

# Estimating head and body length in fossil rodents

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We present estimates for head and body length (HBL) of fossil rodents. We assembled HBL data and tooth row length data (LTR, UTR) for a large number of extant rodents, and calculated regression lines of HBL on LTR and UTR for all rodents together (all-rodents equation), and for separate taxonomic groups (family equations). In fossil rodents, data for complete tooth rows are scarce, therefore we use the sum of the lengths of the teeth (LRsum, URsum) as a surrogate for tooth row length. The relation between this parameter and real tooth row length (LTR, UTR) is calculated on the basis of a number of populations for which both parameters are available. We estimate HBL of fossil rodents, using LRsum and URsum and the regression lines of extant rodents, and we compare the results for lower and upper tooth row when both are available. For each species we calculate HBL through the all-rodents equation and through the family equation. We consider the amount of difference between these two values as a measure of the reliability of this method.

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Note: Appendix 9a is available digitally at the *Scripta Geologica* website;  
all other appendices are printed herein

## Introduction

Freudenthal & Martín-Suárez (2013) published an approach to body mass estimates of fossil rodents on the basis of the parameters LRsum and URsum, that is, the sum of the mean lengths of the individual teeth that constitute the lower and upper tooth rows. Since then we have considerably augmented our data base of fossil rodent measurements and recent rodent tooth row lengths, and we have added and corrected some body mass data for extant rodents.

Besides body mass, head and body length (HBL) is a second parameter commonly found in studies on Recent mammals, and here we use it to further test the validity of

LRsum and URsum for estimating the body size of fossil rodents. We have created a data base for HBL of extant rodents, which contains data for almost 80 % of the known species.

We also assembled tooth row length data (LTR, UTR) for a large number of extant rodents, and calculated regression lines of HBL on LTR and UTR for all rodents together, and for separate taxonomic groups. In fossil rodents, data for complete tooth rows are scarce, therefore we use the sum of the lengths of the teeth (LRsum, URsum) as a surrogate for tooth row length. The relation between this parameter and real tooth row length (LTR, UTR) is calculated on the basis of a number of populations for which both parameters are available. We estimate HBL of fossil rodents, using LRsum and URsum, and the regression lines of extant rodents. The results for seven taxonomic groups are given in Appendices 1-7.

### Material and methods

*Abbreviations* – Abbreviations used herein are listed in Table 1.

*Recent data* – We assembled data for upper and lower tooth row length (UTR and LTR) from several main sources, including Mammal Species Accounts (<http://www.science.smith.edu/departments/Biology/VHAYSEN/msi/>), African rodent database (<http://projects.biodiversity.be/africanrodentia/>; Hollister, 1919) and a large number of

Table 1. Abbreviations used.

LTR	lower tooth row length (Recent)
UTR	upper tooth row length (Recent)
UTRalv	upper tooth row alveolar length (Recent)
UTRcr	upper tooth row crown length (Recent)
LRsum	Sum of lengths of lower teeth (fossil)
URsum	Sum of lengths of upper teeth (fossil)
L, W	Length, Width
LxW	length × width ~ tooth area
p4, m1, m2, m3	lower teeth
P3, P4, M1, M2, M3	upper teeth
InfMass	mass estimate based on LRsum
SupMass	mass estimate based on URsum
MeanMass	(InfMass + SupMass)/2
HBL	Head and body length
InfHbl	HBL estimate based on LRsum
SupHbl	HBL estimate based on URsum
MeanHbl	(InfHbl + SupHbl)/2
linhbl	HBL based on linear data
loghbl	HBL based on detransformed log data
SEE	standard error of estimate
&PE	Percentage error of estimate
df	degrees of freedom
log	natural logarithm
RGM	Rijksmuseum van Geologie en Mineralogie, now Naturalis Biodiversity Center, Leiden, the Netherlands

smaller sources (see Appendix 8b). We have tooth row data for 1035 lower rows and 2767 upper rows, and HBL data for 1793 of the 2277 Recent rodent species. Our taxonomic basis is MSW3 (Mammal species of the World 3) as found on the internet in 2005 (<http://www.bucknell.edu/msw3/>). Simple linear least squares regression lines were calculated from our LTR, UTR and HBL data, and these are used to estimate head and body length of fossil rodents. HBL values used in the calculations are the midpoint of the minimum and maximum values found for each species; tooth row values are the midpoint per population. In both cases we use the midpoint, because mean or median are commonly not available. HBL data in cm are given in Appendix 8a, literature references in Appendix 8b.

Our taxonomic groups represent different taxonomic levels; some are families (or even subfamilies, according to different authors) and others are higher taxonomic units. Eomyidae are classified in the Geomyoidea; therefore, Recent Geomyoidea are used as an equivalence for Eomyidae. The equivalence between Recent and fossil groups is given in Table 2. Theridomorpha has no recent equivalent.

*Fossil data* – Tooth row lengths (LRsum and URsum) are calculated from our database of tooth measurements of fossil rodents which contains about 3450 populations from 1133 localities. Of these, 2187 populations contain data for all lower cheek teeth and complete upper rows can be composed for 2055 populations. Some 1755 populations, representing 753 species, have data for all upper and lower cheek teeth, and permit comparison of LRsum and URsum. The values of LRsum and URsum are used to estimate HBL using the regression lines obtained from the Recent material.

Tooth row length for the fossil species (LRsum and URsum) is calculated as the sum of the mean lengths of the three molars per population, plus the mean length of the premolar in taxa that have a premolar. In Sciuridae, Gliridae, Eomyidae and Theridomorpha, the first and second molars are often not distinguished. In these cases length

Table 2. Equivalence between Recent and fossil groups. Column 2 (= MSW3) gives the number of species recognized in *Mammal Species of the World* (Wilson & Reeder, 2005). Column 4 gives the number of fossil species used in this work, for which both upper and lower tooth row could be composed, discarding open nomenclature (sp.).

Recent	MSW3	fossil	Column 4
all-rodents	2277	all-rodents	745
Sciuridae	279	Sciuridae	48
Gliridae incl. Graphiurinae	28	Gliridae	168
Geomyoidea	100	Eomyidae	70
Castoridae	2	Castoridae	2
Dipodidae	51	Dipodidae	7
Nesomyidae	61		
Arvicolidae	151	Arvicolidae	14
Cricetidae	530	Cricetidae	285
Muridae	730	Muridae	78
Spalacidae	36	Spalacidae	5
Hystricomorpha	290	Hystricomorpha	
		Theridomorpha	66
Various	19	Various	

of m1,2, resp. M1,2, is counted twice, thus the mean length of m1,2 replaces the mean length of both m1 and m2. Uncommonly, in Gliridae, a P3 may be present. For calculation of URsum we ignored this element, because it is hardly ever found, if present it is usually very small, its presence may vary within a species, it is probably shed early in life and is hardly ever functional, and for most species it is unknown whether they had a P3 or not. The same is true for Sciuridae and we followed the same procedure.

Our calculations of HBL for the fossils are made at species level, not population level. When a species occurs in more than one locality, we take the mean of the values of the populations. We did the same calculations at population level, but these are not used in this paper. The vast majority of our fossil data is from the European Tertiary, with some additions of Asiatic species belonging to European genera and some populations from the European Pleistocene.

Measurements are partly from our collections and partly from published literature. Collections are (or will be) stored in the Naturalis Biodiversity Center, Leiden, the Netherlands (RGM in Appendix 9a) and the Department of Geology, University of Zaragoza, Spain. The raw data in 0.1 mm units are given in electronic Appendix 9a and the literature references in Appendix 9b.

Table 3. Regression equations for HBL on toothrow in extant rodents. Hystricidae with HBL over 600 removed.

HBL/LTR	n	slope	intercept	r2	SEE	%PE
all rodents	981	21.164	9.905	0.87	28.772	13.7
Arvicolidae	148	17.378	2.802	0.69	14.907	9.7
Cricetidae	142	21.123	13.950	0.83	16.137	10.0
Dipodidae	24	18.257	11.431	0.87	10.923	8.7
Gliridae	19	11.089	61.872	0.36	20.447	17.2
Geomyoidea	40	16.354	32.992	0.85	18.375	11.1
Hystricomorpha	40	16.220	65.659	0.83	50.796	17.1
Muridae	347	20.401	20.517	0.77	18.164	11.0
Nesomyidae	21	35.735	-36.185	0.95	21.836	13.5
Sciuridae	179	24.479	-12.808	0.93	29.464	8.9
Spalacidae	17	17.628	31.905	0.69	28.934	10.9
Various	4	21.418	8.204	1.00	5.379	2.7

HBL/UTR	n	slope	intercept	r2	SEE	%PE
all rodents	2630	21.103	10.972	0.86	28.662	13.3
Arvicolidae	207	17.535	-0.051	0.77	14.139	8.7
Cricetidae	754	19.943	21.007	0.71	19.835	11.3
Dipodidae	75	21.902	-6.150	0.86	13.445	11.0
Gliridae	50	11.750	62.484	0.34	19.310	15.6
Geomyoidea	141	14.277	40.804	0.89	18.012	11.9
Hystricomorpha	175	19.850	30.995	0.78	53.055	15.6
Muridae	717	21.150	12.439	0.83	20.388	11.4
Nesomyidae	92	33.344	-39.724	0.94	19.154	10.5
Sciuridae	391	23.573	-3.671	0.90	28.600	9.0
Spalacidae	19	15.017	68.784	0.68	25.873	10.1
Various	9	20.400	21.822	0.97	24.959	7.0

In a number of cases measurements are extracted from published figures. When these figures give only the distribution area, the number of specimens is unknown; in such cases we assume a fictitious number, generally 3 or 5. When only a range is given we assume n=2; when range and mean are given and n is unknown, we assume n=3 or 5. Values of n over 5 are real, though sometimes lower than the actual number, when points in a figure overlap.

### Validity of the regression equations

*Logarithmic transformation* – Contrary to regression of body mass, regression of HBL on LRsum or URsum does not require log transformation since both parameters are one-dimensional and  $r^2$  for the regression lines gives rather high values (Table 3). It does, however, offer the possibility to analyze the effect of log transformation. Therefore, we calculated the regression lines for linear data and (natural) log transformed data; then we regressed HBL on LRsum for both the linear data and the log data, and compared HBL obtained from the linear data (linhbl) with the detransformed HBL from the logarithmic data (loghbl). The differences between linhbl and loghbl, expressed as percentage of linhbl, are plotted in Figure 1. The estimates from the log-transformed data are too low in both extremes of the range and too high in the centre of the distribution: the regression on logarithmic data is not a straight line, but slightly curved. This means not only that log transformation should be avoided when not absolutely necessary, but also that statistical analyses based on the assumption of normal distribution may lead to incorrect conclusions.

Since we suspected that this result might be due to the occasional distribution of our data, we tested a number of other data sets and obtained similar results. Figure 2 gives the result for length and width of m1 in a data set of almost 1200 populations of fossil muroid rodents: we calculated least squares regression lines for the linear data, and for log-transformed data, and used these regression lines to regress

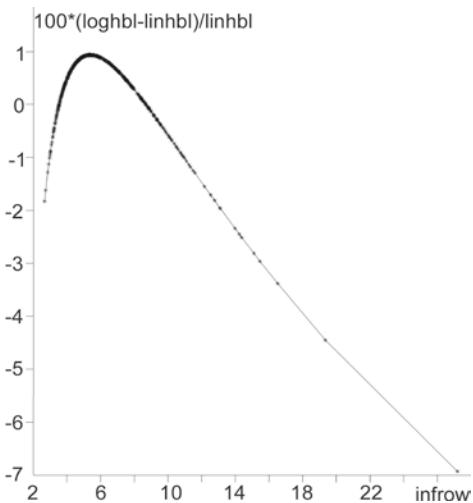


Fig. 1. Percentual differences between loghbl and linhbl. Loghbl is HBL based on detransformed logarithmic data, linhbl is HBL based on linear data.

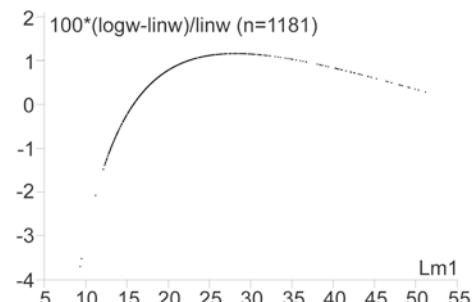


Fig. 2. Percentual differences between logw and linw. Lm1 is the length of m1 (in 0.1 mm units); logw is the regressed width of m1 based on detransformed log data; linw is the regressed width of m1 based on linear data.

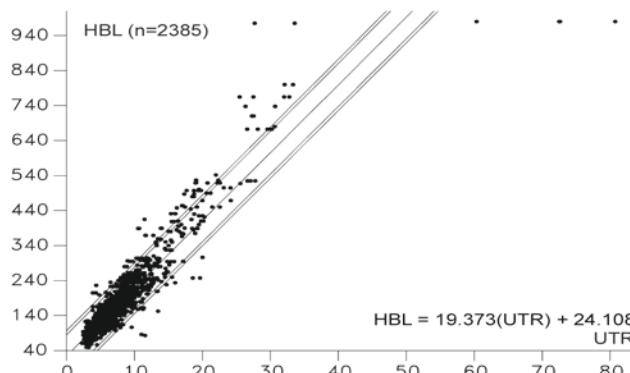


Fig. 3. Regression of HBL on UTR for the complete data set, and after removing species with HBL>600.

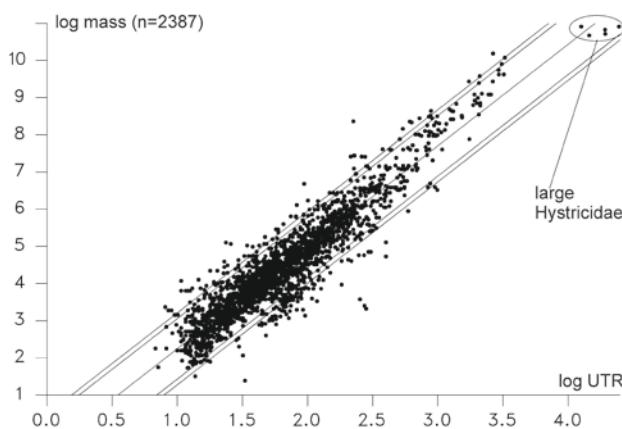
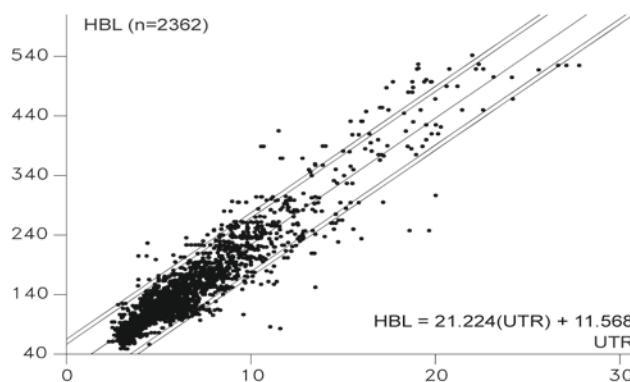


Fig. 4. Regression of body mass on UTR.

width on length. Again, the de-transformed log data give too low values in the extremes and too high values in the centre of the distribution. So, it seems reasonable to assume that log transformation introduces an error, which cannot be corrected by any one of the correction factors published by Smith (1993), because different factors should be applied to different points of the X-axis.

Table 4. Regression equations for HBL on UTR and LTR for the complete data set, and after removing large species. n = number of populations, not number of species.

	complete	n	slope	intercept	r2	SEE	%PE
LTR	all rodents	993	20.708	13.602	0.88	37.122	13.9
	Hystricomorpha	47	16.289	79.576	0.86	84.650	20.1
	above 600 removed						
	all rodents	981	21.164	9.905	0.87	28.772	13.7
UTR	Hystricomorpha	40	16.220	65.659	0.83	50.796	17.1
	complete	n	slope	intercept	r2	SEE	%PE
	all rodents	2653	19.408	22.515	0.86	37.152	14.0
	Hystricomorpha	194	15.727	90.211	0.81	81.854	19.3
	above 600 removed						
	all rodents	2630	21.103	10.972	0.86	28.662	13.3
	Hystricomorpha	175	19.850	30.995	0.78	53.055	15.6

*Outliers* – Among extant rodents, large Hystricomorpha and Castoridae do not fit the general regression line. In the plot for all rodents (Fig. 3) there is an important gap in the distribution of HBL between 540 and 670, which invalidates the general regression equation; the same is true for the regression equation of Hystricomorpha only. Table 4 gives the parameters of the regression equations of all rodents and Hystricomorpha. To obtain a valid regression equation the HBL data over 540 must be removed (see Fig. 3), otherwise estimates of HBL will be too large in the lowest values and too small in the highest values. The problem is not reflected in the values of  $r^2$ , which are high in all cases.

This phenomenon is not observed in the regression of log(body mass) (see Fig. 4). In the regression of body mass on UTR, a gap in the distribution of log(UTR) is observed between 3.52 and 4.16. Contrary to HBL, the values above this gap are perfectly compatible with the regression equation. Apparently, in very large rodents the relation between HBL and body mass is different from that in small and medium-sized rodents. An alternative explanation is that log transformation obscures the real situation.

*The regression equations* – The regression equations of HBL for all rodents (after removing large Hystricomorpha) and for the different taxonomic groups are given in Table 3, and in Table 4 we compare these with the regression equations for the complete data set. In Table 5, we give the latest version of the regression equations of log(body mass), which is based on a much larger data set than the first version by Freudenthal & Martín-Suárez (2013). Differences between Table 3 and 5 have two causes: for HBL the large Hystricidae are removed, but not for body mass; and for several species with tooth row data, no HBL data are available, while for other species no body mass data are recorded.

### Comparison of InfHbl and SupHbl

Ideally, HBL estimates based on LRsum and URsum should be equal. In practice there are differences. Using the all-rodents equation, we calculated the amount of difference as percentage of the midpoint between InfHbl and SupHbl, and counted the

Table 5. Regression equations for log(body mass) on log(tooth row length) in extant rodents. The data set is much larger than the one used by Freudenthal & Martín-Suárez (2013), but the results are very similar.

Mass/LTR	n	slope	intercept	r2	SEE	%PE
all rodents	979	2.705	-0.483	0.87	0.517	9.7
Arvicolidae	133	2.808	-1.542	0.67	0.333	7.2
Castoridae	5	3.340	-1.855	0.81	0.274	2.0
Cricetidae	142	2.496	-0.070	0.76	0.414	8.5
Dipodidae	24	2.684	-0.475	0.92	0.265	6.7
Gliroidae	19	1.861	1.023	0.75	0.320	7.0
Geomyoidea	40	2.432	0.172	0.85	0.443	9.2
Hystricomorpha	51	2.646	-0.203	0.92	0.509	7.3
Muridae	350	2.583	-0.173	0.85	0.348	7.4
Nesomyidae	22	3.433	-1.344	0.97	0.296	6.7
Sciuridae	176	3.021	-1.006	0.91	0.372	5.0
Spalacidae	13	2.764	-0.523	0.74	0.413	5.2
Various	4	2.421	0.103	1.00	0.124	1.9

Mass/UTR	n	slope	intercept	r2	SEE	%PE
all rodents	2628	2.718	-0.487	0.86	0.512	9.5
Arvicolidae	186	3.042	-2.029	0.73	0.336	7.0
Castoridae	4	5.039	-7.386	0.75	0.390	2.8
Cricetidae	759	2.401	0.101	0.69	0.449	9.3
Dipodidae	75	3.206	-1.338	0.89	0.342	7.7
Gliroidae	47	1.878	1.073	0.63	0.377	7.9
Geomyoidea	142	2.375	0.101	0.89	0.395	7.6
Hystricomorpha	203	2.785	-0.575	0.88	0.524	6.8
Muridae	706	2.735	-0.531	0.84	0.406	8.2
Nesomyidae	95	3.610	-1.773	0.92	0.411	8.3
Sciuridae	388	2.987	-0.919	0.88	0.398	5.3
Spalacidae	15	2.246	0.857	0.68	0.407	4.9
Various	8	2.571	0.036	0.91	0.616	5.2

number of cases where the difference exceeds 10 %, either negative or positive.

The results are quite satisfactory, except for Dipodidae and Theridomorpha (Table 6). For Dipodidae data are insufficient. Of the 55 theridomorph populations below the 10 % limit the vast majority are measurements of the wear surface. On the other hand, about half of the populations over the 10 % limit are total crown measurements. Apparently, measurements of wear surface give a fairly good fit, though the resulting HBL estimates are certainly too low. Full crown measurements require very different regression lines for LRsum and URsum, and, since Theridomorpha are extinct, such lines cannot be constructed. A solution might be measuring complete rows, which are available in many populations from fissure fillings.

#### Comparison of HBL from family equations and the all-rodents equation

*Cricetidae* – HBL estimates for 309 fossil Cricetidae species are given in Appendix 1. Differences between HBL based on the Cricetidae equations and the all-rodents equations

Table 6. Comparison of InfHbl and SupHbl. mean dif% = mean difference in % of midpoint. Negative values mean that SupHbl is larger than InfHbl. The last two columns give the number of cases where the difference exceeds an absolute value of 10%.

	n	mean dif%	< -10 %	> 10 %
Arvicolidae	21	0.471	0	1
Cricetidae	742	-1.422	2	6
Dipodidae	10	-10.62	6	0
Eomyidae	153	3.194	0	2
Gliridae	354	2.504	1	16
Muridae	228	-5.833	19	0
Sciuridae	113	5.997	0	17
Theridomorpha	125	10.441	0	70

vary between 0.42 and 2.11 %, an almost perfect fit; discarding species in which either LRsum or URsum are missing the range is from -0.94 to 2.08 %. Slope and intercept of the cricetid equations are practically identical to those of the general equations (Table 3).

*Muridae* – HBL estimates for 99 fossil murid species are given in Appendix 2. Differences between HBL based on the Muridae equations and the all-rodents equations vary between -0.02 and 6.41 %, a very good fit; discarding species where either LRsum or URsum are missing the range is from 0.67 to 2.85 %. Slope and intercept of the murid equation for the upper row are practically identical to those of the all-rodents equation; the parameters for the lower row are somewhat more different (Table 3).

*Gliridae* – In the regression equations for extant Gliridae,  $r^2$  is 0.35 for LTR (n=19) and 0.39 for UTR (n=39), much smaller than  $r^2$  in any other equation. The number of tooth row data, 19 and 39, respectively, is not very large, but other groups with a similar amount of data give much higher values of  $r^2$  (see Table 3). Also, the slopes of the glirid equations, 11.2 and 12.6, are lower than in any other group.

In 206 fossil glirid species, HBL estimates from the Gliridae equations and the all-rodents equations are quite different. The amount of difference as percentage of the mean is presented in Appendix 3. The difference ranges between -26.82 and +32.79 %. It is largest in the smallest species and gradually decreases; the largest species show the largest negative difference because the slope is smaller than that of the all-rodents equations. The row length in Recent glirids ranges from 2.7 to 7.7; in 168 fossil glirid species LRsum ranges from 2.7 to 15.5, but only five are above the upper limit of Recent rows, so the range of fossil glirids is perfectly compatible with Recent Gliridae.

There are four cases of perfectly preserved fossil glirid skeletons that permit a comparison of HBL estimates with the actual values:

*Hypnomys morpheus* from Cova des Coral-loides, Mallorca, Spain (Bover *et al.*, 2010). HBL, measured on the specimen, is 179 mm; the lower tooth row length of this specimen is 7.47 mm (personal communication, Dr. Bover). Applying the regression equation of all rodents to a tooth row of 7.47 we get a HBL of 168.0 mm. The glirid equation gives a HBL of 144.7 mm. The all-rodents equation gives a better result, fairly close to the measured value.

*Eogliravus wildi* from Messel, Germany (Storch & Seiffert, 2007). HBL, according to the authors is 68.0 mm. We estimate LTR to be not less than 4.5, leading to a HBL estimate of more than 105.1 mm for the all-rodents equation and more than 111.8 mm for the glirid equation. The specimen is reported to be adult, judging from tooth wear. We fail to see an explanation for the difference between measured and predicted value.

*Butseloglis micio* from Waltsch, Czech Republic (Fejfar & Storch, 1994). We measured HBL at 115 mm on figure 11 of their publication and took an LTR value of 4.5 from figure 14 therein. Both equations give a perfect fit: 105.1 and 111.8 mm, respectively.

*Glirulus aff. lissiensis* from Saint-Bauzile, France (Mein & Romaggi, 1991). HBL is reported to be 71 mm; UTR on specimen FSL 65 897 from Lissieu is 3.5 (*op. cit.* fig. 1). The all-rodents equation, with 84.8 mm, gives a fairly good fit, the glirid equation gives a much too large result, 103.6 mm.

*Eomyidae* – HBL estimates for 82 fossil Eomyidae species are given in Appendix 4. Differences between HBL based on the Geomysidea equations and the all-rodents equations vary between -6.10 and 9.80 %. Discarding the species where either LRsum or URsum are unavailable, the differences range between -5.89 and 8.06 %, a reasonably good fit (Appendix 4a).

Extant Geomysidea are composed of the families Geomyidae and Heteromyidae. Geomyidae have a much larger body size than fossil Eomyidae; Heteromyidae and Eomyidae are of the same size. When applying the Heteromyidae equations (Table 7) to fossil Eomyidae, the differences with the all-rodents equations range between -6.10 and 8.83 %; however, discarding the species for which either LRsum or URsum are not available, the range is between -1.17 and 0.84 %, a perfect fit (Appendix 4b).

*Sciuridae (and Aplodontidae)* – HBL estimates for 62 fossil Sciuridae species are given in Appendix 5. Differences between HBL based on the Sciuridae equations and the all-rodents equations vary between -9.32 to 11.42 %; discarding species where either LRsum or URsum are missing the range is from -3.82 to 10.88 %. The maximum is some-

Table 7. Regression equations for subgroups of Geomysidea and Sciuridae.

HBL/LTR	n	slope	intercept	r2	SEE	%PE
Geomysidae	10	8.386	110.172	0.37	26.552	10.6
Heteromyidae	30	24.039	0.217	0.84	9.620	7.5
Sciuridae non-flying	155	23.820	-5.744	0.94	24.596	8.0
Sciuridae flying	24	29.434	-80.564	0.88	47.075	14.4

HBL/UTR	n	slope	intercept	r2	SEE	%PE
Geomysidae	45	11.043	78.306	0.61	22.151	8.3
Heteromyidae	96	25.138	-9.267	0.79	11.431	8.3
Hystricomorpha	175	19.850	30.995	0.78	53.055	15.6
Sciuridae non-flying	354	22.853	2.746	0.91	25.847	8.7
Sciuridae flying	37	28.457	-53.636	0.89	42.889	13.1

what larger than in Cricetidae or Muridae, but not excessively. On the other hand, the differences observed for the body mass estimates vary between -7.31 and 27.40 %. Freudenthal & Martín-Suárez (2013) hypothesized that the largest Sciuridae, which are flying squirrels, have a relatively low body mass as an adaptation to their flying habits; that would explain the strong deviation of 27.40 in the largest species. The lower deviations found here for HBL estimates imply that flying has a larger impact on body mass than on head and body length.

Table 7 gives the regression equations for flying and non-flying squirrels separately. When we apply the equations of non-flying squirrels and compare the results with the all-rodents equations we find differences varying between -5.36 and 11.42 %; the limits for species where both LRsum and URsum are available are -2.52 and 10.32 %. The largest difference for a non-flying squirrel is 6.76 %. Our conclusion is that the all-rodents equations give quite reliable results for the Sciuridae.

*Dipodidae* – Differences between the Dipodidae and the all-rodents equations are always negative and range between -12 % and -19 %. We have no explanation for this. The HBL estimates for Dipodidae are given in Appendix 6.

*Arvicolidae* – Differences between the Arvicolidae and the all-rodents equations are always negative, and range between -20 % and -25 %. Freudenthal & Martín-Suárez (2013) refrained from giving body mass estimates for Arvicolidae because data were insufficient. We now have a larger sample and found the differences for body mass to be around -60 %. Apparently the all-rodents equations are not valid for Arvicolidae. The HBL estimates for Arvicolidae are given in Appendix 7.

The results for Cricetidae and Muridae hardly show differences between the all-rodents equation and the family equations. The differences for Sciuridae and Eomyidae are somewhat larger, but the all-rodents equation give acceptable results. For the glirids, the all-rodents equations give the best results and the Gliridae equations should not be used; this may be due to the insufficient number of recent species. For Dipodidae and Arvicolidae the family equations are probably better than the all-rodents equations. Species for which both LRsum and URsum are known give better results than those in which one of the parameters is missing.

### Relation between measured rows and sum of tooth lengths

*Recent* – Data for lower rows of recent species (823) are much more scarce than for upper rows (2385). Row length may be measured as alveolar length or crown length; some authors give information on the way of measuring, but many others do not. Data for lengths of individual teeth are hardly available for Recent material.

Tate (1951) gave data for individual tooth length, and for UTRalv and UTRcr of murid rodents from Australia and New Guinea. The data for 340 individual specimens are given in Appendix 10. URsum and UTRcr are very similar: differences vary between -14.5 and 15.9 %, mean = -0.378 %, standard deviation = 3.554. In four cases the percentage is below -10.0, and in one case it is above 10.0. We expected URsum to be constantly larger than UTR and suppose that this similarity is due to the way of measuring: in fossil mate-

Table 8. Distribution of differences (in %) of complete row length and sum of individual teeth in fossil rodent populations.  $Ldif\% = 100 \times (LTR-LRsum)/midpoint$  and  $Udif\% = 100 \times (UTR-URsum)/midpoint$

	n	min	mean	max	sd
Ldif%	86	-7.32	0.41	13.54	3.91
Udif%	54	-10.71	-1.11	8.11	4.51

rial the length of a tooth is usually measured as the maximum length; if the borders of the teeth are not vertical the anterior part of a tooth lies – in occlusal view – below the posterior part of the preceding one, this overlap is measured twice and URsum is larger than UTR. We do not know how Tate measured the teeth, but assume he measured the visible length of the wear surface; that explains why his URsum and UTRcr are so similar. The difference between UTRalv and UTRcr for 70 specimens varies from 0.0 to 16.4 % with a mean of 6.4 %. Our conclusion is that URsum is on average close to UTRalv.

*Fossil* – On the other hand, we collected data for 100 fossil populations from publications that give both tooth row length and individual tooth measurements. The mean difference for the lower teeth is 0.41 % and for the upper teeth -1.11 % (Table 8). This means that LRsum and URsum are good substitutes for real tooth row length.

### Conclusions

LRsum (sum of the length of the lower teeth) and URsum (sum of the length of the upper teeth) are good substitutes for real tooth row length. The best HBL estimates are obtained for species for which both lower and upper row can be composed. Calculations are made on the linear data since log transformation should be avoided when not strictly necessary.

We calculated HBL from LRsum (InfHbl) and from URsum (SupHbl), and consider the mean of these two values (MeanHbl) as the best estimate; this is done both through the family equation as through the all-rodents equation. Analysis of the percentage error of HBL estimates between the all rodents equation and the equations per taxonomic group (see Appendix 1-7) shows that the results are generally quite satisfactory. Our conclusion is that the general regression equation for all extant rodents may be applied satisfactorily to the fossil rodents, independently of the taxonomic group they belong to. The most important differences are found in the Gliridae, but the glirid equation is based on data from few extant species that are probably not representative for the large number of fossil species. For Arvicolidae the general equations are probably not valid. The regression lines are not valid for very large rodents. For Dipodidae and Theridomorpha no satisfactory solution has been found.

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## Appendices 1-7

Comparison of HBL estimates in mm based on the family equations and the all-rodents equations. The column 'dif' gives the difference between the two MeanHbl values; the column '%%' gives the percentage error (100 x dif /MeanHbl all-rodents)

