunolistriodon aff. latidens</u>									
La Artesilla									
MPZ 6424	1	13.1	7.5						
MPZ 6425	1	12.6	6.6						
Moratines									
MNHN —	r	>12.3	6.3						
Armantes I									
IVAU 41/537	r	>12.6	6.6						
Munébrega III									
IVAU 53/59	1	10.3	5.9	..	10.4				
<u>Bunolistriodon lockharti</u>									
Pellecahus									
NMB GB 2456	1	15.1	7.6						
La Romieu									
UCBL 320270	r	14.7	8.2						
UCBL 320270	1	14.6	8.3						
UCBL 320270	r	13.5	7.8						
UCBL 320270	1	14.1	>7.8						
Baigneaux									
NMB SO-6105	r	16.6	7.5						
Gerlenhofen									
SMNS — cast	1	17.5	8.8						
Engelswies									
NMB TD 1102	1	13.0	7.6						
Pontelevo									
MNHN FP 222	r	17.8	10.2						
MNHN FP 223	r	17.9	9.6	11.7	>14.9				
MNHN FP 1031	r	>15.1	8.5						
MNHN FP 1032	1	17.8	10.2						
<u>Bunolistriodon akatikubas</u>									
Majiwa									
KNM-MJ 9774	r	16.9	9.2	>9.6	>9.7				
Maboko									
KNM-MB 10366	1	16.2	8.6	>10.2	>11.3				
KNM-MB 19416	1	16.5	7.3						
KNM-MB 14419	r	>15.1	>8.0						
KNM-MB 19713	r	20.7	10.5	11.5	14.4				
<u>Bunolistriodon guptai</u>									
?Shali Nala									
IM B 704	r	16.1	8.7	10.3	11.8				
Loc.?									
IM K 13/774	1	13.4	8.5	10.1	12.7				
IM K 13/768	1	12.4	6.8	>8.4	>10.1				
<u>Listriodon pentapotamiae</u>									
Dhok Talian 189									
GSP 4530	1	14.6	7.8						
GSP 4472	r	15.8	7.1						
GSP 4474	r	—	—						
Chari Gambhir									
BSPHGM 1378-81	1	14.4	6.8						
BSPHGM 1379-81	1	17.0	7.2						
BSPHGM 1379-81	r	14.7	6.5						
BSPHGM 1379-81	r	13.9	7.4						
Kalinal									
BSPHGM 3611 - 12	1	—	6.3						
Son Nala									
IVAU GHS —	r	12.3	7.1	7.2	9.5				
<u>Listriodon splendens</u>									
Inbri I									
MTA AKI 3/579	r	12.2	6.1						
MTA AKI 3/580	r	13.3	7.1						
Eichkogel									
NMW SK 1614	r	18.4	8.6						
Çandır									
MTA AÇHU 838	1	15.4	7.0						
MTA UÇHU 1108	1	17.4	8.6	10.2	12.6				
Arroyo del Val IV									
IVAU AR IV 78	r	18.4	8.8	10.6	12.4				
IVAU AR IV 79	r	15.6	8.5						
IVAU AR IV 83	1	17.9	>8.5						
IVAU AR IV 394	r	—	—						
IVAU AR IV 485	1	—	—						
IPS 1293									
IPS 1293	1	>16.6	8.3						
MPZ AV-35	1	12.0	7.0						
MPZ AV-43 (2)	r	16.8	9.9						
MPZ AV-46 (1)	1	16.6	8.0	8.6	10.9				
MPZ AV-47	r	15.0	7.3						
Arroyo del Val VI									
IVAU AR VI 14	1	18.5	8.5						
IVAU AR VI 16	r	18.1	8.3						
Sarıçay									
MTA —	r	—	>8.2						
Torral									
OCL —	1	15.0	7.9						
La Grive oc									
NMB GA 468	r	>16.8	7.8						
NMB GA 469	r	14.4	7.1						
NMB GA 470	r	>16.1	7.1						
Cerro del Otero									
MNHN NM 18026	r	19.1	>9.1						
MNHN NM 18027	1	18.5	9.5	10.1	13.7				
Sant Quirze									
IPS VP 1021	1	17.1	8.8						
Castell de Barberà									
IPS 1960	1	16.6	7.7						
IPS 1963	1	>16.3	7.5						
IPS —	r	>14.2	7.9						
Hostalet									
MCSGB 48510	r	15.7	7.6						
IPS 1076	1	—	—						
IPS VP 314	r	16.5	7.0						
CJFV —	r	18.3	8.6	10.5	14.6				
<u>IM2</u>									
<u>Bunolistriodon M</u>									
?Paşalar									
PDITFAU DT	r	8.1	3.5						
<u>Listriodon pentapotamiae</u>									
Kadirpur									
BSPHGM 1956II98	1	10.9	6.4						
<u>Listriodon splendens</u>									
?Paşalar									
PDITFAU C323	1	10.2	4.5	>5.9	>6.4				
PDITFAU C15	r	10.1	4.2						
PDITFAU C15	r	10.4	4.5						
PDITFAU ET	1	9.9	4.4						
La Grive oc									
MCL LGr 1493	r	11.7	+8.9						
Sant Quirze									
CJFV Squ 4291	r	11.2	5.1	5.8	5.1				
<u>I3</u>									
<u>Nguruwe kijivium</u>									
Mwanganu									
KNM-MW 560	1	5.8	3.6	6.1	6.1				
<u>Lopholistriodon akatidogus</u>									
Majiwa									
KNM-MJ 9777	r	10.0	4.4						
<u>Lopholistriodon kidogosana</u>									
Ngorora B5, 2/1									
KNM-BN 1162	r	7.5	4.3						
Ngorora B5, 2/56									
KNM-BN 842	1	7.4	3.7						
<u>Kubanochoerus khinzikebirus</u>									
Maboko									
KNM-MB 932	1	>24.3	17.4						
<u>Kubanochoerus massai</u>									
Gebel Zelten									
MNHN Z 1961	r	20.1	11.5	15.3	18.1				
MNHN Z 1961	1	20.7	10.8	>15.1	>17.2				
MNHN Z 1961	1	>16.0	9.4						
<u>Bunolistriodon latidens</u>									
Inbri I									
MTA AKI-3/49	1	18.5	9.2						
MTA AKI-3/50	r	18.3	8.1						

MTA AKI-3/162	r	15.8	7.6		
<u>Listriodon splendens</u>					
Arroyo del Val VI					
IVAU AR VI 15	r	14.5	6.1		
Castell de Barberà					
IPS —	1	>13.8	6.3		
IPS —	1	15.1	5.8		
Hostalets					
IPS VP 764	1	14.6	6.6		
GM	DAP	DF	Ri	Ro	
<u>Nguruwe kijivium</u>					
Songhor					
KNM-SO 1052	r	11.7	9.7		
KNM-SO 4974	1	—	9.6		
<u>Lopholistriodon moruoroti</u>					
Maboko					
KNM-MB 141	r	10.8	9.7		
KNM-MB 142	1	9.4	6.9		
KNM-MB 143	r	..	..
KNM-MB 877	r	11.6	9.8		
<u>Lopholistriodon pickfordi</u>					
Majiwa					
KNM-MJ 9779	r?	12.5	11.1		
<u>Lopholistriodon akatidogus</u>					
Maboko					
KNM-MB 19518	r	18.0	14.2		
Majiwa					
KNM-MJ 9788	r?	16.7	14.9		
<u>Kubanochoerus massai</u>					
Gebel Zelten					
MNHNP Z 1961	r	+31.7	+33.0	35	55
MNHNP Z 1961	r	34.7	29.9		
<u>Kubanochoerus gigas</u>					
Quantougou					
IVPP cast type	1	+29.0	+25.4		
Maerzuizigou					
EMNH BPV-921	r	38.6	39.1	130	150
<u>Bunolistriodon anchidens</u>					
Rusinga					
KNM-RU 952	r	18.1	16.2		
<u>Bunolistriodon aff. latidens</u>					
Quinta da Raposa					
ML 5547	..	29.8	35.6		
C. do Covão					
ML —	..	30.0	33.5		
Quinta Grande					
ML 5544	..	26.1	28.2		
Olival da Suzana					
CEPUNL 25	1	26.7	31.7	65	90
CEPUNL 26	r	21.6	26.5	65	70
C. da Conceição					
ML 5549	r	28.0	33.0		
Quinta da Farinheira					
CEPUNL —	r	24.6	30.5		
La Artesilla					
MPZ 6427	1	20.5	22.0		
<u>Bunolistriodon latidens</u>					
Veltheim					
NSSW 113	1	31.5	34.7	70	80
<u>Bunolistriodon M</u>					
Paçalar					
PDIFAU G114	r	30.7	36.6		
PDIFAU G987	1	32.2	40.4		
Çandir					
PIMUZ CA V/21	r	49.3	40.6	120-130	165
<u>Bunolistriodon lockharti</u>					
Chevilly					
MNHNP CHE 31	1	—	29.1	30	+50
MNHNP CHE 32	r	31.6	26.6	25	50
MNHNP CHE 68	r	27.2	27.9	25	50
Chevilly?					
MSNO 231	r	24.0	26.5	35	50
La Romieu					
UCBL 320281	r	26.1	26.3		
UCBL 320303	r	25.0	22.1		
UCBL 320303	r	>23.3	>28.0		
Pellechaus					
NMB GB 1381	1	24.8	26.8	80	60
Baigneaux					
NMB 90-3022	r	25.9	27.2	50	60
Buñol					
IVAU —	r	26.1	31.0		
MPV FBB-217	r	>25.2	>18.9		
IPS 1148	1	31.4	30.6		
—	1	32.5	29.8		
MPV FB 52	1	30.7	29.8		
MPV FB 53	1	—	28.2		
Langenau I					
SMNS 41228	1	..	..
Pontlevoy					
MNHNP FP 224	?	—	—		
MNHNP FP 225	1	29.2	32.0		
MNHNP FP 739	r	30.7	31.7	40	60
MNHNP FP 1155	1	—	>30.1		
MNHNP FP 1156	r	—	>32.4		
Ravensburg					
NMB TD 545	r	28.2	32.4	35-50	60-70
HLD TD 546 cast	1	>24.5	30.5	70	90
Tavers					
COBO —	r	25.9	29.1	50	60
<u>Listriodon pentapotamiae</u>					
Chinji 26					
GSP 431	r	18.4	24.6		
Chinji 40					
GSP 860	..	—	—		
Chinji 54					
GSP 979	1	21.3	20.4		
Chinji 83					
GSP 2022	1	19.6	21.9		
Kanatti Chak 8					
BSPHGM 1956II82	r	22.5	18.5		
Chari Gambhir					
BSPHGM 1956II80	r	—	23.5		
Bhurriwala					
BSPHGM 1956II84	r	19.8	22.8		
Kanatti Chak 7					
BSPHGM 1956II79	1	19.7	19.9	15	30
Kagdawala					
BSPHGM 1956II83	r	22.5	>19.3		
BSPHGM 1956II85	1	—	>22.0		
Kalinal					
BSPHGM 1956II81	1	17.9	19.6		
Kadirpur					
BSPHGM 1956II78	1	24.8	24.6		
IVAU CHD 26	1	—	—		
Chinji					
IM B 549	1	24.5	23.5		
HGSP 8218					
HGSP 8218/....	..	26.3	26.9	30	60
HGSP 8415					
HGSP 8415/3269	r	—	—		
HGSP 8427					
HGSP 8427/3632	1	30.0	31.5	20	40
HGSP 8427/3692	r	24.9	26.6	40	70
<u>Listriodon splendens</u>					
Sansan					
MNHNP Sa 4317	..	21.0	28.5		
Klein Hadersdorf (Mattner)					
IPUW 18 IX 15	1	26.8	27.7	25	40
IPUW 18 IX 15	1	24.2	25.9	18	40
Simorre					
MNHNP S1 157	1	25.7	25.3	35	55
MNHNP S1 158	1	>17.4	>22.3		
MNHNP S1 159	1	—	29.5	45	80
MNHNP S1 160	r	—	29.4	35	—
Eichkogel					
NMW SK 1614	1	37.2	42.6	85	100
NMW SK 1614	r	38.1	43.5	80	100
Çandir					
MTA CA 1/2	r	28.2	24.2	28	55
MTA ACH 989	..	—	—		
Inñali I					
MTA AKI-3/325	r	32.6	41.1	30-35	80
MTA AKI-3/327	r	31.9	36.0		
MTA AKI-3/332	r	27.7	34.0		
MTA AKI-3/588	1	31.2	28.5	40	55
MTA AKI-3/772	r	—	—		
Manchones I					
IPS 1101	1	24.4	22.0		
Manchones II					
IVAU MA II —	r	..	..
Arroyo del Val IV					
IVAU AR IV 57	1	—	26.1	25	—
IVAU AR IV 60	1	26.2	30.3	50	65
IVAU AR IV 63	1	..	..	15	>40
IVAU AR IV 64	r	30.5	32.3	25	50
IVAU AR IV 77	1	—	32.4	20	—
IVAU AR IV 119	1	—	—		
IVAU AR IV 120	1	—	—		
IVAU AR IV 398	r	30.4	27.4		
RGM 262.972	r	30.0	32.7	25	55
RGM 263.016	r	>21.0	>24.2		
RGM 263.162	1	31.0	31.3	35	60
MPZ AV-21	1	29.7	33.2		

MPZ AV-35	1	—	32.9						
Steinheim									
SNNS 20222	r	—	—						
Jablonica									
HGSB Ob-868	.	—	37.3						
Mauer									
NMW SK 1776	1	35.7	37.9	55	—				
Bonnefont									
MNHNP HGF 46	1	43.3	41.3	70-80	120				
MNHNP HGF 64	1	—	—	—	—				
La Grive oc									
UCBL —	1	26.7	30.5						
MGL LGr 716	1	42.6	40.7	70	100				
MGL LGr 717	1	32.5	36.6	40	65				
MGL LGr 728	1	38.7	37.4	130	..				
MGL LGr 729	1	—	—						
MGL LGr 730	?	—	—						
MGL LGr 1660	r	34.0	33.1	50	85				
La Chaun-de-Fonds									
MHNCF 14	r	41.9	44.3	70	80				
MHNCF 45	r	42.3	43.2	90?	100				
MHNCF 48	1	24.2	26.3	25	45				
MHNCF —	r	—	42.5						
MHNCF — 2l fragments									
Locle									
LN —	r	38.8	36.9	60	100				
Lac Morat									
MHNCF —	r	>41.1	—						
Massenhausen									
BSPHGM 1950I34b	r	>35.9	36.9	60	—				
BSPHGM 1951 I 3d	r	37.6	39.8	60	80				
BSPHGM 1956I135	r	39.4	38.3	55	65				
BSPHGM 1957I218	r	36.4	>43.2	50	75				
Wartenberg									
BSPHGM 1953I555	r	—	—						
BSPHGM 1957I194	1	24.4	27.0	25	55				
BSPHGM 1958I34	r	25.4	28.9	45	70				
Kleineisenach									
BSPHGM —	r	>31.5	—	50	—				
Esselborn									
HLD Din 40	1	26.3	29.9	30	55				
Wissberg									
HLD Din 39	r	—	25.4						
NMM 1930/375	1	37.4	32.0	40-70	70				
Tri sur Brise									
MNHNP cast	1	35.7	34.4	100	130				
Cerro del Otero									
MNHN NM 18004	r	29.3	28.5						
MNHN NM 18005	r	—	—						
MNHN NM 18009	1	39.2	38.6	75	110				
Sant Quirze									
IPS 1674	..	54.0	44.0						
MGSCB 48578	1	37.9	39.9						
MGSCB 48579	1	>37.5	40.1	85	110				
MGSCB 48580	1	45.7	47.2	140	80-120				
MGSCB 48581	r	40.3	41.8	80-120	120-160				
MGSCB 48582	r	41.0	32.0	70-140	90-130				
ITCE 407M	1	tip							
Hostalet									
MGSCB 48511	1	49.7	45.8	..	+125				
MGSCB 48512	1	41.4	45.7	50	85				
MGSCB 48513	1	45.1	44.8	85	100				
MGSCB 48514	r	37.9	38.1	65	105				
MGSCB 48517 tip	r	>20.3	>19.6						
MGSCB 48518	r	tip							
IPS 1035	..	>46	..						
IPS 1041	..	>39.7	..						
IPS 1043	..	—	46.1						
"Leithagebirge"									
NMW 1862IIII14	r	37.5	41.3	70	90				
Cf									
<u>Nguruwe kijivium</u>		DAP	DI	Hli	Hla				
Songhor									
KNM-SO 9912	r	>8.0	5.9						
<u>Bunolistriodon anchidens</u>									
Rusinga									
Kathwanga									
KNM-RU 1911	r	+12.3	+9.1						
<u>Bunolistriodon aff. latidens</u>									
La Artesilla									
MPZ 6428	1	13.5	9.5						
MPZ 6429	1	12.9	9.2						
Munébrega I									
IVAU 55/1094	r	13.4	10.4						
<u>Bunolistriodon M</u>									
Paşalar									
PDITFAU D37	1	15.2	12.1	22.0	..				
PDITFAU D37	1	+15.5	+12.0						
PDITFAU D1131	r	14.8	12.1	22.8	..				
PDITFAU G319	r	14.2	10.2	14.6	..				
<u>Bunolistriodon lockharti</u>									
Bañol									
MPV FBB-218	1	>14.0	10.0						
<u>Bunolistriodon akatikuibas</u>									
Maboko									
KNM-MB 126	r	16.8	11.0						
<u>Listriodon splendens</u>									
Paşalar									
PDIMZ —	1	12.8	7.9						
Arroyo del Val IV									
IVAU AR IV 470	r	14.4	>9.8						
DC ^k		DAP	DI						
<u>Bunolistriodon lockharti</u>									
Pellecahus									
?NMB GB 1395	r	6.0	3.3						
p1		DAP	DIa	DIp	Hla				
<u>Nguruwe kijivium</u>									
Songhor									
KNM-SO 4975	r	>4.8	—	3.6					
KNM-SO 8289	1	6.1	3.8	3.8	>4.3				
KNM-SO 9912	r	5.1	3.6	4.0					
<u>Bunolistriodon anchidens</u>									
Rusinga Rl									
KNM-RU 5843	r	12.8	6.4	6.8	6.3				
KNM-RU 5844	1	11.2	5.7	5.4	6.5				
<u>Bunolistriodon aff. latidens</u>									
La Artesilla									
MPZ 6463	1	7.2	3.8	3.7	4.9				
<u>Listriodon splendens/Bunolistriodon M</u>									
Paşalar									
PDITFAU G1746	1	11.5	6.6	7.9	6.2				
<u>Listriodon pentapotamiae</u>									
Kadirpur									
BSPHGM 750-753	r	8.9	5.7	4.6					
p2		DAP	DIa	DIp	Hla				
<u>Nguruwe kijivium</u>									
Songhor									
KNM-SO 4978	r	10.6	4.8	6.6	8.8				
<u>Kubanochoerus maryammungui</u>									
Buluk									
KNM-SO 12588	r	30.3	18.6	19.7	21.2				
<u>Kubanochoerus massai</u>									
Gebel Zelten									
MNHNP Z 1961	r	25.4	15.3	16.1	17.7				
MNHNP Z 1961	1	>23.2	13.5	15.9					
MNHNP Z 1961	r	25.0	13.2	17.3	16.5				
MNHNP Z 1961	1	23.6	13.1	16.0	18.5				
MNHNP Z 1961	1	25.0	13.8	14.1	18.2				
<u>Kubanochoerus gigas</u>									
Chinjji Fm.									
bought spec.									
FISFSMF/PA/F6168	r	32.0	16.6	22.8	24.6				
<u>Bunolistriodon anchidens</u>									
Rusinga AWL26									
KNM-RU 5870	r	>17.4	9.3	11.9					
<u>Bunolistriodon aff. latidens</u>									
La Artesilla									
MPZ 6462	r	15.8	10.0	11.3	10.3				
MPZ 6464	1	15.3	8.8	—					
<u>Bunolistriodon M</u>									
Paşalar									
PDITFAU BT1	r	—	8.5	10.4	+8.4				
PDITFAU C	r	13.6	7.6	—					
PDITFAU CT1	1	12.5	7.6	10.3	7.8				
PDITFAU CI1	r	14.1	7.9	12.7	9.4				
PDITFAU F514	r	10.7	6.2	9.1	7.2				
PDITFAU G613	1	10.8	6.3	8.9	7.1				
PDITFAU G1063.1	r	11.7	6.9	>9.8	7.0				
PDITFAU G1200	r	13.7	7.9	11.7	9.2				
<u>Bunolistriodon lockharti</u>									
Pellecahus									
NMB GB 1380	r	17.1	10.2	12.3					
La Romieu									
UCBL 320269	1	16.5	9.4	12.5					
Baigneaux									
NMB SO-5992	1	16.5	10.7	13.8					
Langenenschlingen									
NMB TD 821 cast	r	18.4	11.3	14.1					
NMB TD 824 cast	1	17.2	>11.1	>13.9					
<u>Bunolistriodon akatikuibas</u>									
Mbagathi									
KNM-MG 41	1	15.9	10.4	>12.0	12.1				