### Appendix 1 Cricetidae

species	equation Cricetidae			equation all-rodents			dif	%
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl		
<i>Adelomyarion alberti</i>	112.38	115.34	113.86	110.10	114.31	112.21	1.66	1.47
<i>Adelomyarion vireti</i>	102.67	107.36	105.02	100.58	106.55	103.57	1.45	1.40
<i>Allocricetodon aff. incertus</i>	119.57	118.13	118.85	117.14	117.03	117.09	1.76	1.51
<i>Allocricetodon cornelii</i>	106.89	108.76	107.83	104.72	107.91	106.32	1.51	1.42
<i>Allocricetodon incertus</i>	109.21	109.16	109.19	107.00	108.30	107.65	1.54	1.43
<i>Allocricetodon landroveri</i>	121.25	122.12	121.69	118.80	120.91	119.86	1.83	1.53
<i>Allocricetus bursae</i>	111.54	109.16	110.35	109.27	108.30	108.79	1.57	1.44
<i>Allocricetus ehiki</i>	125.90	125.31	125.61	123.35	124.02	123.69	1.92	1.55
<i>Anomalomys aliveriensis</i>	93.37	88.61	90.99	91.46	88.31	89.89	1.11	1.23
<i>Anomalomys cf. rudabanyensis</i>	136.25	119.53	127.89	133.50	118.39	125.95	1.95	1.54
<i>Anomalomys gaillardi</i>	132.03	125.51	128.77	129.36	124.21	126.79	1.99	1.57
<i>Anomalomys gaudryi</i>	120.83	111.55	116.19	118.38	110.63	114.51	1.69	1.47
<i>Anomalomys minor</i>	92.53	88.41	90.47	90.64	88.11	89.38	1.10	1.23
<i>Anomalomys tardosi</i>	126.54	122.52	124.53	123.98	121.30	122.64	1.89	1.54
<i>Anomalomys viretschaubi</i>	147.66	141.06	144.36	144.68	139.35	142.02	2.35	1.65
<i>Apocricetus aff. plinii</i>	130.55	129.30	129.93	127.91	127.90	127.91	2.02	1.58
<i>Apocricetus alberti</i>	141.32	138.07	139.70	138.47	136.44	137.46	2.24	1.63
<i>Apocricetus angustidens</i>	173.85	167.19	170.52	170.36	164.78	167.57	2.95	1.76
<i>Apocricetus barrierei</i>	156.32	153.23	154.78	153.17	151.19	152.18	2.59	1.71
<i>Apocricetus plinii</i>	141.32	137.08	139.20	138.47	135.47	136.97	2.23	1.63
<i>Atavocricetodon atavooides</i>	109.64	110.95	110.30	107.41	110.05	108.73	1.57	1.44
<i>Atavocricetodon atavus</i>	110.06	112.15	111.11	107.82	111.21	109.52	1.59	1.45
<i>Atavocricetodon cf. atavus?</i>	112.17			109.89			2.28	2.07
<i>Atavocricetodon hugueneyae</i>	108.37	108.76	108.57	106.17	107.91	107.04	1.53	1.42
<i>Atavocricetodon kurthi</i>	88.30	93.80	91.05	86.49	93.35	89.92	1.13	1.26
<i>Atavocricetodon minusculus</i>	89.36	94.80	92.08	87.53	94.32	90.93	1.16	1.27
<i>Atavocricetodon nanoides</i>	95.48	98.19	96.84	93.53	97.62	95.58	1.26	1.32
<i>Atavocricetodon nanus</i>	96.96	99.18	98.07	94.98	98.59	96.79	1.29	1.33
<i>Baranomys loczyi</i>	88.51			86.70			1.81	2.09
<i>Baranomys longidens</i>	94.22	99.78	97.00	92.29	99.18	95.74	1.26	1.32
<i>Blancomys sanzi</i>	200.68	193.12	196.90	196.66	190.01	193.34	3.57	1.84
<i>Byzantinia dardanellensis/nikosi</i>	165.82			162.49			3.33	2.05
<i>Calomyscus minor</i>	82.60	87.82	85.21	80.90	87.53	84.22	0.99	1.18
<i>Celadensis nicolae</i>	147.45	135.68	141.57	144.48	134.11	139.30	2.27	1.63
<i>Cincamyarion giganteus</i>	138.58	136.48	137.53	135.78	134.89	135.34	2.20	1.62
<i>Collimys aff. transversus</i>	113.02	114.54	113.78	110.72	113.54	112.13	1.65	1.47
<i>Collimys dobosi</i>	118.72	118.13	118.43	116.31	117.03	116.67	1.76	1.50
<i>Collimys gudrunae</i>	117.03	117.53	117.28	114.66	116.45	115.56	1.72	1.49
<i>Collimys hiri</i>	111.12			108.86			2.26	2.08
<i>Collimys longidens</i>	119.14	111.15	115.15	116.73	110.24	113.49	1.66	1.46
<i>Collimys transversus</i>					106.36		0.80	0.75
<i>Collongomys aff. lappi</i>	121.68	119.13	120.41	119.21	118.00	118.61	1.80	1.52

species	equation Cricetidae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Cricetinus beremendensis</i>	117.03	118.33	117.68	114.66	117.23	115.95	1.74	1.50
<i>Cricetinus europaeus</i>	126.75	126.90	126.83	124.18	125.57	124.88	1.95	1.56
<i>Cricetinus janossyi</i>	147.87			144.89			2.98	2.06
<i>Cricetodon aff. aureus</i>	177.44	173.17	175.31	173.88	170.60	172.24	3.07	1.78
<i>Cricetodon aff. kaspligili</i>		134.88			133.33		1.55	1.16
<i>Cricetodon aff. meinii</i>		168.78			166.33		2.45	1.47
<i>Cricetodon aff. sansaniensis</i>	177.44	169.78	173.61	173.88	167.30	170.59	3.02	1.77
<i>Cricetodon aliveriensis</i>	137.94	138.47	138.21	135.16	136.83	136.00	2.21	1.63
<i>Cricetodon aureus</i>	173.01	180.35	176.68	169.53	177.58	173.56	3.13	1.80
<i>Cricetodon bolligeri</i>	171.95	172.37	172.16	168.50	169.82	169.16	3.00	1.77
<i>Cricetodon candirensis</i>	170.89	170.78	170.84	167.46	168.27	167.87	2.97	1.77
<i>Cricetodon caucasicus</i>	149.56	149.64	149.60	146.55	147.70	147.13	2.47	1.68
<i>Cricetodon cf. hungaricus</i>	190.96	188.33	189.65	187.14	185.35	186.25	3.40	1.83
<i>Cricetodon cf. jotae</i>		163.00			160.70		2.30	1.43
<i>Cricetodon cf. sansaniensis</i>	191.38	180.75	186.07	187.55	177.97	182.76	3.31	1.81
<i>Cricetodon engesseri</i>	197.30	194.71	196.01	193.35	191.56	192.46	3.55	1.84
<i>Cricetodon fandli</i>	163.71	164.80	164.26	160.42	162.45	161.44	2.82	1.75
<i>Cricetodon hagni</i>	191.59	193.91	192.75	187.76	190.78	189.27	3.48	1.84
<i>Cricetodon jotae</i>	170.47	167.39	168.93	167.05	164.97	166.01	2.92	1.76
<i>Cricetodon jumaensis</i>	185.89	182.55	184.22	182.17	179.72	180.95	3.28	1.81
<i>Cricetodon klariankae</i>	179.55	182.55	181.05	175.95	179.72	177.84	3.22	1.81
<i>Cricetodon meinii</i>	163.08	160.61	161.85	159.80	158.37	159.09	2.76	1.73
<i>Cricetodon sansaniensis</i>	190.75	180.95	185.85	186.93	178.17	182.55	3.30	1.81
<i>Cricetodon soriae</i>	180.61			176.99			3.62	2.05
<i>Cricetodon tobieni</i>	138.79	137.87	138.33	135.99	136.25	136.12	2.21	1.62
<i>Cricetulodon bugesiensis</i>	118.30	116.33	117.32	115.90	115.29	115.60	1.72	1.49
<i>Cricetulodon hartenbergeri</i>	110.48	110.35	110.42	108.24	109.46	108.85	1.57	1.44
<i>Cricetulodon lucentensis</i>	123.37	119.13	121.25	120.87	118.00	119.44	1.82	1.52
<i>Cricetulodon meinii</i>	124.21	116.73	120.47	121.70	115.67	118.69	1.79	1.50
<i>Cricetulodon sabadelliensis</i>	118.09	114.74	116.42	115.69	113.73	114.71	1.70	1.49
<i>Cricetus migratorius</i>	105.41	102.77	104.09	103.27	102.09	102.68	1.41	1.37
<i>Cricetus cf. lophidens</i>		152.83			150.80		2.03	1.35
<i>Cricetus cricetus</i>	187.37	177.16	182.27	183.61	174.48	179.05	3.22	1.80
<i>Cricetus lophidens</i>	151.25	147.65	149.45	148.20	145.76	146.98	2.47	1.68
<i>Cricetus major</i>	234.26	223.83	229.05	229.59	219.89	224.74	4.31	1.92
<i>Cricetus praeglacialis</i>	192.65	186.93	189.79	188.79	183.99	186.39	3.40	1.82
<i>Democricetodon aff. brevis</i>	99.29	101.98	100.64	97.26	101.31	99.29	1.35	1.36
<i>Democricetodon aff. crassus</i>	102.46			100.37			2.09	2.08
<i>Democricetodon aff. freisingensis</i>	111.12	110.95	111.04	108.86	110.05	109.46	1.58	1.44
<i>Democricetodon aff. gaillardi</i>	108.16	111.75	109.96	105.96	110.82	108.39	1.57	1.44
<i>Democricetodon aff. gracilis</i>	98.23	98.98	98.61	96.23	98.40	97.32	1.29	1.33
<i>Democricetodon aff. hispanicus</i>	92.32	93.00	92.66	90.43	92.58	91.51	1.16	1.26
<i>Democricetodon aff. mutilus</i>	105.62	107.76	106.69	103.47	106.94	105.21	1.49	1.41
<i>Democricetodon affinis</i>	112.81	113.14	112.98	110.52	112.18	111.35	1.63	1.46
<i>Democricetodon anatolicus</i>	76.90	80.24	78.57	75.31	80.16	77.74	0.83	1.07
<i>Democricetodon brevis</i>	102.24	102.37	102.31	100.16	101.70	100.93	1.38	1.36
<i>Democricetodon cf. affinis</i>		106.76			105.97		0.79	0.75
<i>Democricetodon cf. brevis</i>	98.23	98.78	98.51	96.23	98.21	97.22	1.29	1.32
<i>Democricetodon cf. freisingensis</i>	124.21	121.32	122.77	121.70	120.14	120.92	1.84	1.53
<i>Democricetodon cf. gaillardi</i>	104.15			102.03			2.12	2.08

species	equation Cricetidae			equation all-rodents				%
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	
<i>Democricetodon cf. mutilus</i>	93.16	94.60	93.88	91.26	94.13	92.70	1.19	1.28
<i>Democricetodon crassus</i>	96.96	98.98	97.97	94.98	98.40	96.69	1.28	1.32
<i>Democricetodon doukasi</i>	83.66	89.61	86.64	81.94	89.28	85.61	1.02	1.20
<i>Democricetodon fourensis</i>	115.97	115.54	115.76	113.62	114.51	114.07	1.69	1.48
<i>Democricetodon francoicus</i>	96.12	99.58	97.85	94.16	98.98	96.57	1.28	1.33
<i>Democricetodon freisingensis</i>	119.99	115.34	117.67	117.56	114.31	115.94	1.73	1.49
<i>Democricetodon gaillardi</i>	112.38	114.54	113.46	110.10	113.54	111.82	1.64	1.47
<i>Democricetodon gracilis</i>	91.68	93.60	92.64	89.81	93.16	91.49	1.16	1.26
<i>Democricetodon hanniae</i>	124.85	121.12	122.99	122.32	119.94	121.13	1.86	1.53
<i>Democricetodon hispanicus</i>	92.95	96.19	94.57	91.05	95.68	93.37	1.20	1.29
<i>Democricetodon moralesi</i>	111.12	113.74	112.43	108.86	112.76	110.81	1.62	1.46
<i>Democricetodon mutilus</i>	108.16	110.15	109.16	105.96	109.27	107.62	1.54	1.43
<i>Democricetodon romievagensis</i>	96.75	99.78	98.27	94.78	99.18	96.98	1.29	1.33
<i>Democricetodon sudrei</i>	135.20	138.07	136.64	132.47	136.44	134.46	2.18	1.62
<i>Democricetodon sulcatus</i>	98.65	93.60	96.13	96.64	93.16	94.90	1.22	1.29
<i>Democricetodon vindobonensis</i>	96.75			94.78			1.97	2.08
<i>Eucricetodon aff. aquitanicus</i>	132.24	129.90	131.07	129.57	128.48	129.03	2.05	1.58
<i>Eucricetodon aff. caducus</i>	124.42	126.51	125.47	121.90	125.18	123.54	1.93	1.56
<i>Eucricetodon aff. dubius</i>	126.75	123.31	125.03	124.18	122.08	123.13	1.90	1.54
<i>Eucricetodon aff. gerandianus</i>	126.54	128.50	127.52	123.98	127.12	125.55	1.97	1.57
<i>Eucricetodon aff. infralactorensis</i>	146.81			143.86			2.95	2.05
<i>Eucricetodon aff. longidens</i>	122.94	122.72	122.83	120.46	121.50	120.98	1.85	1.53
<i>Eucricetodon aquitanicus</i>	132.24	128.50	130.37	129.57	127.12	128.35	2.03	1.58
<i>Eucricetodon aquitanicus-</i> <i>infralactorensis</i>	134.77	135.88	135.33	132.05	134.31	133.18	2.14	1.61
<i>Eucricetodon cf. longidens</i>	132.45	130.49	131.47	129.77	129.06	129.42	2.05	1.59
<i>Eucricetodon cf. praecursor</i>	109.43			107.20			2.23	2.08
<i>Eucricetodon collatus</i>	117.24	117.53	117.39	114.86	116.45	115.66	1.73	1.50
<i>Eucricetodon dubius</i>	114.28	116.73	115.51	111.97	115.67	113.82	1.69	1.48
<i>Eucricetodon gerandianus</i>	127.17	126.51	126.84	124.60	125.18	124.89	1.95	1.56
<i>Eucricetodon haslachensis</i>	132.45	132.69	132.57	129.77	131.20	130.49	2.08	1.60
<i>Eucricetodon hesperius</i>	122.94	123.91	123.43	120.46	122.66	121.56	1.86	1.53
<i>Eucricetodon huberi</i>	106.47	112.35	109.41	104.30	111.40	107.85	1.56	1.45
<i>Eucricetodon huergeleri</i>	139.84	141.06	140.45	137.02	139.35	138.19	2.26	1.64
<i>Eucricetodon infralactorensis</i>	140.90	137.67	139.29	138.06	136.05	137.06	2.23	1.63
<i>Eucricetodon liber</i>	140.48	140.67	140.58	137.64	138.96	138.30	2.27	1.64
<i>Eucricetodon longidens</i>	127.59	126.70	127.15	125.01	125.38	125.20	1.95	1.56
<i>Eucricetodon margaritae</i>	120.83	127.30	124.07	118.38	125.96	122.17	1.90	1.55
<i>Eucricetodon martinensis</i>	129.70	128.10	128.90	127.08	126.74	126.91	1.99	1.57
<i>Eucricetodon praecursor</i>	112.38	116.53	114.46	110.10	115.48	112.79	1.67	1.48
<i>Eucricetodon robustus</i>	150.83	147.84	149.34	147.79	145.95	146.87	2.47	1.68
<i>Eucricetodon thezelensis</i>	123.58	121.52	122.55	121.08	120.33	120.71	1.85	1.53
<i>Eumyaryion aff. carbonicus</i>	110.06	106.16	108.11	107.82	105.39	106.61	1.51	1.41
<i>Eumyaryion aff. latior</i>	110.27	111.35	110.81	108.03	110.43	109.23	1.58	1.45
<i>Eumyaryion aff. microps</i>	87.04	94.40	90.72	85.25	93.94	89.60	1.13	1.26
<i>Eumyaryion aff. weinfurteri</i>	112.59	108.36	110.48	110.31	107.52	108.92	1.56	1.43
<i>Eumyaryion bifidus</i>	114.92	111.15	113.04	112.59	110.24	111.42	1.62	1.45
<i>Eumyaryion candelonii</i>	110.48	111.15	110.82	108.24	110.24	109.24	1.58	1.44
<i>Eumyaryion carbonicus</i>	113.02	109.55	111.29	110.72	108.69	109.71	1.58	1.44
<i>Eumyaryion cf. medius</i>	122.52	113.34	117.93	120.04	112.37	116.21	1.72	1.48

species	equation Cricetidae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Eumyarion cf. weinfurteri</i>	108.16	105.96	107.06	105.96	105.19	105.58	1.49	1.41
<i>Eumyarion helveticus</i>		116.53			115.48		1.05	0.91
<i>Eumyarion intercentralis</i>	89.57	88.61	89.09	87.74	88.31	88.03	1.07	1.21
<i>Eumyarion leemannii</i>	119.99	115.34	117.67	117.56	114.31	115.94	1.73	1.49
<i>Eumyarion mediuss</i>	122.73	118.53	120.63	120.25	117.42	118.84	1.79	1.51
<i>Eumyarion microps</i>	88.73	90.61	89.67	86.91	90.25	88.58	1.09	1.23
<i>Eumyarion montanus</i>	115.97	113.74	114.86	113.62	112.76	113.19	1.66	1.47
<i>Eumyarion orhani</i>	100.98	100.38	100.68	98.92	99.76	99.34	1.34	1.35
<i>Eumyarion weinfurteri</i>	109.21	105.76	107.49	107.00	105.00	106.00	1.49	1.40
<i>Fahlbuschia aff. crusafonti</i>	137.52	142.26	139.89	134.74	140.52	137.63	2.26	1.64
<i>Fahlbuschia cf. crusafonti</i>	139.00			136.19			2.81	2.06
<i>Fahlbuschia cf. larteti</i>	126.54	127.70	127.12	123.98	126.35	125.17	1.96	1.56
<i>Fahlbuschia corco+koen</i>	101.82	103.77	102.80	99.75	103.06	101.41	1.39	1.37
<i>Fahlbuschia crusafonti</i>	142.80	142.66	142.73	139.92	140.90	140.41	2.32	1.65
<i>Fahlbuschia darocensis</i>	126.54	127.90	127.22	123.98	126.54	125.26	1.96	1.56
<i>Fahlbuschia decipiens</i>	101.19	103.77	102.48	99.13	103.06	101.10	1.38	1.37
<i>Fahlbuschia freudenthali</i>	119.57	119.92	119.75	117.14	118.78	117.96	1.79	1.51
<i>Fahlbuschia koenigswaldi</i>	111.96	114.14	113.05	109.69	113.15	111.42	1.63	1.46
<i>Fahlbuschia larteti</i>	131.82	133.49	132.66	129.15	131.98	130.57	2.09	1.60
<i>Fahlbuschia sacerdoniensis</i>	100.34	101.98	101.16	98.30	101.31	99.81	1.35	1.36
<i>Hattomys beetsi</i>	197.72	193.12	195.42	193.76	190.01	191.89	3.54	1.84
<i>Hattomys beetsi-nazarii</i>	215.67	212.06	213.87	211.36	208.44	209.90	3.97	1.89
<i>Hattomys gargantua</i>	291.29	288.64	289.97	285.50	282.97	284.24	5.73	2.02
<i>Hattomys nazarii</i>	233.21	226.82	230.02	228.55	222.81	225.68	4.33	1.92
<i>Heterocricetodon cf. gaimersheimensis</i>	169.20	156.82	163.01	165.81	154.68	160.25	2.76	1.73
<i>Heterocricetodon</i>								
<i>gaimersheimensis</i>	171.11	157.02	164.07	167.67	154.88	161.28	2.79	1.73
<i>Heterocricetodon hausi</i>	136.89	130.69	133.79	134.12	129.26	131.69	2.10	1.59
<i>Heterocricetodon schlosseri</i>	171.53	160.81	166.17	168.08	158.57	163.33	2.85	1.74
<i>Heterocricetodon stehlini</i>	181.67			178.02			3.65	2.05
<i>Hispanomys adroveri</i>	191.59	187.73	189.66	187.76	184.77	186.27	3.40	1.82
<i>Hispanomys aff. adroveri</i>	181.46	187.33	184.40	177.82	184.38	181.10	3.30	1.82
<i>Hispanomys aguirrei</i>	166.88	164.20	165.54	163.53	161.86	162.70	2.85	1.75
<i>Hispanomys aragonensis</i>	161.18	161.80	161.49	157.94	159.54	158.74	2.75	1.73
<i>Hispanomys baixasi</i>	176.39	171.78	174.09	172.85	169.24	171.05	3.04	1.78
<i>Hispanomys bijugatus</i>	174.70	173.97	174.34	171.19	171.37	171.28	3.05	1.78
<i>Hispanomys cf. aragonensis</i>	160.97	160.01	160.49	157.73	157.79	157.76	2.73	1.73
<i>Hispanomys daamisi</i>	177.02	178.76	177.89	173.47	176.03	174.75	3.14	1.80
<i>Hispanomys dispectus</i>	164.56	163.60	164.08	161.25	161.28	161.27	2.82	1.75
<i>Hispanomys freudenthali</i>	177.02	172.77	174.90	173.47	170.21	171.84	3.06	1.78
<i>Hispanomys mediterraneus</i>	163.08	165.79	164.44	159.80	163.42	161.61	2.82	1.75
<i>Hispanomys nombrevillae</i>	155.26	155.22	155.24	152.14	153.13	152.64	2.61	1.71
<i>Hispanomys peralensis</i>	163.92	170.38	167.15	160.63	167.88	164.26	2.89	1.76
<i>Karstocricetus skofleki</i>	116.40	116.14	116.27	114.04	115.09	114.57	1.71	1.49
<i>Karydomys boskosi</i>	114.07	116.33	115.20	111.76	115.29	113.53	1.67	1.48
<i>Karydomys debruijnii</i>	115.55	114.34	114.95	113.21	113.34	113.28	1.67	1.47
<i>Karydomys symeonidis</i>	125.69	131.69	128.69	123.15	130.23	126.69	2.00	1.58
<i>Karydomys wigharti</i>	160.12	157.02	158.57	156.90	154.88	155.89	2.68	1.72
<i>Kerosinia aff. variabilis</i>	96.12	103.17	99.65	94.16	102.48	98.32	1.33	1.35

species	equation Cricetidae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Kerosinia variabilis</i>	97.39	102.18	99.79	95.40	101.51	98.46	1.33	1.35
<i>Megacricetodon aff. bavaricus</i>	106.47	105.96	106.22	104.30	105.19	104.75	1.47	1.40
<i>Megacricetodon aff. germanicus</i>	101.82			99.75			2.07	2.08
<i>Megacricetodon aff. minor</i>	81.75			80.07			1.68	2.10
<i>Megacricetodon aff. primitivus</i>	89.15	89.01	89.08	87.32	88.70	88.01	1.07	1.22
<i>Megacricetodon aguilarii</i>	93.58	96.19	94.89	91.67	95.68	93.68	1.21	1.29
<i>Megacricetodon andrewsi</i>	89.57	90.81	90.19	87.74	90.44	89.09	1.10	1.23
<i>Megacricetodon aunayi</i>	109.43	107.36	108.40	107.20	106.55	106.88	1.52	1.42
<i>Megacricetodon bavaricus</i>	104.15	105.96	105.06	102.03	105.19	103.61	1.45	1.39
<i>Megacricetodon beijingensis</i>		91.21			90.83		0.38	0.42
<i>Megacricetodon bezianensis</i>	94.64	94.40	94.52	92.71	93.94	93.33	1.20	1.28
<i>Megacricetodon bourgeoisi</i>	97.39	94.00	95.70	95.40	93.55	94.48	1.22	1.29
<i>Megacricetodon cf. gregarius</i>	101.61	98.19	99.90	99.54	97.62	98.58	1.32	1.34
<i>Megacricetodon collongensis</i>	87.04	88.81	87.93	85.25	88.50	86.88	1.05	1.21
<i>Megacricetodon collongensis-crusfonti</i>	93.58	94.00	93.79	91.67	93.55	92.61	1.18	1.27
<i>Megacricetodon collongensis-gersii</i>	90.63	91.41	91.02	88.77	91.03	89.90	1.12	1.25
<i>Megacricetodon crisiensis</i>	95.70			93.74			1.96	2.09
<i>Megacricetodon crusfonti</i>	97.81	97.79	97.80	95.81	97.24	96.53	1.28	1.32
<i>Megacricetodon daamsi</i>	81.75	88.41	85.08	80.07	88.11	84.09	0.99	1.18
<i>Megacricetodon debruijnii</i>	82.18	84.43	83.31	80.49	84.23	82.36	0.95	1.15
<i>Megacricetodon fahlbuschi</i>	108.16	105.76	106.96	105.96	105.00	105.48	1.48	1.40
<i>Megacricetodon fournasi</i>	105.62	104.17	104.90	103.47	103.45	103.46	1.44	1.39
<i>Megacricetodon freudenthalii</i>	83.66			81.94			1.72	2.10
<i>Megacricetodon germanicus</i>	110.48	110.35	110.42	108.24	109.46	108.85	1.57	1.44
<i>Megacricetodon gersii</i>	95.91	95.19	95.55	93.95	94.71	94.33	1.22	1.29
<i>Megacricetodon gersii/bourgeoisi</i>	102.03	100.38	101.21	99.95	99.76	99.86	1.35	1.35
<i>Megacricetodon gregarius</i>	105.62	105.96	105.79	103.47	105.19	104.33	1.46	1.40
<i>Megacricetodon ibericus</i>	100.98	100.18	100.58	98.92	99.56	99.24	1.34	1.35
<i>Megacricetodon lappi</i>	128.44	125.51	126.98	125.84	124.21	125.03	1.95	1.56
<i>Megacricetodon lemartineli</i>	100.13	98.39	99.26	98.09	97.82	97.96	1.30	1.33
<i>Megacricetodon lopezae</i>	83.66	87.22	85.44	81.94	86.95	84.45	1.00	1.18
<i>Megacricetodon minor</i>	84.71	86.62	85.67	82.97	86.37	84.67	0.99	1.18
<i>Megacricetodon minutus</i>	84.71	86.22	85.47	82.97	85.98	84.48	0.99	1.17
<i>Megacricetodon mythikos</i>		107.56			106.75		0.81	0.76
<i>Megacricetodon primitivus</i>	82.18	84.43	83.31	80.49	84.23	82.36	0.95	1.15
<i>Megacricetodon primitivus-collongensis</i>	81.97			80.28			1.69	2.11
<i>Megacricetodon rafaeli/crusfonti</i>	94.85	95.00	94.93	92.91	94.52	93.72	1.21	1.29
<i>Megacricetodon robustus</i>	93.79	95.19	94.49	91.88	94.71	93.30	1.20	1.28
<i>Megacricetodon roussillonensis</i>	110.27	106.56	108.42	108.03	105.78	106.91	1.51	1.41
<i>Megacricetodon similis</i>	94.01			92.09			1.92	2.08
<i>Megacricetodon sivalensis</i>	86.61	92.40	89.51	84.84	92.00	88.42	1.08	1.23
<i>Megacricetodon tautavelensis</i>	79.01	80.84	79.93	77.38	80.74	79.06	0.87	1.09
<i>Megacricetodon vandermeuleni</i>	93.37	93.40	93.39	91.46	92.97	92.22	1.17	1.27
<i>Megacricetodon wuae</i>	106.05	102.18	104.12	103.89	101.51	102.70	1.42	1.38
<i>Megacricetodon yei</i>	88.73	91.41	90.07	86.91	91.03	88.97	1.10	1.24
<i>Melissiodon aff. chatticus</i>	174.27	168.59	171.43	170.78	166.13	168.46	2.98	1.77
<i>Melissiodon aff. dominans</i>	179.13	175.76	177.45	175.54	173.12	174.33	3.12	1.79
<i>Melissiodon aff. quercyi</i>	171.53	170.18	170.86	168.08	167.69	167.89	2.97	1.77

species	equation Cricetidae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Melissiodon aff. schlosseri</i>	166.46			163.11			3.35	2.05
<i>Melissiodon bernlochensis</i>	152.31	152.83	152.57	149.24	150.80	150.02	2.55	1.70
<i>Melissiodon chatticus</i>	188.43	183.74	186.09	184.65	180.88	182.77	3.32	1.82
<i>Melissiodon dominans</i>	176.81	168.39	172.60	173.26	165.94	169.60	3.00	1.77
<i>Melissiodon emmerichi</i>		170.98			168.46		2.52	1.50
<i>Melissiodon quercyi</i>	165.19	163.80	164.50	161.87	161.48	161.68	2.82	1.74
<i>Melissiodon schalki</i>		162.00			159.73		2.27	1.42
<i>Melissiodon schaubi</i>	164.77	161.80	163.29	161.46	159.54	160.50	2.79	1.74
<i>Melissiodon schroederi</i>	181.67	167.39	174.53	178.02	164.97	171.50	3.03	1.77
<i>Meteamys alpani</i>	159.91	153.83	156.87	156.69	151.77	154.23	2.64	1.71
<i>Microtocricetus molassicus</i>	127.59	130.29	128.94	125.01	128.87	126.94	2.00	1.58
<i>Mixocricetodon dehmi</i>	220.32	214.65	217.49	215.92	210.97	213.45	4.04	1.89
<i>Muhsinia steffensi</i>	122.94	126.31	124.63	120.46	124.99	122.73	1.90	1.55
<i>Neocometes brunonis</i>	129.92	123.51	126.72	127.29	122.27	124.78	1.94	1.55
<i>Neocometes similis</i>	117.24	110.95	114.10	114.86	110.05	112.46	1.64	1.46
<i>Neocricetodon ambarrensis</i>	112.59	111.15	111.87	110.31	110.24	110.28	1.60	1.45
<i>Neocricetodon fahlbuschi</i>	123.16	123.31	123.24	120.66	122.08	121.37	1.86	1.54
<i>Neocricetodon lavocati</i>	112.38	115.94	114.16	110.10	114.90	112.50	1.66	1.48
<i>Neocricetodon occidentalis</i>	126.96	127.10	127.03	124.39	125.77	125.08	1.95	1.56
<i>Neocricetodon polonicus</i>	102.24	100.98	101.61	100.16	100.34	100.25	1.36	1.36
<i>Neocricetodon seseae</i>	128.44	127.70	128.07	125.84	126.35	126.10	1.97	1.57
<i>Neocricetodon skofleki</i>	117.03	112.15	114.59	114.66	111.21	112.94	1.66	1.47
<i>Paracricetodon aff. cadurcensis</i>	156.95	160.61	158.78	153.80	158.37	156.09	2.69	1.73
<i>Paracricetodon aff. dehmi</i>	141.53	145.45	143.49	138.68	143.62	141.15	2.34	1.66
<i>Paracricetodon aff. kavakderensis</i>	148.29	153.03	150.66	145.30	151.00	148.15	2.51	1.69
<i>Paracricetodon cadurcensis</i>	160.97	162.20	161.59	157.73	159.92	158.83	2.76	1.74
<i>Paracricetodon kavakderensis</i>	147.45	150.84	149.15	144.48	148.86	146.67	2.47	1.69
<i>Paracricetodon kodjayarmensis</i>	151.88	151.83	151.86	148.83	149.83	149.33	2.53	1.69
<i>Paracricetodon wentgesi</i>	114.28	115.74	115.01	111.97	114.70	113.34	1.67	1.48
<i>Pseudocollimys steiningeri</i>	102.67	100.58	101.63	100.58	99.95	100.27	1.36	1.36
<i>Pseudocricetodon adroveri</i>	88.51	89.41	88.96	86.70	89.08	87.89	1.07	1.22
<i>Pseudocricetodon aff. montalbanensis</i>	90.84	91.01	90.93	88.98	90.64	89.81	1.12	1.24
<i>Pseudocricetodon aff. thaleri</i>	87.67	88.81	88.24	85.87	88.50	87.19	1.06	1.21
<i>Pseudocricetodon cf. orientalis</i>	89.78	89.21	89.50	87.94	88.89	88.42	1.08	1.22
<i>Pseudocricetodon incertus</i>	114.71	114.14	114.43	112.38	113.15	112.77	1.66	1.47
<i>Pseudocricetodon moguntiacus</i>	96.54	98.59	97.57	94.57	98.01	96.29	1.28	1.32
<i>Pseudocricetodon montalbanensis</i>	86.61	87.22	86.92	84.84	86.95	85.90	1.02	1.19
<i>Pseudocricetodon nanus</i>	85.77	85.82	85.80	84.01	85.59	84.80	0.99	1.17
<i>Pseudocricetodon orientalis</i>	87.88	89.01	88.45	86.08	88.70	87.39	1.05	1.21
<i>Pseudocricetodon philippi</i>	69.50	73.06	71.28	68.06	73.17	70.62	0.66	0.94
<i>Pseudocricetodon simplex</i>	87.04	88.21	87.63	85.25	87.92	86.59	1.04	1.20
<i>Pseudocricetodon thaleri</i>	93.79	93.20	93.50	91.88	92.77	92.33	1.17	1.27
<i>Pseudofahlbuschia aff. jordensi</i>	114.71	115.34	115.03	112.38	114.31	113.35	1.68	1.48
<i>Pseudofahlbuschia catalaunica</i>	122.94	122.12	122.53	120.46	120.91	120.69	1.85	1.53
<i>Pseudofahlbuschia cf. jordensi</i>	115.13	113.94	114.54	112.79	112.96	112.88	1.66	1.47
<i>Pseudofahlbuschia jordensi</i>	121.04	122.52	121.78	118.59	121.30	119.95	1.84	1.53
<i>Pseudoruscinomys lavocati</i>	183.15	182.94	183.05	179.47	180.11	179.79	3.26	1.81
<i>Renzimys bilobatus</i>	140.69	145.25	142.97	137.85	143.43	140.64	2.33	1.66
<i>Renzimys lacombai</i>	137.10	138.47	137.79	134.33	136.83	135.58	2.20	1.63

species	equation Cricetidae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Rotundomys bressanii</i>	150.62	148.24	149.43	147.58	146.34	146.96	2.47	1.68
<i>Rotundomys freiriensis</i>	114.71			112.38			2.33	2.07
<i>Rotundomys montisrotundi</i>	135.20	134.08	134.64	132.47	132.56	132.52	2.13	1.60
<i>Rotundomys mundi</i>	125.27			122.73			2.54	2.07
<i>Rotundomys sabatieri</i>	130.97	132.29	131.63	128.32	130.81	129.57	2.07	1.59
<i>Ruscinomys aff. europaeus</i>	216.73	214.85	215.79	212.40	211.16	211.78	4.01	1.89
<i>Ruscinomys africanus</i>	206.80	200.49	203.65	202.67	197.19	199.93	3.72	1.86
<i>Ruscinomys cf. lasallei</i>	196.66	196.70	196.68	192.73	193.50	193.12	3.57	1.85
<i>Ruscinomys europaeus</i>	249.47			244.50			4.97	2.03
<i>Ruscinomys europeus</i>	278.83	270.69	274.76	273.28	265.50	269.39	5.37	1.99
<i>Ruscinomys lasallei</i>	212.08			207.84			4.24	2.04
<i>Ruscinomys schaubi</i>	203.42	196.90	200.16	199.35	193.69	196.52	3.64	1.85
<i>Schizocricetodon huerzeleri</i>	127.38	130.29	128.84	124.80	128.87	126.84	2.00	1.58
<i>Spanocricetodon cf. sinuosus</i>	80.70			79.04			1.66	2.10
<i>Spanocricetodon ningensis</i>	92.11			90.22			1.89	2.09
<i>Spanocricetodon sinuosus</i>	83.87	87.62	85.75	82.15	87.34	84.75	1.00	1.18
<i>Trakymys aff. saratji</i>	156.32	158.61	157.47	153.17	156.43	154.80	2.66	1.72
<i>Trakymys saratji</i>	158.01	156.82	157.42	154.83	154.68	154.76	2.66	1.72
<i>Trilophomys cf. castroi</i>	158.85	136.28	147.57	155.66	134.69	145.18	2.39	1.65
<i>Trilophomys pyrenaicus</i>	152.31	122.72	137.52	149.24	121.50	135.37	2.14	1.58
<i>Trilophomys schaubi</i>	110.48	115.14	112.81	108.24	114.12	111.18	1.63	1.47
<i>Trilophomys vandeweerdii</i>	179.77	173.97	176.87	176.16	171.37	173.77	3.11	1.79
<i>Turkomys pasalarensis</i>	162.87	159.01	160.94	159.59	156.82	158.21	2.74	1.73

## Appendix 2 Muridae

species	equation Muridae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Anthracomys lorenzi</i>	151.29	163.24	157.27	146.34	160.89	153.62	3.65	2.38
<i>Apodemus aff. gorafensis</i>	123.54			118.18			5.36	4.54
<i>Apodemus agustii</i>	124.15	125.38	124.77	118.80	126.15	122.48	2.29	1.87
<i>Apodemus atavus</i>	100.90	97.89	99.40	95.19	100.92	98.06	1.34	1.37
<i>Apodemus atavus?</i>	102.53	99.58	101.06	96.85	102.48	99.67	1.39	1.39
<i>Apodemus barbaeae</i>	106.81	105.29	106.05	101.20	107.72	104.46	1.59	1.52
<i>Apodemus cf. dominans</i>	107.22			101.61			5.61	5.52
<i>Apodemus dominans</i>	105.39	103.17	104.28	99.75	105.78	102.77	1.52	1.47
<i>Apodemus fina-d</i>	109.87	106.13	108.00	104.30	108.49	106.40	1.61	1.51
<i>Apodemus flavicollis</i>	102.53	102.33	102.43	96.85	105.00	100.93	1.51	1.49
<i>Apodemus gaudryi</i>	110.89			105.34			5.55	5.27
<i>Apodemus gorafensis</i>	124.77	119.67	122.22	119.42	120.91	120.17	2.06	1.71
<i>Apodemus gudrunae</i>	116.61	110.15	113.38	111.14	112.18	111.66	1.72	1.54
<i>Apodemus jeanteti</i>	130.07	126.01	128.04	124.80	126.74	125.77	2.27	1.80
<i>Apodemus lugdunensis</i>	99.67	95.35	97.51	93.95	98.59	96.27	1.24	1.29
<i>Apodemus meini</i>	118.24	118.61	118.43	112.79	119.94	116.37	2.06	1.77
<i>Apodemus mystacinus</i>	116.40	117.13	116.77	110.93	118.58	114.76	2.01	1.75
<i>Apodemus robertsi</i>	144.96			139.92			5.04	3.60
<i>Apodemus sylvaticus</i>	101.51	98.10	99.81	95.81	101.12	98.47	1.34	1.36
<i>Arvicanthis broekhuisi</i>	180.87	182.49	181.68	176.37	178.56	177.47	4.22	2.38
<i>Castillomys crusafonti</i>	90.70	88.58	89.64	84.84	92.38	88.61	1.03	1.16
<i>Castillomys gracilis</i>	88.04	84.98	86.51	82.15	89.08	85.62	0.89	1.05

species	equation Muridae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Castillomys rivas</i>	95.80	94.71	95.26	90.01	98.01	94.01	1.24	1.32
<i>Castromys inflatus</i>	150.88	151.39	151.14	145.93	150.03	147.98	3.15	2.13
<i>Castromys littoralis</i>	137.01	136.80	136.91	131.84	136.63	134.24	2.67	1.99
<i>Centralomys benericetii</i>	98.24	94.29	96.27	92.50	97.62	95.06	1.21	1.27
<i>Centralomys magnus</i>	103.96	102.54	103.25	98.30	105.19	101.75	1.51	1.48
<i>Debruijnimus almenarensis</i>		134.47			134.50		-0.03	-0.02
<i>Debruijnimus julii</i>		135.74			135.66		0.08	0.06
<i>Epimeriones austriacus</i>	112.53	107.19	109.86	107.00	109.46	108.23	1.63	1.51
<i>Gerbillus bibersoni</i>	106.00	102.54	104.27	100.37	105.19	102.78	1.49	1.45
<i>Huerzelerimys cf. turoliensis</i>	145.98			140.96			5.02	3.56
<i>Huerzelerimys juniensis</i>	132.93			127.70			5.23	4.10
<i>Huerzelerimys minor</i>	115.59	111.42	113.51	110.10	113.34	111.72	1.79	1.60
<i>Huerzelerimys oreopitheci</i>	129.46	135.11	132.29	124.18	135.08	129.63	2.66	2.05
<i>Huerzelerimys turoliensis</i>	144.35	144.20	144.28	139.30	143.43	141.37	2.91	2.06
<i>Huerzelerimys vireti</i>	125.58	123.27	124.43	120.25	124.21	122.23	2.20	1.80
<i>Karnimata darwini</i>	118.03	110.58	114.31	112.59	112.57	112.58	1.73	1.53
<i>Karnimata huxleyi</i>	114.97	109.09	112.03	109.48	111.21	110.35	1.69	1.53
<i>Kritimys catreus</i>	224.32	246.36	235.34	220.47	237.17	228.82	6.52	2.85
<i>Micromys bendai</i>	97.02	94.50	95.76	91.26	97.82	94.54	1.22	1.29
<i>Micromys caesaris</i>	84.78	79.48	82.13	78.83	84.04	81.44	0.69	0.85
<i>Micromys paricioi</i>	76.82	73.35	75.09	70.76	78.41	74.59	0.50	0.67
<i>Micromys steffensi</i>	111.10	109.31	110.21	105.55	111.40	108.48	1.73	1.59
<i>Murinae gen. indet.</i>	145.98	148.65	147.32	140.96	147.50	144.23	3.08	2.14
<i>Mus bateae</i>	96.00			90.22			5.78	6.41
<i>Mus haouzi</i>	85.19	84.14	84.67	79.25	88.31	83.78	0.88	1.06
<i>Mus ique</i>	81.52	82.45	81.99	75.52	86.76	81.14	0.84	1.04
<i>Mus minotaurus</i>	117.42	123.48	120.45	111.97	124.41	118.19	2.26	1.91
<i>Occitanomys adroveri</i>	107.22	105.29	106.26	101.61	107.72	104.67	1.59	1.52
<i>Occitanomys alcalai</i>	104.37	101.48	102.93	98.71	104.22	101.47	1.46	1.44
<i>Occitanomys brailloni</i>	114.36	109.73	112.05	108.86	111.79	110.33	1.72	1.56
<i>Occitanomys debruijni</i>	99.26	96.83	98.05	93.53	99.95	96.74	1.30	1.35
<i>Occitanomys hispanicus</i>	96.00	92.17	94.09	90.22	95.68	92.95	1.14	1.22
<i>Occitanomys sondaari</i>	99.06	94.92	96.99	93.33	98.21	95.77	1.22	1.27
<i>Occitanomys vandami</i>	98.24	93.02	95.63	92.50	96.46	94.48	1.15	1.22
<i>Orientalomys similis</i>	105.79	97.04	101.42	100.16	100.15	100.16	1.26	1.26
<i>Paraethomys abaigari</i>		147.16			146.14		1.02	0.70
<i>Paraethomys aff. meini</i>	119.05			113.62			5.43	4.78
<i>Paraethomys anomalus</i>	122.32	118.19	120.26	116.93	119.56	118.25	2.01	1.70
<i>Paraethomys athmeniae</i>	132.93	133.42	133.18	127.70	133.53	130.62	2.56	1.96
<i>Paraethomys belmezensis</i>	127.01	126.65	126.83	121.70	127.32	124.51	2.32	1.86
<i>Paraethomys cf. meini</i>	130.89			125.63			5.26	4.19
<i>Paraethomys chikeri</i>	133.54	138.07	135.81	128.32	137.80	133.06	2.75	2.06
<i>Paraethomys lissasensis</i>	123.34	124.11	123.73	117.97	124.99	121.48	2.25	1.85
<i>Paraethomys meini</i>	117.42	119.25	118.34	111.97	120.53	116.25	2.09	1.79
<i>Parapelomys charkhensis</i>	136.39	141.03	138.71	131.22	140.52	135.87	2.84	2.09
<i>Pelomys europeus</i>		152.03			150.61		1.42	0.94
<i>Progonomys cathalai</i>	103.14	101.48	102.31	97.47	104.22	100.85	1.47	1.45
<i>Progonomys cf. woelferi</i>	115.59	115.02	115.31	110.10	116.64	113.37	1.94	1.71
<i>Progonomys woelferi</i>	111.91	111.84	111.88	106.37	113.73	110.05	1.82	1.66
<i>Protatera davidi</i>	112.12	107.19	109.66	106.58	109.46	108.02	1.64	1.51

species	equation Muridae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Pseudomeriones abbreviatus</i>	126.60	125.59	126.10	121.28	126.35	123.82	2.28	1.84
<i>Pseudomeriones hansi</i>	111.91	106.98	109.45	106.37	109.27	107.82	1.63	1.51
<i>Pseudomeriones megistos</i>	138.84	131.09	134.97	133.71	131.39	132.55	2.41	1.82
<i>Rhagapodemus cf. ballecioi</i>	104.57	100.00	102.29	98.92	102.86	100.89	1.40	1.38
<i>Rhagapodemus cf. hautimagnensis</i>	127.62	117.77	122.70	122.32	119.17	120.75	1.95	1.61
<i>Rhagapodemus freqüens</i>	128.64	131.73	130.19	123.35	131.98	127.67	2.52	1.97
<i>Rhagapodemus frequens</i>	125.79	116.71	121.25	120.46	118.20	119.33	1.92	1.61
<i>Rhagapodemus hautimagnensis</i>	119.87			114.45			5.42	4.74
<i>Rhagapodemus primaevus</i>	107.63	105.08	106.36	102.03	107.52	104.78	1.58	1.51
<i>Rhagapodemus primitivus</i>	120.89	121.15	121.02	115.49	122.27	118.88	2.14	1.80
<i>Rhagapodemus vandeweerdi</i>	121.91	117.34	119.63	116.52	118.78	117.65	1.97	1.68
<i>Saidomys afghanensis</i>	170.87	178.89	174.88	166.22	175.26	170.74	4.14	2.42
<i>Stephanomys aff. medioides</i>	126.60			121.28			5.32	4.39
<i>Stephanomys balcellsi</i>	161.28	177.20	169.24	156.49	173.70	165.10	4.15	2.51
<i>Stephanomys calvetti</i>	141.70	145.90	143.80	136.61	144.98	140.80	3.01	2.13
<i>Stephanomys donnezani</i>	142.51	146.32	144.42	137.44	145.37	141.41	3.01	2.13
<i>Stephanomys dubari</i>	122.52			117.14			5.38	4.59
<i>Stephanomys margaritae</i>	134.56	139.55	137.06	129.36	139.16	134.26	2.80	2.08
<i>Stephanomys medioides</i>	126.60	128.98	127.79	121.28	129.45	125.37	2.43	1.93
<i>Stephanomys michauxi</i>	119.05	122.84	120.95	113.62	123.82	118.72	2.22	1.87
<i>Stephanomys minor</i>	139.45	144.42	141.94	134.33	143.62	138.98	2.96	2.13
<i>Stephanomys numidicus</i>	126.19	127.71	126.95	120.87	128.29	124.58	2.37	1.90
<i>Stephanomys prietaensis</i>	165.36	167.68	166.52	160.63	164.97	162.80	3.72	2.29
<i>Stephanomys ramblensis</i>	119.87	121.78	120.83	114.45	122.85	118.65	2.18	1.83
<i>Stephanomys sp.</i>	120.48			115.07			5.41	4.70
<i>Stephanomys thaleri</i>	159.45	169.37	164.41	154.62	166.52	160.57	3.84	2.39
<i>Stephanomys vandeweerdi</i>	152.10	160.49	156.30	147.17	158.37	152.77	3.53	2.31

### Appendix 3 Gliridae

species	equation Gliridae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Anthracoglis engesseri</i>	149.25	148.85	149.05	176.78	165.16	170.97	-21.92	-12.82
<i>Armantomys aragonensis</i>	134.39	130.99	132.69	149.03	135.66	142.35	-9.66	-6.78
<i>Armantomys aragonensis?</i>		139.45			149.64		-10.19	-6.81
<i>Armantomys bijmai</i>	108.33	108.31	108.32	100.37	98.21	99.29	9.03	9.09
<i>Armantomys daamsi</i>	113.21	114.07	113.64	109.48	107.72	108.60	5.04	4.64
<i>Armantomys jasperi</i>	121.20	115.83	118.52	124.39	110.63	117.51	1.01	0.86
<i>Armantomys parsani</i>	122.75	122.17	122.46	127.29	121.11	124.20	-1.74	-1.40
<i>Armantomys tricristatus</i>	153.69	146.26	149.98	185.06	160.89	172.98	-23.00	-13.30
<i>Bransatoglis adroveri</i>	135.84	136.74	136.29	151.72	145.17	148.45	-12.16	-8.19
<i>Bransatoglis aff. spectabilis</i>		137.80			146.92		-9.12	-6.21
<i>Bransatoglis cadeoti</i>	148.14	149.20	148.67	174.71	165.75	170.23	-21.56	-12.67
<i>Bransatoglis concavidens</i>	138.05	139.33	138.69	155.87	149.44	152.66	-13.97	-9.15
<i>Bransatoglis fugax</i>	110.77	114.54	112.66	104.92	108.49	106.71	5.95	5.58
<i>Bransatoglis mayri</i>	149.48			177.20			-27.72	-15.64
<i>Butseloglis aff. bruynii</i>	115.54	114.54	115.04	113.83	108.49	111.16	3.88	3.49
<i>Butseloglis aff. itardiensis</i>	104.90	103.37	104.14	93.95	90.05	92.00	12.14	13.19
<i>Butseloglis aff. micio</i>	108.11	107.49	107.80	99.95	96.85	98.40	9.40	9.55
<i>Butseloglis bravoi</i>	124.19	122.17	123.18	129.98	121.11	125.55	-2.36	-1.88

species	equation Gliridae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Butseloglis bruijni</i>	115.88	115.24	115.56	114.45	109.66	112.06	3.51	3.13
<i>Butseloglis cf. bruijni</i>	122.09			126.05			-3.96	-3.14
<i>Butseloglis cf. daamsi</i>		119.12			116.06		3.06	2.64
<i>Butseloglis itardiensis</i>	108.56	107.13	107.85	100.78	96.27	98.53	9.32	9.46
<i>Butseloglis micio</i>	108.11	108.54	108.33	99.95	98.59	99.27	9.05	9.12
<i>Butseloglis montisalbani</i>	104.12	103.37	103.75	92.50	90.05	91.28	12.47	13.66
<i>Butseloglis tenuis</i>	105.23	105.25	105.24	94.57	93.16	93.87	11.38	12.12
<i>Carbomys sacaresi</i>	176.98	173.40	175.19	228.55	205.73	217.14	-41.95	-19.32
<i>Dryomys apulus</i>	103.23	102.67	102.95	90.84	88.89	89.87	13.09	14.56
<i>Eivissia canarreiensis</i>		164.83			191.56		-26.73	-13.95
<i>Eliomys aff. intermedius</i>	115.99			114.66			1.33	1.16
<i>Eliomys intermedius</i>	128.74	130.28	129.51	138.47	134.50	136.49	-6.98	-5.11
<i>Eliomys lafarguei</i>	103.90	104.08	103.99	92.09	91.22	91.66	12.34	13.46
<i>Eliomys reductus</i>	101.13	101.73	101.43	86.91	87.34	87.13	14.31	16.42
<i>Eliomys truci</i>	109.78	108.31	109.05	103.06	98.21	100.64	8.41	8.36
<i>Eoglravus hammeli</i>	108.00	106.08	107.04	99.75	94.52	97.14	9.91	10.20
<i>Eoglravus moltzeri</i>	112.44	111.60	112.02	108.03	103.64	105.84	6.18	5.84
<i>Eomuscardinus aff. sansaniensis</i>	101.57	104.67	103.12	87.74	92.19	89.97	13.16	14.62
<i>Eomuscardinus cf. sansaniensis</i>	103.57			91.46			12.11	13.24
<i>Eomuscardinus sansaniensis</i>		112.42			105.00		7.42	7.07
<i>Eomuscardinus vallesiensis</i>	102.13	109.72	105.93	88.77	100.54	94.66	11.27	11.91
<i>Glamys aff. fordii</i>	109.00	109.72	109.36	101.61	100.54	101.08	8.29	8.20
<i>Glamys devoogdi</i>	103.34	103.14	103.24	91.05	89.67	90.36	12.88	14.25
<i>Glamys fordii</i>	112.22	109.60	110.91	107.62	100.34	103.98	6.93	6.66
<i>Glamys olallensis</i>	95.25	94.91	95.08	75.93	76.08	76.01	19.08	25.10
<i>Glamys priscus</i>	99.02	98.32	98.67	82.97	81.71	82.34	16.33	19.83
<i>Glamys umbriae</i>	108.45	108.07	108.26	100.58	97.82	99.20	9.06	9.13
<i>Gliravus aff. robiacensis</i>	100.13			85.04			15.09	17.74
<i>Gliravus alvarezae</i>	105.01	108.19	106.60	94.16	98.01	96.09	10.52	10.94
<i>Gliravus caracensis</i>	100.79			86.29			14.50	16.80
<i>Gliravus hispanicus</i>	105.56	105.25	105.41	95.19	93.16	94.18	11.23	11.92
<i>Gliravus majori</i>	100.91	101.61	101.26	86.49	87.14	86.82	14.45	16.64
<i>Gliravus meridionalis</i>	108.00	104.78	106.39	99.75	92.38	96.07	10.33	10.75
<i>Gliravus minor</i>	91.48			68.89			22.59	32.79
<i>Gliravus pyrenaicus</i>	111.11	112.07	111.59	105.55	104.42	104.99	6.61	6.29
<i>Gliravus robiacensis</i>	98.80	99.73	99.27	82.56	84.04	83.30	15.97	19.17
<i>Glirudinus aff. engesseri</i>	101.35	100.55	100.95	87.32	85.40	86.36	14.59	16.89
<i>Glirudinus aff. gracilis</i>	102.68	104.08	103.38	89.81	91.22	90.52	12.87	14.21
<i>Glirudinus aff. modestus</i>	99.69	100.44	100.07	84.22	85.20	84.71	15.36	18.13
<i>Glirudinus antiquus</i>	101.68	102.08	101.88	87.94	87.92	87.93	13.95	15.86
<i>Glirudinus bouziguensis</i>	99.24			83.39			15.85	19.01
<i>Glirudinus eggingsensis</i>	119.87	118.88	119.38	121.90	115.67	118.79	0.59	0.50
<i>Glirudinus engesseri</i>	101.90	101.26	101.58	88.36	86.56	87.46	14.12	16.14
<i>Glirudinus euryodon</i>		107.02			96.07		10.95	11.40
<i>Glirudinus glirulus</i>	106.56	106.43	106.50	97.06	95.10	96.08	10.42	10.84
<i>Glirudinus gracilis</i>	111.55	111.95	111.75	106.37	104.22	105.30	6.46	6.13
<i>Glirudinus haramiensis</i>	105.01	104.55	104.78	94.16	92.00	93.08	11.70	12.57
<i>Glirudinus minutus</i>	100.02	101.49	100.76	84.84	86.95	85.90	14.86	17.30
<i>Glirudinus modestus</i>	101.02	101.26	101.14	86.70	86.56	86.63	14.51	16.75
<i>Glirudinus undosus</i>	106.67	107.49	107.08	97.26	96.85	97.06	10.03	10.33

species	equation Gliridae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Glirulus agelakisi</i>	109.67	111.36	110.52	102.85	103.25	103.05	7.47	7.24
<i>Glirulus dirempthus</i>	99.57	99.97	99.77	84.01	84.43	84.22	15.55	18.46
<i>Glirulus ekremi</i>	103.12	102.20	102.66	90.64	88.11	89.38	13.29	14.86
<i>Glirulus lissiensis</i>	100.24	100.08	100.16	85.25	84.62	84.94	15.23	17.93
<i>Glirulus minor</i>	95.36	94.33	94.85	76.14	75.11	75.63	19.22	25.41
<i>Glirulus pusillus</i>		101.02			86.17		14.85	17.23
<i>Glis galitopouli</i>	112.77	112.54	112.66	108.65	105.19	106.92	5.74	5.36
<i>Glis minor</i>	130.29	129.69	129.99	141.37	133.53	137.45	-7.46	-5.43
<i>Glis sackdillingensis</i>	132.18	129.11	130.65	144.89	132.56	138.73	-8.08	-5.82
<i>Glis transversus</i>		112.66			105.39		7.27	6.90
<i>Graphiurus austriacus</i>		102.43			88.50		13.93	15.74
<i>Heissigia bolligeri</i>		115.71			110.43		5.28	4.78
<i>Heteromys aff. schlosseri</i>	126.96			135.16			-8.20	-6.07
<i>Hypnomys eliomyoides</i>	146.92	146.97	146.95	172.43	162.06	167.25	-20.30	-12.14
<i>Margaritamys adroveri</i>	117.32	118.53	117.93	117.14	115.09	116.12	1.81	1.56
<i>Margaritamys illuli</i>	134.28	131.93	133.11	148.83	137.22	143.03	-9.92	-6.94
<i>Microdyromys cf. complicatus</i>		100.91			85.98		14.93	17.36
<i>Microdyromys cf. monspeliensis</i>	96.69	98.79	97.74	78.63	82.49	80.56	17.18	21.33
<i>Microdyromys complicatus</i>	105.23	105.96	105.60	94.57	94.32	94.45	11.15	11.81
<i>Microdyromys complicatus</i>	102.01	102.08	102.05	88.56	87.92	88.24	13.81	15.64
<i>Microdyromys heissigi</i>	94.25	94.09	94.17	74.07	74.72	74.40	19.78	26.58
<i>Microdyromys hildebrandti</i>	92.26	91.86	92.06	70.34	71.04	70.69	21.37	30.23
<i>Microdyromys koenigswaldi</i>	104.01	103.73	103.87	92.29	90.64	91.47	12.41	13.56
<i>Microdyromys koenigswaldi+complicatus</i>	105.90	105.61	105.76	95.81	93.74	94.78	10.98	11.59
<i>Microdyromys legidensis+</i> <i>P.murinus</i>	101.46			87.53			13.93	15.91
<i>Microdyromys misonnei</i>	100.35	98.91	99.63	85.46	82.68	84.07	15.56	18.51
<i>Microdyromys monspeliensis</i>	99.69	97.85	98.77	84.22	80.93	82.58	16.20	19.61
<i>Microdyromys monspeliensis+</i> <i>complicatus</i>		103.34		91.05			12.29	13.50
<i>Microdyromys monspeliensis+</i> <i>koenigswaldi</i>	104.01	106.08	105.05	92.29	94.52	93.41	11.64	12.46
<i>Microdyromys monspeliensis+</i> <i>P.murinus</i>	100.79			86.29			14.50	16.80
<i>Microdyromys praemurinus</i>	98.47	98.56	98.52	81.94	82.10	82.02	16.50	20.11
<i>Microdyromys praemurinus/</i> <i>miocaenicus</i>	100.35			85.46			14.89	17.42
<i>Microdyromys puntarronensis</i>	100.46	99.73	100.10	85.67	84.04	84.86	15.24	17.96
<i>Microdyromys remmerti</i>	109.67	109.01	109.34	102.85	99.37	101.11	8.23	8.14
<i>Microdyromys sinuosus</i>	111.55	116.18	113.87	106.37	111.21	108.79	5.08	4.66
<i>Miodyromys aegerci</i>	119.53			121.28			-1.75	-1.44
<i>Miodyromys aff. aegerci</i>	112.88	111.25	112.07	108.86	103.06	105.96	6.10	5.76
<i>Miodyromys aff. aegerci</i>	120.53	119.71	120.12	123.15	117.03	120.09	0.03	0.02
<i>Miodyromys biradiculus</i>	107.89	108.66	108.28	99.54	98.79	99.17	9.11	9.19
<i>Miodyromys hamadryas</i>	111.88	109.95	110.92	107.00	100.92	103.96	6.95	6.69
<i>Miodyromys lugueneyae</i>	127.96			137.02			-9.06	-6.61
<i>Miodyromys praecox</i>	110.00	110.07	110.04	103.47	101.12	102.30	7.74	7.57
<i>Miodyromys vagus</i>	113.21	111.13	112.17	109.48	102.86	106.17	6.00	5.65
<i>Moissenetia paguerensis</i>	100.91			86.49			14.42	16.67

species	equation Gliridae			equation all-rodents				dif	%
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl			
<i>Moissenetia ziegleri</i>	100.57	99.73	100.15	85.87	84.04	84.96	15.20	17.89	
<i>Muscardinus austriacus</i>	107.56	113.60	110.58	98.92	106.94	102.93	7.65	7.43	
<i>Muscardinus cyclopeus</i>	147.37			173.26			-25.89	-14.94	
<i>Muscardinus heintzi</i>	115.54	120.18	117.86	113.83	117.81	115.82	2.04	1.76	
<i>Muscardinus hispanicus</i>	106.12	109.72	107.92	96.23	100.54	98.39	9.54	9.69	
<i>Muscardinus meridionalis</i>	116.43	121.23	118.83	115.49	119.56	117.53	1.31	1.11	
<i>Muscardinus pliocaemicus</i>	110.11			103.68			6.43	6.20	
<i>Muscardinus thaleri</i>	105.78			95.61			10.17	10.64	
<i>Muscardinus topachevskii</i>		109.60			100.34		9.26	9.23	
<i>Muscardinus vallesiensis</i>	117.87	125.93	121.90	118.18	127.32	122.75	-0.85	-0.69	
<i>Myoglis antecedens</i>		130.75			135.28		-4.53	-3.35	
<i>Myoglis cf. ucrainicus</i>	143.49	146.73	145.11	166.01	161.67	163.84	-18.73	-11.43	
<i>Myoglis meini</i>	137.72	141.21	139.47	155.24	152.55	153.90	-14.43	-9.38	
<i>Myoglis truyolsi</i>		120.41			118.20		2.21	1.87	
<i>Myoglis ucrainicus</i>	133.29	134.16	133.73	146.96	140.90	143.93	-10.21	-7.09	
<i>Myomimus aff. maritsensis</i>		115.01			109.27		5.74	5.25	
<i>Myomimus dehmi</i>	102.79	102.67	102.73	90.01	88.89	89.45	13.28	14.85	
<i>Myomimus maritsensis</i>	104.79	106.31	105.55	93.74	94.91	94.33	11.23	11.90	
<i>Myomimus qafzensis</i>	111.11	113.60	112.36	105.55	106.94	106.25	6.11	5.75	
<i>Myomimus roachi</i>	111.00	114.54	112.77	105.34	108.49	106.92	5.86	5.48	
<i>Oligodyromys aff. attenuatus</i>	110.22	109.01	109.62	103.89	99.37	101.63	7.99	7.86	
<i>Oligodyromys attenuatus</i>	105.90	105.14	105.52	95.81	92.97	94.39	11.13	11.79	
<i>Oligodyromys bahloii</i>	103.34	101.61	102.48	91.05	87.14	89.10	13.38	15.02	
<i>Oligodyromys cf. parvus</i>		105.14			92.97		12.17	13.09	
<i>Oligodyromys libanicus</i>	116.65	116.65	116.65	115.90	111.99	113.95	2.71	2.37	
<i>Oligodyromys parvus</i>	107.34	107.13	107.24	98.50	96.27	97.39	9.85	10.11	
<i>Oligodyromys planus</i>	110.11	110.31	110.21	103.68	101.51	102.60	7.62	7.42	
<i>Oligodyromys sjeni</i>	120.53	119.71	120.12	123.15	117.03	120.09	0.03	0.02	
<i>Paraglirulus aff. werenfelsi</i>	109.55	109.13	109.34	102.65	99.56	101.11	8.24	8.14	
<i>Paraglirulus cf. werenfelsi</i>	106.23	106.19	106.21	96.43	94.71	95.57	10.64	11.13	
<i>Paraglirulus werenfelsi</i>	114.10	113.48	113.79	111.14	106.75	108.95	4.85	4.45	
<i>Paraglis aff. fugax</i>	114.32	116.30	115.31	111.55	111.40	111.48	3.84	3.44	
<i>Paraglis aff. infralactorensis</i>	118.20	121.00	119.60	118.80	119.17	118.99	0.61	0.52	
<i>Paraglis complicatus</i>	118.98	117.71	118.35	120.25	113.73	116.99	1.35	1.16	
<i>Paraglis fugax</i>	115.88	116.65	116.27	114.45	111.99	113.22	3.05	2.69	
<i>Paraglis ingens</i>	115.99	115.83	115.91	114.66	110.63	112.65	3.27	2.90	
<i>Peridyromys aff. murinus</i>	100.79	101.14	100.97	86.29	86.37	86.33	14.64	16.95	
<i>Peridyromys aquatilis</i>	102.13	102.79	102.46	88.77	89.08	88.93	13.54	15.22	
<i>Peridyromys brailloni</i>	120.31	118.77	119.54	122.73	115.48	119.11	0.43	0.37	
<i>Peridyromys columbarii</i>		105.14			92.97		12.17	13.09	
<i>Peridyromys jaegeri</i>	104.90	105.96	105.43	93.95	94.32	94.14	11.30	12.00	
<i>Peridyromys lavocati</i>	105.67	105.37	105.52	95.40	93.35	94.38	11.15	11.81	
<i>Peridyromys murinus</i>	101.13	102.20	101.67	86.91	88.11	87.51	14.16	16.18	
<i>Peridyromys nombrevillae</i>	102.46	102.67	102.57	89.39	88.89	89.14	13.43	15.06	
<i>Peridyromys obtusangulus</i>	105.90	106.31	106.11	95.81	94.91	95.36	10.75	11.27	
<i>Peridyromys obtusangulus+</i> <i>murinus</i>		102.90			89.28		13.62	15.26	
<i>Peridyromys occitanus</i>	105.90	106.66	106.28	95.81	95.49	95.65	10.63	11.11	
<i>Peridyromys ordinasi</i>	105.01	104.31	104.66	94.16	91.61	92.89	11.78	12.68	
<i>Peridyromys prosper</i>		112.30			104.80		7.50	7.16	

species	equation Gliridae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Peridyromys turbatus</i>	108.67	105.84	107.26	100.99	94.13	97.56	9.69	9.94
<i>Plesiodyromys toriformis</i>	105.56	105.49	105.53	95.19	93.55	94.37	11.16	11.82
<i>Praearmantomys crusafonti</i>	127.85	129.34	128.60	136.81	132.95	134.88	-6.29	-4.66
<i>Prodryomys brailloni</i>	113.77	114.30	114.04	110.52	108.10	109.31	4.72	4.32
<i>Prodryomys gregarius</i>	122.53	123.70	123.12	126.87	123.63	125.25	-2.13	-1.70
<i>Prodryomys satus</i>	109.22	109.48	109.35	102.03	100.15	101.09	8.26	8.17
<i>Pseudodryomys granatensis</i>	124.19	123.94	124.07	129.98	124.02	127.00	-2.94	-2.31
<i>Pseudodryomys ibericus</i>	116.32	116.89	116.61	115.28	112.37	113.83	2.78	2.44
<i>Pseudodryomys ibericus-simplicidens</i>	113.10	109.48	111.29	109.27	100.15	104.71	6.58	6.28
<i>Pseudodryomys rex</i>	126.41			134.12			-7.71	-5.75
<i>Ramys aff. multicrestatus</i>	116.76			116.11			0.65	0.56
<i>Ramys multicrestatus</i>	107.89	106.66	107.28	99.54	95.49	97.52	9.76	10.01
<i>Ramys perezi</i>	117.21	116.42	116.82	116.93	111.60	114.27	2.55	2.23
<i>Seorsumuscardinus alpinus</i>	112.33	114.89	113.61	107.82	109.07	108.45	5.17	4.76
<i>Simplomys aff. aljaphi</i>		101.26			86.56		14.70	16.98
<i>Simplomys aff. simplicidens</i>		105.25			93.16		12.09	12.98
<i>Simplomys aljaphi</i>		110.66			102.09		8.57	8.39
<i>Simplomys cf. simplicidens</i>	113.55	115.59	114.57	110.10	110.24	110.17	4.40	3.99
<i>Simplomys meulenorum</i>	116.76	115.95	116.36	116.11	110.82	113.47	2.89	2.55
<i>Simplomys robustus</i>	117.76	121.12	119.44	117.97	119.36	118.67	0.78	0.65
<i>Simplomys simplicidens</i>	109.55	111.25	110.40	102.65	103.06	102.86	7.55	7.34
<i>Stertomys aff. daamsi</i>	140.05	137.33	138.69	159.59	146.14	152.87	-14.18	-9.27
<i>Stertomys aff. degiulii</i>	128.30	127.11	127.71	137.64	129.26	133.45	-5.74	-4.30
<i>Stertomys cf. daamsi</i>	137.94	136.04	136.99	155.66	144.01	149.84	-12.85	-8.57
<i>Stertomys cf. degiulii</i>	125.52	126.87	126.20	132.47	128.87	130.67	-4.48	-3.42
<i>Stertomys daamsi</i>	148.48	144.73	146.61	175.33	158.37	166.85	-20.25	-12.13
<i>Stertomys daunius</i>	207.03	203.13	205.08	284.67	254.83	269.75	-64.67	-23.97
<i>Stertomys degiulii</i>	124.52	122.76	123.64	130.60	122.08	126.34	-2.70	-2.14
<i>Stertomys laticrestatus</i>	233.31	230.63	231.97	333.75	300.24	317.00	-85.03	-26.82
<i>Stertomys lyrifer</i>	157.02	155.07	156.05	191.28	175.45	183.37	-27.32	-14.90
<i>Stertomys simplex</i>	149.25	144.73	146.99	176.78	158.37	167.58	-20.59	-12.28
<i>Suevoglis wannemacheri</i>	126.85	127.23	127.04	134.95	129.45	132.20	-5.16	-3.90
<i>Tempestia hartenbergeri</i>	116.32	115.24	115.78	115.28	109.66	112.47	3.31	2.94
<i>Vasseuromys aff. duplex</i>	106.78	105.72	106.25	97.47	93.94	95.71	10.55	11.02
<i>Vasseuromys aff. elegans</i>	100.91	100.91	100.91	86.49	85.98	86.24	14.68	17.02
<i>Vasseuromys aff. priscus</i>	106.67	106.19	106.43	97.26	94.71	95.99	10.45	10.88
<i>Vasseuromys autolensis</i>	108.78	108.54	108.66	101.20	98.59	99.90	8.76	8.77
<i>Vasseuromys bacchius</i>	134.06	129.46	131.76	148.41	133.14	140.78	-9.01	-6.40
<i>Vasseuromys cristinae</i>	112.55	112.77	112.66	108.24	105.58	106.91	5.75	5.38
<i>Vasseuromys duplex</i>	106.89	106.55	106.72	97.68	95.30	96.49	10.23	10.60
<i>Vasseuromys elegans</i>	101.35	101.38	101.37	87.32	86.76	87.04	14.33	16.46
<i>Vasseuromys pannonicus</i>	110.33	110.42	110.38	104.10	101.70	102.90	7.47	7.26
<i>Vasseuromys priscus</i>	108.33	108.54	108.44	100.37	98.59	99.48	8.96	9.00
<i>Vasseuromys ramblensis</i>	119.65	122.64	121.15	121.49	121.88	121.69	-0.54	-0.44
<i>Vasseuromys rugosus</i>	111.99	113.71	112.85	107.20	107.13	107.17	5.69	5.30

### Appendix 4a Eomyidae (Geomyoidea equation)

species	equation Geomyoidea			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Apeomys turkheimae</i>	105.44	96.91	101.18	105.34	98.79	102.07	-0.89	-0.87
<i>Eomyodon aff. mayoi</i>	88.27	82.06	85.17	83.60	78.60	81.10	4.07	5.01
<i>Eomyodon mayoi</i>	85.98	82.49	84.24	80.70	79.19	79.95	4.29	5.37
<i>Eomyodon pusillus</i>	101.19			99.95			1.24	1.24
<i>Eomyodon staudachensis</i>	95.46			92.71			2.75	2.97
<i>Eomyodon volkeri</i>	92.52	85.92	89.22	88.98	83.84	86.41	2.81	3.25
<i>Eomyodon weidmanni</i>	106.09	95.91	101.00	106.17	97.43	101.80	-0.80	-0.79
<i>Eomyops aff. catalaunicus</i>	89.41	85.63	87.52	85.04	83.46	84.25	3.27	3.88
<i>Eomyops aff. oppligeri</i>		81.92			78.41		3.51	4.48
<i>Eomyops catalaunicus</i>	90.89	86.49	88.69	86.91	84.62	85.77	2.93	3.41
<i>Eomyops noeliae</i>	96.45	92.20	94.33	93.95	92.38	93.17	1.16	1.25
<i>Eomyops oppligeri</i>	86.14	82.64	84.39	80.90	79.38	80.14	4.25	5.30
<i>Eomys + Pseudotheridomys</i>	103.31	95.48	99.40	102.65	96.85	99.75	-0.35	-0.36
<i>Eomys aff. antiquus</i>	94.16	88.49	91.33	91.05	87.34	89.20	2.13	2.39
<i>Eomys aff. ebnatensis</i>	111.65			113.21			-1.56	-1.38
<i>Eomys aff. huerzeleri</i>		111.90			119.17		-7.27	-6.10
<i>Eomys aff. zitteli</i>	102.01	94.49	98.25	100.99	95.49	98.24	0.01	0.01
<i>Eomys aff. zitteli+aff. major</i>	106.26	100.91	103.59	106.37	104.22	105.30	-1.71	-1.62
<i>Eomys aulghensis</i>	107.40	99.63	103.52	107.82	102.48	105.15	-1.64	-1.55
<i>Eomys antiquus</i>	92.85	87.92	90.39	89.39	86.56	87.98	2.41	2.74
<i>Eomys cf. huerzeleri</i>		106.34			111.60		-5.26	-4.71
<i>Eomys cf. major</i>	124.08	109.48	116.78	128.95	115.87	122.41	-5.63	-4.60
<i>Eomys cf. zitteli</i>	104.46			104.10			0.36	0.35
<i>Eomys ebnatensis</i>	107.08	97.77	102.43	107.41	99.95	103.68	-1.26	-1.21
<i>Eomys fahlbuschi</i>	109.04			109.89			-0.85	-0.77
<i>Eomys gigas</i>	129.15	117.33	123.24	135.37	126.54	130.96	-7.72	-5.89
<i>Eomys huerzeleri</i>	120.00	111.62	115.81	123.77	118.78	121.28	-5.47	-4.51
<i>Eomys major</i>	118.52	108.05	113.29	121.90	113.93	117.92	-4.63	-3.93
<i>Eomys molassicus</i>	96.61	92.06	94.34	94.16	92.19	93.18	1.16	1.24
<i>Eomys quercyi</i>	113.29	104.76	109.03	115.28	109.46	112.37	-3.35	-2.98
<i>Eomys reductus</i>	109.69	101.77	105.73	110.72	105.39	108.06	-2.33	-2.15
<i>Eomys zitteli</i>	104.79	95.63	100.21	104.51	97.04	100.78	-0.56	-0.56
<i>Eomys zitteli + quercyi</i>	107.73	100.34	104.04	108.24	103.45	105.85	-1.81	-1.71
<i>Keramidomys aff. pertesunatoi</i>	82.71	83.35	83.03	76.55	80.35	78.45	4.58	5.84
<i>Keramidomys carpathicus</i>	80.91	83.35	82.13	74.28	80.35	77.32	4.82	6.23
<i>Keramidomys cf. carpathicus</i>		74.78			68.71		6.07	8.83
<i>Keramidomys cf. mohleri</i>	81.56			75.10			6.46	8.60
<i>Keramidomys ermannorum</i>	82.54	81.21	81.88	76.35	77.44	76.90	4.98	6.48
<i>Keramidomys mohleri</i>	85.32	84.63	84.98	79.87	82.10	80.99	3.99	4.93
<i>Keramidomys octaviae</i>	80.26	78.35	79.31	73.45	73.56	73.51	5.80	7.89
<i>Keramidomys pertesunatoi</i>	80.09	83.06	81.58	73.24	79.96	76.60	4.98	6.49
<i>Keramidomys thaleri</i>	79.76	78.21	78.99	72.83	73.36	73.10	5.89	8.06
<i>Leptodontomys catalaunicus</i>	91.05	86.63	88.84	87.12	84.81	85.97	2.88	3.34
<i>Ligerimys aff. magnus</i>	115.91	106.76	111.34	118.59	112.18	115.39	-4.05	-3.51
<i>Ligerimys antiquus</i>	102.50	96.63	99.57	101.61	98.40	100.01	-0.44	-0.44
<i>Ligerimys ellipticus</i>	100.70	97.48	99.09	99.33	99.56	99.45	-0.35	-0.36
<i>Ligerimys fahlbuschi</i>	111.65	103.48	107.57	113.21	107.72	110.47	-2.90	-2.63
<i>Ligerimys florancei</i>	107.40	101.62	104.51	107.82	105.19	106.51	-1.99	-1.87
<i>Ligerimys freudenthalii</i>	104.62			104.30			0.32	0.31

species	equation Geomyioidea			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Ligerimys lophidens</i>	108.22	104.05	106.14	108.86	108.49	108.68	-2.54	-2.34
<i>Ligerimys magnus</i>	122.61	112.90	117.76	127.08	120.53	123.81	-6.05	-4.89
<i>Ligerimys oberlii</i>	97.92	88.06	92.99	95.81	86.76	91.29	1.71	1.87
<i>Ligerimys palomae</i>	100.70	93.77	97.24	99.33	94.52	96.93	0.31	0.32
<i>Pseudotheridomys</i> aff. <i>bernensis</i>	94.97			92.09			2.88	3.13
<i>Pseudotheridomys</i> aff. <i>lacombai</i>	101.02	93.63	97.33	99.75	94.32	97.04	0.29	0.30
<i>Pseudotheridomys</i> aff. <i>parvulus</i>	109.20	98.20	103.70	110.10	100.54	105.32	-1.62	-1.54
<i>Pseudotheridomys</i> aff. <i>schaubi</i>	89.74	84.92	87.33	85.46	82.49	83.98	3.36	4.00
<i>Pseudotheridomys</i> aff. <i>schaubi/parvulus</i>	89.90	85.78	87.84	85.67	83.65	84.66	3.18	3.76
<i>Pseudotheridomys bernensis</i>	93.83	87.92	90.88	90.64	86.56	88.60	2.28	2.57
<i>Pseudotheridomys bouziguensis</i>	102.50	94.91	98.71	101.61	96.07	98.84	-0.14	-0.14
<i>Pseudotheridomys carpathicus</i>	76.33	75.78	76.06	68.48	70.06	69.27	6.79	9.80
<i>Pseudotheridomys</i> cf. <i>parvulus</i>	98.24			96.23			2.01	2.09
<i>Pseudotheridomys fejafari</i>		106.48			111.79		-5.31	-4.75
<i>Pseudotheridomys lacombai</i>	98.08			96.02			2.06	2.15
<i>Pseudotheridomys Ligerimys</i> trans. A	105.28	97.48	101.38	105.13	99.56	102.35	-0.97	-0.94
<i>Pseudotheridomys Ligerimys</i> trans. A+B	104.95	97.20	101.08	104.72	99.18	101.95	-0.88	-0.86
<i>Pseudotheridomys Ligerimys</i> trans. B	104.95	97.06	101.01	104.72	98.98	101.85	-0.84	-0.83
<i>Pseudotheridomys parvulus</i>	96.94	88.63	92.79	94.57	87.53	91.05	1.74	1.91
<i>Pseudotheridomys pusillus</i>	94.48			91.46			3.02	3.30
<i>Pseudotheridomys rolfoi</i>	106.26	98.34	102.30	106.37	100.73	103.55	-1.25	-1.21
<i>Pseudotheridomys schaubi</i>	99.06	89.92	94.49	97.26	89.28	93.27	1.22	1.31
<i>Pseudotheridomys werneri</i>	90.89	84.63	87.76	86.91	82.10	84.51	3.26	3.85
<i>Rhodanomys</i> aff. <i>hugueneyae</i>	111.33	104.48	107.91	112.79	109.07	110.93	-3.03	-2.73
<i>Rhodanomys</i> cf. <i>oscensis</i>	100.70	95.77	98.24	99.33	97.24	98.29	-0.05	-0.05
<i>Rhodanomys hugueneyae</i>	106.42	101.20	103.81	106.58	104.61	105.60	-1.79	-1.69
<i>Rhodanomys oscensis</i>	96.45	94.49	95.47	93.95	95.49	94.72	0.75	0.79
<i>Rhodanomys schlosseri</i>	94.48	92.34	93.41	91.46	92.58	92.02	1.39	1.51
<i>Rhodanomys transiens</i>	102.99	97.91	100.45	102.23	100.15	101.19	-0.74	-0.73
<i>Rhodanomys transiens/latens</i>	104.13	98.63	101.38	103.68	101.12	102.40	-1.02	-1.00
<i>Ritteneria</i> aff. <i>molinae</i>	93.34	85.63	89.49	90.01	83.46	86.74	2.75	3.17
<i>Ritteneria manca</i>	92.52	89.92	91.22	88.98	89.28	89.13	2.09	2.34
<i>Ritteneria molinae</i>	93.67	91.20	92.44	90.43	91.03	90.73	1.71	1.88