<u>Listriodon pentapotamiae</u>						<u>Bunolistriodon lockharti</u>					
Dhulian 302						Pellecahus					
GSP 10018	1	>12.2	7.9	10.3		UCBL 320293	r	12.5	5.8	6.3	
Mochi Wala						<u>Listriodon splendens</u>					
IVAU CHO 95	1	13.5	8.6	10.9	11.1	Pasalar					
Marianwala Kas						PDITFAU D450	1	>13.3	6.9	9.0	
BSPHGM 1674	r	16.9	9.2	11.5		PDITFAU E89.21	r	11.8	5.9	6.8	6.9
Kanatti Chak 8						PDITFAU E89.22	1	—	6.5	—	
BSPHGM 1956II120	r	12.9	7.6	10.4		PDITFAU F361	1	13.4	6.6	7.5	
Chinji Fm.						PDITFAU F450.1	r	13.5	6.5	8.2	7.6
bought spec.						PDITFAU G16	1	>13.0	7.7	9.4	
IVAU CH-45	r	12.7	7.6	9.4	8.8	PDITFAU G181	r	11.6	6.1	7.2	6.4
<u>Listriodon splendens</u>						PDITFAU G185	r	12.5	6.1	7.6	>6.6
Pasalar						PDITFAU G195.1	1	—	6.4	7.6	
PDITFAU A133	r	16.3	8.7	10.6	11.3	PDITFAU G637	1	—	6.9	7.2	
PDITFAU C284	r	13.5	7.4	9.6	10.2	PDITFAU G1067	1	>13.7	6.8	7.6	7.8
PDITFAU CT193	1	—	8.8	11.6		PDITFAU G1770.5	r	14.0	5.8	8.2	
PDITFAU CT1	1	15.0	9.6	11.4	10.9	Arroyo del Val IV					
PDITFAU CT1	1	—	8.5	11.3		IVAU AR IV 14	1	—	—	8.1	
PDITFAU CT1	1	—	8.9	11.3		IVAU AR IV 364	r	12.8	6.7	8.4	
PDITFAU CT1	r	—	7.9	—		Castell de Barberà					
PDITFAU CT1	1	13.9	9.0	—		IPS —	1	>11.4	5.3	6.9	
PDITFAU D995	r	13.3	8.3	11.5	10.6	Hostalets					
PDITFAU E392	r	14.7	8.7	10.6	10.4	CJFV —	1	14.4	7.0	9.4	7.8
PDITFAU ET1	1	>14.1	9.5	11.0		CJFV —	r	14.0	7.0	<10.2	
PDITFAU ET1	r	—	9.1	9.7		p3					
PDITFAU ET1	1	13.5	8.1	11.5		DAP DLa Dtp HLa					
PDITFAU F392	1	—	—	11.7		<u>Lopholistriodon akatidogus</u>					
PDITFAU G1740	r	16.1	9.5	11.6		Beni Mellal					
PDITFAU G1741.2	r	15.4	9.3	11.0		KNM-ZP 1398 cast 1	12.5	7.2	10.6		
PDITFAU G1955	1	—	8.0	11.4		<u>Lopholistriodon kidogosana</u>					
PDITFAU G2065	1	13.7	9.5	11.5		Ngorora					
PIMUZ BP-217 cast	1	>17.3	8.6	9.6		KNM-BN 1475	r	9.2	5.7	>9.1	
Manchones I						KNM-BN 12892	1	9.4	6.7	9.6	
IVAU MA I —	1	—	8.9	>9.4		Ngorora B					
Arroyo del Val IV						KNM-BN 1712	1	9.3	5.8	9.1	
IVAU AR IV 33	r	16.8	10.2	14.4		<u>Kubanochoerus maryunngui</u>					
IVAU AR IV 41	1	15.9	10.0	14.2		Buluk					
La Grive oc						KNM-WS 12656	1	—	19.5	—	
UCBL 65620	1	15.6	..	13.3		<u>Kubanochoerus massai</u>					
MGL LGr 722	1	13.2	7.8	10.2		Gebel Zelten					
MGL LGr 1608	1	17.4	8.6	13.2		MNHNP Z 1961	r	26.2	15.6	>18.5	22.0
MGL —	r	13.0	7.8	10.5	8.1	MNHNP Z 1961	1	25.0	16.9	19.5	21.6
La Chaux-de-Fonds						MNHNP Z 1961	1	—	—	—	—
MHNCF 4	1	15.1	8.8	12.6	9.8	<u>Bunolistriodon anchidens</u>					
Neudorf Sandberg						Rusinga-Gumba					
NMW 1945/75	1	>12.8	8.9	11.3		KNM-RU 977	r	18.9	10.9	13.4	15.7
Lower Sinap						Rusinga					
MTA —	1	15.3	9.3	13.3		KNM-RU 8303	1	18.3	11.2	13.8	16.3
Cerro del Otero						<u>Bunolistriodon aff. latidens</u>					
MNQN NM 18023	r	>15.3	10.0	13.9		La Artesilla					
Sant Quirze						MPZ 6455	1	>15.6	..	>12.1	
CJFV SQu 5435	1	15.8	9.8	12.7		MPZ 6456	1	16.4	..	13.9	
Hostalets						MPZ 6458	1	16.8	10.8	13.9	
IPS 1092	r	16.0	..	14.5	+10.0	Armantes I					
IPS 1093	1	16.0	..	>13.1	10.8	IVAU 41/518	r	16.4	9.5	>15.1	
IPS 1094	1	14.6	..	14.0		IVAU 41/519	r	15.2	10.2	13.3	
IPS 1109	r	14.5	..	13.5	>9.3	Munébrega II					
IPS —	1	17.0	..	14.3		IVAU 52/103	1	—	—	>13.7	
CJFV —	1	14.5	..	14.6		<u>Bunolistriodon latidens</u>					
d2						InBnl I					
<u>Nguruwe kijivium</u>						MTA AKI-3/577	r	14.8	9.4	14.3	
Songhor						<u>Bunolistriodon M</u>					
KNM-SO 5408	1	7.5	3.4	3.8		Pasalar					
Kirimon						PIMUZ BP-176	r	18.3	10.7	14.7	
KNM-KI 18065	r	8.6	3.2	3.6		PDITFAU CT1	r	15.9	9.4	14.1	11.6
<u>Kubanochoerus maryunngui</u>						PDITFAU CT1	r	16.4	9.7	14.1	11.6
Baragoi						PDITFAU E396	r	17.0	9.0	14.5	12.2
KNM-BG 17868	1	—	—	13.2		PDITFAU ET1	1	16.5	9.5	14.7	+12.3
<u>Kubanochoerus massai</u>						PDITFAU ET1	1	15.1	8.8	13.3	
Gebel Zelten						PDITFAU ET1	1	14.2	8.2	12.8	10.5
MNHNP Z 1961	1	21.0	9.0	10.6	11.0	PDITFAU F80	1	17.2	10.0	14.0	11.6
<u>Kubanochoerus gigas</u>						PDITFAU F403	r	15.1	9.4	13.0	
Kundali Nali						PDITFAU F410.1	r	—	9.7	—	
IVAU CHK 120	1	—	—	13.6		PDITFAU F417	r	14.7	8.3	—	
<u>Bunolistriodon anchidens</u>						PDITFAU F27823	1	—	—	13.1	
Rusinga R1						PDITFAU G90	1	16.7	9.1	>12.1	9.8
KNM-RU 9785	r	>15.0	7.5	8.0	8.7	PDITFAU G312	r	15.6	8.6	12.0	
<u>Bunolistriodon aff. latidens</u>						PDITFAU G1130	r	15.5	8.4	12.6	10.6
La Artesilla						PDITFAU G1368	1	14.8	8.3	14.3	
MPZ 6446	1	12.9	6.6	7.9	8.0	<u>Bunolistriodon lockharti</u>					
<u>Bunolistriodon M</u>						Pellecahus					
Pasalar						NMB GB 2451	1	19.0	12.6	17.3	
PDITFAU DT1	r	10.4	5.1	5.3		NMB GB 1376	r	18.9	12.4	17.0	
PDITFAU ET1	r	—	5.2	6.1		NMB GB 1379	1	—	—	—	
PDITFAU F450	1	>12.0	5.8	7.3		La Romieu					
PDITFAU G687	1	>10.3	5.2	6.2		UCBL 320299	r	17.0	..	16.2	
						Baigneaux					

NMB SO-6489	1	16.5	11.8	15.3	
NMB SO-6738	r	16.5	11.3	15.2	
NMB —	r	16.9	12.6	15.9	
Gerlenhofen					
SMNS 14953d	1	19.0	..	17.4	
FMNH cast	1	17.7	12.0	16.2	
Engelswies					
NMB TD 819 cast	r	17.0	11.2	15.1	
PontLevoy					
MNHNP FP 1034	r	18.2	11.9	16.8	15.4
Tavers					
COBO —	1	17.8	12.3	17.6	
Ravensburg					
NMB TD 1074	r	>17.2	12.2	15.0	
<u>Listriodon pentapotamiae</u>					
Dhok Talian 189					
GSP 4415	r	16.1	10.1	13.4	
GSP 4429	1	16.9	9.6	12.7	12.4
Cheskwala					
BSPHGM 1956III117	r	16.1	10.7	13.2	
Burriwala					
IVAU CHB 65	1	17.1	—	—	11.7
Bhurriwala					
BSPHGM 1956II174	r	15.4	9.8	14.3	
BSPHGM 2627	r	>17.6	11.3	—	
Bhurriwala 2					
BSPHGM 1956III118	r	15.9	10.2	14.3	
BSPHGM 235	r	15.7	10.9	15.7	
Marianwala Kas					
BSPHGM 1956II173	r	>13.7	8.6	13.0	
Sosiarwali					
BSPHGM 1956III119	1	15.8	10.7	15.8	
Kundal Nala 1					
BSPHGM 412	1	13.0	9.4	12.1	
<u>Listriodon splendens</u>					
Simorre					
MNHNP Si 163	1	17.6	11.3	15.1	
InBnd I					
MTA AKI 3/454	r	17.1	10.9	16.7	
Paqalar					
PDITFAU BT1	r	17.9	11.6	17.7	15.1
PDITFAU BT1	r	15.5	10.2	14.6	12.2
PDITFAU BT1	1	16.4	10.3	15.1	
PDITFAU CT1	1	16.5	10.0	14.0	11.8
PDITFAU CT1	1	15.9	10.4	13.4	
PDITFAU CT1	r	16.0	10.4	13.4	
PDITFAU CT1	r	—	9.8	15.0	
PDITFAU D601	1	17.5	11.5	15.1	13.9
PDITFAU D680	r	14.9	10.9	12.6	
PDITFAU E122	1	15.7	11.7	15.5	
PDITFAU E767	r	17.2	11.6	>15.9	
PDITFAU ET1	r	15.0	10.3	13.9	12.3
PDITFAU ET1	1	17.1	10.2	16.0	14.6
PDITFAU ET1	r	14.6	9.5	12.3	
PDITFAU ET1	r	15.9	10.9	14.7	13.1
PDITFAU F507	1	17.1	12.7	17.4	
PDITFAU G147	r	—	—	—	
PDITFAU G438.6	1	17.0	10.9	14.6	
PDITFAU G448	r	16.5	11.5	15.1	
PDITFAU G929	r	16.3	10.3	14.6	12.2
PDITFAU G959	1	>15.2	>10.7	>12.4	
PDITFAU G1666	r	16.3	11.5	15.9	14.8
PDITFAU G1689.1	1	17.8	12.1	15.9	
PDITFAU G1689.3	1	15.7	9.2	14.1	
PDITFAU G1741.2	r	—	—	14.1	
PDITFAU G1748.7	r	16.2	—	—	
PDITFAU G1924.1	r	17.4	11.7	16.8	
PDITFAU G1924.2	r	16.1	11.4	15.4	
PDITFAU G6601	r	16.0	9.7	15.2	
PDITFAU —	1	15.9	10.1	14.9	12.1
PIMUZ BP156 cast	r	16.4	10.1	13.7	
PIMUZ BP388 cast	r	16.0	10.3	14.3	
Çandır					
MTA AÇH 594	1	16.5	10.9	14.7	
MTA UÇHÜ 749	1	18.8	11.9	16.7	
Manchones I					
IVAU MA 114	1	17.1	11.1	15.0	
IVAU MA 116	1	16.9	10.3	—	
Arroyo del Val IV					
IVAU AR IV 29	r	20.3	12.0	19.1	
IVAU AR IV 32	r	17.5	11.1	16.1	
IVAU AR IV 37	r	21.0	11.7	19.5	
IVAU AR IV 38	r	19.6	11.7	19.1	
IVAU AR IV 59	1	18.4	11.6	18.3	
IVAU AR IV 69	r	>15.9	—	13.7	
IVAU AR IV 124	r	>17.0	—	>14.6	
IVAU AR IV 126	r	16.2	10.1	—	
IVAU AR IV 485	..	—	—	—	
IVAU AR IV 485	1	—	—	—	
IVAU AR IV 485	1	—	—	—	
IPS AR IV 28	1	20.4	..	19.3	
IPS AR IV 31	1	16.6	..	16.5	
Sarıçay					
MTA —	r	18.2	11.8	15.9	
Lower Sinap					
MTA —	1	17.9	10.7	16.8	
Torril					
OCL —	1	>16.4	..	>15.0	
La Grive oc					
IGF 296	1	15.5	..	14.9	
IGF 296	r	15.1	..	14.6	
UCBL 65620	1	16.1	..	15.2	
UCBL 65620	r	17.0	..	16.0	
MGL LGr 746	r	19.3	10.8	17.8	
MGL LGr 1609	1	16.0	9.1	16.2	
Neudorf Sandberg					
NMW 1909/14	r	18.0	11.8	15.9	
Sant Quirze					
MGSCB 48845	r	17.9	10.3	17.2	
MGSCB 48925	r	17.2	11.6	17.1	
MGSCB 48927	r	—	—	—	
MGSCB 48928	1	—	—	+18.2	
MGSCB —	1	17.2	9.9	>15.3	
CJFV SQu 5436	r	18.2	11.4	17.4	
St. Gaudens?					
MNHNP —	1	16.0	11.7	15.3	
Hostalets					
MGSCB 48491	r	>15.7	10.0	15.7	
IPS 1089	r	15.6	..	16.2	
IPS 1090	1	15.7	..	16.0	
IPS 1095	r	18.0	..	17.5	16.3
IPS H 215	r	16.5	..	16.5	
IPS —	1	17.9	..	18.1	
CJFV 4331	1	16.7	10.7	16.7	
CJFV —	1	16.4	..	16.6	
CJFV —	r	20.2	13.4	18.4	
Wartenberg					
BSPHGM 1953I388	r	17.1	10.5	16.0	
<u>D3</u>					
<u>Nguruwe kijivium</u>					
Songhor					
KNM-SO 1120	r	—	5.1	7.1	
<u>Bunolistriodon M</u>					
Paqalar					
PDITFAU D210.14	1	—	—	11.3	
PDITFAU G249	1	16.1	8.0	11.9	
PDITFAU G758	1	15.8	6.7	11.1	
<u>Listriodon pentapotamiae</u>					
Kali Nachi					
IVAU CN 44	1	15.3	7.9	11.9	
<u>Listriodon splendens</u>					
Paqalar					
PDITFAU C280.26	1	16.5	9.0	12.8	
PDITFAU C280.28	r	—	—	13.0	
PDITFAU C280.37	r	14.9	8.9	12.1	
PDITFAU D210.15	r	—	—	12.2	
PDITFAU E89.20	r	—	—	12.8	
PDITFAU E217	r	16.2	8.4	12.5	
PDITFAU E653	r	16.4	8.7	13.7	
PDITFAU G621.3	1	—	—	13.0	
PDITFAU —	1	—	8.6	13.1	
PDITFAU —	r	—	8.1	—	
PIMUZ BP-343	r	15.7	8.3	12.3	
La Grive oc					
MGL LGr 1619	1	15.9	8.5	11.9	
MGL LGr 1621	1	16.1	8.8	12.5	
IPS —	1	16.0	8.9	12.9	
IPS —	1	—	—	11.8	
NMB GA 2825	1	—	—	>12.5	
Sant Quirze					
CJFV —	r	—	9.3	—	
<u>P4</u>					
<u>Nguruwe kijivium</u>					
Rusinga (loc. ?)					
KNM-RU 3030	1	8.2	8.5		
Songhor					
KNM-SO 1131	r	7.8	9.7		
<u>Lopholistriodon moruoroti</u>					
Maboko					
KNM-MB 14485	1	6.6	7.3		
<u>Lopholistriodon akatidogus</u>					
Fort Ternan					
KNM-Fr 3320	1	13.1	13.6	>8.5	
<u>Lopholistriodon kidogosana</u>					

Ngorora B, 2/56				<u>Bunolistriodon intermedius</u>			
KNM-BN 1473	1	9.0	9.6	5.6	Gujla Zhuang		
KNM-BN 1474	r	9.9	10.5		IVPP V 9524	r	15.4 18.1
KNM-BN 1708	r	9.3	9.7		<u>Bunolistriodon akatikubae</u>		
KNM-BN 1710	r	9.0	9.3		Mbagathi		
<u>Kubanochoerus massai</u>					KNM-MG 5	r	16.9 18.3 13.8
Gebel Zelten					<u>Listriodon pentapotamiae</u>		
MNHNP Z 1961	1	20.4	23.6	20.2	N Mallar Dhok		
MNHNP Z 1961	r	20.0	22.3		IM B 699	1	12.9 15.3 10.1
MNHNP Z 1961	r	19.8	22.3		Kanatti		
MNHNP Z 1961	1	>19.6	—		IVAU KA 82	1	14.5 17.2
MNHNP Z 1961	r	21.6	23.4	19.7	Achora		
MNHNP Z 1961	1	21.4	23.6		IVAU CHA-62	1	11.4 14.9
MNHNP Z 1961	1	>19.6	—		FLSF CHA F6113	r	13.1 15.6
<u>Kubanochoerus minheensis</u>					Chari Gambhir		
Guanghe					BSPHGM 1376	1	15.3 —
BMNH	r	21.7	23.3		Mochiwala		
<u>Bunolistriodon? sp.</u>					BSPHGM 1360	r	15.8 >18.7
Baragoi BCG					Kanatti Chak 5		
KNM-BG 15893	1	—	13.8		BSPHGM 1956III115	1	>15.6 >16.2
<u>Bunolistriodon aff. latidens</u>					Kanatti Chak 8		
Olival da Suzana					BSPHGM 1956II113	r	12.1 13.9
CEPUNL 24	1	14.2	17.2		BSPHGM 1956III114	1	11.7 14.3
Quinta Flamengas					BSPHGM 1956III116	r	15.4 17.0
CEPUNL 40	1	12.5	16.2		Marlamwala Kas		
Quinta Pedreiras					BSPHGM 1956II177	1	14.8 17.9
CEPUNL 58	1	14.9	18.0		BSPHGM 1956III110	r	11.7 14.3
Quinta da Conceição					BSPHGM 2633	r	+13.8 —
CEPUNL 53	1	14.0	15.7		Kalin Nal		
Quinta da Farinheira					BSPHGM 1956III112	1	12.9 14.9
CEPUNL —	1	13.8	14.7		Bhilomar		
La Artesilla					IVAU CHH 37	r	12.2 13.2 10.1
MPZ 6460	1	12.5	15.3		Marian Wala		
Armantes I					IVAU CHM 26	r	13.7 — 10.2
IVAU 41/529	r	12.9	14.6		<u>Listriodon splendens</u>		
Munébrega II					"Gers"		
IVAU 52/101	1	13.3	14.8		MNHNP Ger 47	r	15.9 17.9 13.5
Torralba II					Inhnd I		
IVAU 18/201	1	13.2	14.8		MIA AKI 3/452	1	15.5 17.9
<u>Bunolistriodon latidens</u>					MIA AKI 3/—	1	— >17.7
Inhnd I					Paqalar		
MIA AKI-3/576	r	13.2	15.1		PDTFAU B593	1	14.2 16.8
<u>Bunolistriodon M</u>					PDTFAU BT1	r	13.8 16.4
Paqalar					PDTFAU C323	1	14.9 17.3
PIMUZ BP-166	1	14.3	16.1		PDTFAU CT1	1	15.2 16.4
PDTFAU C1587	1	12.5	13.7		PDTFAU CT1	1	15.8 18.1
PDTFAU C1784	1	13.7	14.8		PDTFAU CT1	1	>15.8 —
PDTFAU CT 5	1	12.4	14.4		PDTFAU CT1	1	13.7 17.0
PDTFAU CT1	1	13.5	14.9		PDTFAU CT1	r	13.5 16.5
PDTFAU CT1	r	13.7	14.1		PDTFAU CT1	1	13.7 15.7
PDTFAU CT1	r	13.9	14.7		PDTFAU CT1	r	14.3 17.0
?PDTFAU CT1	r	15.3	16.7		PDTFAU CT5	r	14.3 16.4
?PDTFAU CT1	1	16.1	—		PDTFAU D500	1	15.8 17.9
PDTFAU D111a	1	13.2	>13.8		PDTFAU E209	r	16.0 16.8
PDTFAU D210	r	14.3	15.1		PDTFAU E225	1	15.4 16.6
PDTFAU ET1	1	>12.5	14.6		PDTFAU E439	1	15.7 17.0
PDTFAU ET1	r	14.2	14.9		PDTFAU E636	1	— —
PDTFAU ET1	r	14.2	—		PDTFAU ET1	r	15.1 18.0
?PDTFAU F182	r	14.9	15.4		PDTFAU ET1	r	14.7 17.0
PDTFAU F226	r	12.5	13.9		PDTFAU ET1	1	14.4 15.6
PDTFAU F278.12	r	13.5	15.9		PDTFAU ET1	r	14.7 17.1
PDTFAU G104.2	r	13.3	14.9		PDTFAU ET1	1	13.9 16.7
PDTFAU G142	r	13.3	14.3		PDTFAU ET1	r	15.4 16.3
PDTFAU G692	1	—	—		PDTFAU ET1	r	14.7 16.6
?PDTFAU G995	1	14.8	15.4		PDTFAU ET1	r	15.3 17.1
PDTFAU G1924.3	1	14.2	—		PDTFAU ET1	r	14.5 17.0
PDTFAU G1943	1	13.1	14.8		PDTFAU ET1	1	13.8 16.2
PDTFAU GT1 1	1	13.2	15.2		PDTFAU ET1	r	>13.7 —
<u>Bunolistriodon lockharti</u>					PDTFAU F51	1	14.7 16.7
Pellecahus					PDTFAU F77	r	14.2 15.9
UCBL 320269	r	13.5	16.1		PDTFAU F282	r	14.5 16.2
La Romieu					PDTFAU F283	r	15.5 16.7
UCBL 320273	r	13.7	15.5		PDTFAU G231	1	14.2 16.9
UCBL 320273	1	13.9	15.9		PDTFAU G438.3	r	>13.4 —
Baigneaux					PDTFAU G438.9	1	15.5 16.6
NMB SO-3021	r	15.7	17.9		PDTFAU G1599.2	r	15.5 18.4
SO-6428	r	15.2	16.9		PDTFAU G1669.2	1	14.0 16.1
Buñol					PDTFAU G1924.4	r	>14.3 —
IPS? R-BS6	1	14.5	16.8		PIMUZ EF—	1	14.6 18.2
MPV FBB-223	r	15.1	17.3		Çandir		
Gerlenhofen					MIA AÇH 593	1	14.0 16.0
SMNS — cast	1	17.7	19.3		MIA UÇHU 642	r	16.4 17.9
SMNS — cast	1	14.9	17.4		MIA UÇHU 793	1	16.6 17.8
Engelswies					Villafeliche IX		
NMB TD 819 cast	1	14.5	17.0		MNCN —	r	>16.0 >18.0
NMB TD 819 cast	r	15.1	17.6		Arroyo del Val IV		
Tavers					IVAU AR IV 27	1	17.2 19.9
CIMO —	1	15.6	16.8		IVAU AR IV 35	r	>14.9 20.6