#### Appendix 4b Eomyidae (Heteromyidae equation)

species	equation Heteromyidae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Apeomys turkeimae</i>	106.71	96.91	101.81	105.34	98.79	102.07	-0.25	-0.25
<i>Eomyodon</i> aff. <i>mayoi</i>	81.47	82.06	81.77	83.60	78.60	81.10	0.67	0.82
<i>Eomyodon mayoi</i>	78.10	82.49	80.30	80.70	79.19	79.95	0.35	0.44
<i>Eomyodon pusillus</i>	100.46			99.95			0.51	0.51
<i>Eomyodon staudachensis</i>	92.05			92.71			-0.66	-0.71
<i>Eomyodon volkeri</i>	87.72	85.92	86.82	88.98	83.84	86.41	0.41	0.47
<i>Eomyodon weidmanni</i>	107.67	95.91	101.79	106.17	97.43	101.80	-0.01	-0.01
<i>Eomyops</i> aff. <i>catalaunicus</i>	83.15	85.63	84.39	85.04	83.46	84.25	0.14	0.17

species	equation Heteromyidae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Eomysops aff. opplicer</i>		81.92			78.41		3.51	4.48
<i>Eomysops catalaunicus</i>	85.32	86.49	85.91	86.91	84.62	85.77	0.14	0.16
<i>Eomysops noeliae</i>	93.49	92.20	92.85	93.95	92.38	93.17	-0.32	-0.34
<i>Eomysops opplicer</i>	78.34	82.64	80.49	80.90	79.38	80.14	0.35	0.44
<i>Eomys + Pseudotheridomys</i>	103.58	95.48	99.53	102.65	96.85	99.75	-0.22	-0.22
<i>Eomys aff. antiquus</i>	90.12	88.49	89.31	91.05	87.34	89.20	0.11	0.12
<i>Eomys aff. ebnatensis</i>	115.84			113.21			2.63	2.32
<i>Eomys aff. huerzeleri</i>		111.90			119.17		-7.27	-6.10
<i>Eomys aff. zitteli</i>	101.66	94.49	98.08	100.99	95.49	98.24	-0.17	-0.17
<i>Eomys aff. zitteli+aff. major</i>	107.91	100.91	104.41	106.37	104.22	105.30	-0.89	-0.84
<i>Eomys alulghensis</i>	109.59	99.63	104.61	107.82	102.48	105.15	-0.54	-0.51
<i>Eomys antiquus</i>	88.20	87.92	88.06	89.39	86.56	87.98	0.09	0.10
<i>Eomys cf. huerzeleri</i>		106.34			111.60		-5.26	-4.71
<i>Eomys cf. major</i>	134.11	109.48	121.80	128.95	115.87	122.41	-0.61	-0.50
<i>Eomys cf. zitteli</i>	105.27			104.10			1.17	1.12
<i>Eomys ebnatensis</i>	109.11	97.77	103.44	107.41	99.95	103.68	-0.24	-0.23
<i>Eomys fahlbuschi</i>	112.00			109.89			2.11	1.92
<i>Eomys gigas</i>	141.57	117.33	129.45	135.37	126.54	130.96	-1.51	-1.15
<i>Eomys huerzeleri</i>	128.10	111.62	119.86	123.77	118.78	121.28	-1.42	-1.17
<i>Eomys major</i>	125.94	108.05	117.00	121.90	113.93	117.92	-0.92	-0.78
<i>Eomys molassicus</i>	93.73	92.06	92.90	94.16	92.19	93.18	-0.28	-0.30
<i>Eomys quercyi</i>	118.25	104.76	111.51	115.28	109.46	112.37	-0.87	-0.77
<i>Eomys reductus</i>	112.96	101.77	107.37	110.72	105.39	108.06	-0.69	-0.64
<i>Eomys zitteli</i>	105.75	95.63	100.69	104.51	97.04	100.78	-0.09	-0.08
<i>Eomys zitteli + quercyi</i>	110.08	100.34	105.21	108.24	103.45	105.85	-0.63	-0.60
<i>Keramidomys aff. pertesunatoi</i>	73.30	83.35	78.33	76.55	80.35	78.45	-0.13	-0.16
<i>Keramidomys carpathicus</i>	70.65	83.35	77.00	74.28	80.35	77.32	-0.31	-0.41
<i>Keramidomys cf. carpathicus</i>		74.78			68.71		6.07	8.83
<i>Keramidomys cf. mohleri</i>	71.61			75.10			-3.49	-4.65
<i>Keramidomys ermannorum</i>	73.06	81.21	77.14	76.35	77.44	76.90	0.24	0.31
<i>Keramidomys mohleri</i>	77.14	84.63	80.89	79.87	82.10	80.99	-0.10	-0.12
<i>Keramidomys octaviae</i>	69.69	78.35	74.02	73.45	73.56	73.51	0.52	0.70
<i>Keramidomys pertesunatoi</i>	69.45	83.06	76.26	73.24	79.96	76.60	-0.34	-0.45
<i>Keramidomys thaleri</i>	68.97	78.21	73.59	72.83	73.36	73.10	0.50	0.68
<i>Leptodontomys catalaunicus</i>	85.56	86.63	86.10	87.12	84.81	85.97	0.13	0.15
<i>Ligerimys aff. magnus</i>	122.09	106.76	114.43	118.59	112.18	115.39	-0.96	-0.83
<i>Ligerimys antiquus</i>	102.38	96.63	99.51	101.61	98.40	100.01	-0.50	-0.50
<i>Ligerimys ellipticus</i>	99.74	97.48	98.61	99.33	99.56	99.45	-0.83	-0.84
<i>Ligerimys fahlbuschi</i>	115.84	103.48	109.66	113.21	107.72	110.47	-0.81	-0.73
<i>Ligerimys florancei</i>	109.59	101.62	105.61	107.82	105.19	106.51	-0.90	-0.85
<i>Ligerimys freudenthalii</i>	105.51			104.30			1.21	1.16
<i>Ligerimys lophidens</i>	110.80	104.05	107.43	108.86	108.49	108.68	-1.25	-1.15
<i>Ligerimys magnus</i>	131.95	112.90	122.43	127.08	120.53	123.81	-1.38	-1.11
<i>Ligerimys oberthii</i>	95.65	88.06	91.86	95.81	86.76	91.29	0.57	0.62
<i>Ligerimys palomae</i>	99.74	93.77	96.76	99.33	94.52	96.93	-0.17	-0.18
<i>Pseudotheridomys aff. bernensis</i>	91.32			92.09			-0.77	-0.84
<i>Pseudotheridomys aff. lacombai</i>	100.22	93.63	96.93	99.75	94.32	97.04	-0.11	-0.11
<i>Pseudotheridomys aff. parvulus</i>	112.24	98.20	105.22	110.10	100.54	105.32	-0.10	-0.09
<i>Pseudotheridomys aff. schaubi</i>	83.63	84.92	84.28	85.46	82.49	83.98	0.30	0.36

species	equation Heteromyidae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Pseudotheridomys</i> aff. <i>schaubi/parvulus</i>	83.87	85.78	84.83	85.67	83.65	84.66	0.17	0.19
<i>Pseudotheridomys bernensis</i>	89.64	87.92	88.78	90.64	86.56	88.60	0.18	0.20
<i>Pseudotheridomys bouguerensis</i>	102.38	94.91	98.65	101.61	96.07	98.84	-0.20	-0.20
<i>Pseudotheridomys carpathicus</i>	63.92	75.78	69.85	68.48	70.06	69.27	0.58	0.84
<i>Pseudotheridomys</i> cf. <i>parvulus</i>	96.13			96.23			-0.10	-0.10
<i>Pseudotheridomys feffari</i>		106.48			111.79		-5.31	-4.75
<i>Pseudotheridomys lacombai</i>	95.89			96.02			-0.13	-0.14
<i>Pseudotheridomys Ligerimys</i> trans. A	106.47	97.48	101.98	105.13	99.56	102.35	-0.37	-0.36
<i>Pseudotheridomys Ligerimys</i> trans. A+B	105.99	97.20	101.60	104.72	99.18	101.95	-0.36	-0.35
<i>Pseudotheridomys Ligerimys</i> trans. B	105.99	97.06	101.53	104.72	98.98	101.85	-0.32	-0.32
<i>Pseudotheridomys parvulus</i>	94.21	88.63	91.42	94.57	87.53	91.05	0.37	0.41
<i>Pseudotheridomys pusillus</i>	90.60			91.46			-0.86	-0.94
<i>Pseudotheridomys rolfoi</i>	107.91	98.34	103.13	106.37	100.73	103.55	-0.43	-0.41
<i>Pseudotheridomys schaubi</i>	97.33	89.92	93.63	97.26	89.28	93.27	0.35	0.38
<i>Pseudotheridomys werneri</i>	85.32	84.63	84.98	86.91	82.10	84.51	0.47	0.56
<i>Rhodomys</i> aff. <i>hugueneyae</i>	115.36	104.48	109.92	112.79	109.07	110.93	-1.01	-0.91
<i>Rhodomys</i> cf. <i>oscensis</i>	99.74	95.77	97.76	99.33	97.24	98.29	-0.53	-0.54
<i>Rhodomys hugueneyae</i>	108.15	101.20	104.68	106.58	104.61	105.60	-0.92	-0.87
<i>Rhodomys oscensis</i>	93.49	94.49	93.99	93.95	95.49	94.72	-0.73	-0.77
<i>Rhodomys schlosseri</i>	90.60	92.34	91.47	91.46	92.58	92.02	-0.55	-0.60
<i>Rhodomys transiens</i>	103.10	97.91	100.51	102.23	100.15	101.19	-0.69	-0.68
<i>Rhodomys transiens/latens</i>	104.79	98.63	101.71	103.68	101.12	102.40	-0.69	-0.67
<i>Ritteneria</i> aff. <i>molinae</i>	88.92	85.63	87.28	90.01	83.46	86.74	0.54	0.62
<i>Ritteneria manca</i>	87.72	89.92	88.82	88.98	89.28	89.13	-0.31	-0.35
<i>Ritteneria molinae</i>	89.40	91.20	90.30	90.43	91.03	90.73	-0.43	-0.47

### Appendix 5 Sciuridae

species	equation Sciuridae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Albanensis albanensis</i>	338.71	334.84	336.78	310.97	301.21	306.09	30.68	10.02
<i>Albanensis grimmii</i>	357.07	345.45	351.26	326.50	309.95	318.23	33.04	10.38
<i>Albanensis sansaniensis</i>	273.35	256.81	265.08	255.68	236.97	246.33	18.76	7.61
<i>Allomys ernii</i>	224.15	225.93	225.04	214.06	211.55	212.81	12.24	5.75
<i>Aragoxerus ignis</i>	95.14			104.92			-9.78	-9.32
<i>Atlantoxerus adroveri</i>	237.61	213.20	225.41	225.44	201.07	213.26	12.15	5.70
<i>Atlantoxerus blacki</i>	219.01	191.75	205.38	209.71	183.41	196.56	8.82	4.49
<i>Atlantoxerus getulus</i>	205.06	202.36	203.71	197.90	192.14	195.02	8.69	4.46
<i>Atlantoxerus idubedensis</i>	200.65	180.67	190.66	194.18	174.29	184.24	6.42	3.49
<i>Atlantoxerus martini</i>	158.06	152.85	155.46	158.14	151.38	154.76	0.69	0.45
<i>Atlantoxerus rhodius</i>	243.24	225.93	234.59	230.21	211.55	220.88	13.71	6.20
<i>Atlantoxerus vireti</i>	158.30	146.49	152.40	158.35	146.14	152.25	0.15	0.10
<i>Blackia miocaenica</i>	126.97	117.26	122.12	131.84	122.08	126.96	-4.85	-3.82
<i>Blackia ulmensis</i>	151.20	139.89	145.55	152.35	140.71	146.53	-0.99	-0.67
<i>Eutamias orlovi</i>	137.74	141.30	139.52	140.96	141.87	141.42	-1.90	-1.34
<i>Forsythia gaudryi</i>	187.92			183.41			4.51	2.46

species	equation Sciuridae			equation all-rodents				
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl	dif	%
<i>Heteroxerus aff. rubricati</i>	156.10	137.77	146.94	156.49	138.96	147.73	-0.79	-0.53
<i>Heteroxerus cf. huerzeleri</i>	156.10	169.12	162.61	156.49	164.78	160.64	1.98	1.23
<i>Heteroxerus cf. härzeleri</i>	162.46	152.15	157.31	161.87	150.80	156.34	0.97	0.62
<i>Heteroxerus cf. paulhiacensis</i>	139.94	116.79	128.37	142.82	121.69	132.26	-3.89	-2.94
<i>Heteroxerus cf. rubricati</i>	153.89	148.61	151.25	154.62	147.89	151.26	0.00	0.00
<i>Heteroxerus costatus</i>	155.61	138.47	147.04	156.07	139.55	147.81	-0.77	-0.52
<i>Heteroxerus grivensis</i>	168.83	162.99	165.91	167.26	159.73	163.50	2.42	1.48
<i>Heteroxerus lavocati</i>	149.73	144.13	146.93	151.10	144.20	147.65	-0.72	-0.49
<i>Heteroxerus molinensis</i>	193.79	182.32	188.06	188.38	175.64	182.01	6.05	3.32
<i>Heteroxerus pauhliacensis</i>		121.03			125.18		-4.15	-3.32
<i>Heteroxerus paulhiacensis</i>	127.46	121.03	124.25	132.26	125.18	128.72	-4.47	-3.48
<i>Heteroxerus rubricati</i>	144.59	136.59	140.59	146.75	137.99	142.37	-1.78	-1.25
<i>Lagrièvea vireti</i>	262.58			246.57			16.01	6.49
<i>Miopetaurista albanensis</i>	329.41	308.20	318.81	303.10	279.28	291.19	27.62	9.48
<i>Miopetaurista crusafonti</i>		344.03			308.78		35.25	11.42
<i>Miopetaurista dehmi</i>		251.62			232.70		18.92	8.13
<i>Miopetaurista lappi</i>	339.20	313.15	326.18	311.38	283.36	297.37	28.81	9.69
<i>Miopetaurista sansaniensis</i>	264.78	260.58	262.68	248.43	240.08	244.26	18.43	7.54
<i>Miopetaurista tobieni</i>	460.86			414.30			46.56	11.24
<i>Neopetes hoeckarum</i>	171.76	164.64	168.20	169.74	161.09	165.42	2.78	1.68
<i>Palaeosciurus aff. goti</i>	146.80	130.70	138.75	148.62	133.14	140.88	-2.13	-1.51
<i>Palaeosciurus cf. fissurae</i>	229.29	205.89	217.59	218.40	195.05	206.73	10.87	5.26
<i>Palaeosciurus feignouxi</i>	204.08	187.27	195.68	197.07	179.72	188.40	7.28	3.86
<i>Palaeosciurus fissurae</i>	216.56	192.22	204.39	207.64	183.80	195.72	8.67	4.43
<i>Palaeosciurus obtusidens</i>	268.70			251.74			16.96	6.74
<i>Palaeosciurus sutteri</i>	212.40	201.65	207.03	204.12	191.56	197.84	9.19	4.64
<i>Paracitellus cingulatus</i>	391.59	357.70	374.65	355.70	320.04	337.87	36.78	10.88
<i>Paracitellus eminens</i>	335.77	290.05	312.91	308.48	264.34	286.41	26.50	9.25
<i>Paracitellus marmoreus</i>	200.65	173.13	186.89	194.18	168.08	181.13	5.76	3.18
<i>Pliopetaurista bressana</i>		167.47			163.42		4.05	2.48
<i>Pliopetaurista dehneli</i>	258.91	238.66	248.79	243.46	222.03	232.75	16.04	6.89
<i>Pliopetaurista kollmanni</i>	159.77			159.59			0.18	0.11
<i>Pliopetaurista plioacaenica</i>	299.79			278.04			21.75	7.82
<i>Pliopetaurista schaubi</i>	271.15			253.81			17.34	6.83
<i>Pliopetes cf. hungaricus</i>	158.55			158.56			-0.01	-0.01
<i>Sciurodon cadurcensis</i>	207.75	201.65	204.70	200.18	191.56	195.87	8.83	4.51
<i>Sciurus bredai</i>	161.48	159.69	160.59	161.04	157.01	159.03	1.56	0.98
<i>Sciurus vulgaris</i>	215.83	208.72	212.28	207.01	197.38	202.20	10.08	4.99
<i>Sciurus warthae</i>	234.43	249.74	242.09	222.75	231.15	226.95	15.14	6.67
<i>Spermophilinus besana</i>	155.36	153.56	154.46	155.87	151.97	153.92	0.54	0.35
<i>Spermophilinus besana/bredai</i>	170.29	171.95	171.12	168.50	167.10	167.80	3.32	1.98
<i>Spermophilinus bredai</i>	176.66	168.88	172.77	173.88	164.58	169.23	3.54	2.09
<i>Spermophilinus bredai-turolensis</i>	195.75	187.27	191.51	190.03	179.72	184.88	6.63	3.59
<i>Spermophilinus cf. bredai</i>	196.49			190.66			5.83	3.06
<i>Spermophilinus giganteus</i>	254.26			239.53			14.73	6.15
<i>Spermophilinus turolensis</i>	203.10	200.24	201.67	196.25	190.39	193.32	8.35	4.32

### Appendix 6 Dipodidae

species	equation Dipodidae			equation all-rodents				dif	%
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl			
<i>Eozapus intermedius</i>	70.58			80.70				-10.12	-12.54
<i>Plesiosminthus aff. schaubi</i>	76.06			86.91				-10.85	-12.48
<i>Plesiosminthus asiaticus</i>	76.43	78.83	77.63	87.32	97.82	92.57	-14.94	-16.14	
<i>Plesiosminthus barsboldi</i>	81.36	77.08	79.22	92.91	96.27	94.59	-15.37	-16.25	
<i>Plesiosminthus conjunctus</i>	73.50			84.01				-10.51	-12.51
<i>Plesiosminthus moralesi</i>	64.38			73.66				-9.28	-12.60
<i>Plesiosminthus myarion</i>	70.58	71.16	70.87	80.70	91.03	85.87	-15.00	-17.46	
<i>Plesiosminthus promyarion</i>	71.68	70.73	71.21	81.94	90.64	86.29	-15.09	-17.48	
<i>Plesiosminthus schaubi</i>	71.50	72.26	71.88	81.73	92.00	86.87	-14.99	-17.25	
<i>Plesiosminthus winistorferi</i>	85.01			97.06				-12.05	-12.42
<i>Plesiosminthus xiningensis</i>		86.28			104.42			-18.14	-17.37
<i>Protozapus intermedius</i>	68.21	64.81	66.51	78.00	85.40	81.70	-15.19	-18.59	
<i>Sminthozapus janossyi</i>	70.77	73.79	72.28	80.90	93.35	87.13	-14.85	-17.04	

### Appendix 7 Arvicolidae

species	equation Arvicolidae			equation all-rodents				dif	%
	infhbl	suphbl	meanhbl	infhbl	suphbl	meanhbl			
<i>Arvicola jacobaeus</i>	141.13	133.92	137.53	178.44	170.79	174.62	-37.09	-21.24	
<i>Bjornkurtenia canterraneensis</i>		79.21			110.24		-31.03	-28.15	
<i>Microtodon aff. komanensis</i>	95.25	87.27	91.26	123.77	119.17	121.47	-30.21	-24.87	
<i>Microtodon komanensis</i>	98.73	94.29	96.51	127.91	126.93	127.42	-30.91	-24.26	
<i>Mimomys aff. davakosi</i>	111.59			143.23			-31.64	-22.09	
<i>Mimomys aff. rex</i>	161.98	149.87	155.93	203.29	188.45	195.87	-39.95	-20.39	
<i>Mimomys cf. pusillus</i>	95.77			124.39			-28.62	-23.01	
<i>Mimomys gracilis</i>	96.12			124.80			-28.68	-22.98	
<i>Mimomys ischus</i>	156.08	155.31	155.70	196.25	194.47	195.36	-39.67	-20.30	
<i>Mimomys medasensis</i>	128.79	126.20	127.50	163.74	162.25	163.00	-35.50	-21.78	
<i>Mimomys pliochaenicus</i>	140.26	130.41	135.34	177.40	166.91	172.16	-36.82	-21.39	
<i>Mimomys realensis</i>	115.76	114.45	115.11	148.20	149.25	148.73	-33.62	-22.61	
<i>Mimomys reidi</i>	105.85	106.04	105.95	136.40	139.93	138.17	-32.22	-23.32	
<i>Mimomys tigliensis</i>	103.25	101.13	102.19	133.29	134.50	133.90	-31.71	-23.68	
<i>Mimomys tornensis</i>	110.20	109.19	109.70	141.58	143.43	142.51	-32.81	-23.02	
<i>Myodes kretzoi</i>	87.09	85.87	86.48	114.04	117.61	115.83	-29.35	-25.34	
<i>Pliomys destinatus</i>	104.46	102.88	103.67	134.74	136.44	135.59	-31.92	-23.54	
<i>Polonomys insuliferus</i>	130.53			165.81			-35.28	-21.28	
<i>Promimomys cor</i>	112.28	110.42	111.35	144.06	144.79	144.43	-33.08	-22.90	
<i>Promimomys insuliferus</i>	110.89	95.87	103.38	142.41	128.68	135.55	-32.17	-23.73	
<i>Propliomys hungaricus</i>	102.55	99.20	100.88	132.47	132.36	132.42	-31.54	-23.82	
<i>Stachomys trilobodon</i>	103.42	99.90	101.66	133.50	133.14	133.32	-31.66	-23.75	
<i>Ungaromys dehmi</i>	80.13	78.86	79.50	105.75	109.85	107.80	-28.31	-26.26	
<i>Ungaromys weileri</i>	89.69			117.14			-27.45	-23.43	

## Appendix 8a

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
1	Monotremata	Tachyglossidae	Tachyglossus	aculeatus	30.0	53.0	ADW;BRA
2	Monotremata	Tachyglossidae	Zaglossus	attenboroughi	45.0	100.0	EDG
3	Monotremata	Tachyglossidae	Zaglossus	bartoni	60.0	100.0	EDG
4	Monotremata	Tachyglossidae	Zaglossus	bruijni	45.0	77.5	WLK
5	Monotremata	Ornithorhynchidae	Ornithorhynchus	anatinus	30.0	45.0	ARK
6	Didelphimorphia	Didelphidae	Caluromys	philander	22.4	38.5	VOL;RIH
7	Didelphimorphia	Didelphidae	Caluromys	derbianus	18.9	32.1	G12;FGC
8	Didelphimorphia	Didelphidae	Caluromys	lanatus	20.1	35.5	MSA;BR2
9	Didelphimorphia	Didelphidae	Caluromyslops	irrupta	23.5	30	PAN;ADW
10	Didelphimorphia	Didelphidae	Glironia	venusta	16.0	22.5	MSA;GAR
11	Didelphimorphia	Didelphidae	Chironectes	minimus	22.1	40.0	FGC;MSA
12	Didelphimorphia	Didelphidae	Didelphis	aurita	31.0	42.6	ADW;PAR
13	Didelphimorphia	Didelphidae	Didelphis	imperfecta			
14	Didelphimorphia	Didelphidae	Didelphis	marsupialis	26.3	64.0	ADW;ANB
15	Didelphimorphia	Didelphidae	Didelphis	pernigra	33	40.5	ANB
16	Didelphimorphia	Didelphidae	Didelphis	virginiana	31.2	56.6	A62;BR2
17	Didelphimorphia	Didelphidae	Didelphis	albiventris	21.5	46.0	ADW;ANB
18	Didelphimorphia	Didelphidae	Gracilinanus	formosus	6.8	9.0	GAR;PAN
19	Didelphimorphia	Didelphidae	Gracilinanus	emiliae	7.5	8.7	VOL
20	Didelphimorphia	Didelphidae	Gracilinanus	microtarsus	9.2	10	PAN;GRA
21	Didelphimorphia	Didelphidae	Gracilinanus	marica	9.9		PAN
22	Didelphimorphia	Didelphidae	Gracilinanus	dryas	9.5	11.0	PAN;GRA
23	Didelphimorphia	Didelphidae	Gracilinanus	aceramarcae	8.3	10.3	PAN;GRA
24	Didelphimorphia	Didelphidae	Gracilinanus	agricolai	8.2	8.9	VLJ
25	Didelphimorphia	Didelphidae	Gracilinanus	agilis	8.0	13.7	GRA;ADW
26	Didelphimorphia	Didelphidae	Gracilinanus	ignitus	10.5		GRA
27	Didelphimorphia	Didelphidae	Hyladelphys	kalinowskii	7.6	9.1	HYA
28	Didelphimorphia	Didelphidae	Lestodelphys	halli	12.5	14.4	RDT;MSA
29	Didelphimorphia	Didelphidae	Lutreolina	crassicaudata	18.0	40.0	ANB;MSA
30	Didelphimorphia	Didelphidae	Marmosa	murina	9.1	18.9	BR2;A57
31	Didelphimorphia	Didelphidae	Marmosa	xerophila	13.1		PAN
32	Didelphimorphia	Didelphidae	Marmosa	tyleriana	11.9		PAN
33	Didelphimorphia	Didelphidae	Marmosa	rubra			
34	Didelphimorphia	Didelphidae	Marmosa	quichua			
35	Didelphimorphia	Didelphidae	Marmosa	mexicana	7.8	18.1	HOM;MSA
36	Didelphimorphia	Didelphidae	Marmosa	levida	9.7	15.5	GAC;ANB
37	Didelphimorphia	Didelphidae	Marmosa	andersoni	12.4	12.5	ARK
38	Didelphimorphia	Didelphidae	Marmosa	robinsoni	10.7	20.5	FGC;GW8
39	Didelphimorphia	Didelphidae	Marmosops	handleyi	10.4	12.2	EDG
40	Didelphimorphia	Didelphidae	Marmosops	juniensis	11.9		PAN
41	Didelphimorphia	Didelphidae	Marmosops	pinheiroi	9.4	12.1	VOL
42	Didelphimorphia	Didelphidae	Marmosops	paulensis	12.6		PAN
43	Didelphimorphia	Didelphidae	Marmosops	parvidens	8.8	10.7	PAD;VOL
44	Didelphimorphia	Didelphidae	Marmosops	noctivagus	10.0	20.5	HNB;HIC
45	Didelphimorphia	Didelphidae	Marmosops	neblina	11.3	12.9	PAD
46	Didelphimorphia	Didelphidae	Marmosops	bishopi	9.0	10.9	VOT;HIC
47	Didelphimorphia	Didelphidae	Marmosops	impavidus	9.3	14.0	ANB;VOT
48	Didelphimorphia	Didelphidae	Marmosops	incanus	13.2	43	PAN;ADW
49	Didelphimorphia	Didelphidae	Marmosops	fuscatus	12.9	14.0	GW8
50	Didelphimorphia	Didelphidae	Marmosops	dorothea	11.1	15.2	ANB;PAN

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
51	Didelphimorphia	Didelphidae	Marmosops	cracens	10.5		PAN
52	Didelphimorphia	Didelphidae	Marmosops	invictus	10.6	11.5	FGC
53	Didelphimorphia	Didelphidae	Metachirus	nudicaudatus	15.0	33	PAR
54	Didelphimorphia	Didelphidae	Micoureus	demerarae	13.4	21.3	CHP;PAD
55	Didelphimorphia	Didelphidae	Micoureus	regina	14.2	23.0	PAD;PAN
56	Didelphimorphia	Didelphidae	Micoureus	paraguayanus	12	20	PAR
57	Didelphimorphia	Didelphidae	Micoureus	constantiae	11.3	19.8	BOD;ANB
58	Didelphimorphia	Didelphidae	Micoureus	alstoni	16.7	20.0	G12;FGC
59	Didelphimorphia	Didelphidae	Micoureus	phaeus	12.7	13.7	AN5;PAN
60	Didelphimorphia	Didelphidae	Monodelphis	emiliae	9.7	15.8	PAD;ANB
61	Didelphimorphia	Didelphidae	Monodelphis	osgoodi	9.4	10.0	ANB
62	Didelphimorphia	Didelphidae	Monodelphis	umbristriata	15.5		CHP
63	Didelphimorphia	Didelphidae	Monodelphis	theresa	8.6		PAN
64	Didelphimorphia	Didelphidae	Monodelphis	sorex	7.3	13.0	PAN;PAR
65	Didelphimorphia	Didelphidae	Monodelphis	scalops	13.9		PAN
66	Didelphimorphia	Didelphidae	Monodelphis	rubida	13.1		PAN
67	Didelphimorphia	Didelphidae	Monodelphis	palliolata			
68	Didelphimorphia	Didelphidae	Monodelphis	unistriata	13.7		PAN
69	Didelphimorphia	Didelphidae	Monodelphis	kunsi	7.0	10.2	PAN;VTC
70	Didelphimorphia	Didelphidae	Monodelphis	glirina			
71	Didelphimorphia	Didelphidae	Monodelphis	domestica	10.5	20	CHP
72	Didelphimorphia	Didelphidae	Monodelphis	dimidiata	10.0		PAN
73	Didelphimorphia	Didelphidae	Monodelphis	brevicaudata	11.1	21.9	VOL;A45
74	Didelphimorphia	Didelphidae	Monodelphis	americana	10.7		PAN
75	Didelphimorphia	Didelphidae	Monodelphis	adusta	7.4	12.1	FGC;PAN
76	Didelphimorphia	Didelphidae	Monodelphis	maraxina	13.4		PAN
77	Didelphimorphia	Didelphidae	Monodelphis	iheringi	9.1		PAN
78	Didelphimorphia	Didelphidae	Philander	andersoni	29.3	34.6	HIC
79	Didelphimorphia	Didelphidae	Philander	opossum	17.5	39	BR2;RIH
80	Didelphimorphia	Didelphidae	Philander	mclilhennyi	26.3	30.8	PAD
81	Didelphimorphia	Didelphidae	Philander	frenatus	26.5		PAR
82	Didelphimorphia	Didelphidae	Thylamys	pusillus	7.9	11.4	ANB;THY
83	Didelphimorphia	Didelphidae	Thylamys	venustus	8.0	13.2	ANB
84	Didelphimorphia	Didelphidae	Thylamys	tatei			
85	Didelphimorphia	Didelphidae	Thylamys	sponsorius			
86	Didelphimorphia	Didelphidae	Thylamys	velutinus	5.0	18.5	PAN;BRA
87	Didelphimorphia	Didelphidae	Thylamys	macrurus	10.1	14.7	BOD;PAR
88	Didelphimorphia	Didelphidae	Thylamys	karimii	7.8	12.9	THY
89	Didelphimorphia	Didelphidae	Thylamys	cinderella			
90	Didelphimorphia	Didelphidae	Thylamys	elegans	9.2	13.7	MSA
91	Didelphimorphia	Didelphidae	Thylamys	pallidior	7.4	10.4	ANB
92	Didelphimorphia	Didelphidae	Tlacuatzin	canescens	8.5	18.3	FGC;MSA
93	Paucituberculata	Caenolestidae	Caenolestes	caniventer	12.2	12.9	PAN;LNP
94	Paucituberculata	Caenolestidae	Caenolestes	condorensis	12.8	13.0	PAN;LNP
95	Paucituberculata	Caenolestidae	Caenolestes	convexus	10.6	13.2	PAN;LNP
96	Paucituberculata	Caenolestidae	Caenolestes	fuliginosus	9.0	13.5	BRA
97	Paucituberculata	Caenolestidae	Lestoros	inca	9	13.5	BRA
98	Paucituberculata	Caenolestidae	Rhyncholestes	raphanurus	10.0	13.0	ADW
99	Microbiotheria	Microbiotheriidae	Dromiciops	gliroides	8.3	13.0	MSA
100	Notoryctemorphia	Notoryctidae	Notoryctes	caurinus	9	18	EDG

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
101	Notoryctemorphia	Notoryctidae	Notoryctes	typhlops	9	18	ARK
102	Dasyuromorphia	Thylacinidae	Thylacinus	cynocephalus	100	130	ARK
103	Dasyuromorphia	Myrmecobiidae	Myrmecobius	fasciatus	17.5	29	ADW;ARK
104	Dasyuromorphia	Dasyuridae	Dasyurus	cristicauda	12	23	ARK
105	Dasyuromorphia	Dasyuridae	Dasykaluta	rosamondae			
106	Dasyuromorphia	Dasyuridae	Dasyuroides	byrnei	13.5	22.5	ARK;IRI
107	Dasyuromorphia	Dasyuridae	Dasyurus	spartacus	30.5	38.0	FL3
108	Dasyuromorphia	Dasyuridae	Dasyurus	albopunctatus	22.8	35.0	FL3
109	Dasyuromorphia	Dasyuridae	Dasyurus	viverrinus	28	45	ARK
110	Dasyuromorphia	Dasyuridae	Dasyurus	geoffrooi	26	46	ARK;ADW
111	Dasyuromorphia	Dasyuridae	Dasyurus	maculatus	30.2	61	TA1;MSA
112	Dasyuromorphia	Dasyuridae	Dasyurus	hallucatus	12.3	35	EOM;ADW
113	Dasyuromorphia	Dasyuridae	Myoictis	melas	16.5	24.0	WOL
114	Dasyuromorphia	Dasyuridae	Myoictis	wallacii	18.5	22.2	WOL
115	Dasyuromorphia	Dasyuridae	Neophascogale	lorentzi	16.6	22.0	FL3
116	Dasyuromorphia	Dasyuridae	Parantechinus	apicalis	14	14.5	ADW
117	Dasyuromorphia	Dasyuridae	Phascolosorex	doriae	15.2	22.6	FL3
118	Dasyuromorphia	Dasyuridae	Phascolosorex	dorsalis	11.7	17.3	FL3
119	Dasyuromorphia	Dasyuridae	Pseudantechinus	bilarni	9.6		PAN
120	Dasyuromorphia	Dasyuridae	Pseudantechinus	woolleyae			
121	Dasyuromorphia	Dasyuridae	Pseudantechinus	roryi			
122	Dasyuromorphia	Dasyuridae	Pseudantechinus	ningbing			
123	Dasyuromorphia	Dasyuridae	Pseudantechinus	macdonnellensis	10.5		TA1
124	Dasyuromorphia	Dasyuridae	Pseudantechinus	mimulus	7.6		TA1
125	Dasyuromorphia	Dasyuridae	Sarcophilus	harrisii	50.5	80	EOM;ARK
126	Dasyuromorphia	Dasyuridae	Antechinus	leo			
127	Dasyuromorphia	Dasyuridae	Antechinus	subtropicus			
128	Dasyuromorphia	Dasyuridae	Antechinus	stuartii	12.3	25	IRI;ADW
129	Dasyuromorphia	Dasyuridae	Antechinus	minimus			
130	Dasyuromorphia	Dasyuridae	Antechinus	flavipes	8.6	16.0	BR2;BRA
131	Dasyuromorphia	Dasyuridae	Antechinus	bellus	11.5		PAN
132	Dasyuromorphia	Dasyuridae	Antechinus	agilis			
133	Dasyuromorphia	Dasyuridae	Antechinus	adustus			
134	Dasyuromorphia	Dasyuridae	Antechinus	swainsonii	12.8		ADW
135	Dasyuromorphia	Dasyuridae	Antechinus	godmani			
136	Dasyuromorphia	Dasyuridae	Micromurexia	habbema	11.0		PAN
137	Dasyuromorphia	Dasyuridae	Murexechinus	melanurus	9.2	13.6	FL3
138	Dasyuromorphia	Dasyuridae	Murexia	longicaudata	13.6	28.4	FL3
139	Dasyuromorphia	Dasyuridae	Paramurexia	rothschildi	12.4	17.0	FL3
140	Dasyuromorphia	Dasyuridae	Phascomurexia	naso	10.6	14.5	FL3
141	Dasyuromorphia	Dasyuridae	Phascogale	calura	10.8		PAN
142	Dasyuromorphia	Dasyuridae	Phascogale	tapoatafa	14	27	ARK
143	Dasyuromorphia	Dasyuridae	Antechinomys	laniger	10.4		IRI
144	Dasyuromorphia	Dasyuridae	Ningaui	yvonneae	4.6	5.7	ADW
145	Dasyuromorphia	Dasyuridae	Ningaui	ridei			
146	Dasyuromorphia	Dasyuridae	Ningaui	timealeyi			
147	Dasyuromorphia	Dasyuridae	Sminthopsis	griseoventer			
148	Dasyuromorphia	Dasyuridae	Sminthopsis	virginiae	10.3	11.1	FL3
149	Dasyuromorphia	Dasyuridae	Sminthopsis	psammophila	10.5		PAN
150	Dasyuromorphia	Dasyuridae	Sminthopsis	ooldea			

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
151	Dasyuromorphia	Dasyuridae	Sminthopsis	murina	7.0	12.0	BRA
152	Dasyuromorphia	Dasyuridae	Sminthopsis	macroura	7	12	ADW
153	Dasyuromorphia	Dasyuridae	Sminthopsis	longicaudata	8	10	ADW
154	Dasyuromorphia	Dasyuridae	Sminthopsis	leucopus			
155	Dasyuromorphia	Dasyuridae	Sminthopsis	douglasi	9.5		PAN
156	Dasyuromorphia	Dasyuridae	Sminthopsis	hirtipes			
157	Dasyuromorphia	Dasyuridae	Sminthopsis	youngsoni			
158	Dasyuromorphia	Dasyuridae	Sminthopsis	fuliginosus			
159	Dasyuromorphia	Dasyuridae	Sminthopsis	dolichura			
160	Dasyuromorphia	Dasyuridae	Sminthopsis	crassicaudata	6.4	11	ADW
161	Dasyuromorphia	Dasyuridae	Sminthopsis	butleri			
162	Dasyuromorphia	Dasyuridae	Sminthopsis	boullangerensis			
163	Dasyuromorphia	Dasyuridae	Sminthopsis	bindi			
164	Dasyuromorphia	Dasyuridae	Sminthopsis	archeri	8.3	10.7	FL3
165	Dasyuromorphia	Dasyuridae	Sminthopsis	aitkeni	8.4	9.3	EDG
166	Dasyuromorphia	Dasyuridae	Sminthopsis	granulipes			
167	Dasyuromorphia	Dasyuridae	Sminthopsis	gilberti			
168	Dasyuromorphia	Dasyuridae	Planigale	gilesi			
169	Dasyuromorphia	Dasyuridae	Planigale	tenuirostris			
170	Dasyuromorphia	Dasyuridae	Planigale	novaeguineae	7.9		FL3
171	Dasyuromorphia	Dasyuridae	Planigale	ingrami	5.5	6.5	ADW
172	Dasyuromorphia	Dasyuridae	Planigale	maculata			
173	Peramelemorphia	Thylacomyidae	Macrotis	lagotis	29	55	ADW;ARK
174	Peramelemorphia	Thylacomyidae	Macrotis	leucura	32	44	ADW
175	Peramelemorphia	Chaeropodidae	Chaeropus	ecaudatus	25	50	ARK
176	Peramelemorphia	Peramelidae	Isoodon	auratus	35.5		PAN
177	Peramelemorphia	Peramelidae	Isoodon	macrourus	31.7	44.7	FL3
178	Peramelemorphia	Peramelidae	Isoodon	obesulus	30.0	43.2	BRA;BR2
179	Peramelemorphia	Peramelidae	Perameles	nasuta	16.0	41.7	BR2
180	Peramelemorphia	Peramelidae	Perameles	gunnii	20.0	42.5	BRA
181	Peramelemorphia	Peramelidae	Perameles	eremiana			
182	Peramelemorphia	Peramelidae	Perameles	bougainville	30.0		PAN
183	Peramelemorphia	Peramelidae	Peroryctes	raffrayana	27.5	37.2	FL3
184	Peramelemorphia	Peramelidae	Peroryctes	broadbenti	51.5		PAN
185	Peramelemorphia	Peramelidae	Echymipera	clara	27.0	41.0	FL3
186	Peramelemorphia	Peramelidae	Echymipera	davidi	37.6		PAN
187	Peramelemorphia	Peramelidae	Echymipera	echinista	34.9		PAN
188	Peramelemorphia	Peramelidae	Echymipera	kalubu	22.5	38	FL3
189	Peramelemorphia	Peramelidae	Echymipera	rufescens	41.0	45.3	FL3;PAN
190	Peramelemorphia	Peramelidae	Microperoryctes	longicauda	23.9	30.3	FL3
191	Peramelemorphia	Peramelidae	Microperoryctes	murina	17.4	26.5	FL3
192	Peramelemorphia	Peramelidae	Microperoryctes	papuensis	17.5	20.0	FL3
193	Peramelemorphia	Peramelidae	Rhyncholestes	prattorum			
194	Diprotodontia	Phascolarctidae	Phascolarctos	cinereus	68.7	78	ARK;EOM
195	Diprotodontia	Vombatidae	Lasiorhinus	krefftii	100.2	108.1	PAN;EDG
196	Diprotodontia	Vombatidae	Lasiorhinus	latifrons	77	94	EOM
197	Diprotodontia	Vombatidae	Vombatus	ursinus	56.5	120.0	BR2;BRA
198	Diprotodontia	Burramyidae	Burramys	parvus	10.0	13.0	ARK
199	Diprotodontia	Burramyidae	Cercartetus	nanus	6.9	9.4	MSA
200	Diprotodontia	Burramyidae	Cercartetus	caudatus	8.7	10.9	FL3

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
201	Diprotodontia	Burramyidae	Cercartetus	concinnus	8.5		IRI
202	Diprotodontia	Burramyidae	Cercartetus	lepidus			
203	Diprotodontia	Phalangeridae	Ailurops	melanotis	60		EDG
204	Diprotodontia	Phalangeridae	Ailurops	ursinus	61		ARK
205	Diprotodontia	Phalangeridae	Phalanger	lullulae	36.2	36.7	MSA
206	Diprotodontia	Phalangeridae	Phalanger	vestitus	34.9	48.5	FL3
207	Diprotodontia	Phalangeridae	Phalanger	sericeus	37.6	45.9	FL3
208	Diprotodontia	Phalangeridae	Phalanger	rothschildi			
209	Diprotodontia	Phalangeridae	Phalanger	ornatus			
210	Diprotodontia	Phalangeridae	Phalanger	orientalis	35	55	ADW
211	Diprotodontia	Phalangeridae	Phalanger	mimicus			
212	Diprotodontia	Phalangeridae	Phalanger	matabiru			
213	Diprotodontia	Phalangeridae	Phalanger	intercastellanus	38.4		PAN
214	Diprotodontia	Phalangeridae	Phalanger	gymnotis	31	54	ADW
215	Diprotodontia	Phalangeridae	Phalanger	carmelitae	37.0	43.1	FL3
216	Diprotodontia	Phalangeridae	Phalanger	alexandrae			
217	Diprotodontia	Phalangeridae	Phalanger	matanim	34	44	EDG
218	Diprotodontia	Phalangeridae	Spilocucus	rufoniger	58.3	70.0	FL3;ADW
219	Diprotodontia	Phalangeridae	Spilocucus	kraemerii			
220	Diprotodontia	Phalangeridae	Spilocucus	maculatus	34.8	55.0	ADW;FL3
221	Diprotodontia	Phalangeridae	Spilocucus	papuensis			
222	Diprotodontia	Phalangeridae	Strigocucus	celebensis	29.4	38.0	ARK
223	Diprotodontia	Phalangeridae	Strigocucus	pelengensis			
224	Diprotodontia	Phalangeridae	Trichosurus	arnhemensis	35	55	ADW
225	Diprotodontia	Phalangeridae	Trichosurus	caninus			
226	Diprotodontia	Phalangeridae	Trichosurus	cunninghami			
227	Diprotodontia	Phalangeridae	Trichosurus	johnstonii			
228	Diprotodontia	Phalangeridae	Trichosurus	vulpecula	32.0	58.0	ARK
229	Diprotodontia	Phalangeridae	Wyulda	squamicaudata			
230	Diprotodontia	Pseudocheiridae	Hemibelideus	lemuroides	30.5	52	ADW;ARK
231	Diprotodontia	Pseudocheiridae	Petauroides	volans	30	48	BRA
232	Diprotodontia	Pseudocheiridae	Petropseudes	dahli	33.4	38.3	ADW
233	Diprotodontia	Pseudocheiridae	Pseudocheirus	peregrinus	30	40	BRA;ARK
234	Diprotodontia	Pseudocheiridae	Pseudochirulus	caroli	30.0	35.7	FL3
235	Diprotodontia	Pseudocheiridae	Pseudochirulus	schlegeli	21.6	23.0	PAN;FL3
236	Diprotodontia	Pseudocheiridae	Pseudochirulus	mayeri	16.7	21.0	FL3
237	Diprotodontia	Pseudocheiridae	Pseudochirulus	larvatus			
238	Diprotodontia	Pseudocheiridae	Pseudochirulus	herbertensis	63.6	87.0	ADW
239	Diprotodontia	Pseudocheiridae	Pseudochirulus	forbesi	19.4	31.5	FL3
240	Diprotodontia	Pseudocheiridae	Pseudochirulus	cinereus			
241	Diprotodontia	Pseudocheiridae	Pseudochirulus	canescens	16.7	36.8	ADW
242	Diprotodontia	Pseudocheiridae	Pseudochirops	albertisii	32.5	34.0	PAN;FL3
243	Diprotodontia	Pseudocheiridae	Pseudochirops	archeri	28.5	37.7	ADW
244	Diprotodontia	Pseudocheiridae	Pseudochirops	corinnae	30.0	37.3	FL3
245	Diprotodontia	Pseudocheiridae	Pseudochirops	coronatus	33.9		PAN
246	Diprotodontia	Pseudocheiridae	Pseudochirops	cupreus	35.6	41.0	FL3
247	Diprotodontia	Petauridae	Dactylopsila	tatei			
248	Diprotodontia	Petauridae	Dactylopsila	trivirgata	24.0	27.8	FL3
249	Diprotodontia	Petauridae	Dactylopsila	palpator	19.6	26.3	FL3
250	Diprotodontia	Petauridae	Dactylopsila	megalura	20.0	24.0	FL3

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
251	Diprotodontia	Petauridae	Gymnobelideus	leadbeateri	15	17	ARK;EDG
252	Diprotodontia	Petauridae	Petaurus	abidi	24.5	27.7	FL3
253	Diprotodontia	Petauridae	Petaurus	breviceps	12	32	BRA
254	Diprotodontia	Petauridae	Petaurus	norfolkensis	12.0	32.0	BRA
255	Diprotodontia	Petauridae	Petaurus	australis	27	30	ADW
256	Diprotodontia	Petauridae	Petaurus	gracilis	23	28	WIKE
257	Diprotodontia	Petauridae	Petaurus	biacensis	14.6		PAN
258	Diprotodontia	Tarsipedidae	Tarsipes	rostratus	6.5	9.0	EOM
259	Diprotodontia	Acrobatidae	Acrobates	pygmaeus	6.5	8.0	ADW
260	Diprotodontia	Acrobatidae	Distoechurus	pennatus	10.3	13.2	FL3
261	Diprotodontia	Macropodidae	Lagorchestes	leporides			
262	Diprotodontia	Macropodidae	Lagorchestes	hirsutus	31	39	ARK
263	Diprotodontia	Macropodidae	Lagorchestes	conspicillatus	47		ARK
264	Diprotodontia	Macropodidae	Lagorchestes	asomatus			
265	Diprotodontia	Macropodidae	Macropus	fuliginosus	85	140	ARK;BRA
266	Diprotodontia	Macropodidae	Macropus	giganteus	87.6	230	PAN;ARK
267	Diprotodontia	Macropodidae	Macropus	parryi			
268	Diprotodontia	Macropodidae	Macropus	dorsalis	100	159	ADW
269	Diprotodontia	Macropodidae	Macropus	eugenii	47.7	68	IRI;BRA
270	Diprotodontia	Macropodidae	Macropus	greyi			
271	Diprotodontia	Macropodidae	Macropus	parma	60.0	107.2	TA2;ADW
272	Diprotodontia	Macropodidae	Macropus	agilis	60	195	ADW
273	Diprotodontia	Macropodidae	Macropus	rufogriseus	78	150.8	BRA;BR2
274	Diprotodontia	Macropodidae	Macropus	irma			
275	Diprotodontia	Macropodidae	Macropus	antilopinus	150	190	ADW
276	Diprotodontia	Macropodidae	Macropus	robustus	67	140	ADW;ARK
277	Diprotodontia	Macropodidae	Macropus	bernardus			
278	Diprotodontia	Macropodidae	Macropus	rufus	65	160	ADW;ARK
279	Diprotodontia	Macropodidae	Dendrolagus	inustus	62.5	90	FL3;ADW
280	Diprotodontia	Macropodidae	Dendrolagus	lumholtzi			
281	Diprotodontia	Macropodidae	Dendrolagus	matschiei	41.2	76	FL3;ARK
282	Diprotodontia	Macropodidae	Dendrolagus	mbaiso	52	81	ARK
283	Diprotodontia	Macropodidae	Dendrolagus	pulcherrimus			
284	Diprotodontia	Macropodidae	Dendrolagus	scottae	61.6		PAN
285	Diprotodontia	Macropodidae	Dendrolagus	spadix	57.1	64.5	FL3
286	Diprotodontia	Macropodidae	Dendrolagus	stellarum			
287	Diprotodontia	Macropodidae	Dendrolagus	ursinus	50	82	ARK
288	Diprotodontia	Macropodidae	Dendrolagus	bennettianus	69	75	ADW
289	Diprotodontia	Macropodidae	Dendrolagus	dorianus	51.5	81	FL3;ARK
290	Diprotodontia	Macropodidae	Dendrolagus	goodfellowi	55	77	ARK
291	Diprotodontia	Macropodidae	Dorcopsis	luctuosa	52.5	97.0	FL3
292	Diprotodontia	Macropodidae	Dorcopsis	muelleri	42.5	77.0	DEU;FL3
293	Diprotodontia	Macropodidae	Dorcopsis	hageni	42.5	67.1	FL3;DEU
294	Diprotodontia	Macropodidae	Dorcopsis	atrata	49.4	100	DEU;ADW
295	Diprotodontia	Macropodidae	Dorcopsulus	vanheurni	31.5	44.6	FL3
296	Diprotodontia	Macropodidae	Dorcopsulus	macleayi	40.0	49.0	PAN;ADW
297	Diprotodontia	Macropodidae	Onychogalea	unguifera			
298	Diprotodontia	Macropodidae	Onychogalea	lunata			
299	Diprotodontia	Macropodidae	Onychogalea	fraenata	43	70	ARK
300	Diprotodontia	Macropodidae	Petrogale	purpureicollis			

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
301	Diprotodontia	Macropodidae	Petrogale	coenensis			
302	Diprotodontia	Macropodidae	Petrogale	burbidgei			
303	Diprotodontia	Macropodidae	Petrogale	brachyotis	83	107	ADW
304	Diprotodontia	Macropodidae	Petrogale	assimilis	49.6	51.2	ADW
305	Diprotodontia	Macropodidae	Petrogale	godmani			
306	Diprotodontia	Macropodidae	Petrogale	xanthopus	48	65	ARK
307	Diprotodontia	Macropodidae	Petrogale	sharmani			
308	Diprotodontia	Macropodidae	Petrogale	herberti			
309	Diprotodontia	Macropodidae	Petrogale	inornata			
310	Diprotodontia	Macropodidae	Petrogale	lateralis	44.6	52.1	ARK
311	Diprotodontia	Macropodidae	Petrogale	mareeba			
312	Diprotodontia	Macropodidae	Petrogale	concinna	31.0	36.5	ADW
313	Diprotodontia	Macropodidae	Petrogale	persephone	100.0		PAN
314	Diprotodontia	Macropodidae	Petrogale	rothschildi			
315	Diprotodontia	Macropodidae	Petrogale	penicillata	45	58.6	ADW
316	Diprotodontia	Macropodidae	Setonix	brachyurus	45.7	60.0	BR2;BRA
317	Diprotodontia	Macropodidae	Thylogale	calabyi			
318	Diprotodontia	Macropodidae	Thylogale	browni	55.1		PAN
319	Diprotodontia	Macropodidae	Thylogale	thetis	29	68	ADW;TA2
320	Diprotodontia	Macropodidae	Thylogale	stigmatica	38.6	57.5	ADW;FL3
321	Diprotodontia	Macropodidae	Thylogale	lanatus			
322	Diprotodontia	Macropodidae	Thylogale	brunii	44.5	67.0	FL3
323	Diprotodontia	Macropodidae	Thylogale	billardierii	29.0	66.4	ADW;BR2
324	Diprotodontia	Macropodidae	Wallabia	bicolor	69	86.2	ADW
325	Diprotodontia	Macropodidae	Lagostrophus	fasciatus	35	45	ADW;ARK
326	Diprotodontia	Hypsiprymnodontidae					Hypsiprymnodonmoschatus
327	Diprotodontia	Potoroidae	Aepyprymnus	rufescens	37.5	52	ADW
328	Diprotodontia	Potoroidae	Bettongia	lesueur	30	44	EDG;ADW
329	Diprotodontia	Potoroidae	Bettongia	penicillata	30	38	ADW;ARK
330	Diprotodontia	Potoroidae	Bettongia	tropica	30	38	ARK
331	Diprotodontia	Potoroidae	Bettongia	gaimardi	31.5	33.2	ARK
332	Diprotodontia	Potoroidae	Caloprymnus	campestris			
333	Diprotodontia	Potoroidae	Potorous	platyops	24.3		ARK
334	Diprotodontia	Potoroidae	Potorous	gilbertii	27	40	EDG;ADW
335	Diprotodontia	Potoroidae	Potorous	longipes	28	41.5	ARK
336	Diprotodontia	Potoroidae	Potorous	tridactylus	24.3	41.0	BRA
337	Afrosoricida	Tenrecidae	Geogale	aurita	6.1	10.5	GOE;ADW
338	Afrosoricida	Tenrecidae	Limnogale	mergulus	13.0	24.0	ADW
339	Afrosoricida	Tenrecidae	Microgale	longicaudata	6.2	7.6	MPH
340	Afrosoricida	Tenrecidae	Microgale	thomasi	8.0	10.5	GOO;MPH
341	Afrosoricida	Tenrecidae	Microgale	talazaci	4	15	ADW;PAN
342	Afrosoricida	Tenrecidae	Microgale	taiva			
343	Afrosoricida	Tenrecidae	Microgale	soricoides	7.5	8.9	GOO
344	Afrosoricida	Tenrecidae	Microgale	pusilla	5.1	6.2	MPH
345	Afrosoricida	Tenrecidae	Microgale	principula	6.5	8.0	GOO
346	Afrosoricida	Tenrecidae	Microgale	parvula	5.0	6.5	GOO
347	Afrosoricida	Tenrecidae	Microgale	monticola			
348	Afrosoricida	Tenrecidae	Microgale	gymnorhyncha	7.9	9.1	GOO
349	Afrosoricida	Tenrecidae	Microgale	gracilis	8.8	10.0	GOO;MPH
350	Afrosoricida	Tenrecidae	Microgale	fotsifotsy	6.1	7.2	GOO;PAN

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
351	Afrosoricida	Tenrecidae	Microgale	dryas	17.0	18.0	ADW
352	Afrosoricida	Tenrecidae	Microgale	drouhardi	7.3		PAN
353	Afrosoricida	Tenrecidae	Microgale	dobsoni	9.2	13.0	ADW;GOO
354	Afrosoricida	Tenrecidae	Microgale	cowani	6.0	8.3	PAN;MPH
355	Afrosoricida	Tenrecidae	Microgale	brevicaudata	6.6	7.0	ADW
356	Afrosoricida	Tenrecidae	Microgale	nasoloi			
357	Afrosoricida	Tenrecidae	Oryzorictes	hova	9.9	12.4	ADW
358	Afrosoricida	Tenrecidae	Oryzorictes	tetradactylus	10.8		PAN
359	Afrosoricida	Tenrecidae	Micropotamogale	lamottei	12	15	KIF
360	Afrosoricida	Tenrecidae	Micropotamogale	ruwenzorii	16	35	PAN;ADW
361	Afrosoricida	Tenrecidae	Potamogale	velox	27.9	34.7	A16
362	Afrosoricida	Tenrecidae	Echinops	telfairi	16.0		PAN
363	Afrosoricida	Tenrecidae	Hemicentetes	semispinosus	14	19.0	MSA;BRA
364	Afrosoricida	Tenrecidae	Hemicentetes	nigriceps			
365	Afrosoricida	Tenrecidae	Setifer	setosus	15.0	22.0	BRA
366	Afrosoricida	Tenrecidae	Tenrec	ecaudatus	26.5	39.0	BRA
367	Afrosoricida	Chryschloridae	Carpitalpa	arendsi	11.5	14.4	SAS
368	Afrosoricida	Chryschloridae	Chlorotalpa	duthieae	9.5	13.0	SAS
369	Afrosoricida	Chryschloridae	Chlorotalpa	sclateri	8.0	13.0	ADW;SAS
370	Afrosoricida	Chryschloridae	Chryschloris	asiatica	10.7		PAN
371	Afrosoricida	Chryschloridae	Chryschloris	visagiei	10.6		PAN
372	Afrosoricida	Chryschloridae	Chryschloris	stuhlmanni	9.0	14.0	ADW
373	Afrosoricida	Chryschloridae	Chrysopalax	trevelyanii	20	23.5	ADW;PAN
374	Afrosoricida	Chryschloridae	Chrysopalax	villosum	15.0		PAN
375	Afrosoricida	Chryschloridae	Cryptochloris	zyli	8.5		PAN
376	Afrosoricida	Chryschloridae	Cryptochloris	wintoni	9.0		PAN
377	Afrosoricida	Chryschloridae	Eremitalpa	granti	6.4	8.6	SAS
378	Afrosoricida	Chryschloridae	Amblysomus	corriae	10.8	13.0	SAS
379	Afrosoricida	Chryschloridae	Amblysomus	hottentotus	11.5	14.5	ADW
380	Afrosoricida	Chryschloridae	Amblysomus	marleyi	9.0	17.0	SAS;EDG
381	Afrosoricida	Chryschloridae	Amblysomus	robustus			
382	Afrosoricida	Chryschloridae	Amblysomus	septentrionalis	10.0	14.0	SAS
383	Afrosoricida	Chryschloridae	Calcochloris	obtusirostris	8.2	11.0	SAS
384	Afrosoricida	Chryschloridae	Calcochloris	leucorhinus			
385	Afrosoricida	Chryschloridae	Calcochloris	tytonis			
386	Afrosoricida	Chryschloridae	Neamblysomus	julianae	9.2	11.1	SAS
387	Afrosoricida	Chryschloridae	Neamblysomus	gunningi	11.1	17	SAS;EDG
388	Macroscelidea	Macroscelididae	Elephantulus	rupestris	12.2		PAN
389	Macroscelidea	Macroscelididae	Elephantulus	brachyrhynchus	10.3	13.8	HIL;HO1
390	Macroscelidea	Macroscelididae	Elephantulus	edwardii	11.9		PAN
391	Macroscelidea	Macroscelididae	Elephantulus	fuscipes	10.9	12.9	A16
392	Macroscelidea	Macroscelididae	Elephantulus	fuscus			
393	Macroscelidea	Macroscelididae	Elephantulus	intufi	11.0	13.5	SAS;HIL
394	Macroscelidea	Macroscelididae	Elephantulus	myurus	10.0	13.4	SAS
395	Macroscelidea	Macroscelididae	Elephantulus	revoili			
396	Macroscelidea	Macroscelididae	Elephantulus	rozeti	11.0	12.5	ADW
397	Macroscelidea	Macroscelididae	Elephantulus	rufescens	10.8	31	HO1;ADW?
398	Macroscelidea	Macroscelididae	Macroscelides	proboscideus	10	12.0	ADW;SAS
399	Macroscelidea	Macroscelididae	Petrodromus	tetradactylus	12.0	23.0	HO1;ADW
400	Macroscelidea	Macroscelididae	Rhynchocyon	chrysopygus	23	28.3	ARK;MSA

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
401	Macroscelidea	Macroscelididae	Rhynchocyon	cirnei	22.9	31.5	ADW;KIF
402	Macroscelidea	Macroscelididae	Rhynchocyon	petersi	19.3	32.1	SGH
403	Tubulidentata	Orycteropodidae	Orycteropus	afer	95.7	158	MSA;BRA
404	Hyracoidea	Procaviidae	Dendrohyrax	arboreus	43	57	SAS;MSA
405	Hyracoidea	Procaviidae	Dendrohyrax	dorsalis	30.5	76.0	ADW
406	Hyracoidea	Procaviidae	Heterohyrax	brucei	24.2	56	HIL;SAS
407	Hyracoidea	Procaviidae	Procavia	capensis	30.5	60	BRA;SAS
408	Proboscidea	Elephantidae	Elephas	maximus	191.9	650	PAN;CHN
409	Proboscidea	Elephantidae	Loxodonta	africana	520	750	BOT;ARK
410	Proboscidea	Elephantidae	Loxodonta	cyclotis	160	286	ADW
411	Cingulata	Dasyproctidae	Dasyprocta	septemcinctus	24	30.5	PAR
412	Cingulata	Dasyproctidae	Dasyprocta	yepesi			
413	Cingulata	Dasyproctidae	Dasyprocta	sabanicola			
414	Cingulata	Dasyproctidae	Dasyprocta	pilosus			
415	Cingulata	Dasyproctidae	Dasyprocta	novemcinctus	32.4	57.3	PAR
416	Cingulata	Dasyproctidae	Dasyprocta	kappeleri	50.0	64.0	RIH
417	Cingulata	Dasyproctidae	Dasyprocta	hybridus	24	57	ADW
418	Cingulata	Dasyproctidae	Calyptophractus	retusus	11.6	17.5	PAR;ADW
419	Cingulata	Dasyproctidae	Chaetophractus	nationi	19.8	40	ANB;ARK
420	Cingulata	Dasyproctidae	Chaetophractus	vellerosus	21	28.8	PAR;ANB
421	Cingulata	Dasyproctidae	Chaetophractus	villosus	22	40	ADW
422	Cingulata	Dasyproctidae	Chlamyphorus	truncatus	13.5		PAN
423	Cingulata	Dasyproctidae	Euphractus	sexcinctus	34.1	54.0	PAR;ANB
424	Cingulata	Dasyproctidae	Zaedyus	pichiy	26	33.5	ARK
425	Cingulata	Dasyproctidae	Cabassous	unicinctus	30.0	45.4	PAN
426	Cingulata	Dasyproctidae	Cabassous	centralis	30	71	ADW
427	Cingulata	Dasyproctidae	Cabassous	chacoensis	30	30.6	PAR
428	Cingulata	Dasyproctidae	Cabassous	tatouay	36	49	PAR
429	Cingulata	Dasyproctidae	Priodontes	maximus	75	100	PAR
430	Cingulata	Dasyproctidae	Tolypleutes	matacus	21.5	27.3	PAR
431	Cingulata	Dasyproctidae	Tolypleutes	tricinctus	21.8	30	ARK;PAN
432	Pilosa	Bradypteridae	Bradypterus	pygmaeus	43.5	60	FGC;EOM
433	Pilosa	Bradypteridae	Bradypterus	torquatus	41.3	70.0	EDG
434	Pilosa	Bradypteridae	Bradypterus	tridactylus	45.0	76.2	RIH;ADW
435	Pilosa	Bradypteridae	Bradypterus	variegatus	40	77	FGC
436	Pilosa	Megalonychidae	Choloepus	didactylus	53.3	88.0	ADW;RIH
437	Pilosa	Megalonychidae	Choloepus	hoffmanni	52.0	70	ANB;ADW
438	Pilosa	Cyclopedidae	Cyclopes	didactylus	12.3	21.5	FGC
439	Pilosa	Myrmecophagidae	Myrmecophaga	tridactyla	100	200	PAR;FGC
440	Pilosa	Myrmecophagidae	Tamandua	mexicana	47	77	ADW
441	Pilosa	Myrmecophagidae	Tamandua	tetradactyla	34.5	88	RIH;PAR
442	Scandentia	Tupaiidae	Anathana	elliotti	16.0	18.5	ADW
443	Scandentia	Tupaiidae	Dendrogale	melanura	12.5		PAN
444	Scandentia	Tupaiidae	Dendrogale	murina	11.5	13.5	FRA
445	Scandentia	Tupaiidae	Tupaia	moellendorffii			
446	Scandentia	Tupaiidae	Tupaia	gracilis	18.5		PAN
447	Scandentia	Tupaiidae	Tupaia	tana	18.5	22	PAN;ADW
448	Scandentia	Tupaiidae	Tupaia	splendidula	18.5		PAN
449	Scandentia	Tupaiidae	Tupaia	picta	18.5		PAN
450	Scandentia	Tupaiidae	Tupaia	palawanensis	18.5		PAN

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
451	Scandentia	TupaIIDAE	Tupaia	nicobarica			
452	Scandentia	TupaIIDAE	Tupaia	montana	18.5		PAN
453	Scandentia	TupaIIDAE	Tupaia	belangeri	16.0	23.0	FRA
454	Scandentia	TupaIIDAE	Tupaia	javanica			
455	Scandentia	TupaIIDAE	Tupaia	minor	11.0	18.5	FRA;PAN
456	Scandentia	TupaIIDAE	Tupaia	glis	13.5	24.0	FRA;ECA
457	Scandentia	TupaIIDAE	Tupaia	dorsalis	18.5		PAN
458	Scandentia	TupaIIDAE	Tupaia	chrysogaster			
459	Scandentia	TupaIIDAE	Tupaia	longipes	18.5		PAN
460	Scandentia	TupaIIDAE	UroGale	everetti	17	22	ADW
461	Scandentia	Ptilocercidae	Ptilocercus	lowii	12.0	15.0	PAN;FRA
462	Primates	Cheirogaleidae	Allocebus	trichotis	6	22	EOM;DAM
463	Primates	Cheirogaleidae	Cheirogaleus	crossleyi			
464	Primates	Cheirogaleidae	Cheirogaleus	major	16.7	27	ADW;DAM
465	Primates	Cheirogaleidae	Cheirogaleus	medius	19	26	DAM
466	Primates	Cheirogaleidae	Cheirogaleus	minusculus			
467	Primates	Cheirogaleidae	Cheirogaleus	ravus			
468	Primates	Cheirogaleidae	Cheirogaleus	sibreei			
469	Primates	Cheirogaleidae	Cheirogaleus	adipicaudatus			
470	Primates	Cheirogaleidae	Microcebus	murinus	10	20	EOM
471	Primates	Cheirogaleidae	Microcebus	tavaratra			
472	Primates	Cheirogaleidae	Microcebus	sambiranensis			
473	Primates	Cheirogaleidae	Microcebus	rufus	10	20	EOM
474	Primates	Cheirogaleidae	Microcebus	griseorufus			
475	Primates	Cheirogaleidae	Microcebus	berthae	9	11	ARK
476	Primates	Cheirogaleidae	Microcebus	myoxinus	6	22	ARK;EOM
477	Primates	Cheirogaleidae	Microcebus	ravelobensis			
478	Primates	Cheirogaleidae	Mirza	coquereli	20	25	EOM;DAM
479	Primates	Cheirogaleidae	Phaner	electromontis			
480	Primates	Cheirogaleidae	Phaner	furcifer	22	30	EOM
481	Primates	Cheirogaleidae	Phaner	pallescens			
482	Primates	Cheirogaleidae	Phaner	parienti			
483	Primates	Lemuridae	Eulemur	albocollaris			
484	Primates	Lemuridae	Eulemur	sanfordi	38	40	ARK
485	Primates	Lemuridae	Eulemur	rufus	35	48	ARK
486	Primates	Lemuridae	Eulemur	rubriventer	30	54	DAM;ADW
487	Primates	Lemuridae	Eulemur	mongoz	30	45	BRA
488	Primates	Lemuridae	Eulemur	macaco	30	45	ADW;EOM
489	Primates	Lemuridae	Eulemur	fulvus	36	50	DAM
490	Primates	Lemuridae	Eulemur	coronatus	32	51	EOM;DAM
491	Primates	Lemuridae	Eulemur	cinereiceps	39	40.5	ARK
492	Primates	Lemuridae	Eulemur	albifrons	39	42	ARK
493	Primates	Lemuridae	Eulemur	collaris	39	40	ARK41
494	Primates	Lemuridae	Hapalemur	alaotrensis	28	40	EDG;ARK
495	Primates	Lemuridae	Hapalemur	occidentalis			
496	Primates	Lemuridae	Hapalemur	griseus	24	40	ARK;EOM
497	Primates	Lemuridae	Hapalemur	aureus	28	45	EOM
498	Primates	Lemuridae	Lemur	catta	30	46	DAM;EOM
499	Primates	Lemuridae	Prollemur	simus	26	45.8	EDG
500	Primates	Lemuridae	Varecia	rubra	60		ADW

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
501	Primates	Lemuridae	Varecia	variegata	43	60	EDG;DAM
502	Primates	Lepilemuridae	Lepilemur	leucopus	24	26	ADW
503	Primates	Lepilemuridae	Lepilemur	septentrionalis	28		ARK
504	Primates	Lepilemuridae	Lepilemur	ruficaudatus	28	33	DAM
505	Primates	Lepilemuridae	Lepilemur	microdon	26	32.5	DAM;PAN
506	Primates	Lepilemuridae	Lepilemur	edwardsi	27	29	DAM
507	Primates	Lepilemuridae	Lepilemur	dorsalis	25	26	DAM
508	Primates	Lepilemuridae	Lepilemur	ankaranensis			
509	Primates	Lepilemuridae	Lepilemur	mustelinus	24	35	ADW;DAM
510	Primates	Indriidae	Avahi	laniger	25.0	45	EOM;ADW
511	Primates	Indriidae	Avahi	occidentalis	25	28.5	EOM;ARK
512	Primates	Indriidae	Avahi	unicolor			
513	Primates	Indriidae	Indri	indri	57.5	90	MSA;EDG
514	Primates	Indriidae	Propithecus	edwardsi	42	52	ARK
515	Primates	Indriidae	Propithecus	verreauxi	40	55	DAM;ADW
516	Primates	Indriidae	Propithecus	perrieri	43	48.9	ARK;ADW
517	Primates	Indriidae	Propithecus	deckenii	42.5	47.5	ARK
518	Primates	Indriidae	Propithecus	coquereli	42.5	50	ARK
519	Primates	Indriidae	Propithecus	tattersalli	45	50	EOM
520	Primates	Indriidae	Propithecus	diadema	45	55	EOM;DAM
521	Primates	Daubentonidae	Daubentonnia	madagascariensis	30	40	EOM
522	Primates	Lorisidae	Arctocebus	aureus	22	31	ARK
523	Primates	Lorisidae	Arctocebus	calabrensis	22.4	30.5	KIF;ADW
524	Primates	Lorisidae	Loris	lydekkerianus	22.1	26	BRM;ARK
525	Primates	Lorisidae	Loris	tardigradus	11.6	26.4	EDG;DAM
526	Primates	Lorisidae	Nycticebus	coucang	20	38	ECA;BRA
527	Primates	Lorisidae	Nycticebus	pygmaeus	15	29	ADW;DAM
528	Primates	Lorisidae	Nycticebus	bengalensis	26	38	ARK
529	Primates	Lorisidae	Perodicticus	potto	30	42	ARK
530	Primates	Lorisidae	Pseudopotto	martini			
531	Primates	Galagidae	Euoticus	elegantulus	10.6	33	OLS;KIF
532	Primates	Galagidae	Euoticus	pallidus	17	20	KIF
533	Primates	Galagidae	Galago	gabonensis	21.6		ADW
534	Primates	Galagidae	Galago	thomasi	12.3	16.6	OLS
535	Primates	Galagidae	Galago	senegalensis	9.8	21.0	BOT;OLS
536	Primates	Galagidae	Galago	rondoensis	10	12	DAM
537	Primates	Galagidae	Galago	nyasae			
538	Primates	Galagidae	Galago	orinus	14	15	DAM
539	Primates	Galagidae	Galago	zanzibaricus	12.0	19.0	OLS
540	Primates	Galagidae	Galago	matschiei	14.7	20	KIF
541	Primates	Galagidae	Galago	granti	14.0	18.1	BUT
542	Primates	Galagidae	Galago	allenii	15.5	24.0	OLS
543	Primates	Galagidae	Galago	cameronensis			
544	Primates	Galagidae	Galago	gallarum	13.0	20.0	OLS
545	Primates	Galagidae	Galago	moholi	8.8	20.5	OLS
546	Primates	Galagidae	Galago	demidoff	7.3	16.1	OLS;A17
547	Primates	Galagidae	Otolemur	monteiri	29.7	37.3	HIL
548	Primates	Galagidae	Otolemur	garnettii	23	33.8	OLS
549	Primates	Galagidae	Otolemur	crassicaudatus	25.5	46.5	OLS;BRA
550	Primates	Cebidae	Saguinus	niger	22	25	DAM