IVAU AR IV 39	1	17.9	19.7	
IVAU AR IV 362	r	—	>21.0	
RGM 262.979	r	+14	17.3	
Mannersdorf				
NMW 1850XXV19	r	14.4	16.7	
Steinheim				
SMNS 4811	1	15.6	17.1	
La Grive oc				
IGF 296	1	13.6	15.6	
IGF 296	1	12.7	15.8	
IGF 296	r	14.6	15.7	
IGF 296	r	13.5	15.4	
UCBL 65615	r	15.4	16.6	
MGL LGr 688	1	12.8	15.1	
MGL LGr 1626	r	>13.2	>14.4	
MGL —	r	14.0	15.2	
La Chaux-de-Fonds				
MHNCF 4	1	15.8	16.7	13.6
Friedberg				
BSPHGM 1962XII32	r	>13.9	—	
Cerro del Otero				
MNCG NM 18021	1	14.5	18.6	
Sant Quirze				
MGSCB 30484	1	17.3	18.5	
CJFV Squ 5437	r	16.6	19.1	
Castell de Barberà				
IPS —	1	14.0	16.4	
Hostalets				
MGSCB 48502	r	15.1	17.7	
IPS 1088	r	15.0	16.9	
IPS 1115	r	15.8	16.9	
IPS H 218	1	15.0	17.3	
CJFV —	1	17.4	19.0	
CJFV IPS 1953	r	15.7	17.6	
CJFV HP 197	r	15.1	16.5	>13.0
D⁴		DAP	DTa	DTp
<u>Nguruwe kijivium</u>				
Songhor				
KNM-SO 1140	1	10.0	9.0	8.6
<u>Lopholistriodon akatidogus</u>				
Fort Ternan				
KNM-FT 3325	1	13.0	11.1	11.0
<u>Kubanochoerus massai</u>				
Gebel Zelten				
MNHN Z 1961	r	23.6	19.3	19.9
MNHN Z 1961	r	—	—	18.7
<u>Bunolistriodon aff. latidens</u>				
La Artesilla				
MPZ 6447	r	16.0	12.7	12.6
MPZ 6448	1	14.7	13.9	13.2
MPZ 6449	r	>16.3	—	13.3
Armantos I				
IVAU 41/544	1	15.3	13.4	13.3
<u>Bunolistriodon M</u>				
Paşalar				
PDITFAU B592.3	r	—	—	13.8
PDITFAU B881	1	14.8	13.3	13.8
PDITFAU C187	r	—	—	13.9
PDITFAU C280.19	r	—	—	14.1
PDITFAU C280.21	r	—	—	14.0
PDITFAU C280.70	1	—	—	14.1
PDITFAU D210.12	1	16.7	13.7	13.5
PDITFAU E543	1	15.7	14.4	15.0
PDITFAU F278.14	1	—	—	—
PDITFAU G537	1	—	—	—
<u>Bunolistriodon lockharti</u>				
Pellecahus				
NMB GB 1378	r	17.9	15.7	15.1
La Romieu				
UCBL 320311	r	16.3	15.7	15.1
Buñol				
IVAU US 1	1	17.4	14.7	14.6
<u>Bunolistriodon akatikubas</u>				
Maboko				
KNM-MB 14421	1	>16.3	—	—
<u>Bunolistriodon guptai</u>				
HGSP 8311				
HGSP 8311/1526	1	16.7	13.7	14.1
<u>Listriodon pentapotamiae</u>				
Kali Nachi				
IVAU GIN 36	r	—	13.8	—
<u>Listriodon splendens</u>				
Paşalar				
PDITFAU B593	1	15.2	14.2	14.1
PDITFAU C280.23	1	15.4	14.1	13.8
PDITFAU C280.24	r	—	—	—
PDITFAU C280.25	1	—	—	>13.6

PDITFAU D210.18	1	16.4	14.7	14.2
PDITFAU E19.18	1	—	—	>14.9
PDITFAU E89.15	1	16.2	14.7	14.8
PDITFAU E89.16	1	—	—	13.3
PDITFAU E89.17	1	—	—	13.8
PDITFAU E89.19	r	—	—	—
PDITFAU F353	r	15.3	14.1	14.0
PDITFAU G280.23	1	15.4	14.1	13.8
PDITFAU G280.25	1	—	—	>13.6
PDITFAU G363	1	16.2	14.2	14.5
PDITFAU G652.b	1	14.4	13.9	13.4
PDITFAU G1597	1	—	—	>13.9
Arroyo del Val IV				
IVAU AR IV 72	r	15.8	16.0	16.1
La Grive oc				
UCBL 65617	1	>14.9	15.6	..
UCBL 65617	1	16.1	16.9	..
Castell de Barberà				
IPS —	1	14.9	13.7	13.0
Hostalets				
IPS VP 762	1	16.0	>15.6	>14.1
Can Llobateres				
IPS —	r	14.3	6.9	8.9

nl	DAP	DTa	DTp	Ha	Hp
<u>Nguruwe kijivium</u>					
Songhor					
KNM-SO 1057	r	11.8	10.6	10.6	
KNM-SO 1125	1	12.9	13.6	11.9	
<u>Lopholistriodon moruoroti</u>					
Maboko					
KNM-MB 617	1	8.6	8.6	8.9	
<u>Lopholistriodon kidogosana</u>					
Ngorora B5, 2/56					
KNM-BN 843	r	12.3	9.9	10.5	
KNM-BN 1707	1	—	—	10.7	
KNM-BN 1744	1	12.2	9.5	10.4	
KNM-BN 2085	r	12.5	9.8	10.5	
Ngorora D, 2/11					
KNM-BN 189	1	12.6	—	—	
<u>Kubanochoerus massai</u>					
Gebel Zelten					
MNHN Z 1961	r	26.7	23.6	25.3	
MNHN Z 1961	r	27.2	24.6	—	
MNHN Z 1961	1	25.4	22.6	25.6	
MNHN Z 1961	1	—	—	23.6	
MNHN Z 1961	1	25.9	24.3	27.3	
<u>Bunolistriodon anchidens</u>					
Rusinga R3					
KNM-RU 5851	r	—	—	—	
<u>Bunolistriodon aff. latidens</u>					
Quinta das Flamengas					
CEPUNL 39	1	18.4	17.8	18.5	
Casal das Chitas					
CEPUNL 47	r	18.4	18.2	18.1	
Quinta da Conceição					
CEPUNL 51	1	19.1	>18.1	18.7	
La Artesilla					
MPZ 6465	r	18.1	17.7	17.5	
MPZ 6466	r	18.6	16.1	16.4	
Echzell					
HLD Ez 324	1	>17.0	—	>15.2	
Tarazona					
UPV T56.10	r	—	>14.0	—	
Armantos I					
IVAU 41/515	1	17.3	16.2	16.3	
IVAU 41/532	1	17.4	15.8	15.9	
IVAU 41/576	..	—	—	>17.9	
<u>Bunolistriodon M</u>					
Paşalar					
PIMUZ BP-271 cast	r	17.3	15.2	14.5	
PDITFAU C587	1	—	16.4	—	
PDITFAU CT 5	r	—	—	14.6	
PDITFAU E236	r	18.7	17.1	16.7	
PDITFAU D273	r	17.8	—	—	
PDITFAU E410	1	18.6	17.1	16.3	
PDITFAU E894	1	>18.3	—	—	
PDITFAU F278-4	r	17.7	—	—	
PDITFAU G86	1	18.5	16.9	17.2	
PDITFAU G538	1	—	—	15.5	
PDITFAU G1041-1	r	16.5	—	16.2	
PDITFAU G1311	1	17.8	15.5	15.5	
PDITFAU G1698	r	18.3	15.4	14.7	
<u>Bunolistriodon lockharti</u>					
Pellecahus					
NMB GB 1377	r	>20.5	19.9	19.9	
NMB GB 2449	r	16.1	15.1	15.4	
La Romieu					

UCBL 320311	r	20.6	18.1	18.7						
Baigneaux										
NMB SO-716	1	19.3	18.4	19.0						
NMB SO-746	1	17.4	—	17.8						
NMB SO-1142	.	17.6	—	—						
NMB SO-1161	r	19.0	>17.6	>17.3						
NMB SO-2815	1	16.9	16.8	16.7						
NMB SO-6490	r	17.2	17.3	17.8						
Buñol										
MFV FB 55	r	>17.9	—	>16.5						
Engelswies										
NMB TD 818 cast	1	17.5	15.7	16.6						
NMB TD 819 cast	r	16.4	17.0	16.3						
Pontlevoy										
MNHNP FP 221	1	20.6	19.0	18.9						
Puente de Toledo										
ITGE 412M	r	16.9	15.8	15.1						
<u>Bunolistriodon akatilibus</u>										
Maboko										
KNM-MB 19707	1	18.7	17.6	18.0						
<u>Bunolistriodon intermedius</u>										
Maerzuizigou										
IVPP V 9522.1	1	21.6	19.7	19.9						
IVPP V 9522.2	r	20.7	19.5	—						
<u>Listriodon pentapotamiae</u>										
Achora										
IVAU CHA-59	1	19.3	—	—						
Kanatti										
IVAU KA 84	r	>17.0	—	15.6						
Kanatti Chak 7										
BSPHGM 1956II67	r	16.2	15.5	15.6						
<u>Listriodon splendens</u>										
"Gers"										
MNHNP Ger 43	1	17.7	17.1	17.7						
Inhnl I										
MTA AKI 3/—	r	—	18.2	—						
Paşalar										
PDITFAU A22.2	1	19.0	17.6	18.2						
PDITFAU A55	r	17.0	16.2	16.3						
PDITFAU B593	1	—	—	16.8						
PDITFAU C323	r	—	16.2	—						
PDITFAU CT1	r	18.9	18.0	17.2						
PDITFAU CT1	1	—	16.5	—						
PDITFAU CT1	r	16.8	15.0	15.3						
PDITFAU CT1	r	—	—	16.9						
PDITFAU CT5	1	16.4	16.7	16.7						
PDITFAU CT5	r	18.2	17.2	18.1						
PDITFAU D408	r	17.8	16.5	14.9						
PDITFAU D413	1	18.1	16.2	—						
PDITFAU D518	r	18.8	18.1	18.0						
PDITFAU D806	r	>18.5	—	—						
PDITFAU D992	r	18.9	17.4	17.2						
PDITFAU E83.4	1	17.9	16.8	16.5						
PDITFAU E89.3	1	18.9	17.3	17.6						
PDITFAU ET1	r	18.7	17.1	17.3						
PDITFAU F287.10	1	17.8	16.6	16.0						
PDITFAU F376	r	17.9	16.9	17.4						
PDITFAU F412	r	18.6	18.8	19.1						
PDITFAU F801	r	16.9	15.8	15.8						
PDITFAU G339	r	15.9	14.6	14.9						
PDITFAU G390	r	17.8	16.6	16.4						
PDITFAU G445	1	18.6	17.0	16.6						
PDITFAU G1598	r	17.8	>16.1	16.5						
PIMUZ BP-136	1	17.5	16.5	16.7						
Çandır										
MTA AÇH 970	r	—	—	>19.6						
MTA —	r	19.6	18.4	19.3						
Manchones I										
IVAU MA 123	1	—	—	>18.7						
Arroyo del Val IV										
IVAU AR IV 12	r	20.3	18.5	18.1						
IVAU AR IV 18	r	20.2	18.4	18.3						
IVAU AR IV 30	r	20.2	18.4	18.3						
IVAU AR IV 125	r	—	—	17.2						
IVAU AR IV 393	1	—	—	—						
RCM 263.098	r	20.2	..	18.1						
Sarıçay										
MTA—	1	>18.4	>18.4	19.0						
La Grive oc										
IGF 295	1	18.6	17.0	17.6						
IGF 295	1	18.6	17.0	17.9						
UCBL 65623	r	18.3	16.9	18.0						
NMB GA 2839	r	—	—	16.5						
NMB GA 7	1	18.1	18.0	17.0						
NMB GA 8	1	19.6	19.4	19.7						
MCL LGr 737	1	19.2	16.0	15.9						
MCL LGr 738	1	17.5	15.8	16.8						
MCL LGr 744	r	18.7	19.1	19.8						
MCL LGr 747	r	18.3	15.8	16.7						
MCL LGr 748	1	17.3	15.9	15.9						
MCL LGr 1614	r	16.8	16.7	17.6						
Neudorf Sandberg										
NMW 1954/75	1	—	—	18.7	—	12.7				
Cerro del Otero										
MNCN NM 18013	r	20.6	19.3	19.2						
MNCN NM 18031	1	21.2	19.2	19.6						
MNCN NM 18032	1	21.2	19.0	20.1						
MNCN —	r	20.6	18.9	19.7						
Sant Quirze										
MGSCB 48893	r	17.7	16.3	16.6						
MGSCB 48881	1	19.5	19.1	18.6						
CJFV Squ 5516	1	17.0	19.0	18.2						
Castell de Barberà										
IPS —	1	18.0	15.9	16.4						
Hostalets										
IPS 1050	1	18.1	18.5	19.4						
CJFV IPS 1952	r	17.2	18.2	18.3						
CJFV 4328	1	19.7	—	—						
<u>M²</u>										
<u>Nguruwe kijivium</u>										
Koru 25										
KNM-KO 45	r	>11.7	11.0	11.3						
Koru 25?										
KNM-KO 32	r	12.6	11.5	11.5						
Rusinga R3a										
KNM-RU 2272	1	13.1	13.1	13.2						
Songhor										
KNM-SO 1060	r	11.5	11.3	10.5						
KNM-SO 1125	1	12.9	13.6	11.9						
<u>Lopholistriodon moruoroti</u>										
Moruorot										
KNM-MO 8	r	10.4	>10.2	>9.6						
Maboko										
KNM-MB 10287	r	9.0	>8.3	8.3						
KNM-MB 14489	1	9.3	>8.1	8.4						
Maboko										
KNM-MB 15115	r	11.4	10.5	11.1						
<u>Lopholistriodon akatidogus</u>										
Mbagathi										
KNM-MG 10	r	19.4	>16.9	18.0						
<u>Lopholistriodon kidogoeana</u>										
Ngorora										
KNM-BN 2027	1	13.0	11.2	11.0						
Ngorora B5, 2/1										
KNM-BN 1782	r	—	>13.4	—						
Ngorora B5, 2/56										
KNM-BN 844 + 845	r	14.3	12.1	12.0						
KNM-BN 1471	1	>14.3	—	12.4						
<u>Kubanochoerus khinzikebirus</u>										
M'wangano										
KNM-MW 13145	1	—	—	—						
<u>Kubanochoerus massai</u>										
Gebel Zelten										
MNHNP Z 1961	1	29.4	27.8	27.2						
MNHNP Z 1961	1	29.7	27.3	26.4						
MNHNP Z 1961	1	30.2	29.5	28.1	18.7	19.2				
MNHNP Z 1961	r	30.1	28.1	27.5						
MNHNP Z 1961	1	>30.6	—	>29.7						
<u>Bunolistriodon anchidens</u>										
Rusinga R1										
KNM-RU 2786	r	21.9	—	—						
Rusinga R 2-4										
KNM-RU 2784	..	<21.3	—	<20.5						
Rusinga Rs III										
KNM-RU 2783	1	20.6	—	22.2						
<u>Bunolistriodon aff. latidens</u>										
Quinta Grande										
CEPUNL 33	1	21.4	21.9	21.1						
Quinta Pedreiras										
CEPUNL 56	1	21.1	21.8	20.2						
CEPUNL 57	r	18.4	19.1	18.4						
Armantes I										
IVAU 41/520	r	20.1	21.6	19.2						
IVAU 41/521	1	21.0	21.3	20.3						
IVAU 41/522	r	21.2	—	19.7						
IVAU 41/523	..	>18.4	—	—						
IVAU 41/524	r	21.0	21.2	20.8						
Georgenegmlnd										
NMB TD 661	r	19.8	18.9	19.9						
NMB TD 808 cast	r	20.1	19.0	20.0						
<u>Bunolistriodon M</u>										
Paşalar										
PDITFAU ET1 608	r	19.9	19.8	19.0						
PDITFAU C187.17	r	22.1	—	—						
PDITFAU C187.18	r	—	—	18.8						

HGSP 8412									
HGSP 8412/3133	r	—	—	10.0	..				
<u>Lopholistriodon moruoroti</u>									
Moruorot									
KNM-MO 6	r	>11.2	10.2	8.9	—				
Maboko									
KNM-MB 10320	r	>7.0	>6.8	5.3	..				
KNM-MB 14481	r	12.8	—	8.7	..				
KNM-MB 15114	1	10.9	7.8	7.3	2.8				
Muryur									
KNM-MY 68	1	—	—	9.6	..				
<u>Lopholistriodon pickfordi</u>									
Maboko									
KNM-MB 406	1	13.6	—	10.2	4.2				
KNM-MB 611	r	14.4	>12.7	11.2	..				
KNM-MB 14478	r	13.1	11.1	10.1	..	>6.0	>7.4		
Buluk									
KNM-WS 12582	1	15.0	11.2	10.4	4.5				
<u>Lopholistriodon akatidogus</u>									
Maboko									
KNM-MB 862	r	—	—	—	..				
<u>Lopholistriodon kidogosana</u>									
Ngorora B, 2/56									
KNM-BN 1470	1	17.3	13.4	+12.4	..				
KNM-BN 1472	r	17.1	—	11.9	3.9				
Ngorora D3, 2/11									
KNM-BN 385	1	17.3	14.4	12.3					
Ngorora									
KNM-BN 669	r?	—	—	—	..				
KNM-BN 2025	r	16.1	14.2	13.1	..				
<u>Kubanochoerus maryunungui</u>									
Buluk									
KNM-WS 12656	r	—	—	29.5	12.3				
KNM-WS 12590	1	36.2	30.0	27.1	14.2				
KNM WS 12594	r	42.6	32.9	26.9	16.4				
<u>Kubanochoerus khinzikebirus</u>									
Nyakach-									
KNM-NC 9806	r	—	—	—	—				
Kadianga W									
<u>Kubanochoerus massai</u>									
Gebel Zelten									
MNHNP Z 1961	1	40.8	32.8	30.2	>17.3	19.1	18.4		
MNHNP Z 1961	1	41.9	—	—	17.5				
MNHNP Z 1961	r	—	>32.5	>29.4	—				
MNHNP Z 1961	r	—	—	27.7	—				
MNHNP Z 1961	r	>34.5	>28.3	>22.5	..				
MNHNP Z 1961	1	36.7	31.5	27.0	14.5				
MNHNP Z 1961	r	..	>26.7	>23.0	..				
MNHNP Z 1961	r	>36.4	28.8	24.4	..				
MNHNP Z 1961	r	36.8	—	23.2	11.7				
MNHNP Z 1961	r	32.3	>26.1	>23.1	—				
MNHNP Z 1961	r	+37.4	—	26.5	12.9				
MNHNP Z 1961	r	—	—	—	—				
MNHNP Z 1961	r	—	>29.4	—	—				
MNHNP Z 1961	r	—	+30.8	26.9	—				
MNHNP Z 1961	1	39.4	33.4	>28.5	13.0	19.2	18.3		
MNHNP Z 1961	r	>38.7	>31.0	>28.9	12.9				
MNHNP Z 1961	r	—	—	27.9	16.2				
MNHNP Z 1961	1	>33.0	>26.9	>22.9	>10.4				
MNHNP Z 1961	r	36.5	+29.6	27.3	13.6	17.8	17.4		
MNHNP Z 1961	r	38.0	30.6	28.7	12.8	17.7	18.4		
<u>Bunolistriodon anchidens</u>									
Rusinga RI									
KNM-RU 2786	1	—	—	—	—				
Maboko	?								
KNM-MB 867	r	—	—	17.2	—				
<u>Bunolistriodon aff. latidens</u>									
Olival da Suzana									
CEPUNL 18	r	26.8	22.3	20.9	..				
CEPUNL 19	1	24.3	22.4	18.9	..				
Quinta Flamengas									
CEPUNL 38	1	24.6	20.2	18.1	..				
Quinta da Raposa									
CEPUNL 37	1	24.4	24.5	20.0	..				
Quinta da Silvéria									
CEPUNL 43	r	24.7	21.8	17.6	+10.2				
Quinta Grande									
CEPUNL 30	1	25.3	21.6	18.9	9.0				
CEPUNL 938	1	29.3	24.6	19.3	12.4				
Quinta da Farinheira									
CEPUNL 7	r	27.1	>22.8	20.6	..				
CEPUNL 8	1	25.1	22.1	18.6	..				
La Artesilla									
MPZ 6454	r	>21.2	18.8	15.0	..				
Armantes I									
IVAU 41/509	r	24.0	22.0	18.3	9.5				
IVAU 41/510	r	—	>21.7	19.1	—				
IVAU 41/511	r	25.8	—	19.0	11.5				
Munébrega II									
IVAU 52/100	r	27.1	22.4	17.3	9.7				
Munébrega AB									
IVAU Mun 4	r	>23.0	>19.8	>15.3	>7.6				
IVAU Mun 7	r	>21.2	>16.8	>14.3	>9.2				
IVAU Mun 34	r	—	—	>18.6	11.1				
<u>Bunolistriodon latidens</u>									
Puente de Vallecas									
IPS 1065	1	26.5	21.7	19.3	..				
Inhull I									
MTA AKI-3/575	r	27.5	20.9	18.4	9.4				
<u>Bunolistriodon M</u>									
Paşalar									
PIMUZ BP-128	r	23.3	18.9	16.4	..				
PDITFAU C187.20	r	28.1	22.0	17.9	9.6				
PDITFAU D8.10	r	—	—	19.2	9.3				
PDITFAU D8.11	r	—	—	18.3	9.1				
PDITFAU D8.12	r	—	—	—	10.8				
PDITFAU D210.3	1	27.1	21.9	20.1	..				
PDITFAU D987	r	25.8	—	17.7	9.9				
PDITFAU E7.2	1	26.8	20.7	19.3	9.9				
PDITFAU E7.3	1	—	—	18.7	11.3				
PDITFAU E7.4	r	26.7	21.5	19.9	+10.0				
PDITFAU E89.8	1	25.3	19.6	18.4	9.3				
PDITFAU E91	r	26.8	21.3	18.8	8.8				
PDITFAU F504	r	26.9	22.2	18.5	9.1				
PDITFAU F381	r	—	—	19.2	14.1				
PDITFAU G561	r	25.2	19.8	17.7	8.5				
PDITFAU G652	r	—	19.1	18.1	—				
PDITFAU G1132	1	—	18.9	16.1	—				
PDITFAU G1193	r	—	22.1	19.1	—				
PDITFAU G1657	r	26.4	20.2	18.1	9.6				
PDITFAU G1801	1	26.1	20.4	19.2	9.5				
Çandır									
MTA —	r	>24.4	20.9	—	—				
<u>Bunolistriodon sp.</u>									
Ad Dabtiyah									
EMNH 42950	r	25.6	22.0	19.6	8.8				
<u>Bunolistriodon lockharti</u>									
Quinta La Barbacena									
CEPUNL 61	r	33.1	26.0	23.9	12.3				
CEPUNL 62	1	32.5	24.8	22.4	12.4				
Pellecahus									
UCBL 320271	1	28.5	25.8	21.7	11.8				
UCBL 320293	1	28.3	24.5	20.1	..				
NMB GB 1373	1	26.8	25.2	20.5	..				
NMB GB 2445	r	27.8	24.7	19.2	8.3				
NMB GB 2446	1	23.9	24.5	18.1	..				
NMB GB 2447	r	24.2	—	—	—				
La Romfeu									
UCBL 320272	r	26.7	23.6	21.0	10.3				
UCBL 320305	r	26.6	23.4	19.8	10.5				
NMB GB 1262	r	23.5	19.8	16.5	..				
Baigneaux									
NMB SO-2189	r	24.7	21.4	18.6	11.2				
NMB SO-2612	r	24.5	22.0	19.1	8.5				
NMB SO-3228	1	22.3	21.8	19.0	..				
NMB SO-3611	1	>22.5	23.3	20.7	11.9				
Chevilly									
MNHNP CHE 47	r	28.6	24.8	21.6	10.4				
MSNO 233	r	27.6	23.0	21.3	8.7				
NMB SO 2	1	25.9	23.7	21.1	..				
Gerlenhofen									
SMNS 14953g	r	31.2	24.1	..	..		
EMNH cast	r	25.6	21.7	20.1	7.5				
Buñol									
??—	r	+32.5	>22.7	20.7	12.6				
MPV PAN-288	r	29.7	—	>21.5	9.8				
IVAU BU-S2	1	29.1	27.2	>23.7	11.2				
MPV FB 51	1	31.8	—	22.3	11.5				
Monteagudo									
IPS 1513	r	—	—	—	23.9	..			
Pontlevoy									
MNHNP FP 219	r	—	24.8	—	—				
MNHNP FP 1061	1	24.3	21.1	20.5	6.2				
Beaugency									
MNHNP 3903 cast	1	25.5	20.2	18.8	17.1				
Tavers									
COBO —	1	28.9	23.5	20.0	10.8				
Ravensburg									
NMB TD 544	1	28.9	23.6	21.9	11.4				
Langenschlingen									
NMB TD 823 cast	1	28.4	21.4	17.4	11.8				
Puente de Toledo									
ITGE 412M	r	30.0	21.3	19.2	10.3				
<u>Bunolistriodon intermedius</u>									
Maerzuizigou									
IVPP V 9522.4	1	28.1	>23.0	21.5	10.0				

TABLE 7 Measurements in mm of associated lower incisors and canines.

		I ₁					I ₂					I ₃			C _m			C _f				
		DMD	DLL	Hli	Hla	Hme	Hdi	DMD	DLL	Hli	Hla	Hme	Hdi	DMD	DLL	Dmax	li	la	po	DAP	DT	
<u>Lopholistriodon</u>																						
<u>L. moruoroti</u>																						
Moruorot																						
KNM-MD 5	1	—	—				—	—				4.1	—	—								
	r	>3.8	>4.1				+3.8	4.9				—	—	—					7.0	5.0		
<u>Kubanochoerus</u>																						
<u>K. massai</u>																						
Gebel Zelten																						
MNHNP Z 1961	r																20.5	18.3	16.8			
<u>K. minheensis</u>																						
IVPP V 6021																						
1	13.9	15.0	23.1	>23.5	..	..	17.3	17.2	25.8	>28.0							15.1	13.6	11.2		
	r	14.4	—	—	—	..	16.0	18.3	—	>28.0	—	—	13.3	11.1								
<u>K. gigas</u>																						
Maerzuzigou																						
IVPP V 8502	1	18.3	22.7	>23.1	>27.9	..	..	21.1	22.6	>24.2	>28.6	..	..				35.0	27.1	18.0		
	r	17.4	23.5	>22.1	>26.5	..	..	21.5	21.5	>25.0	>28.7	..	>17.1	20.6	15.8	..	34.8	28.2	19.7		
BMNH BPV-907	1	19.3	20.8											18.2	+13.7	22.5	30.6	22.7	28.1			
	r	19.7	19.8											18.7	14.6	+21.0	33.5	22.6	28.3			
<u>Bunolistriodon</u>																						
<u>B. anchidens</u>																						
Rusinga RI																						
KNM-RU 2785	1	7.9	>8.0	—	—	—	—										15.2	8.8	13.0			
	r	8.0	>8.8	—	>14.7	>9.1	>10.2	9.6	10.4	>20.0	>18.3	>10.2	>12.1				13.8	8.6	12.3			
<u>B. aff. latidens</u>																						
Muebrega I																						
IVAU 55/1051	r	..	..				..	..									..	..	..
Torralba II																						
IVAU 18/200	1	—	—				—	—					—	—	—					12.7	9.4	
	r	—	—				—	—					—	—	—					12.5	8.4	
Villafeliche 3																						
IVAU VL3/6	1	9.0	7.2				9.7	..														
	r	8.9	—																			
<u>B. latidens</u>																						
Veltheim																						
NSSW 99	1	10.7	+8.3	—	—	—	—	13.3	10.4	17.2	..	..	..				11.2	12.2	9.0		
	r	10.8	7.6	14.4	..	..	..										+11.8	+11.6	8.3		
Inöndl I																						
MTA AKI-3/7	1	11.8	8.3					13.6	9.1					13.5	7.7	17.3						
	r	11.4	8.1					13.6	9.4	>16.6	>16.9	..	..	—	—	—	—	—	—	
MTA AKI-3/8	r	—	—					—	—	—	—	—	—	—	—	—	—	—	—			
<u>Listriodon</u>																						
<u>L. pentapotamiae</u>																						
Dhok Talian 189																						
PMNH MV 31, 527	1	9.5	7.5					11.6	8.3													
	r	9.3	7.4					12.3	9.0											13.5	8.4	
Kanatti Chak 5																						
BSPHGM 1956	1	10.3	8.1					12.5	9.1													
II 103	r	10.2	>8.0																			
Chinjji																						
IM B 697	r																			11.0	6.9	
<u>L. splendens</u>																						
Simorre																						
MNHNP Si 155	1	11.4	8.2					12.1	10.4					..	10.3	18.3						
	r	>11.0	8.3					13.3	11.5					13.5	9.5	18.5				16.3	10.2	
Villefranche																						
MNHNP 4321	1							15.2	..													
	r	11.0	..					14.8	..					..	..	18.1				20.0	16.5
Inöndl I																						
MTA AKI 3/333	1	11.4	9.5					15.0	11.6	20.1	22.0	..	18.1									
	r	11.9	9.7					15.4	11.9	21.0	22.2	..	17.0									
MTA AKI 3/777	1	11.4	10.0																			
	r	11.5	10.0					13.4	11.1					+11.8	+9.5	..						
Klein Hadersdorf																						
(Frank)																						
NMW 8X1944	1							15.2	10.7													
	r							14.5	10.8													
Çandır																						
PDMUZ CA I/22	1	10.7	8.3					13.5	10.0											12.0	7.6	
	r	10.6	8.4					12.9	10.1					12.1	7.9	16.2				12.7	7.7	
MTA —	1	12.3	9.9																			
	r																			18.9	15.6	16.5
Locle																						
UN —	1																			23.8	19.6	19.2
	r	12.9	9.9					>15.4	11.5													
S. Quirze																						
MGSCB 30481	r	13.5	>9.4					20.1	12.1													
MGSCB 48900	1	>14.0	10.1																			
	r	14.3	10.5																			
CJFV SQu 5438-	1	15.5	10.5					19.0	12.7					>16.6	9.0	>20.1						
5442	r	14.8	10.5					18.0	12.1					17.0	9.0	20.1						
Hostalets																						
CJFV —	r																			22.5	17.0	17.2
Markt Rettenbach																						
BSPHGM	1													16.2	8.2	..				18.1	11.2	
1929 II *47	r							16.6	10.5					16.0	8.3	..				18.2	12.1	

TABLE 8 Measurements in mm of associated lower deciduous molars and associated permanent molars.

		D ₂ DAP	DEa	DTp	D ₃ DAP	DEa	DTp	D ₄ DAP	DEa	DEm	DTp	M ₁ DAP	DEa	DTp	M ₂ DAP	DEa	DTp	M ₃ DAP	DEa	DTp	DTpp
<u>Nguruswe kijivium</u>																					
<u>Loncherangan I</u>																					
KM-LC 17394	1				—	—	>4.2	14.0	5.4	6.1	7.3	10.7	8.5	8.6	>13.5	—	>8.4				
Songhor																					
KM-SO 1062	1	8.5	3.1	3.8	8.9	3.5	4.5	14.0	6.0	7.0	7.5										
<u>Kubanochoerus</u>																					
<u>K. massai</u>																					
<u>Gebel Zelten</u>																					
MNHNP Z 1961	1	18.9	7.3	8.0	21.6	7.7	9.1														
<u>Bunolistriodon</u>																					
<u>B. aff. latidens</u>																					
<u>La Artesilla</u>																					
MPZ 6430	r	12.8	4.6	5.9	12.8	5.5	6.6	21.4	—	9.8	11.0	18.4	11.7	13.0							
MPZ 6431	1	13.7	5.0	6.0	13.5	5.7	7.3														
<u>Moratines</u>																					
MNCN —	1							21.0	..	..	10.1	17.5	..	>11.4							
<u>La Hidroeléctrica</u>																					
IPS 1143	r				—	..	—	+21.5	..	..	+11.8	19.0	12.6	12.1	—	14.4	—				
<u>B. latidens</u>																					
<u>Inbrill I</u>																					
MTA AKI-3/586	1							20.6	8.9	11.3	11.0	16.4	13.1	12.1	20.3	16.6	15.9				
<u>B. lockharti</u>																					
<u>Pellecahus</u>																					
NMB GB 1382	1							—	—	—	11.0	+20.7	14.1	+14							
<u>La Romieu</u>																					
UCBL 320268	1				14.3	5.8	6.9	>20.4	8.7	9.8	11.1										
<u>Langenau I</u>																					
SMNS 40684	1				13.2	..	6.6	23.3	..	..	11.2	+19.1	..	..					
<u>Pontlevoy</u>																					
MNHNP FP 1015	1				13.0	5.6	6.5	22.3	8.9	10.6	11.3										
<u>Listriodon</u>																					
<u>L. pentapotamiae</u>																					
<u>Kalinal</u>																					
BSPHGM 1956 II 44	r							—	—	—	10.1	15.8	—	11.9	19.7	—	15.2	—	17.7	16.1	—
<u>L. splendens</u>																					
<u>Çandır</u>																					
MTA —	1				13.2	6.8	7.4	22.9	9.9	11.2	12.7	20.0	14.0	14.6	23.6	—	17.8				

TABLE 9 Measurements in mm of associated lower molars and premolars.

		P1			P2			P3			P4			M1			M2			M3				
		DAP	DTa	DTp	DAP	DTa	DTp	DAP	DTa	DTp	DAP	DTa	DTp	DAP	DTa	DTp	DAP	DTa	DTp	DAP	DTa	DTp	DTpp	
<u>Ngururwe Kijivium</u>																								
<u>Rusinga</u>																								
KNM-RU 2770	r													12.6	9.7	9.9	14.4	12.0	11.5	18.6	12.3	9.9	7.8	
Rusinga-RLA																								
KNM-RU 2774	1																15.9	12.0	11.6	—	12.1	10.8	—	
Songhor																								
KNM-SO1059/1123	r																13.8	10.2	9.7	—	10.3	—	—	
KNM-SO1126/1122	1																13.8	10.3	9.7	—	11.5	9.9	—	
<u>Lopholistriodon</u>																								
<u>L. moruoroti</u>																								
<u>Moruorot</u>																								
KNM-MO 5A	r				4.9	2.4	2.7	6.9	2.9	3.5	7.7	4.6	>4.0	8.6	—	6.1	10.1	—	>6.8	—	7.8	7.7	—	
KNM-MO 5B	1													—	—	6.1	10.6	6.9	7.4	14.0	8.0	7.8	5.8	
<u>Maboko</u>																								
KNM-MB 10318	1													8.4	5.0	5.0	10.2	6.5	6.2					
KNM-MB 10332	1										6.4	>3.4	3.6	7.4	4.7	5.1	9.2	6.2	6.2					
<u>L. pickfordi</u>																								
<u>West Stephanie-Buluk</u>																								
KNM-WS 115	1																13.8	8.9	9.0	17.7	>10.0	>8.8	>6.8	
KNM-WS 115	r																13.5	8.6	9.2	18.3	10.7	9.5	6.8	
<u>L. kidogosana</u>																								
<u>Ngorora</u>																								
KNM-BN 1714	1													—	8.0	—	—	—	+8.0	—				
<u>L. akatidogus</u>																								
<u>Loc. ?</u>																								
KNM-X 208	r																19.9	>12.9	13.8	27.6	14.8	14.4	13.1	
<u>Kubanochoerus</u>																								
<u>K. maryungui</u>																								
<u>Buluk</u>																								
KNM-WS 12595	1				30.4	15.0	16.6	31.0	20.5	21.1	28.3	22.5	22.9	+26	+20.5	—	32.2	30.3	27.8	46.1	30.8	24.4	18.3	
	r				31.0	15.2	16.7	31.1	21.0	21.7	28.9	22.9	22.4	—	—	>22.5	32.0	29.7	27.5	45.9	30.9	24.6	18.7	
<u>K. mancharensis</u>																								
<u>Nyakach-Kaimogool E</u>																								
KNM-NC 9807	r																47.2	>40.0	37.5	—	42.4	—	—	
<u>K. massai</u>																								
<u>Gebel Zelten</u>																								
MNHN Z 1961	1				26.4	11.8	>10.7	28.9	14.0	13.6	27.8	14.8	>15.5	23.0	—	—	29.6	>22.0	>21.7	47.2	24.6	22.0	18.5	
	holotype																							
MNHN Z 1961	1																+30.3	<24.8	+23.6	45.8	25.0	21.8	17.6	
MNHN Z 1961	1				24.4	11.2	11.3	25.4	13.8	13.4														
MNHN Z 1961	1																27.6	—	22.5	>43.0	23.8	21.9	—	
MNHN Z 1961	1													26.5	19.8	19.9	30.1	24.3	25.0					
MNHN Z 1961	r				27.3	13.6	12.9	28.9	16.2	+16.9	26.8	+18.3	—	—	—	—	—	—	—					
MNHN Z 1961	r													—	—	—	31.6	24.6	24.2	46.0	26.8	22.7	17.9	
MNHN Z 1961	r													—	—	19.2	29.4	22.3	23.8	48.0	26.5	23.3	18.8	
MNHN Z 1961	1				<26.5	11.0	12.5	26.7	13.2	13.9														
MNHN Z 1961	1				—	9.6	>7.8	>22.3	11.6	—	24.3	14.8	19.7	26.1	18.0	19.7	31.0	22.3	23.9					
MNHN Z 1961	1																30.7	>23.2	>24.6	47.5	27.0	24.0	17.0	
MNHN Z 1961	1													26.7	19.3	20.6	31.6	24.8	24.3	—	25.5	—	—	
MNHN Z 1961	r										25.5	18.4	18.5	30.5	22.6	22.8								
<u>K. minheensis</u>																								
<u>Nanhaiwagou</u>																								
IVPP V 6021	1	13.1	8.3	5.4	26.3	13.5	14.2	27.5	13.9	15.5	27.5	16.2	18.8	27.7	19.8	20.8	32.0	25.5	25.7	>49.6	28.8	24.4	20.6	
	r				27.0	12.9	>13.8																	
<u>K. gigas</u>																								
<u>Maerzuizigou</u>																								
IVPP V 8502	1	19.3	10.3	8.4	29.7	12.8	14.3				>23.5	—	21.9	>29.9	>20.8	22.9	37.8	28.8	28.2	61.1	32.4	29.4	23.5	
	r	—	—	—	29.6	13.0	14.7				>31.9	19.2	21.8	>29.9	>20.8	22.9	37.8	28.8	28.2	61.1	32.4	29.4	23.5	
<u>EMNH BPV-...</u>																								
EMNH BPV-900	1	>17.0	..	..	29.5	..	13.6	32.6	..	..	32.2	..	..	31.4	..	..	39.3	..	..	..	..	..	..
	r	+15.6	..	..	—	—	—	32.6	..	..	32.1	..	..	—	..	..	40.0	..	..	55.6	..	..	..
EMNH BPV-907	1	17.9	>8.7	9.2	>26.2	12.7	14.0	33.2	15.5	17.6	32.2	19.1	22.0	—	—	—	42.5	30.7	>29.6	61.4	32.9	29.4	24.8	
	r	16.7	9.2	>8.5	>27.5	12.6	14.0	30.0	14.4	16.8	32.8	18.8	21.4	31.3	>21.8	23.8	41.2	29.7	29.3	63.7	33.2	29.2	24.9	
EMNH BPV-905	1	18.9	9.6	7.4				30.9	15.6	17.8	32.0	19.3	21.2	29.9	22.1	23.7	37.8	27.9	28.9					
	r				27.5	13.0	14.1	31.8	15.3	18.1	32.4	19.4	20.5	—	—	—	41.0	28.6	29.0	64.1	32.2	29.7	24.3	
EMNH BPV-906	r													—	—	25.2	38.0	30.6	30.8	58.8	33.3	30.3	25.2	
EMNH BPV-908	1													—	—	25.2	38.2	>29.7	31.0	58.5	33.5	29.9	24.1	
EMNH BPV-911	1	22.5	10.0	11.8	31.0	13.0	14.9	31.5	14.5	17.2	33.2	16.5	19.0	33.1	21.2	23.0	38.9	29.0	27.9	57.8	32.5	28.9	24.2	
	r	23.4	9.5	12.0	32.6	14.0	14.2	32.2	15.0	17.0	32.9	17.8	19.1	34.7	22.2	22.8	37.9	28.0	28.5	58.0	31.7	29.0	24.0	
<u>Hamalagai</u>																								
IVPP —	r													30.1	20.6	21.6	37.4	26.9	25.8					
<u>Bunolistriodon</u>																								
<u>B. anchidens</u>																								
<u>Rusinga Rl</u>																								
KNM-RU 2785	1	>9.4	—	5.5	>16.3	>7.3	8.0	18.6	—	—	17.8	11.4	11.3	18.6	14.7	14.1	20.8	>17.1	16.5	31.7	19.1	16.6	12.4	
	r	10.1	5.8	6.1	17.9	..	..	19.2	..	11.3													
<u>B. jeanneli</u>																								