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
551	Primates	Cebidae	Saguinus	midas	16	31	DAM
552	Primates	Cebidae	Saguinus	mystax	25	35	ADW
553	Primates	Cebidae	Saguinus	pileatus			
554	Primates	Cebidae	Saguinus	nigricollis	22.0	22.6	ADW
555	Primates	Cebidae	Saguinus	bicolor	20.8	28.3	ARK
556	Primates	Cebidae	Saguinus	fuscocollis	16	31	DAM
557	Primates	Cebidae	Saguinus	leucopus	22	30	DAM;ELA
558	Primates	Cebidae	Saguinus	tripartitus	21	24	DAM;ADW
559	Primates	Cebidae	Saguinus	geoffroyi	20	29	ADW
560	Primates	Cebidae	Saguinus	oedipus	20	26	DAM;ARK
561	Primates	Cebidae	Saguinus	martinsi	20	28	DAM
562	Primates	Cebidae	Saguinus	labiatus	23	32.0	DAM;ANB
563	Primates	Cebidae	Saguinus	inustus	21	29	DAM
564	Primates	Cebidae	Saguinus	imperator	23.3	26.4	ADW
565	Primates	Cebidae	Saguinus	graelisi	17.5	31	ADW
566	Primates	Cebidae	Saguinus	melanoleucus	25		DAM
567	Primates	Cebidae	Callimico	goeldii	18	31	DAM;EOM
568	Primates	Cebidae	Callithrix	flaviceps	18	30	ARK
569	Primates	Cebidae	Callithrix	kuhlii			
570	Primates	Cebidae	Callithrix	geoffroyi	19	20	DAM;ARK
571	Primates	Cebidae	Callithrix	aurita	19	24.8	ARK
572	Primates	Cebidae	Callithrix	penicillata	20	27.94	DAM;ADW
573	Primates	Cebidae	Callithrix	jacchus	12	31.0	ADW;BRA
574	Primates	Cebidae	Callithrix	nigriceps	21		DAM
575	Primates	Cebidae	Callithrix	intermedia			
576	Primates	Cebidae	Callithrix	leucippe	21	24	DAM
577	Primates	Cebidae	Callithrix	manicorensis			
578	Primates	Cebidae	Callithrix	marcasi			
579	Primates	Cebidae	Callithrix	melanura	22	24.7	DAM;ANB
580	Primates	Cebidae	Callithrix	humeralifera	20	24	DAM
581	Primates	Cebidae	Callithrix	saterae	21		DAM
582	Primates	Cebidae	Callithrix	mauesi	19.8	22.6	EOM
583	Primates	Cebidae	Callithrix	emiliae	20	22	DAM
584	Primates	Cebidae	Callithrix	chrysoleuca	19	26	DAM
585	Primates	Cebidae	Callithrix	argentata	16	28	DAM
586	Primates	Cebidae	Callithrix	acariensis			
587	Primates	Cebidae	Callithrix	pygmaea	11.7	19	ARK;EOM
588	Primates	Cebidae	Callithrix	humilis	15	17	EOM;DAM
589	Primates	Cebidae	Leontopithecus	rosalia	20	37	MSA;DAM
590	Primates	Cebidae	Leontopithecus	chrysopygus	20	37	ADW;DAM
591	Primates	Cebidae	Leontopithecus	chrysomelas	20	33.6	ADW
592	Primates	Cebidae	Leontopithecus	caissara	30.5		ADW
593	Primates	Cebidae	Cebus	apella	32	56.5	EOM
594	Primates	Cebidae	Cebus	capucinus	30.5	56.5	BRA
595	Primates	Cebidae	Cebus	kaapori			
596	Primates	Cebidae	Cebus	nigrifrons	43.5		PAN
597	Primates	Cebidae	Cebus	olivaceus	38	46	EOM
598	Primates	Cebidae	Cebus	xanthosternos	35	48.8	ADW
599	Primates	Cebidae	Cebus	albifrons	33	48	EOM;A54
600	Primates	Cebidae	Cebus	libidinosus	42	45	A69

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
601	Primates	Cebidae	Saimiri	boliviensis	22.5	37	ADW
602	Primates	Cebidae	Saimiri	oerstedii	22.5	34.5	ADW;G12
603	Primates	Cebidae	Saimiri	sciureus	23.1	37.0	ANB;EOM
604	Primates	Cebidae	Saimiri	ustus	31.0		PAN
605	Primates	Cebidae	Saimiri	vanzolinii	26	36	ARK
606	Primates	Atelidae	Ateles	paniscus	37	62	DAM;EOM
607	Primates	Atelidae	Ateles	geoffroyi	31	63.5	ARK;BRA
608	Primates	Atelidae	Ateles	hybridus	45	50	ARK
609	Primates	Atelidae	Ateles	fusciceps	37	59	EOM
610	Primates	Atelidae	Ateles	marginatus	34	51	EOM
611	Primates	Atelidae	Ateles	chamek	40	52	EOM
612	Primates	Atelidae	Ateles	belzebuth	34	59	ARK;ADW
613	Primates	Atelidae	Brachyteles	hypoxanthus	50	78	ARK
614	Primates	Atelidae	Brachyteles	arachnooides	46	78	ARK
615	Primates	Atelidae	Lagothrix	lagotricha	40	68.6	ARK;ADW
616	Primates	Atelidae	Lagothrix	lugens			
617	Primates	Atelidae	Lagothrix	poeppigii	46	65	ARK
618	Primates	Atelidae	Lagothrix	cana	46	65	ARK
619	Primates	Atelidae	Oreonax	flavicauda	50.8	68.6	EDG
620	Primates	Atelidae	Alouatta	seniculus	44.0	72	RIH;ADW
621	Primates	Atelidae	Alouatta	guariba	45	59	EOM
622	Primates	Atelidae	Alouatta	belzebul	40	91.5	ADW
623	Primates	Atelidae	Alouatta	caraya	44.0	67	ANB;ADW
624	Primates	Atelidae	Alouatta	coibensis	56.0		BRM
625	Primates	Atelidae	Alouatta	macconnelli	51.0	63.9	BRM
626	Primates	Atelidae	Alouatta	nigerrima			
627	Primates	Atelidae	Alouatta	palliata	38	91.5	ADW;BRA
628	Primates	Atelidae	Alouatta	sara			
629	Primates	Atelidae	Alouatta	pigra	41.5	71	FGC;ARK
630	Primates	Aotidae	Aotus	nigriceps	29.6	42.0	EOM
631	Primates	Aotidae	Aotus	miconax			
632	Primates	Aotidae	Aotus	azarae	24	37	ADW
633	Primates	Aotidae	Aotus	vociferans			
634	Primates	Aotidae	Aotus	lemurinus	26.0	47.0	FGC
635	Primates	Aotidae	Aotus	nancymaae	53	77.4	ADW
636	Primates	Aotidae	Aotus	trivirgatus	24	47	BRA;ADW
637	Primates	Aotidae	Aotus	hershkovitzi			
638	Primates	Pitheciidae	Callicebus	ornatus			
639	Primates	Pitheciidae	Callicebus	caligatus			
640	Primates	Pitheciidae	Callicebus	baptista			
641	Primates	Pitheciidae	Callicebus	brunneus			
642	Primates	Pitheciidae	Callicebus	bernhardi			
643	Primates	Pitheciidae	Callicebus	coimbrai			
644	Primates	Pitheciidae	Callicebus	barbarabrownae			
645	Primates	Pitheciidae	Callicebus	stephennashi			
646	Primates	Pitheciidae	Callicebus	cinerascens			
647	Primates	Pitheciidae	Callicebus	pallescens			
648	Primates	Pitheciidae	Callicebus	olallae	41.0		ANB
649	Primates	Pitheciidae	Callicebus	oenanthe			
650	Primates	Pitheciidae	Callicebus	nigrifrons	40	50	ARK

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
651	Primates	Pitheciidae	Callicebus	dubius			
652	Primates	Pitheciidae	Callicebus	hoffmannsi			
653	Primates	Pitheciidae	Callicebus	personatus	31	56	EOM
654	Primates	Pitheciidae	Callicebus	donacophilus	26.0	32.9	ANB
655	Primates	Pitheciidae	Callicebus	discolor			
656	Primates	Pitheciidae	Callicebus	melanochir			
657	Primates	Pitheciidae	Callicebus	modestus	31.5		ANB
658	Primates	Pitheciidae	Callicebus	cupreus	28.7	48	ADW;EOM
659	Primates	Pitheciidae	Callicebus	moloch	24.0	61.0	BRA
660	Primates	Pitheciidae	Callicebus	regulus			
661	Primates	Pitheciidae	Callicebus	torquatus	23	65.0	EOM;BRA
662	Primates	Pitheciidae	Callicebus	purinus			
663	Primates	Pitheciidae	Callicebus	lugens	33.8	35.0	A54
664	Primates	Pitheciidae	Callicebus	lucifer			
665	Primates	Pitheciidae	Callicebus	medemi			
666	Primates	Pitheciidae	Cacajao	calvus	36	57	ARK;EOM
667	Primates	Pitheciidae	Cacajao	melanocephalus	30	50	EOM
668	Primates	Pitheciidae	Chiropotes	chiropotes			
669	Primates	Pitheciidae	Chiropotes	albinasus	38	47	ADW;EOM
670	Primates	Pitheciidae	Chiropotes	utahickae			
671	Primates	Pitheciidae	Chiropotes	israelita			
672	Primates	Pitheciidae	Chiropotes	satanas	32.7	48	ADW;EOM
673	Primates	Pitheciidae	Pithecia	pithecia	33	38.0	EOM;RIH
674	Primates	Pitheciidae	Pithecia	irrorata	38	42.5	EOM;ANB
675	Primates	Pitheciidae	Pithecia	albicans	36.5	41	EOM
676	Primates	Pitheciidae	Pithecia	aequatorialis			
677	Primates	Pitheciidae	Pithecia	monachus	30	50	ADW
678	Primates	Cercopithecidae	Allenopithecus	nigroviridis	40	51	KIF;EOM
679	Primates	Cercopithecidae	Macaca	leonina	40	62	ARK;CHN
680	Primates	Cercopithecidae	Macaca	maura	55	76.4	DAM;BRA
681	Primates	Cercopithecidae	Macaca	mulatta	43	64	CHN;EOM
682	Primates	Cercopithecidae	Macaca	nemestrina	45	78	ARK
683	Primates	Cercopithecidae	Macaca	nigra	44	60	DAM
684	Primates	Cercopithecidae	Macaca	nigrescens			
685	Primates	Cercopithecidae	Macaca	ochreata	31.0	56	OCH;DAM
686	Primates	Cercopithecidae	Macaca	radiata	35	60	EOM
687	Primates	Cercopithecidae	Macaca	arctoides	48	70	DAM;EOM
688	Primates	Cercopithecidae	Macaca	hecki			
689	Primates	Cercopithecidae	Macaca	pagensis	40	55	ARK
690	Primates	Cercopithecidae	Macaca	fascicularis	38	66.5	EOM;BRM
691	Primates	Cercopithecidae	Macaca	cyclopis	36	65.0	ARK;BRM
692	Primates	Cercopithecidae	Macaca	assamensis	43	73	DAM
693	Primates	Cercopithecidae	Macaca	siberu			
694	Primates	Cercopithecidae	Macaca	silenus	40	61	ADW;EOM
695	Primates	Cercopithecidae	Macaca	tonkeana	50	68	DAM
696	Primates	Cercopithecidae	Macaca	thibetana	49	80	CHN;A75
697	Primates	Cercopithecidae	Macaca	sylvanus	45	75	DAM;KIF
698	Primates	Cercopithecidae	Macaca	sinica	36.7	53	ADW;EOM
699	Primates	Cercopithecidae	Macaca	fuscata	33.9	82.7	BRM;PAN
700	Primates	Cercopithecidae	Cercocebus	galeritus	40	66	DAM;EOM

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
701	Primates	Cercopithecidae	Cercocebus	sanjei	50	65	KIF
702	Primates	Cercopithecidae	Cercocebus	atys	45	67	KIF
703	Primates	Cercopithecidae	Cercocebus	agilis	44	65	KIF
704	Primates	Cercopithecidae	Cercocebus	chrysogaster	45	66	KIF
705	Primates	Cercopithecidae	Cercocebus	torquatus	45	67	KIF
706	Primates	Cercopithecidae	Cercopithecus	sclateri	40	55	KIF
707	Primates	Cercopithecidae	Cercopithecus	mona	32	63	ADW;DAM
708	Primates	Cercopithecidae	Cercopithecus	neglectus	39	63.5	DAM;ADW
709	Primates	Cercopithecidae	Cercopithecus	nictitans	32.0	70	BRA;ARK
710	Primates	Cercopithecidae	Cercopithecus	petaurista	36	48	EOM;KIF
711	Primates	Cercopithecidae	Cercopithecus	pogonias	34	66	BUY;ARK
712	Primates	Cercopithecidae	Cercopithecus	roloway			
713	Primates	Cercopithecidae	Cercopithecus	solatus	47	70	KIF;ARK
714	Primates	Cercopithecidae	Cercopithecus	wolfi	28.3	68	A17;KIF
715	Primates	Cercopithecidae	Cercopithecus	mitis	39	71	DAM
716	Primates	Cercopithecidae	Cercopithecus	kandti			
717	Primates	Cercopithecidae	Cercopithecus	preussi	26.2	66	BRM;KIF
718	Primates	Cercopithecidae	Cercopithecus	doggetti			
719	Primates	Cercopithecidae	Cercopithecus	albogularis			
720	Primates	Cercopithecidae	Cercopithecus	ascanius	32	63	DAM;A17
721	Primates	Cercopithecidae	Cercopithecus	campbelli	36	58	DAM;KIF
722	Primates	Cercopithecidae	Cercopithecus	cephus	44	72	KIF;DAM
723	Primates	Cercopithecidae	Cercopithecus	diana	40	62	KIF;ARK
724	Primates	Cercopithecidae	Cercopithecus	dryas	37	40	KIF
725	Primates	Cercopithecidae	Cercopithecus	erythrogaster	40	50	KIF
726	Primates	Cercopithecidae	Cercopithecus	erythrotis	32.9	54.3	BRM
727	Primates	Cercopithecidae	Cercopithecus	hamlyni	40	65	KIF
728	Primates	Cercopithecidae	Cercopithecus	lhoesti	45	70	KIF
729	Primates	Cercopithecidae	Cercopithecus	lowei	40	58	KIF
730	Primates	Cercopithecidae	Cercopithecus	denti	33.0	70	A17;KIF
731	Primates	Cercopithecidae	Chlorocebus	cynosuros	41.2	47.0	HIL
732	Primates	Cercopithecidae	Chlorocebus	sabaeus	38	60	KIF
733	Primates	Cercopithecidae	Chlorocebus	tantalus	45	56	KIF
734	Primates	Cercopithecidae	Chlorocebus	djamdamensis	38	62	KIF
735	Primates	Cercopithecidae	Chlorocebus	aethiops	30	60	DAM;ADW
736	Primates	Cercopithecidae	Chlorocebus	pygerythrus	35	66	ARK
737	Primates	Cercopithecidae	Erythrocebus	patas	48	87	KIF
738	Primates	Cercopithecidae	Lophocebus	albigena	40	73	ADW;KIF
739	Primates	Cercopithecidae	Lophocebus	aterrimus	45	85	KIF
740	Primates	Cercopithecidae	Lophocebus	opdenboschi			
741	Primates	Cercopithecidae	Mandrillus	leucophaeus	45	90	KIF
742	Primates	Cercopithecidae	Mandrillus	sphinx	55	95	KIF
743	Primates	Cercopithecidae	Miopithecus	talapoin	25	45	ADW;KIF
744	Primates	Cercopithecidae	Miopithecus	ogouensis	25	40	KIF
745	Primates	Cercopithecidae	Papio	cynocephalus	50.8	114.3	ADW
746	Primates	Cercopithecidae	Papio	ursinus	50.8	114.3	ADW
747	Primates	Cercopithecidae	Papio	hamadryas	50	95	KIF
748	Primates	Cercopithecidae	Papio	anubis	50	114	KIF
749	Primates	Cercopithecidae	Papio	papio	50.8	114.3	ADW
750	Primates	Cercopithecidae	Theropithecus	gelada	50	74	EOM

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
751	Primates	Cercopithecidae	Colobus	angolensis	47	68	EOM;ADW
752	Primates	Cercopithecidae	Colobus	guereza	45	71.8	EOM;A22
753	Primates	Cercopithecidae	Colobus	polykomos	45	72	ADW
754	Primates	Cercopithecidae	Colobus	satanas	50	77	BUY;KIF
755	Primates	Cercopithecidae	Colobus	vellerosus	50	70	KIF;EOM
756	Primates	Cercopithecidae	Nasalis	larvatus	54	76	EOM
757	Primates	Cercopithecidae	Piliocolobus	preussi	58.0		PAN
758	Primates	Cercopithecidae	Piliocolobus	tholloni	57.0	60.0	PAN;A17
759	Primates	Cercopithecidae	Piliocolobus	rufomitratus	45	67	ADW
760	Primates	Cercopithecidae	Piliocolobus	pennantii	47	63	BUY;ARK
761	Primates	Cercopithecidae	Piliocolobus	kirkii	45	65	EOM
762	Primates	Cercopithecidae	Piliocolobus	gordonorum	46	70	ARK
763	Primates	Cercopithecidae	Piliocolobus	foai	45.5	70.0	A17
764	Primates	Cercopithecidae	Piliocolobus	tephrosceles			
765	Primates	Cercopithecidae	Piliocolobus	badius	45	69	ARK;DAM
766	Primates	Cercopithecidae	Presbytis	frontata	42	60	EOM
767	Primates	Cercopithecidae	Presbytis	thomasi	42	62	ADW
768	Primates	Cercopithecidae	Presbytis	siamensis	41	61	EOM
769	Primates	Cercopithecidae	Presbytis	rubicunda	41	57	DAM
770	Primates	Cercopithecidae	Presbytis	potenziani	44	58	EOM
771	Primates	Cercopithecidae	Presbytis	natunae			
772	Primates	Cercopithecidae	Presbytis	hosei	48	56	ARK
773	Primates	Cercopithecidae	Presbytis	femoralis	43	60	EOM
774	Primates	Cercopithecidae	Presbytis	chrysomelas			
775	Primates	Cercopithecidae	Presbytis	comata	42	60	EOM
776	Primates	Cercopithecidae	Presbytis	melalophos	42	59	EOM
777	Primates	Cercopithecidae	Procolobus	verus	38	54	DAM
778	Primates	Cercopithecidae	Pygathrix	nigripes	50	72	EOM
779	Primates	Cercopithecidae	Pygathrix	nemaeus	52	76.2	EOM;ADW
780	Primates	Cercopithecidae	Pygathrix	cinerea			
781	Primates	Cercopithecidae	Rhinopithecus	brelichi	64	73	EOM
782	Primates	Cercopithecidae	Rhinopithecus	bieti	51	83	EOM
783	Primates	Cercopithecidae	Rhinopithecus	avunculus	51	65	EOM
784	Primates	Cercopithecidae	Rhinopithecus	roxellana	47	78	EOM
785	Primates	Cercopithecidae	Semnopithecus	priam			
786	Primates	Cercopithecidae	Semnopithecus	ajax			
787	Primates	Cercopithecidae	Semnopithecus	hypoleucus	65.5		PAN
788	Primates	Cercopithecidae	Semnopithecus	hector			
789	Primates	Cercopithecidae	Semnopithecus	entellus	40	80	DAM;SIK
790	Primates	Cercopithecidae	Semnopithecus	schistaceus	62	83	CHN;SIK
791	Primates	Cercopithecidae	Semnopithecus	dussumieri			
792	Primates	Cercopithecidae	Simias	concolor	45	57	EOM;SIM
793	Primates	Cercopithecidae	Trachypithecus	geei	49	72	EOM
794	Primates	Cercopithecidae	Trachypithecus	shorridgei	60	75	FRA
795	Primates	Cercopithecidae	Trachypithecus	poliocephalus	47	71	ARK;CHN
796	Primates	Cercopithecidae	Trachypithecus	pileatus	49	71	EOM;DAM
797	Primates	Cercopithecidae	Trachypithecus	phayrei	44	62	DAM;FRA
798	Primates	Cercopithecidae	Trachypithecus	obscurus	42	70	EOM;ECA
799	Primates	Cercopithecidae	Trachypithecus	laotum	46	53	EOM;DAM
800	Primates	Cercopithecidae	Trachypithecus	germaini	49	59	ARK

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
801	Primates	Cercopithecidae	Trachypithecus	francoisi	40	76	ADW
802	Primates	Cercopithecidae	Trachypithecus	ebenus	60	70	FRA
803	Primates	Cercopithecidae	Trachypithecus	delacouri	57	73	FRA
804	Primates	Cercopithecidae	Trachypithecus	cristatus	41	56	ECA;ADW
805	Primates	Cercopithecidae	Trachypithecus	barbei	43	70	EOM;FRA
806	Primates	Cercopithecidae	Trachypithecus	auratus	43	65	EOM
807	Primates	Cercopithecidae	Trachypithecus	hatinhensis	50	66	FRA
808	Primates	Cercopithecidae	Trachypithecus	vetulus	45	65	ARK
809	Primates	Cercopithecidae	Trachypithecus	johnii	49	78.0	ARK;BRM
810	Primates	Hylobatidae	Bunopithecus	hoolock	45	90	EOM;CHN
811	Primates	Hylobatidae	Hylobates	albibarbis			
812	Primates	Hylobatidae	Hylobates	klossii	44	64	ADW;EOM
813	Primates	Hylobatidae	Hylobates	agilis	42	64	THA;EOM
814	Primates	Hylobatidae	Hylobates	muelleri	42	64	ECA;EOM
815	Primates	Hylobatidae	Hylobates	moloch	45	65	EOM;ARK
816	Primates	Hylobatidae	Hylobates	lar	40	64	ECA;EOM
817	Primates	Hylobatidae	Hylobates	pileatus	44	65	ADW;THA
818	Primates	Hylobatidae	Nomascus	concolor	43	64	CHN;EOM
819	Primates	Hylobatidae	Nomascus	siki			
820	Primates	Hylobatidae	Nomascus	gabriellae			
821	Primates	Hylobatidae	Nomascus	leucogenys	45	64	EOM
822	Primates	Hylobatidae	Nomascus	hainanus	48	54	CHN
823	Primates	Hylobatidae	Sympalangus	syndactylus	71	90	ADW;EOM
824	Primates	Hominidae	Gorilla	gorilla	159.4	166	PAN;IRI
825	Primates	Hominidae	Gorilla	beringei			
826	Primates	Hominidae	Homo	sapiens			
827	Primates	Hominidae	Pan	paniscus	70	83	ARK
828	Primates	Hominidae	Pan	troglodytes	63.5	94	ARK
829	Primates	Hominidae	Pongo	abelii	78	97	EOM
830	Primates	Hominidae	Pongo	pygmaeus	77	96	MSA
831	Primates	Tarsiidae	Tarsius	pelengensis	13.6		BRM
832	Primates	Tarsiidae	Tarsius	pumilus	8.0	11.1	ADW
833	Primates	Tarsiidae	Tarsius	sangirensis			
834	Primates	Tarsiidae	Tarsius	syrichta	8	16	DAM
835	Primates	Tarsiidae	Tarsius	bancanus	8	16	ADW
836	Primates	Tarsiidae	Tarsius	dentatus	11.5	12.5	ARK
837	Primates	Tarsiidae	Tarsius	tarsier	8	16	DAM
838	Rodentia	Aplodontiidae	Aplodontia	rufa	28	47	MSA;BRA
839	Rodentia	Sciuridae	Ratufa	affinis	33.5	38	HAY;ECA
840	Rodentia	Sciuridae	Ratufa	bicolor	31.9	46	PAN;MOO
841	Rodentia	Sciuridae	Ratufa	indica	25.4	45.7	ADW
842	Rodentia	Sciuridae	Ratufa	macroura	25	45	ARK
843	Rodentia	Sciuridae	Sciurus	pusillus	8.0	11.2	ANT;PAN
844	Rodentia	Sciuridae	Microsciurus	alfari	10.8	14.8	FGC;A32
845	Rodentia	Sciuridae	Microsciurus	santanderensis	13.3	15.0	HAY
846	Rodentia	Sciuridae	Microsciurus	mimulus	12.0	15.3	A32
847	Rodentia	Sciuridae	Microsciurus	flaviventer	11.4	16.7	PAD;HIC
848	Rodentia	Sciuridae	Rheithrodontomys	macrotis	33.4	40.7	HAY;PAN
849	Rodentia	Sciuridae	Sciurus	carolinensis	20	31.5	BRA
850	Rodentia	Sciuridae	Sciurus	nayaritensis	25.8	31.5	MSA

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
851	Rodentia	Sciuridae	Sciurus	niger	22.9	36.8	A58;MSA
852	Rodentia	Sciuridae	Sciurus	oculatus	24.9	35.2	HAY;MSA
853	Rodentia	Sciuridae	Sciurus	variegatoides	22.5	30.0	G12;FGC
854	Rodentia	Sciuridae	Sciurus	vulgaris	18	29.3	KRY
855	Rodentia	Sciuridae	Sciurus	colliae	23.3	27.8	ANX;MSA
856	Rodentia	Sciuridae	Sciurus	aureogaster	20.0	31.0	A38;FGC
857	Rodentia	Sciuridae	Sciurus	arizonensis	24.4	32.1	MSA
858	Rodentia	Sciuridae	Sciurus	yucatanensis	20.0	32.2	FGC
859	Rodentia	Sciuridae	Sciurus	allenii	23.3	26.7	MSA;HAY
860	Rodentia	Sciuridae	Sciurus	lis	19.0	19.7	HAY
861	Rodentia	Sciuridae	Sciurus	deppei	17.2	25.6	GWO
862	Rodentia	Sciuridae	Sciurus	aberti	15.7	32.9	AND;MSA
863	Rodentia	Sciuridae	Sciurus	stramineus	22.0	32.0	A38
864	Rodentia	Sciuridae	Sciurus	richmondi	16.0	21.8	FGC
865	Rodentia	Sciuridae	Sciurus	pucheranii	14.9	18.4	A38
866	Rodentia	Sciuridae	Sciurus	sanborni	16.4	17.5	HAY
867	Rodentia	Sciuridae	Sciurus	gilvigularis	15.5	17.7	A38
868	Rodentia	Sciuridae	Sciurus	granatensis	17.8	26.8	A38;A46
869	Rodentia	Sciuridae	Sciurus	ignitus	14.0	22.0	ANB
870	Rodentia	Sciuridae	Sciurus	aestuans	16.0	21.7	RIH;A38
871	Rodentia	Sciuridae	Sciurus	anomalus	18	25	KRY
872	Rodentia	Sciuridae	Sciurus	flammifer	25.4	28.9	A38
873	Rodentia	Sciuridae	Sciurus	pyrrhinus	22.9	25.3	HAY
874	Rodentia	Sciuridae	Sciurus	griseus	23.3	32.3	HAY;MSA
875	Rodentia	Sciuridae	Sciurus	spadiceus	23.0	27.3	ANB;A38
876	Rodentia	Sciuridae	Sciurus	igniventris	24.2	28.0	PAD;A38
877	Rodentia	Sciuridae	Syntheosciurus	brochus	13.4	18.5	MSA;FGC
878	Rodentia	Sciuridae	Tamiasciurus	hudsonicus	16.5	23.0	ARK
879	Rodentia	Sciuridae	Tamiasciurus	mearnsi	20.1		HAY
880	Rodentia	Sciuridae	Tamiasciurus	douglasii	16.8	20.3	MSA;A72
881	Rodentia	Sciuridae	Aeretes	melanopterus	27.5	35.5	CHN
882	Rodentia	Sciuridae	Aeromys	thomasi	30.0	36.3	HAY
883	Rodentia	Sciuridae	Aeromys	tephromelas	37.5	42	HAY;ECA
884	Rodentia	Sciuridae	Belomys	pearsonii	16.0	26.0	CHN
885	Rodentia	Sciuridae	Biswamoyopterus	biswasi	40.5		HAY
886	Rodentia	Sciuridae	Eoglaucomys	fimbriatus	24	31	ADW
887	Rodentia	Sciuridae	Eupetaurus	cinereus	41.9	61	HAY;ADW
888	Rodentia	Sciuridae	Glaucomys	volans	10.0	17.5	FGA;A42
889	Rodentia	Sciuridae	Glaucomys	sabrinus	14.8	20.7	MSA
890	Rodentia	Sciuridae	Hylopetes	winstoni	14.2		HAY
891	Rodentia	Sciuridae	Hylopetes	spadiceus	14.2	18.5	HAY;FRA
892	Rodentia	Sciuridae	Hylopetes	sipora	14.0		HAY
893	Rodentia	Sciuridae	Hylopetes	platyurus	11.5	13.5	FRA
894	Rodentia	Sciuridae	Hylopetes	phayrei	14.4	17.7	CHN;PAN
895	Rodentia	Sciuridae	Hylopetes	nigripes	22.0	28.3	PAN;HAY
896	Rodentia	Sciuridae	Hylopetes	lepidus	11.5	14.2	HAY;PAN
897	Rodentia	Sciuridae	Hylopetes	alboniger	17.5	24.7	CHN
898	Rodentia	Sciuridae	Hylopetes	bartelsi	13.9	19.7	HAY
899	Rodentia	Sciuridae	Iomys	horsfieldii	18.5	19.2	PAN;HAY
900	Rodentia	Sciuridae	Iomys	sipora	18.0	19.6	HAY

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
901	Rodentia	Sciuridae	Petaurillus	hosei	6.8	8.9	ADW
902	Rodentia	Sciuridae	Petaurillus	kinlochii	8.8	9.0	HAY
903	Rodentia	Sciuridae	Petaurillus	emiliae	7.0		HAY
904	Rodentia	Sciuridae	Petaurista	leucogenys	30.5	58.5	ADW
905	Rodentia	Sciuridae	Petaurista	alborufus	35	58	CHN
906	Rodentia	Sciuridae	Petaurista	elegans	29.6	37.5	CHN
907	Rodentia	Sciuridae	Petaurista	magnificus	28.2	44.3	HAY
908	Rodentia	Sciuridae	Petaurista	petaurista	34.2	52	LPF;ECA
909	Rodentia	Sciuridae	Petaurista	philippensis	41	61	CHN
910	Rodentia	Sciuridae	Petaurista	xanthotis	35.3	44.1	HAY
911	Rodentia	Sciuridae	Petaurista	nobilis	41.8	49.0	HAY
912	Rodentia	Sciuridae	Petinomys	crinitus	24.9	31.0	PAN;HAY
913	Rodentia	Sciuridae	Petinomys	vordermanni	9.5	16.7	FRA;PAN
914	Rodentia	Sciuridae	Petinomys	setosus	10.5	13.5	FRA;CRT
915	Rodentia	Sciuridae	Petinomys	sagitta			
916	Rodentia	Sciuridae	Petinomys	mindanensis	28.9	34.2	HAY
917	Rodentia	Sciuridae	Petinomys	lugens	25.0	25.8	HAY
918	Rodentia	Sciuridae	Petinomys	hageni	22.0	26.1	HAY
919	Rodentia	Sciuridae	Petinomys	fuscocapillus	32.0	33.7	HAY
920	Rodentia	Sciuridae	Petinomys	genibarbis	15.7	18.0	HAY
921	Rodentia	Sciuridae	Pteromys	momonga	15.4	17.0	HAY
922	Rodentia	Sciuridae	Pteromys	volans	13.5	20.5	GÖH
923	Rodentia	Sciuridae	Pteromyscus	pulverulentus	22	29	ADW
924	Rodentia	Sciuridae	Trogopterus	xanthipes	20.0	33.0	CHN;HAY
925	Rodentia	Sciuridae	Callosciurus	albescens	16.3	18.7	HAY
926	Rodentia	Sciuridae	Callosciurus	caniceps	18.5	39.1	MOO;CHN
927	Rodentia	Sciuridae	Callosciurus	baluensis	20.4	24.4	PAN;HAY
928	Rodentia	Sciuridae	Callosciurus	erythraeus	17.0	35.5	MOO
929	Rodentia	Sciuridae	Callosciurus	phayrei	19.0	23.7	MOO;HAY
930	Rodentia	Sciuridae	Callosciurus	prevostii	20	27	THA
931	Rodentia	Sciuridae	Callosciurus	pygerythrus	18.0	23.0	MOO
932	Rodentia	Sciuridae	Callosciurus	quinquestriatus	20.0	26.0	CHN;MOO
933	Rodentia	Sciuridae	Callosciurus	notatus	15.2	23.8	ADW;HAY
934	Rodentia	Sciuridae	Callosciurus	orestes	14.8	20.4	HAY;PAN
935	Rodentia	Sciuridae	Callosciurus	nigrovittatus	18.4	24	HAY;ECA
936	Rodentia	Sciuridae	Callosciurus	adamsi	15.7	20.4	HAY;PAN
937	Rodentia	Sciuridae	Callosciurus	melanogaster	20.9	21.3	HAY
938	Rodentia	Sciuridae	Callosciurus	inornatus	19.1	29.1	HAY;CHN
939	Rodentia	Sciuridae	Callosciurus	finlaysonii	18.8	24.0	MOO
940	Rodentia	Sciuridae	Sundasciurus	hippurus	21.0	29	THA;ECA
941	Rodentia	Sciuridae	Sundasciurus	mindanensis	19.4	21.0	HAY;PAN
942	Rodentia	Sciuridae	Sundasciurus	moellendorffii	20.0	21.0	HAY;PAN
943	Rodentia	Sciuridae	Sundasciurus	rabori	16.3	21.0	HAY;PAN
944	Rodentia	Sciuridae	Sundasciurus	juvencus	19.6	21.0	HAY;PAN
945	Rodentia	Sciuridae	Sundasciurus	hoogstraali	20.2	21.0	HAY;PAN
946	Rodentia	Sciuridae	Sundasciurus	davensis	19.8	21.0	HAY;PAN
947	Rodentia	Sciuridae	Sundasciurus	philippinensis	19.2	21.0	HAY;PAN
948	Rodentia	Sciuridae	Sundasciurus	steerii	19.9	21.0	HAY;PAN
949	Rodentia	Sciuridae	Sundasciurus	samarensis	18.5	21.0	HAY;PAN
950	Rodentia	Sciuridae	Sundasciurus	jentinki	12.7	13.1	HAY