		P ₁			P ₂			P ₃			P ₄			M ₁			M ₂			M ₃			
		DAP	DTa	DTp	DAP	DTa	DTp	DAP	DTa	DTp	DAP	DTa	DTp	DAP	DTa	DTp	DAP	DTa	DTp	DAP	DTa	DTp	
Fategad																							
IM 18098	1									18.4	13.0	14.0	22.0	17.2	16.5	23.3	20.6	18.8	33.4	19.9	17.5	13.5	
<u>B. aff. latidens</u>																							
Quinta da Farinheira																							
CEPUNL 1	1												17.9	>13.2	13.8	20.6	17.5	16.3	32.9	19.1	16.8	12.6	
CEPUNL 2	1												18.3	14.1	14.4	21.1	17.8	17.7	32.9	20.0	17.3	12.9	
CEPUNL 3	r									—	—	—	—	—	—	—	—	—	—	—	—	—	
Quinta Grande																							
CEPUNL 938	1											15.8	>13.6	>14.5	20.4	17.6	>18.2	31.2	19.5	17.6	13.6		
Olival da Suzana																							
CEPUNL 16	r							>16.5	..	>9.8	18.0	..	13.3	—	—	—	22.2	>17.8	17.5	32.9	21.2	18.1	13.9
Casal das Chitas																							
CEPUNL 46	r															22.2	17.5	16.9	32.3	22.2	18.8	14.4	
Quinta da Silvéria																							
CEPUNL 41	r									>16.2	..	10.7	<18.2	—	13.6	21.1	16.3	16.4					
La Artesilla																							
MPZ 6435	1							16.1	..	9.8	15.4	..	11.4	>14.5	>11.6	>12.3							
MPZ 6436	r							15.7	..	9.7	15.7	..	11.8	—	—	—	19.3	16.3	16.8	30.5	15.5	15.7	13.3
Armantes I																							
IVAU 41/513	1															>14.5	12.8	13.7	18.8	17.3	17.5		
Munébrega I																							
IVAU 55/1049	1				—	—	7.7	16.4	8.3	10.5	16.5	11.9	13.4	17.7	13.5	>13.5	20.8	16.9	17.4	34.8	18.5	17.3	12.9
IVAU 55/1050	r							—	—	>10.4	16.0	11.6	12.5	17.3	13.4	13.8	21.5	16.5	16.9	33.7	18.3	16.3	12.7
IVAU 55/1051	1	—	—	—	—	—	—	15.1	..	8.6	16.8	..	10.6	—	—	—	20.8	..	16.3	—	19.5	—	—
	r	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.6	—	—	—	—	—	—
Torralba II																							
IVAU 18/200	1	—	—	—	—	—	—	+16.6	..	9.2	—	—	—	—	—	—	—	—	—	—	—	—	
	r	8.3	..	5.0	—	—	—	—	—	—	>16.6	11.6	11.0	+17.5	<14.8	<15.1	<19.8	17.0	17.5	+31.2	18.8	<17.2	13.4
La Hidroeléctrica																							
IPS 1142	r																22.8	16.5	18.1	34.7	19.3	18.3	..
Montabuzard																							
MNHNP Or 68	1				15.2	16.8	—	—	—	20.8	16.3	15.5	—	—
<u>B. latidens</u>																							
Veltheim																							
NSSW 99	1				15.2	6.8	7.8	16.0	8.8	9.9	15.2	9.9	11.3	16.7	12.6	12.7	20.1	15.9	15.8	30.1	17.7	15.1	12.9
	r				15.8	5.9	8.4	15.9	8.6	9.6	15.1	10.3	11.3	16.7	12.6	12.4	19.3	14.4	15.8	29.5	17.4	15.3	12.8
Inchil I																							
MTA AKI-3/6	1										15.4	..	9.7	—	12.5	—	18.5	14.8	14.9	30.7	17.7	15.8	12.5
MTA AKI-3/8	r																						
MTA AKI-3/11	r																						
<u>B. lockharti</u>																							
Pellicanus																							
UCBL 320302	1																19.8	15.5	15.6	32.2	17.3	15.5	12.1
UCBL 320309	1																21.9	—	16.8	—	17.4	16.2	—
La Rondeu																							
UCBL 320292	1							16.8	8.8	10.7	16.6	11.0	12.1	16.6	>12.4	13.4	19.0	15.2	16.3	31.9	17.2	15.9	12.2
UCBL 320292	r							17.5	8.7	11.0	17.2	11.2	12.4	16.8	12.6	13.3	19.3	15.5	16.5	32.8	17.4	16.3	12.3
UCBL 320291	r				15.0	6.6	8.0	16.8	7.7	10.2	17.7	11.2	11.6										
UCBL 320299	r																21.8	+18.0	17.9	36.2	18.1	17.7	12.9
UCBL 320299	1																20.3	17.3	17.1	—	19.8	16.9	—
UCBL 320275	1													17.5	12.6	13.5	20.5	16.2	17.4	36.1	18.6	16.8	13.8
UCBL 320275	1									15.5	..	11.8	>14.2	—	—	18.2	>14.9	15.1					
UCBL 320275	1													20.7	13.7	14.3	23.2	18.0	17.6				
Baigneaux																							
NMB SO-3022	1				16.4	7.7	9.3	18.3	9.5	12.8	—	—	—	—	—	—	18.3	—	32.9	19.3	17.5	13.1	
	r				16.3	8.0	9.3	18.6	9.4	13.1	—	—	13.8	—	—	—	21.2	18.2	18.1	33.8	19.4	17.4	13.6
Chevilly																							
MNHNP CHE 30	1																20.6	17.5	18.4	32.5	16.6	17.6	13.2
MSNO 260 +	—																23.0	17.4	18.5	35.4	20.0	18.6	13.8
Arraya																							
MNHNP —	1				17.1	8.1	>9.3	17.8	10.3	11.5	17.0	12.4	13.3				21.3	18.2	17.7	32.8	19.3	17.8	12.2
Pontlevoy																							
MNHNP FP 288	..																23.2	..	19.0	33.2	21.2
MNHNP FP 1062	r													19.6	—	15.4	21.1	17.9	18.8				
Tavers																							
CIND —	1										18.8	12.1	13.1				22.3	18.5	19.1	35.9	21.0	19.2	14.4
<u>B. akatikubas</u>																							
Majiwa																							
KNM-MJ 9773	r																20.8	15.6	15.7	—	17.6	16.9	—
<u>B. intermedius</u>																							
Yehuli Juanzhi																							
IVPP V 9519	1																20.0	16.9	16.5	33.5	18.8	17.0	13.9
	r													—	—	13.6	22.0	17.1	16.8	32.0	18.9	17.0	13.2
Jinzuizhigou																							
IVPP V 9520	r																>21.6	16.8	16.4	35.8	19.2	18.2	13.7
Maerzuizigou																							
IVPP V 9521	r							17.0	7.7	10.2	16.4	11.2	12.3	18.6	13.5	13.3	23.2	17.0	16.5	34.0	18.7	17.2	14.3
BMNH BPV-928a	r																—	16.5	—	33.9	19.2	17.4	13.8
BMNH BPV-928b	1																—	16.2	16.9	33.0	19.4	17.3	14.0
BMNH BPV-929	r							16.8	7.2	10.8	18.1	10.6	12.7	16.2	—	—	20.5	16.8	16.9	33.0	18.9	16.3	13.2
BMNH BPV-1670	1										18.7	—	+13.5	17.6	—	<14.3	21.4	17.4	16.4	34.8	20.9	17.6	15.0
<u>B. guptai</u>																							
HGSP 8127																							
HGSP 8127/436	r							19.7	9.8	11.7	18.6	12.9	14.4										
HGSP 8311							</																

		P1			P2			P3			P4			M1			M2			M3			
		DAF	DTa	DTp	DAF	DTa	DTp	DAF	DTa	DTp	DAF	DTa	DTp	DAF	DTa	DTp	DAF	DTa	DTp	DAF	DTa	DTp	
Klein Hadersdorf																							
(Frank)																							
NMW 8X1944	1				16.2	8.9	9.3	16.3	11.4	12.5	16.0	12.6	13.3	19.9	16.2	15.8	32.9	18.6	16.5	10.7			
	r				12.9	7.4	7.9	15.5	9.0	9.2	15.1	11.4	12.3	17.1	12.6	12.9							
Çandir																							
PIMUZ CA I/22	1				13.4	7.0	7.8	16.4	8.6	10.2	15.4	11.4	13.6	18.5	13.7	15.0	22.0	17.8	19.0	33.6	20.5	19.8	13.5
	r				14.0	7.2	7.9	16.7	8.8	10.8	16.3	11.0	13.8	18.4	13.7	15.0	22.0	17.8	19.1	33.7	20.5	19.7	12.8
MTA —	1				12.8	7.6	7.2	15.3	9.5	10.2	17.2	12.6	13.2										
	r				13.1	7.8	8.1	15.9	7.8	10.6	—	12.4	—	17.1	13.8	15.0	22.1	18.5	18.1	—	19.6	18.4	—
MTA —	r				14.0	7.8	8.7	16.6	9.6	11.6	18.8	13.5	—										
MTA —	1										15.9	11.0	12.5	18.4	13.7	14.5	22.4	17.3	16.7				
Mühsingen																							
NMB TD 691	1															—	16.8	—	32.6	18.7	16.9	11.9	
Paracuellos V																							
MNCN PA V569	1				16.9	9.2	10.1	18.5	>12.3	—						22.6	17.6	17.5					
Manchones I																							
IVAU MA 105	r										—	—	—	21.3	18.0	17.7							
IVAU MA 120	r				—	9.0	8.8	>17.0	11.5	>12.8													
IPS 1100	1															21.3	18.1	17.8	34.6	—	18.4	12.8	
Arroyo del Val IV																							
IVAU AR IV 2	r				—	10.1	>10.6	17.4	12.0	12.5						—	—	—	32.1	18.5	17.7	12.5	
IVAU AR IV 3	1				—	—	11.6	18.1	12.3	14.2	—	—	—	—	—	—	—	16.8	34.5	19.3	16.9	14.6	
IVAU AR IV 4	r				18.0	10.4	11.4	17.9	12.8	14.0	—	—	—	—	—	22.4	17.6	16.8	34.3	19.7	17.7	14.0	
IVAU AR IV 6	r							17.6	12.5	12.2	—	—	—	>13.0									
IVAU AR IV 87	1															22.3	—	18.0	33.5	—	—	14.2	
IVAU AR IV 88	1				16.8	9.5	10.7	16.9	11.9	12.3	16.8	—	13.4	20.7	>17.1	16.8	30.7	18.4	17.5	13.0			
IVAU AR IV 89	r															22.7	18.8	18.1	—	—	—	—	
MPUZ AV-57	1												20.0	13.2	13.5	22.4	16.4	16.5	—	18.2	—	—	
RQM 263.035 -																							
263.040	1				16.6	9.2	9.9	17.9	11.1	11.2	19.3	12.9	13.4	—	—	13.7	22.2	18.5	17.5	33.8	20.6	19.0	14.3
RQM 263.103	r															—	—	13.5					
RQM 263.220	r										+16.0	—	>9.7	20.0	13.4	13.4	22.2	16.2	16.5	30.9	—	17.5	+13.3
MNCN —	.				16.5	..	10.5	16.3	..	12.2	18.1	..	14.2	22.5	..	17.2	34.4	20.1			
Merisor (west slope Mendru)																							
HGSB Ob 14	1							17.2	13.8	13.6	>17.5	—	13.6	23.6	18.3	17.6	—	—	—	—	—	12.4	
	r				17.0	10.5	12.2	18.0	14.2	13.4									37.0	20.5	18.7	13.0	
Loretto																							
NMW SK 1072	1				<17.7	+16.7	+19.0	+22.7	..	+19.2	36.5	..	19.6	12.7
	r				16.0	18.2	9.9	10.6	18.4	14.9	14.2	—	—	—	23.8	19.6	18.7	34.7	21.3	20.1	12.8
La Grive																							
MGL LGr 712	1															21.1	16.9	17.1	30.9	—	17.3	10.2	
MGL LGr 722	r															—	—	—	—	19.3	17.1	—	
(composite)																							
MGL LGr 735	r															—	—	19.1	35.8	21.4	20.6	11.7	
Cerro del Otero																							
MNCN NM 18001	r															25.4	19.1	19.8	35.4	21.9	19.3	14.2	
MNCN NM 18002	1															25.8	19.5	19.6	36.5	21.0	19.2	14.0	
S. Quirze																							
IPS VP 1025	1				14.2	..	7.2	16.0	..	10.0	17.2	..	13.0	—	—	—	20.8	..	18.6	34.0	19.5
Escanecrabe																							
MNHNP HCP 18	1										17.9	13.0	14.1	18.8	14.6	14.5	23.8	19.6	19.2	36.2	21.9	19.0	10.9
MNHNP HCP 19	r										17.3	12.9	14.0	18.9	14.6	14.2	23.1	19.5	19.1	36.1	21.9	19.3	10.6
Wien Heiligenstadt																							
NMW SK 1666a	1				14.1	9.2	9.1	15.6	12.6	12.3	17.5	13.7	13.6	21.0	17.7	16.9	33.9	19.3	18.1	11.1			
	r													21.3	17.7	16.8	34.0	19.5	17.6	10.6			
Castell de Barberà																							
IPS 1955	1															22.2	17.9	17.2	35.2	19.9	17.9	10.4	
IPS —	1				12.7	..	8.0	15.4	..	10.3	16.5	13.0	11.2	18.7	14.4	12.5	21.8	18.3	17.3	30.5	20.4	17.8	..
Hostalets																							
CJFV —	r				13.7	7.5	8.0	16.5	9.1	10.3													
CJFV —	1										—	—	—	>15.4	—	—	20.4	—	—	—	—	17.5	10.6
CJFV —	1							15.4	16.7	17.1							
MGSCB 48506	r							18.7	13.0	14.3	18.9	>13.5	>13.9	23.1	18.8	17.9							
Markt Rettenbach																							
BSPHGM	1				13.2	7.6	8.5	15.6	9.5	11.6	17.2	13.5	13.5	>17.4	—	13.1	19.3	11.8	11.9	31.9	19.1	18.2	12.2
1929 I ~47	r				13.6	7.5	8.8	15.9	9.6	11.3	18.0	13.6	13.9	17.7	—	13.2	21.8	16.8	17.1	31.9	19.2	18.6	12.3

TABLE 12 Measurements in mm of associated upper molars and premolars.