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
951	Rodentia	Sciuridae	Sundasciurus	brookei	15.2	18.6	HAY;PAN
952	Rodentia	Sciuridae	Sundasciurus	tenuis	11.5	16.8	FRA;PAN
953	Rodentia	Sciuridae	Sundasciurus	lowii	13.0	15	HAY;ECA
954	Rodentia	Sciuridae	Sundasciurus	fraterculus	11.6	11.9	HAY
955	Rodentia	Sciuridae	Dremomys	pyrrhomerus	16.5	21.5	MOO
956	Rodentia	Sciuridae	Dremomys	rufigenis	16.8	23.5	MOO;HUU
957	Rodentia	Sciuridae	Dremomys	pernyi	17.0	23.0	MOO
958	Rodentia	Sciuridae	Dremomys	lokriah	16.5	20.5	CHN
959	Rodentia	Sciuridae	Dremomys	gularis	18.7	23.0	CHN
960	Rodentia	Sciuridae	Dremomys	everetti	15.6	20.4	HAY;PAN
961	Rodentia	Sciuridae	Exilisciurus	whiteheadi	8.3	8.8	PAN;HAY
962	Rodentia	Sciuridae	Exilisciurus	exilis	6.9	8.3	HAY;PAN
963	Rodentia	Sciuridae	Exilisciurus	concinnus	8.6	9.4	HAY;HKT
964	Rodentia	Sciuridae	Funambulus	sublineatus	11.0	14.0	HAY;MOO
965	Rodentia	Sciuridae	Funambulus	palmarum	13.8	15.4	MOO
966	Rodentia	Sciuridae	Funambulus	layardi	14.4	15.5	HAY
967	Rodentia	Sciuridae	Funambulus	tristriatus	14.7	19.5	MOO
968	Rodentia	Sciuridae	Funambulus	pennantii	11.5	18	ADW
969	Rodentia	Sciuridae	Glyphotes	simus	9.4	14.4	MO9
970	Rodentia	Sciuridae	Hyosciurus	ileile	19.6	25.0	MDS
971	Rodentia	Sciuridae	Hyosciurus	heinrichi	19.5	24.0	MDS
972	Rodentia	Sciuridae	Lariscus	insignis	17.7	23	PAN;ECA
973	Rodentia	Sciuridae	Lariscus	niobe	19.0	19.5	HAY
974	Rodentia	Sciuridae	Lariscus	obscurus	18.7	20.2	HAY
975	Rodentia	Sciuridae	Lariscus	hosei	18.1	18.9	HAY
976	Rodentia	Sciuridae	Menetes	berdmorei	16.0	21.0	MOO
977	Rodentia	Sciuridae	Nannosciurus	melanotis	7.4	9.5	HAY;PAN
978	Rodentia	Sciuridae	Prosciurillus	weberi	16.0	18.7	HAY;MDS
979	Rodentia	Sciuridae	Prosciurillus	rosenbergii	19.0		HAY
980	Rodentia	Sciuridae	Prosciurillus	abstrusus	11.5	14.8	MDS
981	Rodentia	Sciuridae	Prosciurillus	murinus	10.2	15.0	MDS
982	Rodentia	Sciuridae	Prosciurillus	leucomus	15.1	19.5	MDS
983	Rodentia	Sciuridae	Rhinosciurus	laticaudatus	18.5	24.2	ADW
984	Rodentia	Sciuridae	Rubrisciurus	rubriventer	25	31	ARK
985	Rodentia	Sciuridae	Tamiops	rodolphii	10.0	12.5	FRA
986	Rodentia	Sciuridae	Tamiops	swinhoei	10	16.4	ADW;CHN
987	Rodentia	Sciuridae	Tamiops	mccllellandii	10.0	12.5	CHN;MOO
988	Rodentia	Sciuridae	Tamiops	maritimus	10.0	14.5	MOO
989	Rodentia	Sciuridae	Atlantoxerus	getulus	17.1	18.9	HAY
990	Rodentia	Sciuridae	Spermophilopsis	leptodactylus	22.6	27.8	PAN;IRI
991	Rodentia	Sciuridae	Xerus	rutilus	20	26.8	MSA;HAY
992	Rodentia	Sciuridae	Xerus	erythropus	19.6	29.7	GRD;A18
993	Rodentia	Sciuridae	Xerus	inaurus	23.0	28.2	SAS;MSA
994	Rodentia	Sciuridae	Xerus	princeps	20	33	KIF
995	Rodentia	Sciuridae	Epixerus	ebii	26	29	KIF
996	Rodentia	Sciuridae	Funisciurus	substriatus	15	18.4	KIF;PAN
997	Rodentia	Sciuridae	Funisciurus	pyrropus	11.9	26.6	A18;KIF
998	Rodentia	Sciuridae	Funisciurus	leucogenys	17.0	21.5	KIF
999	Rodentia	Sciuridae	Funisciurus	lemniscatus	15	18	KIF
1000	Rodentia	Sciuridae	Funisciurus	carruthersi	20	26	KIF

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
1001	Rodentia	Sciuridae	Funisciurus	conicus	14.5	25.3	KIF;A18
1002	Rodentia	Sciuridae	Funisciurus	anerythrus	16	23	KIF
1003	Rodentia	Sciuridae	Funisciurus	isabella	15.0	18.0	KIF
1004	Rodentia	Sciuridae	Funisciurus	bayonii	16	25.1	KIF;HAY
1005	Rodentia	Sciuridae	Heliosciurus	undulatus	20.0	25.0	KIF
1006	Rodentia	Sciuridae	Heliosciurus	ruwenzorii	20.0	26.0	KIF
1007	Rodentia	Sciuridae	Heliosciurus	mutabilis	20.0	28.0	KIF
1008	Rodentia	Sciuridae	Heliosciurus	gambianus	15.3	21.8	AFR;HAY
1009	Rodentia	Sciuridae	Heliosciurus	punctatus	18.2	19.0	HAY
1010	Rodentia	Sciuridae	Heliosciurus	rufobrachium	20	27	KIF
1011	Rodentia	Sciuridae	Myosciurus	pumilio	6.0	9.4	MSA
1012	Rodentia	Sciuridae	Paraxerus	ochraceus	13	18.5	KIF
1013	Rodentia	Sciuridae	Paraxerus	cooperi	19.5	20.0	HAY
1014	Rodentia	Sciuridae	Paraxerus	vexillarius	21.5	23.9	AFR;HAY
1015	Rodentia	Sciuridae	Paraxerus	vincenti	20.8	21.5	HAY
1016	Rodentia	Sciuridae	Paraxerus	lucifer	20	33	KIF
1017	Rodentia	Sciuridae	Paraxerus	flavovittis	16	20	KIF
1018	Rodentia	Sciuridae	Paraxerus	palliatus	17	25	KIF
1019	Rodentia	Sciuridae	Paraxerus	boehmi	10	15	KIF
1020	Rodentia	Sciuridae	Paraxerus	alexandri	9.0	12.0	KIF
1021	Rodentia	Sciuridae	Paraxerus	poensis	14.4	19.2	A18;PAN
1022	Rodentia	Sciuridae	Paraxerus	cepapi	13	21.5	KIF;AFR
1023	Rodentia	Sciuridae	Protoxerus	stangeri	22	40	KIF
1024	Rodentia	Sciuridae	Protoxerus	aubinnii	23	27	KIF
1025	Rodentia	Sciuridae	Sciurotamias	davidianus	17.5	26.4	A41;HAY
1026	Rodentia	Sciuridae	Sciurotamias	forresti	19.4	25.0	CHN
1027	Rodentia	Sciuridae	Spermophilus	pygmaeus	15.5	23.0	GWK;GÖH
1028	Rodentia	Sciuridae	Spermophilus	mollis	16.1	17.3	HAY
1029	Rodentia	Sciuridae	Spermophilus	canus	15.3	17.1	HAY
1030	Rodentia	Sciuridae	Spermophilus	citellus	14.6	26.1	HAY;IRI
1031	Rodentia	Sciuridae	Spermophilus	beldingi	19.6	23.6	MSA;PAN
1032	Rodentia	Sciuridae	Spermophilus	dauricus	16.5	26.8	CHN
1033	Rodentia	Sciuridae	Spermophilus	armatus	21.7	22.5	MSA;HAY
1034	Rodentia	Sciuridae	Spermophilus	elegans	18.4	21.6	A70;HAY
1035	Rodentia	Sciuridae	Spermophilus	brunneus	17.0	19.3	MSA
1036	Rodentia	Sciuridae	Spermophilus	musicus	22.1	23.0	HAY
1037	Rodentia	Sciuridae	Spermophilus	pallidicauda	19.8	23.8	CHN;A76
1038	Rodentia	Sciuridae	Spermophilus	ralli	20.0	24.0	CHN
1039	Rodentia	Sciuridae	Spermophilus	relictus	23.6	24.2	HAY
1040	Rodentia	Sciuridae	Spermophilus	richardsonii	21.2	23.2	MSA;HAY
1041	Rodentia	Sciuridae	Spermophilus	suslicus	18.0	22.0	HAY;GÖH
1042	Rodentia	Sciuridae	Spermophilus	alashanicus	18.3	22.3	TDS;HAY
1043	Rodentia	Sciuridae	Spermophilus	washingtoni	15.3	18.4	MSA;HAY
1044	Rodentia	Sciuridae	Spermophilus	xanthoprymnus	17.0	26.7	KRY;HAY
1045	Rodentia	Sciuridae	Spermophilus	townsendii	13.5	19.9	MSA
1046	Rodentia	Sciuridae	Spermophilus	variegatus	24.1	32.3	A50;A47
1047	Rodentia	Sciuridae	Spermophilus	beecheyi	24.7	27.3	HAY
1048	Rodentia	Sciuridae	Spermophilus	atricapillus	22.5	30.0	MSA;HAY
1049	Rodentia	Sciuridae	Spermophilus	mexicanus	13.6	20.5	BAU
1050	Rodentia	Sciuridae	Spermophilus	perotensis	17.8	19.3	HAY;CMX

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
1051	Rodentia	Sciuridae	Spermophilus	tridecemlineatus	11	20.2	MSA;A33
1052	Rodentia	Sciuridae	Spermophilus	spilosoma	13.4	17.5	AND
1053	Rodentia	Sciuridae	Spermophilus	tereticaudus	14.4	17.3	MSA;A11
1054	Rodentia	Sciuridae	Spermophilus	mohavensis	15.3	16.2	MSA;HAY
1055	Rodentia	Sciuridae	Spermophilus	franklinii	23.2	25.9	HAY;MSA
1056	Rodentia	Sciuridae	Spermophilus	saturatus	18.8	19.9	HAY;IRI
1057	Rodentia	Sciuridae	Spermophilus	lateralis	17.4	21.4	MSA
1058	Rodentia	Sciuridae	Spermophilus	madrensis	16.8	17.5	HAY;MSA
1059	Rodentia	Sciuridae	Spermophilus	columbianus	21.3	29.6	ALA;PAN
1060	Rodentia	Sciuridae	Spermophilus	undulatus	17.9	31.5	TDS;CHN
1061	Rodentia	Sciuridae	Spermophilus	adocetus	12.4	20.3	MSA
1062	Rodentia	Sciuridae	Spermophilus	brevicauda	16.5	28.5	CHN;HAY
1063	Rodentia	Sciuridae	Spermophilus	fulvus	22.4	32.3	HAY
1064	Rodentia	Sciuridae	Spermophilus	parryii	21.5	29.9	ARK;HAY
1065	Rodentia	Sciuridae	Spermophilus	annulatus	19.0	26.5	MEX
1066	Rodentia	Sciuridae	Spermophilus	major	26.0	28.1	HAY
1067	Rodentia	Sciuridae	Spermophilus	erythrogenys	18.8	21.5	HAY
1068	Rodentia	Sciuridae	Ammospermophilus	interpres	11.5	15.2	AND;CMX
1069	Rodentia	Sciuridae	Ammospermophilus	insularis	13.7	15.7	HAY;MSA
1070	Rodentia	Sciuridae	Ammospermophilus	harrisii	13.7	17.8	MSA
1071	Rodentia	Sciuridae	Ammospermophilus	nelsoni	15.6	18.9	HAY;MSA
1072	Rodentia	Sciuridae	Ammospermophilus	leucurus	13.8	16.2	FRY
1073	Rodentia	Sciuridae	Cynomys	ludovicianus	27.5	31.5	CMX
1074	Rodentia	Sciuridae	Cynomys	mexicanus	20.1	34.1	MSA;PAN
1075	Rodentia	Sciuridae	Cynomys	leucurus	29.9	31.1	HAY
1076	Rodentia	Sciuridae	Cynomys	gunnisoni	26.9	31.5	HAY;MSA
1077	Rodentia	Sciuridae	Cynomys	parvidens	27.0	30	HAY;MSA
1078	Rodentia	Sciuridae	Marmota	monax	30	60	BRA
1079	Rodentia	Sciuridae	Marmota	himalayana	55.0	60.8	HAY
1080	Rodentia	Sciuridae	Marmota	marmota	43.8	60	HAY;BRA
1081	Rodentia	Sciuridae	Marmota	camtschatica	50.8	56.7	HAY
1082	Rodentia	Sciuridae	Marmota	sibirica	39.3	41.0	HAY
1083	Rodentia	Sciuridae	Marmota	caudata	42.6	57.0	CHN
1084	Rodentia	Sciuridae	Marmota	broweri	42.5	55.1	HAY
1085	Rodentia	Sciuridae	Marmota	bobak	48.0	65.0	GÖH
1086	Rodentia	Sciuridae	Marmota	baibacina	46.0	65.0	CHN
1087	Rodentia	Sciuridae	Marmota	menzbieri	42.3	53.8	HAY
1088	Rodentia	Sciuridae	Marmota	olympus	49	52.1	MSA;HAY
1089	Rodentia	Sciuridae	Marmota	vancouverensis	46.2	47.5	HAY;MSA
1090	Rodentia	Sciuridae	Marmota	flaviventris	34	48	MSA
1091	Rodentia	Sciuridae	Marmota	caligata	47.2	58.2	ALA
1092	Rodentia	Sciuridae	Tamias	striatus	14.6	16.6	HAY;MEA
1093	Rodentia	Sciuridae	Tamias	sibiricus	12	17	BOF
1094	Rodentia	Sciuridae	Tamias	quadrimaculatus	12.5	15.0	MSA
1095	Rodentia	Sciuridae	Tamias	quadrivittatus	10.2	14.0	A34;FGA
1096	Rodentia	Sciuridae	Tamias	ruficaudus	12.2	12.7	MSA
1097	Rodentia	Sciuridae	Tamias	rufus	9.3	14.8	MSA
1098	Rodentia	Sciuridae	Tamias	senex	11.6	17.3	MSA
1099	Rodentia	Sciuridae	Tamias	sonomae	12.0	14.0	MSA;SCL

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
1100	Rodentia	Sciuridae	Tamias	umbrinus	11.9	13.5	FGA
1101	Rodentia	Sciuridae	Tamias	siskiyou	14.4	14.7	HAY
1102	Rodentia	Sciuridae	Tamias	panamintinus	10.3	12.7	MSA
1103	Rodentia	Sciuridae	Tamias	townsendii	13.1	14.7	A51;SCL
1104	Rodentia	Sciuridae	Tamias	cinereicollis	11.5	13.3	A11;MSA
1105	Rodentia	Sciuridae	Tamias	amoenus	10.8	12.9	MSA
1106	Rodentia	Sciuridae	Tamias	bulleri	11.9	14.7	MSA
1107	Rodentia	Sciuridae	Tamias	palmeri	11.1	14.0	FGA
1108	Rodentia	Sciuridae	Tamias	speciosus	11.9	12.8	A51;SCL
1109	Rodentia	Sciuridae	Tamias	alpinus	8.7	11.5	MSA
1110	Rodentia	Sciuridae	Tamias	dorsalis	9.0	14.2	AND
1111	Rodentia	Sciuridae	Tamias	durangae	12.1	22.8	MSA;HAY
1112	Rodentia	Sciuridae	Tamias	merriami	12.5	14.8	A33
1113	Rodentia	Sciuridae	Tamias	minimus	10.1	13.1	IRI;MSA
1114	Rodentia	Sciuridae	Tamias	obscurus	11.4	13.5	MSA
1115	Rodentia	Sciuridae	Tamias	ochrogenys	13.6	16.7	MSA
1116	Rodentia	Sciuridae	Tamias	canipes	11.8	15.6	MSA
1117	Rodentia	Gliridae	Graphiurus	lorrainaeus	6.4	14.9	HA2;AFR
1118	Rodentia	Gliridae	Graphiurus	surdus	7.4	11.0	HIL
1119	Rodentia	Gliridae	Graphiurus	rupicola	10.5	11.9	KIM
1120	Rodentia	Gliridae	Graphiurus	platyops	7.4	13	BOT;SAS
1121	Rodentia	Gliridae	Graphiurus	ocularis	11.7	16.5	KIM;AFR
1122	Rodentia	Gliridae	Graphiurus	murinus	6.8	16.5	BOT;ADW
1123	Rodentia	Gliridae	Graphiurus	kelleni	6.2	10.3	WEB;GRD
1124	Rodentia	Gliridae	Graphiurus	johnstoni	6.9	8.4	KIM
1125	Rodentia	Gliridae	Graphiurus	christyi	8.0	17	AFR;HILG
1126	Rodentia	Gliridae	Graphiurus	angolensis	9.6	10.8	HIL
1127	Rodentia	Gliridae	Graphiurus	microtis	5.5	11.5	AFR;KIM
1128	Rodentia	Gliridae	Graphiurus	monardi	13.0	16.0	HIL
1129	Rodentia	Gliridae	Graphiurus	nagtglasii	12.0	15.5	KIM
1130	Rodentia	Gliridae	Graphiurus	crassicaudatus	7.7	10.0	HIL2
1131	Rodentia	Gliridae	Chaetocauda	sichuanensis	9.0	9.1	WIK
1132	Rodentia	Gliridae	Dryomys	nitedula	5.6	13	CAG;ADW
1133	Rodentia	Gliridae	Dryomys	laniger	8.1	10.5	HLD;PAN
1134	Rodentia	Gliridae	Dryomys	niethammeri	9.9	10.3	HLD
1135	Rodentia	Gliridae	Eliomys	melanurus	10	18.0	ARK
1136	Rodentia	Gliridae	Eliomys	munbyanus	10.0	11.7	ESP;KIM
1137	Rodentia	Gliridae	Eliomys	querinus	9.4	17.5	CAL;ADW
1138	Rodentia	Gliridae	Muscardinus	avellanarius	6.0	9.2	ARK;KRY
1139	Rodentia	Gliridae	Myomimus	setzeri	6.1	12.1	ARK
1140	Rodentia	Gliridae	Myomimus	personatus			
1141	Rodentia	Gliridae	Myomimus	roachi	8.6	13.6	KRY
1142	Rodentia	Gliridae	Selevinia	betpakdalaensis	7	9.5	WIK
1143	Rodentia	Gliridae	Glirulus	japonicus	6.5	8.0	ARK
1144	Rodentia	Gliridae	Glis	glis	9.6	21.1	CAG;KRY
1145	Rodentia	Geomyidae	Cratogeomys	neglectus	15.5	25	MSA
1146	Rodentia	Geomyidae	Cratogeomys	tylorhinus	15.9	27.6	RUS
1147	Rodentia	Geomyidae	Cratogeomys	merriami	14.0	28.5	NAM;RUS
1148	Rodentia	Geomyidae	Cratogeomys	gymnurus	14.0	27.9	NAM;RUS
1149	Rodentia	Geomyidae	Cratogeomys	fumosus	18.4	25.7	MEX;CMX

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
1150	Rodentia	Geomysidae	Cratogeomys	goldmani	12.3	13.5	NAM
1151	Rodentia	Geomysidae	Cratogeomys	castanops	14.4	25.5	RUS
1152	Rodentia	Geomysidae	Cratogeomys	zinseri	11.6	26	CMX;NAM
1153	Rodentia	Geomysidae	Geomys	arenarius	16.2	25.3	CMX;SCL
1154	Rodentia	Geomysidae	Geomys	knoxjonesi	14.6	19.6	MSA;AND
1155	Rodentia	Geomysidae	Geomys	texensis	14.3	19.7	A58;MSA
1156	Rodentia	Geomysidae	Geomys	tropicalis	13.0	24.0	NAM
1157	Rodentia	Geomysidae	Geomys	personatus	12.7	27.5	MSA;SCL
1158	Rodentia	Geomysidae	Geomys	bursarius	17.7	35.7	PAN;ADW
1159	Rodentia	Geomysidae	Geomys	pinetis	14.5	20.0	ADW
1160	Rodentia	Geomysidae	Geomys	breviceps	13.8	15.5	MSA
1161	Rodentia	Geomysidae	Geomys	attwateri	14.1	16.5	MSA
1162	Rodentia	Geomysidae	Orthogeomys	grandis	22.5	29.5	ADW;GWO
1163	Rodentia	Geomysidae	Orthogeomys	cuniculus	10.0	35.0	NAM
1164	Rodentia	Geomysidae	Orthogeomys	hispidus	18.0	27.5	NAM;GWO
1165	Rodentia	Geomysidae	Orthogeomys	lanius	18.0	26.6	NAM
1166	Rodentia	Geomysidae	Orthogeomys	cherriei	17.0	27.5	FGC;A24
1167	Rodentia	Geomysidae	Orthogeomys	dariensis	20.5	26.0	FGC
1168	Rodentia	Geomysidae	Orthogeomys	heterodus	21.5	31.2	FGC;G12
1169	Rodentia	Geomysidae	Orthogeomys	matagalpae	16.0	24.0	FGC
1170	Rodentia	Geomysidae	Orthogeomys	thaeleri			
1171	Rodentia	Geomysidae	Orthogeomys	underwoodi	17.2	19.9	FGC
1172	Rodentia	Geomysidae	Orthogeomys	cavator	21.0	29.0	G12;GW5
1173	Rodentia	Geomysidae	Pappogeomys	alcorni	14.7	16.5	RUS
1174	Rodentia	Geomysidae	Pappogeomys	bulleri	12.0	18.8	RUS
1175	Rodentia	Geomysidae	Thomomys	clusius	13.1	13.5	A70
1176	Rodentia	Geomysidae	Thomomys	idahoensis	11.7	13.3	IDA
1177	Rodentia	Geomysidae	Thomomys	mazama	13.8	15.6	MSA
1178	Rodentia	Geomysidae	Thomomys	monticola	15.5		A73
1179	Rodentia	Geomysidae	Thomomys	talpoides	11.5	30.5	BRA
1180	Rodentia	Geomysidae	Thomomys	bulbivorus	19.9	21	PAN;MSA
1181	Rodentia	Geomysidae	Thomomys	umbrinus	11.6	17.8	AND
1182	Rodentia	Geomysidae	Thomomys	townsendii	15.3	20.5	MSA
1183	Rodentia	Geomysidae	Thomomys	bottae	10.5	23.0	MSA;A73
1184	Rodentia	Geomysidae	Zygogeomys	trichopus	20	25	NAM
1185	Rodentia	Castoridae	Castor	canadensis	60	87.5	BRA;MSA
1186	Rodentia	Castoridae	Castor	fiber	75	120	WIKNL;ARK
1187	Rodentia	Heteromyidae	Dipodomys	nitratoides	8.8	11.5	FGA
1188	Rodentia	Heteromyidae	Dipodomys	ordii	8.3	12.7	FGA;A70
1189	Rodentia	Heteromyidae	Dipodomys	panamintinus	10.3	14.2	FGA
1190	Rodentia	Heteromyidae	Dipodomys	phillipsii	9.1	12.1	MSA
1191	Rodentia	Heteromyidae	Dipodomys	simulans	8.5	13.0	FGA
1192	Rodentia	Heteromyidae	Dipodomys	nelsoni	12.7	13.6	SCL;AND
1193	Rodentia	Heteromyidae	Dipodomys	stephensi	9.8	12.9	FGA
1194	Rodentia	Heteromyidae	Dipodomys	gravipes	12.6	13.2	MSA
1195	Rodentia	Heteromyidae	Dipodomys	venustus	11.3	13.8	FGA
1196	Rodentia	Heteromyidae	Dipodomys	spectabilis	12.6	16.4	AND;FGA
1197	Rodentia	Heteromyidae	Dipodomys	microps	10.0	12.6	FGA;IRI
1198	Rodentia	Heteromyidae	Dipodomys	merriami	7.0	11.7	AND;FGA
1199	Rodentia	Heteromyidae	Dipodomys	heermanni	9	12.6	MSA;FGA

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
1200	Rodentia	Heteromyidae	Dipodomys	elator	9.9	14.1	MSA;FGA
1201	Rodentia	Heteromyidae	Dipodomys	deserti	13.5	16.0	MSA;FGA
1202	Rodentia	Heteromyidae	Dipodomys	compactus	10.0	16.8	A48;MSA
1203	Rodentia	Heteromyidae	Dipodomys	californicus	10.8	13.2	PAN;FGA
1204	Rodentia	Heteromyidae	Dipodomys	agilis	7.0	14.0	A13;FGA
1205	Rodentia	Heteromyidae	Dipodomys	ingens	14.5	16.0	SCL;FGA
1206	Rodentia	Heteromyidae	Microdipodops	megacephalus	6.1	8.1	FGA
1207	Rodentia	Heteromyidae	Microdipodops	pallidus	6.1	8.5	FGA;SCL
1208	Rodentia	Heteromyidae	Perognathus	flavus	5.3	6.7	FRY
1209	Rodentia	Heteromyidae	Perognathus	altilonus	7.3	8.6	SCL;MSA
1210	Rodentia	Heteromyidae	Perognathus	amplus	7.0	7.1	SCL
1211	Rodentia	Heteromyidae	Perognathus	fasciatus	5.8	7.5	A70;MSA
1212	Rodentia	Heteromyidae	Perognathus	inornatus	7.0	7.5	MSA
1213	Rodentia	Heteromyidae	Perognathus	longimembris	5.7	6.8	SCL;IRI
1214	Rodentia	Heteromyidae	Perognathus	merriami	5.5	6.5	A55;AND
1215	Rodentia	Heteromyidae	Perognathus	parvus	7.8	9.5	SCL;IRI
1216	Rodentia	Heteromyidae	Perognathus	flavescens	5.7	8.0	FRY
1217	Rodentia	Heteromyidae	Chaetodipus	goldmani	8.1	9.0	MSA;AND
1218	Rodentia	Heteromyidae	Chaetodipus	pernix	6.9	7.5	MSA
1219	Rodentia	Heteromyidae	Chaetodipus	formosus	7.6	10.1	ADW
1220	Rodentia	Heteromyidae	Chaetodipus	penicillatus	6.7	8.1	A43;AND
1221	Rodentia	Heteromyidae	Chaetodipus	fallax	7.0	9.1	FGA
1222	Rodentia	Heteromyidae	Chaetodipus	eremicus	7.3	9.8	MSA
1223	Rodentia	Heteromyidae	Chaetodipus	dalquesti	6.7	7.0	NAM
1224	Rodentia	Heteromyidae	Chaetodipus	californicus	7.3	9.5	FGA
1225	Rodentia	Heteromyidae	Chaetodipus	baileyi	8.5	11.2	CMX;IRI
1226	Rodentia	Heteromyidae	Chaetodipus	artus	8.6	9.2	MSA
1227	Rodentia	Heteromyidae	Chaetodipus	arenarius	6.7	7.0	MSA
1228	Rodentia	Heteromyidae	Chaetodipus	intermedius	6.6	9.2	AND;A11
1229	Rodentia	Heteromyidae	Chaetodipus	lineatus	7.3	7.4	MSA
1230	Rodentia	Heteromyidae	Chaetodipus	hispidus	8.6	12.3	MSA
1231	Rodentia	Heteromyidae	Chaetodipus	rudinoris			
1232	Rodentia	Heteromyidae	Chaetodipus	spinatus	7.4	9.1	FGA
1233	Rodentia	Heteromyidae	Chaetodipus	nelsoni	7.3	9.5	MSA;FGA
1234	Rodentia	Heteromyidae	Heteromys	oresterus	11.0	18.3	MSA;G12
1235	Rodentia	Heteromyidae	Heteromys	teleus	12.1	14.8	HET
1236	Rodentia	Heteromyidae	Heteromys	oasicus	10.7	13.0	HEO
1237	Rodentia	Heteromyidae	Heteromys	gaumeri	9.8	14.2	MSA;FGC
1238	Rodentia	Heteromyidae	Heteromys	desmarestianus	8.2	17.3	HOM;G13
1239	Rodentia	Heteromyidae	Heteromys	australis	10.8	14.5	HET
1240	Rodentia	Heteromyidae	Heteromys	anomalus	11.5	14.7	HEO
1241	Rodentia	Heteromyidae	Heteromys	nelsoni	11.3	17.2	MSA
1242	Rodentia	Heteromyidae	Liomys	adspersus	10.8	14.5	FGC
1243	Rodentia	Heteromyidae	Liomys	irroratus	9.5	13.0	GWO;A50
1244	Rodentia	Heteromyidae	Liomys	spectabilis	10.2	13.8	SCL;MSA
1245	Rodentia	Heteromyidae	Liomys	salvini	10.0	14.0	A60;G12
1246	Rodentia	Heteromyidae	Liomys	pictus	7.2	16.0	G10;GWO
1247	Rodentia	Dipodidae	Allactaga	elater	7.5	12.3	ALH;DSM
1248	Rodentia	Dipodidae	Allactaga	major	18.0	26.5	GÖH
1249	Rodentia	Dipodidae	Allactaga	vinogradovi	12.0	13.0	SSH

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
1250	Rodentia	Dipodidae	Allactaga	severtzovi	14.5	18.5	SSH
1251	Rodentia	Dipodidae	Allactaga	firouzi	10.1	12.9	NAH
1252	Rodentia	Dipodidae	Allactaga	hotsoni	10.1	12.4	HAS;ALH
1253	Rodentia	Dipodidae	Allactaga	sibirica	12.0	18.0	A76;SSH
1254	Rodentia	Dipodidae	Allactaga	balikunica	11.5	13.2	CHN
1255	Rodentia	Dipodidae	Allactaga	bullata	10.5	14.5	AL3;CHN
1256	Rodentia	Dipodidae	Allactaga	euphratica	9.5	14.6	KRY;SSH
1257	Rodentia	Dipodidae	Allactaga	williamsi	10.7	14.5	KRY
1258	Rodentia	Dipodidae	Allactaga	tetradactyla	9.0	11.9	ADW;EGY
1259	Rodentia	Dipodidae	Allactodipus	bobrinskii	11.0	13.5	SSH
1260	Rodentia	Dipodidae	Pygeretmus	shitkovi	8.6	12.4	SSH
1261	Rodentia	Dipodidae	Pygeretmus	platyurus	7.5	11.5	SSH
1262	Rodentia	Dipodidae	Pygeretmus	pumilio	8.5	12.5	GWK;CHN
1263	Rodentia	Dipodidae	Cardiocranius	paradoxus	4.5	6.8	CHN;SSH
1264	Rodentia	Dipodidae	Salpingotulus	michaelis	4.15	4.4	HAS;WIK
1265	Rodentia	Dipodidae	Salpingotus	kozlovi	4.3	5.6	CHN
1266	Rodentia	Dipodidae	Salpingotus	crassicauda	4.1	5.8	SSH
1267	Rodentia	Dipodidae	Salpingotus	thomasi	5.7		HAS
1268	Rodentia	Dipodidae	Salpingotus	heptneri	4.0	5.8	SSH
1269	Rodentia	Dipodidae	Salpingotus	pallidus	5.3	6.1	ADW
1270	Rodentia	Dipodidae	Dipus	sagitta	9.0	15.5	GÖH;CHN
1271	Rodentia	Dipodidae	Eremodipus	lichtensteinii	10.5	11.5	SSH
1272	Rodentia	Dipodidae	Jaculus	blanfordi	12.3	15.0	HAS;SSH
1273	Rodentia	Dipodidae	Jaculus	jaculus	8.5	13.4	AFR;GRD
1274	Rodentia	Dipodidae	Jaculus	orientalis	7	16	ARK;EGY
1275	Rodentia	Dipodidae	Paradipus	ctenodactylus	11.0	16.5	ADW;SSH
1276	Rodentia	Dipodidae	Stylopus	sungorus	10.0	13.0	MGM
1277	Rodentia	Dipodidae	Stylopus	telum	10.0	15.5	GÖH;SSH
1278	Rodentia	Dipodidae	Stylopus	andrewsi	11.3	13.0	CHN
1279	Rodentia	Dipodidae	Euchoreutes	naso	7	10.7	ADW;MGM
1280	Rodentia	Dipodidae	Sicista	concolor	5.1	7.6	CHN
1281	Rodentia	Dipodidae	Sicista	subtilis	5.0	7.3	GÖH;SSH
1282	Rodentia	Dipodidae	Sicista	strandii	6.6	7.7	SSH
1283	Rodentia	Dipodidae	Sicista	severtzovi	5.4	7	WIKD
1284	Rodentia	Dipodidae	Sicista	pseudonapaea	6.5	7.7	SSH
1285	Rodentia	Dipodidae	Sicista	tianshanica	5.3	7.4	SSH
1286	Rodentia	Dipodidae	Sicista	napaea	6.5	7.9	SSH
1287	Rodentia	Dipodidae	Sicista	caudata	5.9	7.7	CHN;SSH
1288	Rodentia	Dipodidae	Sicista	caucasica	4.4	6.9	KRY
1289	Rodentia	Dipodidae	Sicista	betulina	5.0	7.6	GÖH
1290	Rodentia	Dipodidae	Sicista	armenica	6.6		KRY
1291	Rodentia	Dipodidae	Sicista	kluchorica	6.1	7.0	SSH
1292	Rodentia	Dipodidae	Sicista	kazbegica	6.2	6.7	SSH
1293	Rodentia	Dipodidae	Eozapus	setchuanus	7.0	10.0	CHN
1294	Rodentia	Dipodidae	Napaeozapus	insignis	8.0	10	MSA
1295	Rodentia	Dipodidae	Zapus	hudsonius	7.7	10	FRY;MSA
1296	Rodentia	Dipodidae	Zapus	princeps	7.6	10.7	A34;FRY
1297	Rodentia	Dipodidae	Zapus	trinotatus	8.7	10.9	MSA
1298	Rodentia	Nesomyidae	Monticolomys	koopmani	8.4	10.1	GOO
1299	Rodentia	Nesomyidae	Nesomys	lambertoni	20.0		MJL

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
1300	Rodentia	Nesomyidae	Nesomys	rufus	17.7	20.8	GOO;PAN
1301	Rodentia	Nesomyidae	Nesomys	audeberti	19.9		MJL
1302	Rodentia	Nesomyidae	Voalavo	gymnocaudus	8.0	9.0	GRR
1303	Rodentia	Nesomyidae	Eliurus	antsingy	13.3	16.0	EL2;GJA
1304	Rodentia	Nesomyidae	Eliurus	petteri	13.3		MJL
1305	Rodentia	Nesomyidae	Eliurus	penicillatus			
1306	Rodentia	Nesomyidae	Eliurus	myoxinus	12.0	14.7	GOO
1307	Rodentia	Nesomyidae	Eliurus	minor	9.9	12.8	GOO;PAN
1308	Rodentia	Nesomyidae	Eliurus	webbi	13.4	15.4	GOO
1309	Rodentia	Nesomyidae	Eliurus	majori	14.1	17.1	GJA;EL2
1310	Rodentia	Nesomyidae	Eliurus	tanala	13.1	15.9	GOO
1311	Rodentia	Nesomyidae	Eliurus	grandidieri	12.7		MJL
1312	Rodentia	Nesomyidae	Eliurus	ellermani	15.2		MJL
1313	Rodentia	Nesomyidae	Gymnuromys	roberti	14.3	17.5	PAN;ADW
1314	Rodentia	Nesomyidae	Hypogeomys	antimena	30	35	ARK
1315	Rodentia	Nesomyidae	Macrotarsomys	bastardi	7.8	10.1	GSO
1316	Rodentia	Nesomyidae	Macrotarsomys	ingens	11.2	15.0	GSO
1317	Rodentia	Nesomyidae	Brachytarsomys	albicauda	22.2	22.5	MJL;PAN
1318	Rodentia	Nesomyidae	Brachytarsomys	villosa	22.8		MJL
1319	Rodentia	Nesomyidae	Brachyuromys	betsileoensis	15.8	16.3	MJL;PAN
1320	Rodentia	Nesomyidae	Brachyuromys	ramirohitra	15.5	16.3	MJL;PAN
1321	Rodentia	Nesomyidae	Petromyscus	barbouri	7.1	9.6	KIM
1322	Rodentia	Nesomyidae	Petromyscus	collinus	6.2	10.5	KIM;SAS
1323	Rodentia	Nesomyidae	Petromyscus	monticularis			
1324	Rodentia	Nesomyidae	Petromyscus	shortridgei	7.6	8.5	HIL
1325	Rodentia	Nesomyidae	Beamys	hindei	11.5	18.7	AFR;KIF
1326	Rodentia	Nesomyidae	Beamys	major	14	14.6	AFR
1327	Rodentia	Nesomyidae	Cricetomys	kivuensis			
1328	Rodentia	Nesomyidae	Cricetomys	ansorgei	33.8	40.0	HIL
1329	Rodentia	Nesomyidae	Cricetomys	emini	27.4	49.0	KIM;HA2
1330	Rodentia	Nesomyidae	Cricetomys	gambianus	21	39.8	AFR;A22
1331	Rodentia	Nesomyidae	Saccostomus	campestris	9.4	18.8	ADW
1332	Rodentia	Nesomyidae	Saccostomus	mearnsi	11.1	15.6	AFR;HOL
1333	Rodentia	Nesomyidae	Delanymys	brooksi	5	6	KIF
1334	Rodentia	Nesomyidae	Dendromus	nyikae	5.0	8.1	KIM;HIL
1335	Rodentia	Nesomyidae	Dendromus	kahuziensis	5.0	10.0	EDG
1336	Rodentia	Nesomyidae	Dendromus	oreas	6.0	7.4	KIM
1337	Rodentia	Nesomyidae	Dendromus	nyasae	6.3	8.0	AFR;KIM
1338	Rodentia	Nesomyidae	Dendromus	mystacalis	5.0	6.4	HA2
1339	Rodentia	Nesomyidae	Dendromus	messorius	6.3	7.5	HA2
1340	Rodentia	Nesomyidae	Dendromus	mesomelas	6.4	8.9	AFR
1341	Rodentia	Nesomyidae	Dendromus	melanotis	5.1	15.4	BOT;AFR
1342	Rodentia	Nesomyidae	Dendromus	leucostomus	4.7	6.9	HIL
1343	Rodentia	Nesomyidae	Dendromus	vernayi	6.3	7.7	HIL
1344	Rodentia	Nesomyidae	Dendromus	insignis	4.6	11.0	AFR
1345	Rodentia	Nesomyidae	Dendromus	lovati	5.7	9.5	KIM
1346	Rodentia	Nesomyidae	Dendropriomys	rousseloti			
1347	Rodentia	Nesomyidae	Malacothrix	typica	7.3	9.3	BOT;HIL
1348	Rodentia	Nesomyidae	Megadendromus	nikolausi	11	13	KIF
1349	Rodentia	Nesomyidae	Prionomys	batesi	5.5	8.0	KIF;AFR