		P ¹			P ²			P ³			P ⁴		M ¹			M ²			M ³				
		DAp	DTa	DTp	DAp	DTa	DTp	DAp	DTa	DTp	DAp	DT	DAp	DTa	DTp	DAp	DTa	DTp	DAp	DTa	DTp	DTpp	
<u>Nguruwe kiivium</u>																							
Songhor																							
KNM-SO 1118	1											9.2	10.3	11.4	10.5	10.6	14.2	12.7	12.3				
<u>Lopholistriodon</u>																							
<u>L. moruoroti</u>																							
Moruorot																							
KNM-MO 9	1						6.9	4.6	6.4	6.7	7.8	9.0	8.8	9.1	10.4	10.5	>9.8						
Arrisdrift																							
KNM-ZP 1390 cast																							
SAM-PQ AD 136	1									6.4	8.3	8.9	>8.9	9.2	10.8	10.5	10.2	11.3	10.3	8.2	..		
<u>L. akatidogus</u>																							
Fort Ternan																							
KNM-FT 3319	r									11.2	12.1	14.8	13.4	13.5	+17.7	—	—	21.2	>17.2	15.3	..		
<u>L. kidogosana</u>																							
Ngorora D, 2/10																							
KNM-BN 992	1						9.3	5.9	9.0	9.4	9.1	12.0	8.8	9.9	14.8	11.4	11.9	16.4	—	12.0	..		
	r				9.5	5.3	8.2	9.9	5.9	9.2	8.8	8.7	12.0	8.8	10.2	15.0	>11.5	12.0	17.6	12.8	11.8	..	
<u>Kubanochoerus</u>																							
<u>K. khinzikebirus</u>																							
Gebel Zelten 6424/92																							
KNM-ZP-1389 cast	1	>28.6	—	16.7	38.5	22.6	22.3	35.4	24.9	26.9	27.9	33.8	34.1	32.0	35.3	42.9	43.5	41.8	58.6	47.1	44.5	20.1	
<u>K. massai</u>																							
Gebel Zelten																							
MNHP Z 1961	1	21.2	11.0	9.7																			
	r	21.6	10.5	9.4	26.1	13.8	18.7	26.2	17.1	23.2	20.9	26.9	21.8	27.6	29.4	32.8	34.7	33.0	41.0	34.4	29.4	13.7	
MNHP Z 1961	r											26.1	22.9	24.3	29.2	>26.2	27.4						
MNHP Z 1961	r											25.9	+24.7	<25.6	31.5	>30.4	>28.3						
<u>K. gigas</u>																							
Quantougou																							
IVPP cast type	1				31.4	18.9	>22	29.5	22.3	—	24.0	28.5	28.8	26.9	29.9	36.0	36.2	36.4	—	36.9	—	—	
<u>Maerzuizigou</u>																							
IVPP V 8501																							
	1	>17.5	9.9	12.5	29.7	17.2	25.0	32.0	20.8	27.5	22.9	27.9	30.9	28.3	30.7	39.6	36.7	35.6	48.1	37.5	36.7	+23.2	
	r	17.4	10.1	12.8	29.2	16.6	24.7	31.7	21.4	24.5	25.8	28.7	30.5	28.6	30.0	39.5	36.4	36.0	47.5	38.0	34.9	+21.6	
<u>BNHM BPV-900</u>																							
	1	>18.0	29.5	16.3	22.1	28.7	+19.5	26.2	25.2	28.7	28.1	40.1	
	r	—	—	—	29.7	16.5	22.5	25.3	..	+29.2	40.5	
<u>BNHM BPV-901</u>																							
	1	18.9	9.1	11.0	—	—	—	29.9	19.0	24.3	24.4	25.3	31.5	28.0	28.9	37.9	34.6	34.3	47.4	37.6	36.9	24.8	
	r	19.4	10.6	9.2	—	—	—	29.8	19.2	23.5	23.7	24.9	31.6	27.0	29.3	37.9	34.2	33.5	46.2	37.1	37.3	20.6	
<u>BNHM BPV-902</u>																							
	1				26.9	16.1	21.6	27.8	19.0	25.7	24.5	25.8	30.6	27.5	28.9	37.7	34.1	34.3	42.2	37.4	33.1	..	
	r	18.9	<10.3	10.7	27.2	16.9	21.5	27.5	20.7	23.6	24.2	26.5	30.9	26.9	28.1	37.6	34.0	33.9	44.0	37.7	33.9	..	
<u>BNHM BPV-903</u>																							
	1	21.0	10.1	12.4	27.2	15.8	>22.7	31.7	19.2	26.3	25.7	28.0	+34.2	29.5	<32.4	38.2	39.0	37.5	57.8	41.6	37.6	22.7	
	r	>20.3	10.4	14.6	>29.8	15.9	21.4	31.5	19.0	26.1	25.5	27.5	33.2	+30.7	32.0	41.1	38.6	38.1	58.2	43.1	38.2	25.4	
<u>BNHM BPV-909</u>																							
	1	20.4	10.9	12.9	30.6	17.0	22.7	32.1	20.3	25.1	25.9	26.1	32.2	—	31.6	40.5	38.4	37.2	54.1	41.6	35.3	18.7	
	r	20.2	10.1	12.8	30.8	17.1	22.1	30.7	20.0	26.3	25.0	28.3	31.9	30.4	31.8	39.4	37.0	37.1	53.0	39.7	35.0	21.0	
<u>BNHM BPV-910</u>																							
	1	19.7	10.2	9.1	27.1	16.5	21.5	31.2	21.8	26.5	25.0	27.0	31.5	34.5	—	40.5	33.0	33.5	53.6	37.0	31.0	..	
	r	19.0	11.0	9.5	27.8	18.0	21.7	30.0	20.0	27.0	23.6	27.5	30.5	34.0	32.5	39.5	33.0	33.0	54.0	38.0	32.0	..	
<u>Bunolistriodon</u>																							
<u>B. affinis</u>																							
Bugti																							
IM B 528	r											13.5	16.2	15.8	15.5	16.3							
<u>B. anchidens</u>																							
Rusinga RI																							
KNM-RU 2780	1				19.7	9.7	11.6					14.3	17.7	19.0	18.3	20.3	21.3	—	22.1	28.6	25.3	23.2	9.7
KNM-RU 2781	r											13.9	16.3	18.3	18.2	19.3	21.0	21.6	+22.0	28.0	25.2	23.3	9.4
KNM-RU 2782	1				—	—	15.1	13.8	16.0	18.5	18.2	19.4	20.7	21.7	>21.8								
<u>B. jeanneli</u>																							
Moruorot																							
MNHP 1933-9	1							21.0	14.3	<16.7	16.1	19.7	21.1	21.1	20.6	23.3	25.0	22.9	27.5	23.8	20.5	..	
(holotype)	r							20.8	14.6	16.8	16.0	19.6	21.3	20.1	20.1	23.8	24.2	23.2	28.7	23.6	20.6	..	
<u>B. sp.</u>																							
Baragoi BAR																							
KNM-BG 14778	1													—	—	15.3	—	16.3	—				
<u>B. aff. latidens</u>																							
Quinta da Farinheira																							
CEPUNL 4	r											13.8	16.9	16.7	17.7	17.9	20.3	23.7	22.4	29.5	24.9	21.3	..
CEPUNL 6	r				14.9	..	10.7	16.4	..	14.4													
Quinta da Raposa																							
CEPUNL 35	..													—	—	—	20.7	22.3	22.6	26.1	22.5	20.7	..
Quinta Grande																							
CEPUNL 29	r															20.9	22.7	21.5	27.9	23.8	21.3	..	
Quinta das Pedreiras																							
CEPUNL 55	r															20.8	20.8	19.9	24.0	22.1	17.7	..	
La Artesilla																							
MPZ 6450	1											12.5	15.0	16.3	15.7	15.6							
MPZ 6451	r																	>18.8	>16.5	19.1	>24.4	21.6	18.5
MPZ 6452	1																	20.0	—	19.4	+25.2	20.9	15.3
MPZ 6453	r						16.0	..	15.4	12.7	15.4												
MPZ 6457	1	8.6	5.1	5.2								13.9	15.9	18.4	17.2	17.1	21.3	20.9	21.3	26.2	21.9	19.0	11.6
MPZ 6459	r				16.0	9.8	—	16.5	11.1	—													
<u>B. latidens</u>																							

TABLE 15a Measurements of the postcranial skeleton in mm.

Axis	Body		Hp	Total H	Vertebral Foramen		Craneal artic. DT	Caudal artic. DT		
	DAP	DTp			H	DT				
<u>Kubanochoerus massai</u>										
Gebel Zelten										
MNHNP Z 1961		62.6	38.8	34.8	--	15.1	21.3	66.4	44.7	
MNHNP Z 1961		61.0	--	--	--	--	--	58.8	--	
MNHNP Z 1961		56.1	38.2	32.6	--	--	--	65.2	--	
<u>Humerus distal</u>										
<u>Nguruwe kijivium</u>										
Mteitei 32										
KNM-MV 18	l	..	24.4	16.7	15.4	11.4	13.4	11.1		
Rusinga R30										
KNM-RU 5343	r	--	--	16.5	14.5	9.5	10.6	9.4		
<u>Kubanochoerus massai</u>										
Gebel Zelten										
MNHNP Z 1961	..	62.3	54.3	41.0	40.4	28.3	33.5	27.6		
MNHNP Z 1961	..	57.4	51.6	39.2	36.8	26.6	31.8	27.5		
<u>Bunolistriodon</u>										
<u>B. anchidens</u>										
Rusinga R1										
KNM-RU 3342	l	--	43.6	31.4	>24.4	19.8	20.9	>17		
<u>B. lockharti</u>										
Langenau 1										
SMNS 41231	l	..	..	37.4	--	--	--	26.0		
SMNS 41418	..	..	..	34.5	32.0	--	--	28.2		
<u>Listriodon splendens</u>										
Paşalar										
PDTFAU G 932	l	--	--	33.2	31.6	22.1	25.4	24.6		
La Grive										
MGL LGr 718	r	--	>55.5	42.2	30.6	29.4	30.0	26.0		
MGL LGr 2644	l	--	>42.3	34.3	--	22.9	27.7	24.0		
La Chau-de-Fonds										
MHNCF --	r	--	--	34.8	--	--	--	--		
La Cisterniga										
MNCN NM 1292	l	--	--	38.5	>38.0	27.1	31.3	27.5		
MNCN NM 1292	l	--	--	>37.1	>35.9	25.9	29.9	25.1		
MNCN NM 1421	r	>45.7	52.8	36.6	33.5	25.7	31.8	27.3		
<u>Radius</u>										
<u>Kubanochoerus massai</u>										
Gebel Zelten										
MNHNP Z 1961	r	..	31.9							
<u>Bunolistriodon</u>										
<u>B. anchidens</u>										
Rusinga R1										
KNM-RU 5853	l	20.9	30.8							
<u>Listriodon splendens</u>										
Paşalar										
PDTFAU G 305	l	21.1	32.8							
PDTFAU G 1808	r	--	35.4							
PDTFAU G 1885	l	22.7	37.9							
Arroyo del Val IV										
AR IV 400	l	27.9	42.3							
La Grive										
MGL LGr 607	l	--	--	--	25.2	18.5	33.7	29.1	15.5	14.7
La Ciesma										
DPZ 2009	..	--	--	--	..	19.9	..	28.9		
<u>Ulna</u>										
<u>Kubanochoerus massai</u>										
Gebel Zelten										
MNHNP Z 1961	r	--	--	--	--	41.9	..	--		
MNHNP Z 1961	r	--	--	--	--	--	24.9	--		
<u>Listriodon splendens</u>										
Arroyo del Val IV										
IVAUA AR IV 186	l	--	--	39.4	--	--	31.5	--		
<u>MC III</u>										
<u>Kubanochoerus massai</u>										
Gebel Zelten										
MNHNP Z 1961	l	>26.5	29.7	+126.2	120.5	--	24.2			
MNHNP Z 1961	r	>28.7	--	116.3	110.5	--	25.3			
MNHNP Z 1961	r	--	34.9	--	--	--	--			
MNHNP Z 1961	r	--	>27.1	--	--	--	--			
<u>Bunolistriodon</u>										
<u>B. aff. latidens</u>										
La Artesilla										
MPZ-6473	r	20.6	20.4							
<u>B. lockharti</u>										
Buñol										
FBS 13	l	--	>23.9							

MC III	DAPp	DTp	L	1	DAPd	DTd
Pellecahus						
UCBL 320282	r	25.0	..			
La Romieu						
NMB GB 1265	r	21.7	22.1			
Langenau 1						
SMNS 41234	1	27.1	26.0			
Szentendre						
HGSB V 13077	r	--	>24.6			
<u>B. guptai</u>						
?HGSP 8316						
HGSP 8316/1982	1	21.8	25.8			
<u>Listriodon splendens</u>						
Arroyo del Val IV						
IVAU AR IV 114	1	--	28.5			
MNCN --	1	>23	26.8			
Murrero						
IVAU MR 10	1	--	29.8	99.2	..	22.1 24.1
La Grive						
MGL LGr 755	r	>27.0	30.3	--	109.6	-- 25.6
MGL LGr 756	r	>22.4	>25.2	105.7	97.3	22.1 22.0
MGL LGr 1675	r	>21.7	>23.1			
MGL LGr 1679	r	>19.6	23.7			
La Cisterniga						
IPS 1133	r	28.2	25.4			
MC IV	DAPp	DTp	L	1	DAPd	DTd
<u>Nguruwe kijivium</u>						
Mfwanganu						
KNM-MW 516	1	9.0	10.7	--	--	--
<u>Kubanochoerus massai</u>						
Gebel Zelten						
MNHNP Z 1961	1	20.8	19.1	110.8	99.2	23.6 21.3
MNHNP Z 1961	1	20.3	20.2	--	--	--
<u>Bunolistriodon</u>						
<u>B. aff. latidens</u>						
La Artesilla						
MPZ-6474	1	16.2	20.2			
<u>B. lockharti</u>						
Pellecahus						
NMB GB 2460	r	>17.9	+17.8			
UCBL 320282	r	18.9	20.5			
UCBL 320282	r	18.1	19.9			
Buñol						
PAN 681	r	18.2	19.9	103.0	..	21.0 >19.5
FBS 11	r	19.0	22.0			
Can Canals						
IPS 1177	1	--	--			
<u>Listriodon splendens</u>						
Paşalar						
PDTFAU G 742	1	17.6	17.7			
PDTFAU G 879	1	>17.6	19.9			
La Grive						
MGL LGr 752	r	18.9	21.7	106.0	96.5	22.0 20.6
MGL LGr 754	1	>17.1	>17.9	>96.8	90.6	>19.5 19.8
MGL LGr 1749	1	16.6	19.4	96.1	87.3	19.6 19.5
MGL LGr 1753	r	>18.4	>20.9			
S. Quirze						
MGSCB 48562	r	16.1	18.3			
Phalange 1, III/IV	DAPp	DAPpf	DTp	L	DAPd	DTd
<u>Nguruwe kijivium</u>						
Mfwanganu						
KNM-MW 517	r	9.6	..	10.8	--	--
<u>Kubanochoerus</u>						
<u>K. hussaini</u>						
HGSP 8213						
HGSP 8213/450	r	43.2	..	55.7	77.8	27.1 42.3
HGSP 8405						
HGSP 8405/3047	1	--	--	--	>58.5	20.1 32.9
<u>K. massai</u>						
Gebel Zelten						
MNHNP Z 1961	r	19.7	..	23.4	48.2	>12.9 20.0
<u>K. gigas</u>						
Kundal Nali						
IVAU CHK 168	1	32.3	..	32.3	60.3	31.7 21.7
<u>Bunolistriodon</u>						
<u>B. lockharti</u>						
La Romieu						
UCBL 320298	1	19.9	..	--	--	--
Pellecahus						
UCBL 320310 pes, IV	1	19.6	..	22.6	+43.5	+13.0 --
NMB GB 1457	r	20.7	20.1	22.5	49.6	12.2 >15.8
Langenau 1						
SMNS 40681	r	19.0	..	18.5	--	13.1 15.5
Buñol						
FBS 17	1	20.6	..	22.8	--	--
FBS 21	1	--	--	--	--	13.2 17.0

Phalange 1, III/IV		DAPp	DAPpf	DTp	L	DAPd	DTd
FBS 22	r	--	--	--	--	14.3	17.6
PAN 23	r	>18.2	..	21.8	--	--	--
PAN 209	r	--	--	17.6	--	--	--
IVAU BU 53	r	22.3	..	22.9	45.3	12.8	16.5
Monteagudo							
IPS 1511	r	+20.6	19.5	..	>49.0	12.0	14.6
Pontlevey							
NMB Fa 209	r	17.0	14.7	17.5	43.1	11.3	13.5
<u>B. aff. latidens I</u>							
<u>Tarazona</u>							
UPV T2.49	1	--	--	--	--	11.5	15.4
<u>Listriodon splendens</u>							
<u>Paşalar</u>							
PDTFAU G 43	r	20.2	..	22.8	--	--	--
PDTFAU G 1341	r	--	--	--	--	13.4	15.8
PDTFAU G 2114	1	19.3	..	21.3	47.4	12.8	15.7
<u>Manchones I</u>							
IPS 1865	r	21.7	..	23.2	51.6	14.4	17.7
<u>La Grive</u>							
UCBL --	1	18.1	..	19.3	46.5	13.1	15.4
UCBL --	1	21.2	..	19.8	48.4	13.5	17.0
UCBL --	1	18.6	..	19.4	47.5	12.0	15.3
UCBL --	1	19.6	..	22.1	44.1	14.1	17.8
UCBL --	r	20.2	..	20.2	45.5	12.8	16.3
MGL LGr 1743	1	juvenile				13.3	17.6
MGL LGr 1862	1	18.0	17.2	19.2	46.3	11.8	14.6
MGL LGr 1863/1685	1	19.6	16.7	18.4	45.9	12.3	15.9
MGL LGr 1864	1	21.0	17.5	20.4	48.7	12.3	17.4
MGL LGr 2639	r	22.2	19.7	23.6	52.6	15.7	18.6
<u>La Chaux-de-Fonds</u>							
MHNCF --	1	19.3	17.9	19.9	47.8	12.5	16.3
<u>La Cisterniga</u>							
MNCN M 610	1	18.8	20.1	20.1	48.2	12.4	16.2
<u>Phalange 2, III/IV</u>							
<u>Lopholistriodon</u>							
<u>L. moruoroti/pickfordi</u>							
<u>Maboko</u>							
KNM-MB 10304	1	5.5	5.1	5.1	9.2	4.3	4.3
KNM-MB 14458	1	6.6	..	6.5	8.8	5.8	6.2
<u>Kubanochoerus</u>							
<u>K. hussaini</u>							
HGSP 8127							
HGSP 8127/432	r	27.1	..	30.1	41.4	22.7	29.7
<u>K. massai</u>							
<u>Gebel Zelten</u>							
MHNHP Z 1961	r	20.9	19.4	18.2	29.6	16.6	19.0
<u>Bunolistriodon</u>							
<u>B. aff. latidens</u>							
<u>La Artesilla</u>							
MPZ-6482	1	17.2	..	15.0	25.9	13.5	14.3
MPZ-6483	r	18.9	..	15.8	25.8	13.8	13.9
<u>B. lockharti</u>							
<u>La Romieu</u>							
UCBL 320308	r	17.3	..	14.6	24.6	12.0	14.6
UCBL 320308	r	17.0	..	14.5	23.8	12.9	14.4
UCBL 320308	1	17.8	..	15.1	26.3	12.1	12.9
<u>Pellecahus</u>							
UCBL 320310 pes IV	1	19.2	..	16.2	26.4	14.4	16.0
<u>Buñol</u>							
IPS 1145	1	--	--	>16.9	25.8	--	>16.9
BUS 4	r	20.1	18.8	16.5	27.6	>13.5	13.9
FBS 16	1	20.8	19.9	18.5	29.3	17.3	19.7
FBS 19	r	18.3	17.5	16.4	26.4	13.3	13.6
FBS 20	r	>17.8	>17.6	15.7	+28.6	--	--
PAN 37	1	--	--	--	--	>15.2	18.0
<u>Szentendre</u>							
HGSB V 13077	r	21.1	19.0	23.0	--	--	--
<u>B. aff. latidens I</u>							
<u>Valdemoros IA</u>							
IVAU VA IA --	r	--	--	--	--	10.2	12.3
<u>Listriodon</u>							
<u>L. pentapotamiae</u>							
<u>Kanetti</u>							
IVAU KA 54	1	--	..	14.6	24.1	13.9	14.1
<u>Cheski Wala</u>							
IVAU CHC 133	r	20.4	..	15.7	28.5	15.4	15.1
IVAU CHC 134	r	--	..	15.4	17.8	--	14.1
IVAU CHC 137	1	>18.4	..	15.1	26.9	13.9	13.5
<u>Mochi Wala</u>							
IVAU CHO 90	r	19.9	..	15.2	28.1	12.3	13.7
<u>L. splendens</u>							
<u>Paşalar</u>							
PIMUZ --	1	19.8	18.4	15.5	28.6	15.2	14.4
PIMUZ --	1	20.1	18.9	16.3	>29.8	14.6	15.7
PDTFAU F 89	r	19.3	19.3	17.9	28.9	--	17.9
PDTFAU F 348/1	r	19.2	18.4	17.2	--	--	15.1

Phalange 2, III/IV	DAPp	DAPps	DTp	L	DAPd	DTd
PDTFAU F 348/2	1	---	---	+28	---	---
PDTFAU F 590/9	r	21.0	19.5	16.8	---	---
PDTFAU G 348	r	20.9	20.0	18.3	30.2	17.1
PDTFAU G 428	1	20.6	19.5	16.1	30.3	14.7
PDTFAU G 1016	r	20.6	20.0	16.7	29.2	14.5
Manchones I						
MA I 136	r	20.2	19.6	16.0	19.6	>13.5
Arroyo del Val IV						
IVAU AR IV 98	r	>19.7	>18.7	16.8	28.7	13.7
IVAU AR IV 113	1	23.7	22.4	20.5	>32.9	18.8
Arroyo del Val I						
IVAU AR I --	1	23.3	21.5	19.7	---	---
Murrero						
IPS 1070	1	18.0	..	16.8	24.8	13.9
La Grive						
UCBL --	1	17.6	..	15.6	24.3	13.7
UCBL --	r	19.7	..	15.4	28.2	>14.2
UCBL --	r	19.3	..	15.5	29.1	15.0
UCBL -- (juvenile)	r	---	---	---	---	17.3
MGL LGr 2240	1	17.6	16.8	15.1	27.4	12.5
MGL LGr 1693	r	22.1	20.9	19.0	32.8	>16.0
MGL LGr 1695	r	20.3	19.6	17.0	31.3	15.0
MGL LGr 1697	1	20.5	20.0	16.1	30.8	14.7
MGL LGr 1704	r	---	---	17.2	28.4	17.4
MGL LGr 1723	r	22.8	21.2	17.8	31.2	15.8
La Chaux-de-Fonds						
MHNCF --	1	---	---	18.9	35.8	17.3
La Cisterniga						
MNCN NM 1396	1	23.8	22.2	19.9	33.8	18.3
Hostalets						
MGSCB 48555	r	21.8	20.5	17.1	31.2	16.6

Tibia	DAPp	DTp	L	1	DAPd	DTd
<u>Kubanochoerus</u>						
<u>K. maryunngui</u>						
Baragoi						
MNHNP Z 1961	1	---	---	---	34.5	47.7
<u>Kubanochoerus massai</u>						
Gebel Zelten						
MNHNP Z 1961	1	35.7	39.4			
<u>Bunolistriodon</u>						
<u>B. lockharti</u>						
Langenau I						
SMNS 41232	r	---	---	---	29.0	27.5
SMNS 41233	1	---	---	---	..	..
SMNS 41236	r	38.3	37.8	+151	..	19.6
Szentendre						
HGSB V 13077	r	---	---	---	---	---
<u>Listriodon</u>						
<u>L. pentapotamiae</u>						
Cheski Wala						
IVAU ..	r	---	---	---	22.1	22.5
<u>L. splendens</u>						
MGL LGr 1659	r	---	---	---	26.1	29.9
Cerro del Otero						
MNCN 201	1	..	..	>233.0	..	31.4
MNCN 201	1	..	..	---	---	+33.0
MNCN 201	r	..	..	235.4	..	33.3

Calcaneum	L	Lup	Llow	head DAP	DT	tuber DAP	DT	facet DAP	DT	max DAP
<u>Kubanochoerus</u>										
<u>K. massai</u>										
Gebel Zelten										
MNHNP Z 1961	1	107.6	67.7	+42.9	27.8	21.1	26.2	12.1	31.0	---
MNHNP Z 1961	r	101.1	62.2	42.8	27.5	21.8	24.5	13.2	29.4	23.7
<u>K. gigas</u>										
Maerzuizigou										
BMNH	1	+170	+99	+65	+39.6	---	41.5	17.3	46.2	40.2
<u>Bunolistriodon</u>										
<u>B. lockharti</u>										
La Romieu										
UCBL 320301	r	---	61.3	---	26.7	23.8	26.4	15.5	..	26.4
Pellecahus										
UCBL 320310	1	>88	59.5	30.8	22.8	21.6	24.1	12.7	..	..
Buñol										
FBB-206	r	---	---	---	---	---	26.6	14.0	29.0	..
Szentendre										
HGSB V 13077	r	---	---	41.5	---	24.2	---	---	30.8	26.2
<u>B. guptai</u>										
HGSP 8412										
HGSP 8412/3128	r	---	---	---	---	---	---	---	28.5	20.7
<u>Listriodon</u>										
<u>L. pentapotamiae</u>										
Burri Wala										
IVAU CHB 26	..	---	---	---	---	---	18.7	9.7	23.3	18.3

Calcaeaem	L	Lup	Llow	head DAP	DT	tuber DAP	DT	facet DAP	DT	max DAP
HGSP 8220										
HGSP 8220/1040	1	--	--	--	--	22.5	..	25.1	18.6	--
?HGSP 8302										
HGSP 8302/1305	1	--	--	--	--	--	≥12.1	--	--	--
<u>L. splendens</u>										
Arroyo del Val IV										
MPZ DPZ/AV-55	r	--	--	32.9	--	--	--	27.5	24.6	37.3
La Grive										
MGL LGr 1901	1	--	--	--	--	20.6	10.6	22.9	≥17.3	--
MGL LGr 1908	1	--	--	--	juvenile	22.3	12.2	25.7	--	--
MGL LGr 1910	r	--	--	37.5	--	23.5	12.1	28.1	20.9	35.0
MGL LGr 2619	1	82.8	50.1	36.0	19.8	18.4	20.8	11.6	24.5	19.8
La Chaux-de-Fonds										
MHNCF --	1	--	--	38.7	--	--	--	27.8	24.0	35.4
Cerro del Otero										
MNCN 190	r	>91.3	>57.6	33.6	23.2	20.6	23.9	14.3	28.6	22.4
MNCN 190	r	--	--	34.4	--	--	--	13.5	22.1	20.0
La Cisterniga										
MNCN NM 1422	1	--	66.7	--	27.6	23.0	26.8	14.1	31.0	24.8
S. Quirze										
MGSCB	1?	--	--	--	≥25.6	≥19.7				
<u>Astragalus</u>										
<u>Nguruwe kijivium</u>										
Rusinga Kathwanga										
KNM-RU 3036	1	24.1	20.0	21.4	10.5	12.3	13.7	3.5		
Rusinga (loc.?)										
KNM-RU 5868	1	25.6	21.1	23.3	11.2	12.2	13.1	4.7		
Songhor										
KNM-SO 249	1	25.4	20.7	22.7	12.1	12.4	14.8	4.7		
Mfwanganu										
KNM-MW 439	1	>28.5	23.7	26.6	13.4	15.3	16.2	5.8		
KNM-MW 543	1	--	--	--	14.2	--	15.7	--		
<u>Kubanochoerus</u>										
<u>K. maryunngui</u>										
Baragoi BGX										
KNM-Bg 17970	1	59.9	47.3	54.7	30.3	36.3	34.4	10.7		
Baragoi loc.?										
KNM-BG 16903	r	61.4	47.0	≥54.0	28.3	34.1	--	10.7		
KNM-BG 16916	1	--	--	--	--	38.0	--	13.1		
<u>K. hussaini</u>										
Nyakach-Kaimogool E										
KNM-NC 9797	r	≥65.2	52.5	>61.2	32.3	>37.5	>34.5	--		
HGSP 8425										
HGSP 8425/3557	r	102.4	77.2	89.5	55.3	59.0	54.5	20.7		
<u>K. massai</u>										
Gebel Zelten										
MNHNP Z 1961	1	--	40.9	46.7	--	29.2	26.6	9.7		
MNHNP Z 1961	1	>57.5	+48.2	--	≥26.2	+26.7	--	11.8		
MNHNP Z 1961	r	57.6	45.3	53.3	26.3	29.3	28.4	9.8		
MNHNP Z 1961	r	56.3	43.8	50.6	27.1	30.8	28.8	10.2		
<u>K. gigas</u>										
Maerzuizigou										
BNHM --	1	82.2	62.6	71.5	46.0	52.0	44.7	19.9		
<u>Bunolistriodon</u>										
<u>B. anhidens</u>										
Rusinga R1										
KNM-RU 5089	r	42.7	34.4	39.0	20.4	22.1	22.1	6.3		
Rusinga-Kulu										
KNM-RU 5090	r	38.8	31.4	35.0	17.4	19.7	19.6	6.9		
<u>B. aff. latidens</u>										
Olivai da Suzana										
CEPUNL 27	1	41.7	..	..	22.3	24.4	23.8	8.3		
Quinta da Silvéria										
CEPUNL 48	1	42.3	..	..	20.1	23.6	22.8	8.8		
Quinta Grande										
CEPUNL 34	1	44.6	..	..	22.4	25.0	24.7	+7.8		
Quinta da Lobeira										
CEPUNL 45	1	39.3	..	..	19.4	22.1	22.1	7.9		
La Artesilla										
MPZ-6470	1	>42.1	..	..	20.6	22.1	--	9.2		
MPZ-6471	1	45.1	31.4	41.3	22.1	25.3	26.5	9.8		
MPZ-6472	r	--	32.9	38.2	20.4	23.4	21.1	+7.6		
Tarazona										
UPV T5.1	1	40.6	32.5	--	--	21.4	--	8.3		
UPV T6.35	r	>39.5	--	--	20.3	23.4	21.8	7.5		
La Hidroeléctrica										
IPS 1143	1	40.7	..	..	20.9	>20.3	24.2	7.3		
<u>B. M</u>										
Paşalar										
PDTFAU G 790	r	38.4	30.7	35.2	18.1	19.9	21.3	6.9		
PDTFAU G 1661	1	--	--	38.9	--	+22.8	--	7.7		
<u>B. lockharti</u>										
La Romieu										
UCBL 320301	1	47.5	..	..	>23.3	26.2	28.2	9.8		
UCBL 320301	r	52.0	..	..	25.3	27.8	27.6	10.4		

		Lex	Lu	Lint	DTp	DTd	R	d
Astragalus								
UCBL 320301	r	51.3	..	..	23.4	26.5	26.8	9.8
Pellecahus								
UCBL 320310	1	47.4	..	..	22.8	27.4	23.9	9.3
Baigneaux-en-Beauce								
NMB SO 1856	r	--	33.5	--	--	22.3	--	7.3
NMB SO 5746	1	44.4	36.2	>40.5	21.2	22.8	24.2	7.5
Buñol								
IPS 1144	1	47.3	..	44.2	+24.3	26.4	25.8	9.5
FBS 7	r	46.4	37.2	42.7	23.8	25.7	24.8	8.4
FBS 8	r	47.4	38.1	43.6	23.5	27.5	26.5	10.0
PAN 915	r	49.5	39.3	45.0	25.5	28.1	27.6	10.3
--	r	47.4	38.2	--	22.1	25.2	--	9.5
Gerlenhofen								
SMNS cast	r	--	--	--	--	23.8	26.5	9.7
Ravensburg								
NMB TD 554	r	48.2	38.5	44.1	23.6	26.0	25.9	8.6
NMB TD 554	1	>46.0	37.1	>41.7	21.7	23.5	23.7	--
Monteagudo								
IPS 1510	1	47.6	..	42.4	22.1	24.0	26.4	8.2
Pontlevoy								
MNHNP FP 727	r	46.3	36.8	41.9	22.9	25.9	26.1	9.3
Szentendre								
HGSB V 13077	r	51.0	39.0	45.5	25.9	30.5	27.3	10.7
Can Canals								
IPS 1176	1	--	--	--	--	27.2	--	10.4
IPS 1179	1	--	--	--	--	21.8	--	8.5
Quinta Pedreiras								
CEPUNL 60	1	43.4	..	..	20.4	>20.8	23.0	7.9
Quinta da Conceição								
CEPUNL 54	1	45.0	..	..	21.7	23.1	24.2	2.7
B. guptai								
?HGSP 8227								
HGSP 8227/1248	1	--	27.8	30.2	28.0	--	--	--
Listriodon								
L. pentapotamiae								
Dhok Talian loc. 189								
GSP 4484	1	40.2	36.8	44.5	21.8	24.6	..	9.0
Tekunja								
IVAU CHT 89	1	40.0	32.2	36.6	18.2	>22.3	20.9	+7.7
Mochi Wala								
IVAU CHO 76	r	42.5	34.3	39.6	19.9	>21.6	23.7	+7.0
HGSP 8102								
HGSP 8102/898	r	34.9	28.5	31.0	14.6	17.3	19.0	6.3
?HGSP 8105								
HGSP 8105/52	r	--	--	--	--	--	--	--
L. splendens								
Simorre								
MNHNP Si 170	1	43.0	..	..	20.9	25.8	22.1	9.6
Paşalar								
PDTFAU C 2071	r	--	--	--	26.8	--	--	--
PDTFAU F 347	r	--	--	--	--	--	--	9.6
PDTFAU F 494/8	1	--	--	--	--	27.2	--	9.4
PDTFAU G 447	r	--	--	--	--	27.9	--	9.6
Çandır								
MTA --	r	--	--	--	--	29.3	--	10.9
Manchones I								
MA 119 = MA 271	1	47.7	36.6	41.5	23.4	>23.4	>23.3	11.5
IPS 1867	r	--	--	--	--	30.0	--	9.5
Arroyo del Val IV								
IVAU AR IV 35	r	49.6	39.3	44.8	25.0	28.1	27.9	8.7
IVAU AR IV 65	1	46.2	36.2	42.8	24.3	25.3	25.5	9.1
IVAU AR IV 66	r	46.3	36.7	42.4	23.8	27.6	25.5	8.1
MPZ DPZ/AV-54	1	46.3	..	..	24.2	27.2	25.8	8.5
La Grive								
MGL LGr 757	r	43.1	34.5	38.9	21.7	23.9	23.2	--
MGL LGr 758	1	--	37.9	44.2	24.1	28.3	26.8	+8.6
MGL LGr 759	r	>43.3	34.5	>39.3	23.5	26.1	>24.3	9.6
MGL LGr 1532	1	47.9	37.8	42.3	23.3	24.8	25.1	+8.5
MGL LGr 1548	1	40.9	32.4	38.1	22.4	23.7	22.3	6.9
MGL LGr 1549	r	47.5	37.3	42.3	24.6	26.4	26.5	8.0
MGL LGr 1550	1	43.2	34.2	38.3	19.5	23.4	22.3	9.0
MGL LGr 1551	1	>42.4	33.8	38.4	19.6	21.7	24.1	--
MGL LGr 1552	1	38.9	31.1	34.2	17.5	20.8	20.8	9.1
MGL LGr 1745	r	--	35.1	38.9	--	24.0	24.0	8.2
MGL LGr 2491	r	--	33.2	37.7	--	--	23.2	--
La Chaux-de-Fonds								
MHNCF --	1	--	41.1	47.3	--	28.8	--	9.7
MHNCF --	r	--	38.7	45.7	>25.3	28.1	27.7	10.4
MHNCF --	r	49.0	38.9	43.0	24.7	28.7	26.4	9.4
MHNCF --	r	--	>37.8	42.5	23.6	26.7	25.3	9.5
Cerro del Otero								
MNCN 191	1	48.4	--	--	24.8	--	--	--
MNCN 191	r	>51.5	42.6	>47.4	25.8	28.6	26.4	9.6
MNCN 191	r	>45.6	>39.0	>44.9	--	--	--	--
MNCN 191	r	48.4	--	--	24.8	--	--	--
Castell de Barberà								
IPS 1569	1	45.7	..	41.6	21.8	23.3	26.1	9.4

Astragalus		Lext	La	Lint	DTp	DTd	R	d
IPS --	1	51.0	..	47.0	25.6	29.3	28.6	8.7
S. Quirze								
MGSCB 48583	r	--	--	--	--	--	--	--
Hostalets								
IPS 1032	1	--	..	46.0	>27.1	29.7	27.2	9.9
MT III		DAPp	DTp	L	1	DAPd	DTd	
<u>Nguruwe kijivium</u>								
Mfwanganu								
KNM-MW 71	r	--	11.3	>63.8	61.7	>10.1	10.5	
<u>Lopholistriodon</u>								
<u>L. moruoroti</u>								
Moruorot								
KNM-MO 50	1	10.1	6.6					
<u>Kubanochoerus</u>								
<u>K. massai</u>								
Gebel Zelten								
MNHNP Z 1961	1	33.5	25.0	<142.0	<135.4	24.2	22.2	
MNHNP Z 1961	1	--	24.6	--	--	--	--	
<u>K. gigas</u>								
Maerzuizigou								
BMNH --	1	--	36.1	142.9	138.5	--	29.0	
<u>Bunolistriodon</u>								
<u>B. anchidens</u>								
Rusinga Rl								
KNM-RU 5151	r	25.0	16.0					
<u>B. lockharti</u>								
<u>Pellecahus</u>								
NMB GB 1392	1	27.8	22.3					
UCBL 320278	r	>23.3	19.6					
UCBL 320278	1	27.0	20.4					
UCBL 320278	1	27.8	21.7					
UCBL 320310	1	27.8	22.1	109.8	..	19.0	21.3	
Buñol								
FBS 82	r	25.1	21.0					
Can Canals								
IPS 1178	1	26.4	21.1					
<u>Listriodon splendens</u>								
Simorre								
MNHNP ..	r	25.9	19.5	95.8	..	19.0	16.1	
Paçalar								
PDTFAU G 1385	r	24.5	>19.9					
Çandır								
MTA --	1	--	20.9	106.3	99.3	22.2	20.4	
MTA --	r	--	22.5	109.5	101.5	+22.5	>20	
Paracuellos III								
MNCN PA 626	r	>27.0	21.0					
Arroyo del Val IV								
MPZ AV-37	1	28.1	--	>102.9	..	>19.0	18.5	
La Grive								
MGL LGr 6007	1	24.5	20.0					
MT IV		DAPp	DTp	L	1	DAPd	DTd	
<u>Kubanochoerus massai</u>								
Gebel Zelten								
MNHNP Z 1961	1	--	>17.1	--	--	--	--	
MNHNP Z 1961	1	36.1	21.3	131.4	119.2	24.5	21.0	
MNHNP Z 1961	1	--	20.6	--	--	--	--	
<u>Bunolistriodon</u>								
<u>B. aff. latidens</u>								
La Artesilla								
MPZ-6475	r	--	14.4					
<u>B. lockharti</u>								
<u>Pellecahus</u>								
UCBL 320310	1	28.4	18.0	115.4	..	19.3	18.9	
UCBL 320278	r	--	--	>111	..	--	--	
NMB GB 1390	r	29.3	18.3					
NMB GB 1391	r	>30.5	18.1					
<u>Listriodon splendens</u>								
Çandır								
MTA --	r	--	19.6	+108.4	104.8	22.9	>20.4	
La Grive								
MGL LGr 753	r	27.6	19.6	115.8	104.9	21.5	19.6	
La Grive M								
CFE --	r	--	17.8	--	98.3	>19.7	>17.4	
Castell de Barberà								
IPS --	1	--	21.7	--	--	--	--	

TABLE 15b Measurements of the postcranial skeleton in mm.

Atlas	Total		prox.	dist.	Magnum	DAP	DI	H
	DAP	DI	fac. DI	fac. DI				
<u>Listriodon</u>					Armantes I			
<u>L. splendens</u>					IVAU 41/606	1	—	—
Cerro del Otero					IVAU 41/603	1	20.0	16.3
MNQN 187	—	—	67.5	+72.1	<u>B. lockharti</u>			
MNQN 187	—	—	—	68.9	Pellecahus			
					UCBL 320277	r	..	20.0
					UCBL 320277	1	..	20.6
					<u>Listriodon</u>			
					<u>L. splendens</u>			
					Paşalar			
					PDTEFAU F 494/10	r	23.5	—
					PDTEFAU G 467	r	23.8	19.8
					Arroyo del Val IV			
					IVAU AR IV 116	1	23.6	20.9
					RGM 263.004	r	..	..
					MPZ DPZ/AV-57	1	26.0	22.9
					MPZ DPZ/AV-61	r	23.2	20.7
					La Grive			
					MGL LGr 6002	r	23.9	21.6
					MGL LGr 6002	r	22.5	22.1
					MGL —	..	23.3	17.7
					La Chaux-de-Fonds			
					MNCF —	r	23.2	19.8
					Castell de Barberà			
					IPS —	1	22.7	20.0
					Sant Quirze			
					MGSCB 48584	r	21.8	18.2
					<u>Unciforma</u>			
					<u>Bunolistriodon</u>			
					<u>B. anchidens</u>			
					Rusinga R1			
					KNM-RU 5550	1	23.9	27.2
					Karungu			
					KNM-KA 459	1	21.9	28.0
					<u>B. aff. latidens</u>			
					Armantes I			
					IVAU 41/535	r	>16.6	12.9
					<u>Listriodon</u>			
					<u>L. splendens</u>			
					Arroyo del Val IV			
					MNQN —	r	30.0	20.7
					La Grive			
					MGL LGr 6002	1	>29.5	>15.5
					MGL LGr 6002	r	30.5	16.7
					Castell de Barberà			
					IPS —	1	>23.5	14.9
					<u>Semilunar</u>			
					<u>Bunolistriodon</u>			
					<u>B. lockharti</u>			
					Pellecahus			
					NMB GB 1432	1	24.3	16.7
					UCBL 320276	r	30.0	19.2
					<u>Listriodon</u>			
					<u>L. splendens</u>			
					Arroyo del Val IV			
					RGM 263.106	1	>25.8	>14.0
					La Grive			
					MGL LGr 6002	r	25.9	20.2
					<u>Ulnar</u>			
					<u>Bunolistriodon</u>			
					<u>B. lockharti</u>			
					Pellecahus			
					UCBL 320287	1	20.8	12.7
					B. M			
					Paşalar			
					PDTEFAU F 506	1	18.5	12.1
					<u>Listriodon</u>			
					<u>L. splendens</u>			
					Arroyo del Val I			
					IVAU AR I —	r	20.8	11.2
					La Grive			
					MGL LGr 1730	1	19.0	11.3
					MGL LGr 6002	1	21.9	13.3
					La Chaux-de-Fonds			
					MNCF —	1	22.3	10.5
					Cerro del Otero			
					MNQN 202	1	20.9	..
					Castell de Barberà			
					IPS —	r	19.8	11.4
					<u>Magnum</u>			
					<u>Bunolistriodon</u>			
					<u>B. aff. latidens</u>			
					La Artesilla			
					MPZ 6468	r	+21.6	20.0
					MPZ 6469	1	>18.4	18.3
					La Hidroeléctrica			
					MNQN —	1	21.1	15.8
					<u>MC II</u>			
					<u>Kubanochoerus</u>			
					<u>K. massai</u>			
					Gebel Zelten			
					MNHP —	1	12.9	8.5
					<u>Listriodon</u>			
					<u>L. splendens</u>			
					Santiga (?)			
					IPS 1950	r	10.4	7.8
					<u>MC V</u>			
					<u>Bunolistriodon</u>			
					<u>B. lockharti</u>			
					Buñol			
					IVAU —	1	—	5.9
					<u>Listriodon</u>			
					<u>L. splendens</u>			
					Santiga (?)			
					IPS 1450	r	10.8	7.4
					<u>MP II/V distal</u>			
					<u>Lopholistriodon</u>			
					<u>L. sp.</u>			
					Maboko			
					KNM-MB 567	r	8.2	5.7
					KNM-MB 611	r	4.9	3.7
					<u>Bunolistriodon</u>			
					<u>B. anchidens</u>			
					Rusinga R 114			
					KNM-RU 3622	r	9.5	8.1
					<u>B. aff. latidens</u>			
					Paşalar			
					PDTEFAU F 350	1	11.7	7.0
					PDTEFAU F 387/13	1	10.2	6.7

Phalange 3, III/IV	DAPp	DAPps	DAPf	ITp	L	Cuboid	DAP	IT	Ha	H		
<u>Listriodon</u>						<u>B. lockharti</u>						
<u>L. splendens</u>						La Romieu						
Paşalar						UCBL 320312	1	29.4	21.8	>23.6	35.8	
PDITFAU F 150	r	..	23.0	13.7	—	Pellecahus						
PDITFAUG 1281	r	..	20.9	13.2	13.5	UCBL 320310	1	28.9	19.7	23.6	34.0	
La Grive						Buñol						
MGL LGr 470	1	21.9	22.9	17.1	13.8	PAN 54	r	—	26.4	22.5	—	
MGL LGr 1763	r	21.2	22.4	21.2	13.6	<u>Listriodon</u>						
MGL LGr 1764	1	20.4	22.2	15.0	14.0	<u>L. pentapotamiae</u>						
La Chaux-de-Fonds						Kundal Nali						
MNCF —	1	25.8	20.7	18.8	14.9	IVAU GHK 205	r	22.1	20.1	21.2	>30.7	
MNCF —	1	21.7	16.7	16.4	13.2	HGSP 8204						
						HGSP 8204/694	r	23.6	>16.0	17.5	28.0	
						<u>L. splendens</u>						
<u>Fibula, distal part</u>	<u>DAPd</u>	<u>ITd</u>				Paşalar						
<u>Bunolistriodon</u>						PDITFAU G 103	r	—	21.0	20.0	—	
<u>B. lockharti</u>						Çandır						
Buñol						MTA —	r	32.2	26.4	24.5	39.0	
—	r	20.2	13.0			Arroyo del Val IV						
EE 9	1	19.6	12.6			IVAU AR IV 112	1	>27.2	>21.4	21.3	—	
						IVAU AR IV 154	1	—	>19.2	22.9	—	
<u>Navicular</u>	<u>DAP</u>	<u>IT</u>	<u>Ha</u>	<u>H</u>		RQM 263.058	1	30.1	21.1	—	—	
<u>Bunolistriodon</u>						RQM 263.133	r	32.5	22.9	+23	—	
<u>B. lockharti</u>						La Chaux-de-Fonds						
Pellecahus						MNCF —	1	>28.9	23.6	19.2	—	
UCBL 320310	1	32.8	20.1	16.1	..	MNCF —	r	30.0	24.3	18.8	35.2	
UCBL 320285	r	32.8	17.6	14.7	..	MNCF —	r	29.9	24.6	18.3	—	
UCBL 320293	r	>28.2	16.5	13.4	..							
NMB GB 1394	r	34.5	20.0	13.2	21.8	<u>MT II</u>	<u>DAPp</u>	<u>ITp</u>	<u>L</u>	<u>DAPd</u>	<u>ITd</u>	
Grimmelfingen						<u>Kubanochoerus</u>						
NMB TD 718	r	30.0	17.2	11.1	>17.8	<u>K. massai</u>						
Buñol						Gebel Zelten						
FEB 1.98	1	>33.7	21.8	18.9	..	MNHP Z 1961	r	>13.2	>7.3	>117.2	12.8	8.5
FBS 90	1	—	18.7	15.7	—	<u>Listriodon</u>						
—	1	>31.5	20.8	19.6	..	<u>L. splendens</u>						
<u>Listriodon</u>						Çandır						
<u>L. pentapotamiae</u>						MTA —	r	11.3	+5.8	78.9	15.3	+7.5
Kali Nachi						<u>MT V</u>	<u>DAPp</u>	<u>ITp</u>	<u>L</u>	<u>DAPd</u>	<u>ITd</u>	
IVAU GHN 56	r	—	15.0	10.6	—	<u>Listriodon</u>						
Chinji Fm.						<u>L. splendens</u>						
bought specimen						Çandır						
IVAU GH 346	r	28.4	16.9	>10.8	—	MTA —	r	15.6	7.2	80.2	15.4	9.9
<u>L. splendens</u>						La Grive						
Paşalar						MGL LGr 1757	1	—	6.7	75.7	15.4	9.9
PDITFAU F 494/9	r	—	18.7	11.6	—							
PDITFAU G 1062	r	—	19.5	12.3	—							
PDITFAU G 1194	r	—	+19	10.8	—							
PDITFAU G 1527	r	—	>16.7	10.8	—							
Çandır												
MTA —	r	34.7	22.0	12.1	25.4							
Arroyo del Val IV												
MNCF —	r	—	19.9	11.3	—							
La Cisterniga												
MNCF NM 1430	r	>29.1	>16.2	11.3	—							
La Grive												
NMB 2837	1	36.7	24.3	12.3	20.0							
MGL LGr 6008	r	34.3	22.1	12.9	21.6							
MGL LGr 6008	r	37.8	23.9	13.1	25.1							
MGL —	1	33.5	20.1	13.1	20.9							
La Chaux-de-Fonds												
MNCF —	1	>32.6	>21.0	11.1	—							
MNCF —	1	—	>19.4	12.0	—							
<u>Cuneiforme III</u>	<u>DAP</u>	<u>IT</u>										
<u>Bunolistriodon</u>												
<u>B. lockharti</u>												
Pellecahus												
UCBL 320310	1	18.1	16.1									
<u>Listriodon</u>												
<u>L. splendens</u>												
Paşalar												
PDITFAU F 494/3	r	21.2	>13.9									
Çandır												
MTA —	r	18.2	15.7									
Paracuellos III												
MNCF PA 878	r	17.3	20.8									
Arroyo del Val IV												
IVAU AR IV 27	r	17.6	15.2									
<u>Cuboid</u>	<u>DAP</u>	<u>IT</u>	<u>Ha</u>	<u>H</u>								
<u>Kubanochoerus</u>												
<u>K. massai</u>												
Gebel Zelten												
MNHP Z 1961	r	33.9	21.6	30.0	45.0							
<u>Bunolistriodon</u>												
<u>B. aff. latidens</u>												
La Artesilla												
MPZ-6467	r	>23.9	>17.5	22.5	—							
Villafeliche "bocht"												
IVAU VLB/1	1	—	20.4	22.0	—							

TABLE 16 DMD' and DLL' values of the first and second lower incisors, as well as numbers of specimens, of Listriodontinae and selected other Suoidea. The values are calculated either from samples or from individuals.

	M ₁ n	I ₁ n	DMD' n	DLL'	I ₂ n	DMD' n	DLL'
<u>Kubanochoerus maryunngui</u>							
West Stephanie - Buluk	2				1	+77	1 +95
<u>Kubanochoerus massai</u>							
Gebel Zeitlen	10	5	58	3 64	10	64	8 73
<u>Kubanochoerus minheensis</u>							
Minhee IVPP V 6021	1	2	68	1 72	2	80	2 85
<u>Kubanochoerus gigas</u>							
Maerzuizigou BNHM BPV907	1	2	85	2 81	0	--	0 --
<u>Bunolistriodon anchidens</u>							
Rusinga	2	3	62	1 59	1	72	1 78
<u>Bunolistriodon C</u>							
Munébrega I	2	1	76	1 62	1	98	1 80
Armantes I	3	1	53	1 54	0	--	0 --
<u>Bunolistriodon latidens</u>							
Veltheim NSSW 99	2	2	86	1 61	1	106	1 83
<u>Bunolistriodon M</u>							
Paşalar	16	17	114	14 58	6	123	5 65
<u>Bunolistriodon lockharti</u>							
La Romieu	5	2	77	2 73	2	94	2 82
Baigneaux	2	1	62	1 70	5	89	5 89
<u>Listriodon pentapotamiae</u>							
Dhok Talian 189							
PMNH MV 31, 527	1	2	71	2 56	2	90	2 65
<u>Listriodon splendens</u>							
Paşalar	24	33	87	25 66	36	109	26 76
Çandır	7	4	81	4 66	2	91	2 69
Arroyo del Val IV	10	5	95	5 74	2	111	3 79
La Grive oc (mixed)	2	12	105	12 74	9	121	8 82
S. Quirze	2	8	105	8 71	7	131	7 84
Hostaletz (mixed)	2	8	106	8 73	4	134	4 84
<u>T. tayacu</u>							
ZMA 470	1	1	47	1 60	1	51	1 66
ZMA 471	1	1	43	1 61	1	50	1 67
ZMA 472	1	1	49	1 56	1	50	1 67
ZMA 1838	1	1	46	1 60	1	57	1 64
ZMA 9377	1	1	48	1 63	1	54	1 63
ZMA 9380	1	1	44	1 64	1	52	1 62
ZMA 9393	1	1	51	1 64	1	56	1 80
ZMA 9382	1	1	53	1 63	1	58	1 69
ZMA 9384	1	1	47	1 67	1	46	1 69
ZMA 9387	1	1	44	1 68	1	50	1 69
ZMA 9388	1	1	45	1 65	1	52	1 69
ZMA 9394	1	1	49	1 61		--	--
ZMA 9539	1	1	41	1 62	1	53	1 65
ZMA 9541	1	1	51	1 65	1	47	1 66
ZMA 9604	1	1	44	1 55	1	45	1 70
ZMA 10512	1	1	44	1 51	1	48	1 55
ZMA 10513	1	1	37	1 51	1	--	--
<u>T. pecari</u>							
ZMA 476	1	1	47	1 55	1	44	1 59
ZMA 1835	1	0	--	1 55	1	47	1 55
ZMA 1836	1	1	37	1 54	1	55	1 58
ZMA 9391	1	1	49	1 56	0	--	0 --
<u>Palaeochoerus aquensis</u>							
Quercy	2	2	49	2 56	2	50	2 81
<u>Palaeochoerus typus</u>							
St.-Gérard-le-Puy							
MGL StG 690-691	2	1	48	1 60	0	--	0 --
<u>Kenyasus rusingensis</u>							
Rusinga	8	4	56	3 58	3	54	2 59
<u>Albanohyus castellensis</u>							
Castell de Barberà	4	4	62	4 79	3	67	3 72
<u>Hyotherium meisneri</u>							
Cetina	10	3	66	3 77	7	65	4 84
<u>Parachleuastochoerus steinheimensis</u>							
La Grive	7	14	52	12 84	6	62	5 97
<u>Propotamochoerus wui</u>							
Lufeng	19	12	52	6 81	9	52	8 90
<u>Microstonyx major</u>							
Spain	15	8	58	5 93	5	61	2 99
<u>Microstonyx erymanthius</u>							
Dorn Dürkheim	12	14	56	2 85	25	59	8 103
<u>Sus strozzi</u>							
Valdarno	21	15	54	13 86	12	66	12 86

TABLE 17 DMD' and DLL' values of the first and second upper incisors, as well as number of specimens. The values are calculated either from samples or from individuals.

	I ¹		I ²		I ²		I ²		
	n	n	DMD' n	DLL' n	n	DMD' n	DLL' n	DLL' n	
<u>Kubanochoerus massai</u>									
Gebel Zelten	6	12	103	11	63	6	71	8	44
Gebel Zelten skull	1	1	109	1	63	1	64	1	40
<u>Kubanochoerus gigas</u>									
Maerzuizigou									
BNHM BPV-900	1	1	160	1	74				
BNHM BPV-910 1	1	1	166	1	..				
r	1	1	159	1	..				
<u>Nguruwe kijivium</u>									
Songhor	2	2	63	2	48	1	49	1	26
<u>Lopholistriodon moruoroti</u>									
Maboko	1	3	92	3	63	3	74	2	43
<u>Lopholistriodon kidogosana</u>									
Ngorora D	2	1	105	1	74				
Ngorora B5, 2/56	3					3	88	3	46
<u>Bunolistriodon anchidens</u>									
Rusinga	3	1	83	1	61	4	67	4	47
<u>Bunolistriodon aff. latidens</u>									
La Artesilla	2	3	101	4	64				
Armantes I	2	2	115	2	62				
<u>Bunolistriodon latidens</u>									
Inbnd I	3	1	166	1	67				
<u>Bunolistriodon M</u>									
Paşalar	7	5	217	4	74				
<u>Bunolistriodon lockharti</u>									
La Romieu	3	3	97	3	78				
Baigneaux en Beauce	3	5	114	5	66				
<u>Listriodon splendens</u>									
Simorre MNHNP Si 156	1	2	151	1	76				
Paşalar	23	23	146	24	76				
Xinan IVPP V8283	1	1	116	1	+63	1	80	1	46
Arroyo del Val IV	8	5	148	6	68				
La Grive	11	11	155	10	73				
St. Quirze	3	5	157	6	71				
Castell de Barberà	2	5	174	4	73				
Hostaletsa	2	2	185	2	71				

TABLE 18 Indices of hypsodonty of the lower incisors, as well as index I of each tooth for Listiodontinae and selected other Suoidea.

I ₁	100x				I	I ₂	100x				I		
	HI1/DMD	HIa/DMD	HI1/DLL	HIa/DLL			HI1/DMD	HIa/DMD	HI1/DLL	HIa/DLL			
<u>Propalaeochoerus sp.</u>						<u>Propalaeochoerus sp.</u>							
Tomerdingen						Tomerdingen							
SMNS 45070	r	259	286	200	221	77	SMNS 45049	r	237	253	199	209	83
<u>Tayassu pecari</u>							SMNS 45050	1	238	257	191	207	80
Recent ZMA 9321	r	234	267	203	231	87	SMNS 45051	1	235	265	174	196	74
<u>Tayassu tayacu</u>							SMNS 45051	1	222	200	174	200	78
Recent ZMA 472	1	216	216	190	190	88	<u>Tayassu pecari</u>						
ZMA 9380	1	240	245	166	169	69	Recent ZMA 1835	1	243	248	209	213	86
ZMA 9394	1	..	245	..	196	80	<u>Tayassu tayacu</u>						
ZMA 10513	1	+241	282	+173	203	72	Recent ZMA 472	1	264	260	198	195	75
<u>Hyotherium meisneri</u>							ZMA 9380	1	274	264	230	207	84
Cetina de Aragon							ZMA 9383	1	273	263	189	182	69
CT —	r	195	221	184	207	94	ZMA 9540	1	254	271	183	195	82
IPS 1401	1	—	234	—	<231	<98	<u>Hyotherium meisneri</u>						
<u>Xenohyus venitor</u>							Cetina						
Faluns d'Anjou							MNQN CT 469	1	249	293	187	220	75
MNHP cast	r	>130	>184	>220	>310	59	MNQN CT 469	r	+249	275	+184	204	74
<u>Kenyasus rusingensis</u>							MNQN CT —	1	230	254	182	201	79
Rusinga R114							MNQN CT —	r	—	241	—	—	—
KNM-Ru2745	r	284	278	268	262	94	<u>Xenohyus venitor</u>						
<u>Lopholistriodon pickfordi</u>							Faluns d'Anjou						
Maboko KNM-MB25	1	256	266	233	242	91	MNHP F6 678	r	>217	>248	>165	>217	66
<u>Lopholistriodon kidogosana</u>							<u>Kenyasus rusingensis</u>						
Ngorora 2/56							Rusinga R114						
KNM-BN 548	1	137	+161	192	+225	140	KNM-Ru 2744	r	272	270	227	225	83
<u>Kubanochoerus minheensis</u>							<u>Kubanochoerus massai</u>						
Nanhawangou							Gebel Zelten						
IVPP V 6021	1	166	—	154	—	93	MNHP Z 1961	1	..	210	..	195	93
<u>Bunolistriodon aff. latidens</u>							MNHP Z 1961	r	186	190	167	171	90
Olival da Suzana							<u>Lopholistriodon pickfordi</u>						
CEPUNL —	r	..	149	..	181	122	Maboko						
<u>Bunolistriodon M</u>							KNM-MB 26	1	176	206	198	233	113
Paşalar							KNM-MB 14446	r	—	259?	—	236?	110
PDITFAU G1718	r	124	138	243	271	215	KNM-MB 14448	1	194	239	177	218	91
PDITFAU BP-311	1	144	129	246	276	197	<u>Lopholistriodon akatidogus</u>						
<u>Bunolistriodon lockharti</u>							Mbagathi						
Pellecahus							KNM-MG 7	r	>102	113	>147	163	145
NMB GB 1387	r	146	171	159	171	109	<u>Kubanochoerus minheensis</u>						
<u>Listriodon pentapotamiae</u>							Nanhawangou						
Cheski Wala							IVPP V6021	1	149	—	150	—	101
IVAU CHC 93	1	128	142	177	196	139	<u>Bunolistriodon aff. latidens</u>						
<u>Listriodon splendens</u>							Munébrega III						
Paşalar							IVAU 53/53	r	162	..	17.7	..	118
PDITFAU C361	r	139	146	174	182	125	<u>Bunolistriodon lockharti</u>						
PDITFAU D1031	1	139	143	190	195	137	Baigneaux						
PDITFAU D1031	r	139	144	193	199	138	MSNO 904	r	166	172	169	175	102
PDITFAU DT8.6	1	124	136	171	188	138	COBO —	r	157	163	155	163	98
PDITFAU DT8.9	r	123	133	170	184	138	Pontlevoy?						
PDITFAU DT8.10	r	160	174	183	199	115	MNHP cast	1	133	132	150	148	112
PDITFAU F353	1	134	192	187	192	139	<u>Bunolistriodon intermedius</u>						
PDITFAU F409	1	—	146	—	202	139	Maerzuizigou						
PDITFAU G449	1	137	129	195	202	143	IVPP V 9522.7	1	+164	..	+199	..	121
PDITFAU G582.a	1	—	157	—	—	—	<u>Listriodon splendens</u>						
PDITFAU G1129	1	129	133	166	171	129	Paşalar						
PDITFAU G1833.1	1	145	158	195	213	135	PDITFAU C8.11	r	116	—	178	—	154
Arroyo del Val IV							PDITFAU C224	1	120	126	173	181	144
IVAU AR IV 92	1	145	143	172	170	119	PDITFAU D1079	r	—	122	—	179	147
La Grive							PDITFAU DT9.1	1	125	126	177	179	142
IGF 299	1	110	118	172	185	156	La Grive						
MGL LGr 6004	1	110	119	153	166	139	IGF 299	1	122	117	171	163	140
MGL LGr 6004	r	120	123	165	170	137	MGL LGr 6003	1	99	103	165	171	166
La Chaux-de-Fonds													
MNCF 6	r	—	123	—	—	—							

	IVAU AR IV 87	1	--	--	--	18.0	1.8	100
	IVAU AR IV 89	r	18.8	1.6	85	18.1	1.7	94
	RGM 263.040	1	18.5	1.7	92	17.5	1.4	80
Manchones I	IVAU MA I 105	r	18.0	1.2	67	17.7	1.3	73
Escancrabe	MNHNP HGP 18	1	19.6	1.5	77	19.2	..	..
Wartenberg	IVAU P25-1963	r	18.1	1.6	88	18.5	1.6	86
Merisor	HGSB Ob 14	1	18.3	1.3	71	17.6	1.3	74
			M₃		1000 x			1000 x
			DTa	Ta	Ta/DTa	DTp	Tp	Tp/DTp
<u>K. massai</u>								
Gebel Zelten	MNHNP Z 1961	1	26.1	2.7	103	22.5	2.2	98
	MNHNP Z 1961	r	--	--	--	24.9	3.1	124
	MNHNP Z 1961	r	--	--	--	21.2	2.9	138
	MNHNP Z 1961	1	--	2.5	--	22.4	2.2	98
	MNHNP Z 1961	1	23.8	2.4	101	21.9	2.7	123
	MNHNP Z 1961	r	--	2.6	--	24.4	..	..
	MNHNP Z 1961	r	26.5	2.4	91	..	..	..
	MNHNP Z 1961	1	24.5	..	..	21.6	2.7	125
<u>B. aff. latidens</u> I								
Armantes I	IVAU 41/506	1	19.8	2.3	116	18.3	..	..
	IVAU 41/507	r	21.4	2.0	93	18.9	2.0	106
<u>B. lockharti</u>								
"Orléans"	MSNO 260	r	20.0	1.7	85	18.6	..	..
Araya	MNHNP --	1	19.3	2.1	109	17.8	2.1	118
<u>L. pentapotamiae</u>								
Kanatti	IVAU KA 79	r	20.6	1.8	87	19.2	1.7	89
Mochi Wala	IVAU CHO 126	r	--	--	--	16.7	1.7	102
	IVAU CHO 127	r	16.5	1.5	9.1	--	--	--
HGSP 8304	HGSP 8304/1333	r	18.0	1.4	78	17.4	1.3	75
<u>L. splendens</u>								
Arroyo del Val I	IVAU AR I 3	.	--	1.7	--	--	1.9	--
Arroyo del Val IV	IVAU AR IV 1	.	..	2.0	..	..	2.1	..
	IVAU AR IV 2	r	18.5	..	..	17.7	2.2	124
	IVAU AR IV 3	1	19.3	2.0	104	16.9	1.9	112
	IVAU AR IV 4	r	19.7	2.0	102	17.7	1.8	102
	IVAU AR IV 8	r	>20.4	2.0	<98	19.0	2.0	105
	IVAU AR IV 84	1	20.4	1.8	88	18.9	2.0	106
	IVAU AR IV 86	r	20.5	1.3	63	18.7	1.8	96
	RGM 263.035	1	--	..	--	17.5	2.3	131
Manchones I	IVAU MA I 104	r	21.1	2.2	104	18.7	2.1	112
Solera	IVAU --			2.2			2.1	
Larroque de Magnoac	MNHNP HGP 31	1	21.0	1.7	81	19.2	1.4	73
Wartenberg	IVAU P25-1963	r	19.9	1.8	90	19.1	..	..
Sooskút	NMW SK 1770a	1	19.8	1.9	96	18.3	1.6	8.7
			M₃		1000 x			1000 x
			DTa	Ta	Ta/DTa	DTp	Tp	Tp/DTp
<u>Kubanochoerus</u>								
<u>K. massai</u>								
Gebel Zelten	MNHNP Z 1961	r	--	1.9	--	23.2	1.4	60
	MNHNP Z 1961	r	+30.8	2.4	+78	26.9	2.2	82