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
1350	Rodentia	Nesomyidae	Steatomys	parvus	6.6	11.0	AFR;SAS
1351	Rodentia	Nesomyidae	Steatomys	pratensis	6.6	14	AFR
1352	Rodentia	Nesomyidae	Steatomys	opimus	10.0	14.0	HA2
1353	Rodentia	Nesomyidae	Steatomys	caurinus	8.8	13	AFR
1354	Rodentia	Nesomyidae	Steatomys	bocagei	7.5	12.4	AFR;HIL
1355	Rodentia	Nesomyidae	Steatomys	krebsii	7.1	9.2	AFR;HIL
1356	Rodentia	Nesomyidae	Steatomys	jacksoni	9.0	11.2	ANA
1357	Rodentia	Nesomyidae	Steatomys	cuppedius	7.8	9.3	GRD
1358	Rodentia	Nesomyidae	Mystromys	albicaudatus	10.5	18.4	KIF
1359	Rodentia	Cricetidae	Alticola	barakshin	10.0	12.5	CHN
1360	Rodentia	Cricetidae	Alticola	argentatus	8.7	12.8	MSA
1361	Rodentia	Cricetidae	Alticola	albicaudus			
1362	Rodentia	Cricetidae	Alticola	semancanus	9.6	14.0	TDS;CHN
1363	Rodentia	Cricetidae	Alticola	stoliczkanus	9.3	12.7	MSA
1364	Rodentia	Cricetidae	Alticola	tuvinicus	11.3	11.5	ROS
1365	Rodentia	Cricetidae	Alticola	montosa			
1366	Rodentia	Cricetidae	Alticola	roylei	10.2	12.5	HAS
1367	Rodentia	Cricetidae	Alticola	olchonensis			
1368	Rodentia	Cricetidae	Alticola	lemminus			
1369	Rodentia	Cricetidae	Alticola	macrotis	10.0	12.5	CHN
1370	Rodentia	Cricetidae	Alticola	strelzowi	10.1	13.5	MSA;CHN
1371	Rodentia	Cricetidae	Microtus	gregalis	8.1	14.0	A76;GRO
1372	Rodentia	Cricetidae	Microtus	umbrosus	11.0	13.0	GWO
1373	Rodentia	Cricetidae	Microtus	californicus	11.9	14.2	A39;SCL
1374	Rodentia	Cricetidae	Microtus	chrotorrhinus	9.8	12.5	MSA;GRO
1375	Rodentia	Cricetidae	Microtus	longicaudus	10.0	17.5	FRY;SCL
1376	Rodentia	Cricetidae	Microtus	richardsoni	12.5	17.6	MSA
1377	Rodentia	Cricetidae	Microtus	miurus	11.6	12.3	SCL
1378	Rodentia	Cricetidae	Microtus	mexicanus	9.0	12.6	AND;GWO
1379	Rodentia	Cricetidae	Microtus	abbreviatus	14.0		GRO
1380	Rodentia	Cricetidae	Microtus	guatemalensis	9.3	11.8	NAM
1381	Rodentia	Cricetidae	Microtus	xanthognathus	14.1	18.0	MSA;GRO
1382	Rodentia	Cricetidae	Microtus	schidlovskii			
1383	Rodentia	Cricetidae	Microtus	socialis	9.2	12.6	HAS
1384	Rodentia	Cricetidae	Microtus	paradoxus	10.7	13	GWI
1385	Rodentia	Cricetidae	Microtus	anatomicus	10.5	12.5	KRY
1386	Rodentia	Cricetidae	Microtus	taticus	9.8	11.7	GÖH
1387	Rodentia	Cricetidae	Microtus	dogramacii	9.9	12.5	KRY
1388	Rodentia	Cricetidae	Microtus	cabrerae	7.8	14.0	BAZ
1389	Rodentia	Cricetidae	Microtus	arvalis	7.9	15.0	BAV;AFR
1390	Rodentia	Cricetidae	Microtus	agrestis	8.3	14.0	GÖH;GRO
1391	Rodentia	Cricetidae	Microtus	qazvinensis	11.0	12.3	GLM
1392	Rodentia	Cricetidae	Microtus	levis	10.2	13.1	KRY;KAZ
1393	Rodentia	Cricetidae	Microtus	guentheri	9.7	13.8	GÖH;KRY
1394	Rodentia	Cricetidae	Microtus	irani	10.0	10.7	KRK
1395	Rodentia	Cricetidae	Microtus	ilaeus	10.0	13.5	CHN;GRO
1396	Rodentia	Cricetidae	Microtus	transcaspicus	14.6	14.7	DSM;GRO
1397	Rodentia	Cricetidae	Microtus	maximowiczii	11.6	15.5	CHN
1398	Rodentia	Cricetidae	Microtus	limnophilus	8.8	11.8	CHN
1399	Rodentia	Cricetidae	Microtus	montebelli	9.5	13.6	VOJ

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
1400	Rodentia	Cricetidae	Microtus	mujanensis			
1401	Rodentia	Cricetidae	Microtus	fortis	12.0	18.0	WIK
1402	Rodentia	Cricetidae	Microtus	clarkei	11.4	13.4	CHN
1403	Rodentia	Cricetidae	Microtus	middendorffii	14.5		GRO
1404	Rodentia	Cricetidae	Microtus	oeconomus	8.3	16.1	BAV;GÖH
1405	Rodentia	Cricetidae	Microtus	evoronenensis			
1406	Rodentia	Cricetidae	Microtus	kikuchii	9.5	14.0	CHN;GRO
1407	Rodentia	Cricetidae	Microtus	mongolicus	8.8	13.2	A76;CHN
1408	Rodentia	Cricetidae	Microtus	sachalinensis	17.5		GRO
1409	Rodentia	Cricetidae	Microtus	duodecimcostatus	7.5	11.0	GÖH;BAZ
1410	Rodentia	Cricetidae	Microtus	majori	8.0	11.2	GÖH;KRY
1411	Rodentia	Cricetidae	Microtus	thomasi	8.7	14.0	GÖH;GRO
1412	Rodentia	Cricetidae	Microtus	felteni			
1413	Rodentia	Cricetidae	Microtus	bavaricus	9.0	10.6	GÖH
1414	Rodentia	Cricetidae	Microtus	gerbei	9.4	10.5	ESP
1415	Rodentia	Cricetidae	Microtus	liechtensteini			
1416	Rodentia	Cricetidae	Microtus	daghستانicus	9.1	10.5	KRY
1417	Rodentia	Cricetidae	Microtus	lusitanicus	7.7	9.3	GÖH
1418	Rodentia	Cricetidae	Microtus	brachycercus			
1419	Rodentia	Cricetidae	Microtus	savii	6.5	10.5	GÖH;GRO
1420	Rodentia	Cricetidae	Microtus	schelkovnikovi	8.8	11.1	NAD
1421	Rodentia	Cricetidae	Microtus	subterraneus	8.5	10.5	AFR;GRO
1422	Rodentia	Cricetidae	Microtus	multiplex	9.0	11.5	GÖH
1423	Rodentia	Cricetidae	Microtus	montanus	9.3	14.5	MSA;GRO
1424	Rodentia	Cricetidae	Microtus	townsendii	12	16.0	EFH;MSA
1425	Rodentia	Cricetidae	Microtus	canicaudus	11.1	12.3	PAN;MSA
1426	Rodentia	Cricetidae	Microtus	breweri	12.3	15.5	SCL;MSA
1427	Rodentia	Cricetidae	Microtus	pennsylvanicus	8.9	14.8	EFH;GRO
1428	Rodentia	Cricetidae	Microtus	oregoni	9.7	11.2	MSA
1429	Rodentia	Cricetidae	Microtus	oaxacensis	11.2	14	MSA
1430	Rodentia	Cricetidae	Microtus	quasiater	9.5	13.0	GWO
1431	Rodentia	Cricetidae	Microtus	pinetorum	9.0	12.3	MSA;SCL
1432	Rodentia	Cricetidae	Microtus	ochrogaster	8.9	13.1	EFH;MSA
1433	Rodentia	Cricetidae	Arborimus	albipes	9.1	11.0	FGA
1434	Rodentia	Cricetidae	Arborimus	pomo	9.5	10.3	MSA
1435	Rodentia	Cricetidae	Arborimus	longicaudus	9.8	10.4	MSA
1436	Rodentia	Cricetidae	Arvicola	amphibius	12.0	23.5	GÖH
1437	Rodentia	Cricetidae	Arvicola	scherman			
1438	Rodentia	Cricetidae	Arvicola	sapidus	16	22	BAZ
1439	Rodentia	Cricetidae	Blanfordimys	afghanus	9.0	12.1	HAS
1440	Rodentia	Cricetidae	Blanfordimys	bucharensis			
1441	Rodentia	Cricetidae	Caryomys	eva	8.3	10.0	CHN
1442	Rodentia	Cricetidae	Caryomys	inez	8.7	9.4	CHN
1443	Rodentia	Cricetidae	Chionomys	roberti	12.5	15.6	KRY
1444	Rodentia	Cricetidae	Chionomys	gud	11.2	15.0	KRY;GRO
1445	Rodentia	Cricetidae	Chionomys	nivalis	10.4	15.0	DSM;GRO
1446	Rodentia	Cricetidae	Dicrostonyx	hudsonius	15.8		GRO
1447	Rodentia	Cricetidae	Dicrostonyx	nelsoni			
1448	Rodentia	Cricetidae	Dicrostonyx	nunatakensis			
1449	Rodentia	Cricetidae	Dicrostonyx	richardsoni			

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
1450	Rodentia	Cricetidae	Dicrostonyx	torquatus	7.8	17	A42;BOF
1451	Rodentia	Cricetidae	Dicrostonyx	unalascensis			
1452	Rodentia	Cricetidae	Dicrostonyx	vinogradovi			
1453	Rodentia	Cricetidae	Dicrostonyx	groenlandicus	10	15.7	ADW
1454	Rodentia	Cricetidae	Dinaromys	bogdanovi	12.0	15.2	GÖH;ARK
1455	Rodentia	Cricetidae	Ellobius	alaicus			
1456	Rodentia	Cricetidae	Ellobius	talpinus	8.0	12.5	GÖH
1457	Rodentia	Cricetidae	Ellobius	tancrei	9.5	13.1	CHN
1458	Rodentia	Cricetidae	Ellobius	lutescens	9.1	13.0	MGH;KRY
1459	Rodentia	Cricetidae	Ellobius	fuscocapillus	9.7	13.1	MGH
1460	Rodentia	Cricetidae	Eolagurus	przewalskii	12.5	13.3	A76
1461	Rodentia	Cricetidae	Eolagurus	luteus	16.5		GRO
1462	Rodentia	Cricetidae	Eothenomys	custos	7.9	11.0	ZEN
1463	Rodentia	Cricetidae	Eothenomys	chinensis	10.2	13.4	ZEN
1464	Rodentia	Cricetidae	Eothenomys	cachinus	11.0	12.5	FRA
1465	Rodentia	Cricetidae	Eothenomys	miletus	11.0	12.6	A76
1466	Rodentia	Cricetidae	Eothenomys	olitor	8.0	9.2	A76
1467	Rodentia	Cricetidae	Eothenomys	wardi	9.0	11.0	ZEN;A76
1468	Rodentia	Cricetidae	Eothenomys	proditor	9.0	11.5	ZEN;A76
1469	Rodentia	Cricetidae	Eothenomys	melanogaster	8.8	10.9	LAW
1470	Rodentia	Cricetidae	Hyperacrius	wynnei			
1471	Rodentia	Cricetidae	Hyperacrius	fertilis			
1472	Rodentia	Cricetidae	Lagurus	lagurus	8	12	ADW
1473	Rodentia	Cricetidae	Lasiopodomys	mandarinus	8.8	11.5	A76;GRO
1474	Rodentia	Cricetidae	Lasiopodomys	fuscus			
1475	Rodentia	Cricetidae	Lasiopodomys	brandtii	11.0	15.0	A76;GRO
1476	Rodentia	Cricetidae	Lemmiscus	curtatus	8.4	13	A70;ADW
1477	Rodentia	Cricetidae	Lemmus	amurensis	12.0		GRO
1478	Rodentia	Cricetidae	Lemmus	lemmus	7.0	15.5	GÖH
1479	Rodentia	Cricetidae	Lemmus	portenkoi			
1480	Rodentia	Cricetidae	Lemmus	trimucronatus	13.4		A12
1481	Rodentia	Cricetidae	Lemmus	sibiricus	14.0	16.0	GRO
1482	Rodentia	Cricetidae	Myodes	rutilus	7.5	12.6	GÖH;A12
1483	Rodentia	Cricetidae	Myodes	rufocanus	9.7	14.5	TDS;GRO
1484	Rodentia	Cricetidae	Myodes	andersoni	7.9	12.7	VOJ
1485	Rodentia	Cricetidae	Myodes	californicus	8.7	11.3	MSA;FGA
1486	Rodentia	Cricetidae	Myodes	centralis	8.5	11.2	CHN
1487	Rodentia	Cricetidae	Myodes	gapperi	7	13.2	ADW;AFR
1488	Rodentia	Cricetidae	Myodes	glareolus	7.0	13.5	ARK
1489	Rodentia	Cricetidae	Myodes	imaizumii			
1490	Rodentia	Cricetidae	Myodes	smithii	7.0	11.5	VOJ
1491	Rodentia	Cricetidae	Myodes	rex	11.2	14.3	KNK
1492	Rodentia	Cricetidae	Myodes	shanseius	10.5	10.6	CHN
1493	Rodentia	Cricetidae	Myodes	regulus	9.2	13.0	A23
1494	Rodentia	Cricetidae	Myopus	schisticolor	7.5	11.5	CHN;ADW
1495	Rodentia	Cricetidae	Neodon	sikimensis	9.7	11.9	CHN
1496	Rodentia	Cricetidae	Neodon	forresti	10.0	13.4	CHN
1497	Rodentia	Cricetidae	Neodon	irene	6.0	13.4	LAW;GRO
1498	Rodentia	Cricetidae	Neodon	juldaschi	8.3	12.0	CHN;GRO
1499	Rodentia	Cricetidae	Neofiber	alleni	19.9	22	PAN;EFH

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
1500	Rodentia	Cricetidae	Ondatra	zibethicus	22.9	36	BRA;EFH
1501	Rodentia	Cricetidae	Phaiomys	leucurus	9.8	12.8	CHN
1502	Rodentia	Cricetidae	Phenacomys	ungava	9.5	12.6	FGA
1503	Rodentia	Cricetidae	Phenacomys	intermedius	9.2	11.7	A34;FGA
1504	Rodentia	Cricetidae	Proedromys	bedfordi	7.5	10.3	CHN;A76
1505	Rodentia	Cricetidae	Prometheomys	schaposchnikowi	12.6	15.6	KRY
1506	Rodentia	Cricetidae	Synaptomys	cooperi	8.1	13	MSA
1507	Rodentia	Cricetidae	Synaptomys	borealis	9.5	11.3	ALA
1508	Rodentia	Cricetidae	Volemys	mussieri	7.3	12.9	LAW
1509	Rodentia	Cricetidae	Volemys	millicens	8.3	9.5	LAW
1510	Rodentia	Cricetidae	Lophiomys	imhausi	22.5	36	ADW
1511	Rodentia	Cricetidae	Baiomys	musculus	5.2	8.1	G15;MSA
1512	Rodentia	Cricetidae	Baiomys	taylori	5.3	7.6	MSA
1513	Rodentia	Cricetidae	Habromys	simulatus	8.0	14.0	NAM
1514	Rodentia	Cricetidae	Habromys	chinanteco	8.0	14.0	NAM
1515	Rodentia	Cricetidae	Habromys	lepturus	11.9	12.4	GWP
1516	Rodentia	Cricetidae	Habromys	lophurus	9.1	11.8	NAM
1517	Rodentia	Cricetidae	Habromys	ixtlani	9.1	12.6	GWP;GWO
1518	Rodentia	Cricetidae	Habromys	delicatulus	8.0		NAM
1519	Rodentia	Cricetidae	Reithrodontomys	zacatecae	6.4	7.0	HOO
1520	Rodentia	Cricetidae	Reithrodontomys	megalotis	5.7	8.5	FRY;A68
1521	Rodentia	Cricetidae	Reithrodontomys	hirsutus	7.5	8.7	HOO
1522	Rodentia	Cricetidae	Reithrodontomys	fulvescens	5.4	8.7	FRY;GON
1523	Rodentia	Cricetidae	Reithrodontomys	chrysopsis	7.4	8.4	HOO
1524	Rodentia	Cricetidae	Reithrodontomys	burti	6.4	7.0	HOO
1525	Rodentia	Cricetidae	Reithrodontomys	humulis	6.1	6.9	A68;MSA
1526	Rodentia	Cricetidae	Reithrodontomys	montanus	5.2	7.1	FRY
1527	Rodentia	Cricetidae	Reithrodontomys	sumichrasti	6.4	9.4	FGC;GON
1528	Rodentia	Cricetidae	Reithrodontomys	raviventris	5.6	8.7	HOO
1529	Rodentia	Cricetidae	Reithrodontomys	creper	8.5	10.4	G12;FGC
1530	Rodentia	Cricetidae	Reithrodontomys	rodriguezi	6.5	9.2	FGC;GAC
1531	Rodentia	Cricetidae	Reithrodontomys	tenuirostris	8.0	11.0	FGC
1532	Rodentia	Cricetidae	Reithrodontomys	paradoxus	7.1	7.2	FGC
1533	Rodentia	Cricetidae	Reithrodontomys	mexicanus	5.8	9.5	GAC;G13
1534	Rodentia	Cricetidae	Reithrodontomys	brevirostris	6.1	9.0	GAC;HOO
1535	Rodentia	Cricetidae	Reithrodontomys	spectabilis	7.6	9.5	FGC
1536	Rodentia	Cricetidae	Reithrodontomys	gracilis	5.4	8.8	HOM;GWR
1537	Rodentia	Cricetidae	Reithrodontomys	microdon	6.1	8.2	FGC;GWO
1538	Rodentia	Cricetidae	Reithrodontomys	dariensis	6.4	8.5	FGC
1539	Rodentia	Cricetidae	Hodomys	allenii	21.0	23.9	ADW
1540	Rodentia	Cricetidae	Isthmomys	flavidus	12.7	16.5	FGC
1541	Rodentia	Cricetidae	Isthmomys	pirrensis	15.3	17.6	FGC
1542	Rodentia	Cricetidae	Megadontomys	cryophilus	14.5	15.0	GWO
1543	Rodentia	Cricetidae	Megadontomys	thomasi			
1544	Rodentia	Cricetidae	Megadontomys	nelsoni			
1545	Rodentia	Cricetidae	Nelsonia	goldmani			
1546	Rodentia	Cricetidae	Nelsonia	neotomodon			
1547	Rodentia	Cricetidae	Neotoma	stephensi	13.2	20.3	FGA
1548	Rodentia	Cricetidae	Neotoma	mexicana	15.2	20.6	FGC;MSA
1549	Rodentia	Cricetidae	Neotoma	fuscipes	15.5	25.0	NE3;A39

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
1550	Rodentia	Cricetidae	Neotoma	albigula	14.4	21.0	FGA
1551	Rodentia	Cricetidae	Neotoma	angustapalata			
1552	Rodentia	Cricetidae	Neotoma	anthonyi	15.4	21.0	MSA
1553	Rodentia	Cricetidae	Neotoma	bryanti	19.9	21.0	MSA
1554	Rodentia	Cricetidae	Neotoma	bunkeri			
1555	Rodentia	Cricetidae	Neotoma	chrysomelas	16.8	22.0	G15;A60
1556	Rodentia	Cricetidae	Neotoma	nelsoni			
1557	Rodentia	Cricetidae	Neotoma	floridana	17.5	27	MSA
1558	Rodentia	Cricetidae	Neotoma	goldmani	12.7	15.2	MSA
1559	Rodentia	Cricetidae	Neotoma	levida	14.0	20.9	NE3;MSA
1560	Rodentia	Cricetidae	Neotoma	leucodon	17.8	20.7	FRY
1561	Rodentia	Cricetidae	Neotoma	macrotis			
1562	Rodentia	Cricetidae	Neotoma	magister	20.0	24.5	ARK
1563	Rodentia	Cricetidae	Neotoma	martinensis	16.9	20.6	MSA
1564	Rodentia	Cricetidae	Neotoma	micropus	18.0	23.6	MSA
1565	Rodentia	Cricetidae	Neotoma	palatina			
1566	Rodentia	Cricetidae	Neotoma	devia	14.5	19.0	FGA
1567	Rodentia	Cricetidae	Neotoma	cinerea	17.3	26.5	MSA;FGA
1568	Rodentia	Cricetidae	Neotoma	phenax	18.1	21.1	MSA
1569	Rodentia	Cricetidae	Neotomodon	alstoni	9.9	12.9	MSA
1570	Rodentia	Cricetidae	Ochrotomys	nuttalli	5.1	11.5	MSA
1571	Rodentia	Cricetidae	Onychomys	arenicola	9.1		FRY
1572	Rodentia	Cricetidae	Onychomys	leucogaster	8.8	12.8	A70;MSA
1573	Rodentia	Cricetidae	Onychomys	torridus	8.5	11.5	AND;IRI
1574	Rodentia	Cricetidae	Osgoodomys	banderanus	11.4	11.5	A28;G10
1575	Rodentia	Cricetidae	Peromyscus	stephani	9.8		TOW
1576	Rodentia	Cricetidae	Peromyscus	gossypinus	7.1	11.7	MSA;EFH
1577	Rodentia	Cricetidae	Peromyscus	gratus	7.2	10.0	GWO;FRY
1578	Rodentia	Cricetidae	Peromyscus	zarhynchus	13.0	15.3	MSA
1579	Rodentia	Cricetidae	Peromyscus	yucatanicus	9.3	10.3	FGC
1580	Rodentia	Cricetidae	Peromyscus	winkelmanni	11.5	12.5	MSA
1581	Rodentia	Cricetidae	Peromyscus	fraterculus	7.7	10.0	CMX
1582	Rodentia	Cricetidae	Peromyscus	stirtoni	8.3	11.0	FGC;MSA
1583	Rodentia	Cricetidae	Peromyscus	dickeyi	9.6	10.3	MSA
1584	Rodentia	Cricetidae	Peromyscus	spicilegus	9.6	10.3	A28;MSA
1585	Rodentia	Cricetidae	Peromyscus	slevini	9.9	11.3	CRL;MSA
1586	Rodentia	Cricetidae	Peromyscus	truei	8.4	11.4	A11;FRY
1587	Rodentia	Cricetidae	Peromyscus	eva	7.8	8.4	MSA
1588	Rodentia	Cricetidae	Peromyscus	simulus	9.3	10.7	MSA
1589	Rodentia	Cricetidae	Peromyscus	difficilis	8.8	11.9	AND;GWO
1590	Rodentia	Cricetidae	Peromyscus	grandis	12.1	17.0	FGC;G13
1591	Rodentia	Cricetidae	Peromyscus	crinitus	7.3	10.3	MSA;A11
1592	Rodentia	Cricetidae	Peromyscus	caniceps	9.0		MSA
1593	Rodentia	Cricetidae	Peromyscus	californicus	8.3	13.0	FAR;A39
1594	Rodentia	Cricetidae	Peromyscus	bullatus	9.1	10.4	MSA
1595	Rodentia	Cricetidae	Peromyscus	boylii	5.9	11.0	FAR;A11
1596	Rodentia	Cricetidae	Peromyscus	beatae	9.8	10.0	G15
1597	Rodentia	Cricetidae	Peromyscus	aztecus	9.8	12.9	GWO
1598	Rodentia	Cricetidae	Peromyscus	attwateri	9.1	11	MSA
1599	Rodentia	Cricetidae	Peromyscus	eremicus	7.2	10	MSA

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
1600	Rodentia	Cricetidae	Peromyscus	keeni	8.9	12.4	ALA;FGA
1601	Rodentia	Cricetidae	Peromyscus	mekisturus			
1602	Rodentia	Cricetidae	Peromyscus	megalops	10.5	14.0	GWO
1603	Rodentia	Cricetidae	Peromyscus	mayensis	9.7	11.9	FGC
1604	Rodentia	Cricetidae	Peromyscus	maniculatus	6.7	10.9	A55;FGA
1605	Rodentia	Cricetidae	Peromyscus	sejugis	9.5	10.3	MSA
1606	Rodentia	Cricetidae	Peromyscus	melanocarpus	10	13	MSA
1607	Rodentia	Cricetidae	Peromyscus	furvus	12.3	13.7	A52
1608	Rodentia	Cricetidae	Peromyscus	madrensis	20.3	25.0	MSA
1609	Rodentia	Cricetidae	Peromyscus	interparietalis			
1610	Rodentia	Cricetidae	Peromyscus	hylocetes	10.1	12.1	CMX
1611	Rodentia	Cricetidae	Peromyscus	hooperi	8.0	8.6	MSA
1612	Rodentia	Cricetidae	Peromyscus	gymnotis	10.1	12.5	FGC;G13
1613	Rodentia	Cricetidae	Peromyscus	guatemalensis	12.4	14.9	FGC;G13
1614	Rodentia	Cricetidae	Peromyscus	guardia	9.4		TOW
1615	Rodentia	Cricetidae	Peromyscus	levipes	8.7	11.7	GWO;G13
1616	Rodentia	Cricetidae	Peromyscus	pseudocrinitus	8.4		PAN
1617	Rodentia	Cricetidae	Peromyscus	leucopus	7.0	11.2	A52;GWO
1618	Rodentia	Cricetidae	Peromyscus	sagax			
1619	Rodentia	Cricetidae	Peromyscus	melanophrys	10.6	14.4	FGC;GWO
1620	Rodentia	Cricetidae	Peromyscus	polius	8.1	10.8	AND
1621	Rodentia	Cricetidae	Peromyscus	polionotus	7.0	9	FGA;ADW
1622	Rodentia	Cricetidae	Peromyscus	perfulus	9.8	11.6	CMX
1623	Rodentia	Cricetidae	Peromyscus	pembertoni	10.5		MSA
1624	Rodentia	Cricetidae	Peromyscus	pectoralis	7.6	9.9	AND;FRY
1625	Rodentia	Cricetidae	Peromyscus	ochraventer			
1626	Rodentia	Cricetidae	Peromyscus	nasutus	8.4	11.0	FRY
1627	Rodentia	Cricetidae	Peromyscus	mexicanus	9.1	14.5	G12;GWO
1628	Rodentia	Cricetidae	Peromyscus	merriami	8.4	10.7	FGA
1629	Rodentia	Cricetidae	Peromyscus	melanurus	11.0	13.0	GWO
1630	Rodentia	Cricetidae	Peromyscus	melanotis	7.5	12.2	AND;MSA
1631	Rodentia	Cricetidae	Podomys	floridanus	9.6	11.9	MSA
1632	Rodentia	Cricetidae	Scotinomys	xerampelinus	5.8	9.0	GW7;FGC
1633	Rodentia	Cricetidae	Scotinomys	teguina	5.3	8.9	G12;GW7
1634	Rodentia	Cricetidae	Xenomys	nelsoni	10.6	17.5	CMX
1635	Rodentia	Cricetidae	Juscelinomys	guaporensis	13.0		EMM
1636	Rodentia	Cricetidae	Juscelinomys	candango	12.8	15.5	EMM
1637	Rodentia	Cricetidae	Juscelinomys	huanchacae	17.2		EMM
1638	Rodentia	Cricetidae	Kunsia	tomentosus	23.2	27.5	ANB
1639	Rodentia	Cricetidae	Kunsia	fronto			
1640	Rodentia	Cricetidae	Lenoxus	apicalis	11.8	16.5	ANB;A67
1641	Rodentia	Cricetidae	Loxodontomys	micropus	11.4	15.6	HE2
1642	Rodentia	Cricetidae	Loxodontomys	pikumche	12.1	16.5	NOO
1643	Rodentia	Cricetidae	Lundomys	molitor	16.0	23.7	HE6;MLA
1644	Rodentia	Cricetidae	Megalomys	desmarestii			
1645	Rodentia	Cricetidae	Megalomys	luciae			
1646	Rodentia	Cricetidae	Megaoryzomys	curioi			
1647	Rodentia	Cricetidae	Melanomys	zunigae			
1648	Rodentia	Cricetidae	Melanomys	caliginosus	10.0	14.5	A30;A46
1649	Rodentia	Cricetidae	Melanomys	robustulus			

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
1650	Rodentia	Cricetidae	Microakodontomys	transitorius	7.0		HE3
1651	Rodentia	Cricetidae	Abrawayaomys	ruschii			
1652	Rodentia	Cricetidae	Abrothrix	andinus	6.6	9.4	ANB;SCR
1653	Rodentia	Cricetidae	Abrothrix	olivaceus	7.5	10.5	MSA
1654	Rodentia	Cricetidae	Abrothrix	markhami			
1655	Rodentia	Cricetidae	Abrothrix	longipilis	10.5	14.1	SCL;HE4
1656	Rodentia	Cricetidae	Abrothrix	lanosus	8.3	10.5	SAA
1657	Rodentia	Cricetidae	Abrothrix	jelskii	8.9	10.2	A65;ANB
1658	Rodentia	Cricetidae	Abrothrix	illuteus			
1659	Rodentia	Cricetidae	Abrothrix	hershkovitzi			
1660	Rodentia	Cricetidae	Abrothrix	sanborni			
1661	Rodentia	Cricetidae	Aepeomys	lugens			
1662	Rodentia	Cricetidae	Aepeomys	reigi			
1663	Rodentia	Cricetidae	Akodon	aerosus	10.0	11.9	A14;ANB
1664	Rodentia	Cricetidae	Akodon	bogotensis			
1665	Rodentia	Cricetidae	Akodon	iniscatus	8.6	10.2	HE4
1666	Rodentia	Cricetidae	Akodon	orophilus			
1667	Rodentia	Cricetidae	Akodon	molinae	10.8		TAB
1668	Rodentia	Cricetidae	Akodon	neocenus			
1669	Rodentia	Cricetidae	Akodon	mystax			
1670	Rodentia	Cricetidae	Akodon	montensis	7.5	10.2	PAN;BOD
1671	Rodentia	Cricetidae	Akodon	mollis	9.7		HNB
1672	Rodentia	Cricetidae	Akodon	lindberghi	8.6	9.4	HE4
1673	Rodentia	Cricetidae	Akodon	leucolimnaeus			
1674	Rodentia	Cricetidae	Akodon	sanctipaulensis	8.6	10.0	HE4
1675	Rodentia	Cricetidae	Akodon	juninensis			
1676	Rodentia	Cricetidae	Akodon	paranaensis			
1677	Rodentia	Cricetidae	Akodon	fumeus	9.8	10.5	ANB
1678	Rodentia	Cricetidae	Akodon	dolores			
1679	Rodentia	Cricetidae	Akodon	dayi	11.9	12.3	AOL
1680	Rodentia	Cricetidae	Akodon	cursor			
1681	Rodentia	Cricetidae	Akodon	lutescens	6.5	10.3	AKO;HE3
1682	Rodentia	Cricetidae	Akodon	boliviensis	7.5	11.5	JAY;HER
1683	Rodentia	Cricetidae	Akodon	azarae	7.5	15	ADW
1684	Rodentia	Cricetidae	Akodon	aliquantulus			
1685	Rodentia	Cricetidae	Akodon	albiventer	9.0	10.7	ANB
1686	Rodentia	Cricetidae	Akodon	kofordi			
1687	Rodentia	Cricetidae	Akodon	subfuscus	8.3	10.7	HE4
1688	Rodentia	Cricetidae	Akodon	torques			
1689	Rodentia	Cricetidae	Akodon	oenos	8.0	11.4	AKO
1690	Rodentia	Cricetidae	Akodon	sylvanus			
1691	Rodentia	Cricetidae	Akodon	pervalens	11.6		ANB
1692	Rodentia	Cricetidae	Akodon	toba	8.6	12.6	ANB;AOL
1693	Rodentia	Cricetidae	Akodon	surdus			
1694	Rodentia	Cricetidae	Akodon	varius	10.5	14.0	AOL;ANB
1695	Rodentia	Cricetidae	Akodon	spiegazzinii	7.0	19.6	A37;WIK
1696	Rodentia	Cricetidae	Akodon	simulator	9.9	12.7	ANB
1697	Rodentia	Cricetidae	Akodon	reigi			
1698	Rodentia	Cricetidae	Akodon	serrensis	9.6		PAN
1699	Rodentia	Cricetidae	Akodon	affinis	8.2	9.9	A14

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
1700	Rodentia	Cricetidae	Akodon	budini			
1701	Rodentia	Cricetidae	Akodon	siberiae	9.5	10.4	ANB
1702	Rodentia	Cricetidae	Akodon	latebricola	8.3		AN8
1703	Rodentia	Cricetidae	Akodon	mimus	8.7	9.5	ANB
1704	Rodentia	Cricetidae	Amphinectomys	savamis			
1705	Rodentia	Cricetidae	Andalgalomys	pearsoni	10.2	12.6	PAN;ANB
1706	Rodentia	Cricetidae	Andalgalomys	roigi			
1707	Rodentia	Cricetidae	Andalgalomys	olrogi	9.6		PAN
1708	Rodentia	Cricetidae	Andinomys	edax	13.4	18.2	ANY;HE2
1709	Rodentia	Cricetidae	Anotomys	leander			
1710	Rodentia	Cricetidae	Auliscomys	boliviensis	9.5	14.5	A65;HE2
1711	Rodentia	Cricetidae	Auliscomys	pictus	9.5	14.7	OS2;HE2
1712	Rodentia	Cricetidae	Auliscomys	sublimis	9.6	12.5	HE2
1713	Rodentia	Cricetidae	Bibimys	labiosus	7.6	9.0	BIB
1714	Rodentia	Cricetidae	Bibimys	torresi	10.6	12.7	BIB
1715	Rodentia	Cricetidae	Bibimys	chacoensis	8.8	10.7	BIB
1716	Rodentia	Cricetidae	Blarinomys	breviceps	9.9	10.6	MSA
1717	Rodentia	Cricetidae	Brucepattersonius	griserufescens			
1718	Rodentia	Cricetidae	Brucepattersonius	soricinus			
1719	Rodentia	Cricetidae	Brucepattersonius	paradisus			
1720	Rodentia	Cricetidae	Brucepattersonius	misionensis			
1721	Rodentia	Cricetidae	Brucepattersonius	iheringi			
1722	Rodentia	Cricetidae	Brucepattersonius	guarani			
1723	Rodentia	Cricetidae	Brucepattersonius	albinasus			
1724	Rodentia	Cricetidae	Brucepattersonius	igniventris			
1725	Rodentia	Cricetidae	Calomys	tener	6.9	7.8	PAN;ANB
1726	Rodentia	Cricetidae	Calomys	boliviae			
1727	Rodentia	Cricetidae	Calomys	callidus			
1728	Rodentia	Cricetidae	Calomys	callosus	8.2	13.7	HE2
1729	Rodentia	Cricetidae	Calomys	expulsus	8.8	12.4	HE2
1730	Rodentia	Cricetidae	Calomys	hummelincki			
1731	Rodentia	Cricetidae	Calomys	laucha	5.7	10.1	HE2
1732	Rodentia	Cricetidae	Calomys	lepidus	6.6	9.8	ANB;HE2
1733	Rodentia	Cricetidae	Calomys	musculinus	7.1	8.0	ANB
1734	Rodentia	Cricetidae	Calomys	sorellus	7.2	10.7	HE2
1735	Rodentia	Cricetidae	Calomys	tocantinsi			
1736	Rodentia	Cricetidae	Calomys	venustus	11.6	13.3	ANB
1737	Rodentia	Cricetidae	Chelemys	megalonyx			
1738	Rodentia	Cricetidae	Chelemys	delfini			
1739	Rodentia	Cricetidae	Chelemys	macronyx	12.9	13.1	KEL;SCL
1740	Rodentia	Cricetidae	Chibchanomys	trichotis	10.5	12.5	JEB
1741	Rodentia	Cricetidae	Chibchanomys	orcesi	10.3	10.7	JEB
1742	Rodentia	Cricetidae	Chilomys	instans			
1743	Rodentia	Cricetidae	Chinchillula	sahamae	11.8	18.8	HE2
1744	Rodentia	Cricetidae	Delomys	collinus			
1745	Rodentia	Cricetidae	Delomys	dorsalis			
1746	Rodentia	Cricetidae	Delomys	sublineatus			
1747	Rodentia	Cricetidae	Deltamys	kempi	8.9	10.1	MSA
1748	Rodentia	Cricetidae	Eligmodontia	typus	6.5	11.2	HE2;TAB
1749	Rodentia	Cricetidae	Eligmodontia	puerulus	6.5	10.2	HE2

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
1750	Rodentia	Cricetidae	Eligmodontia	moreni			
1751	Rodentia	Cricetidae	Eligmodontia	morgani	8.3	8.5	KEL;A37
1752	Rodentia	Cricetidae	Euneomys	chinchilloides	12.1	15.6	KEL;HE2
1753	Rodentia	Cricetidae	Euneomys	fossor	11.9		HE2
1754	Rodentia	Cricetidae	Euneomys	mordax	13.0	14.7	HE2
1755	Rodentia	Cricetidae	Euneomys	petersoni	10.0	13.8	A64;HE2
1756	Rodentia	Cricetidae	Galenomys	garleppi	10.5	12.3	HE2
1757	Rodentia	Cricetidae	Geoxus	valdivianus	9.6	11.8	KEL;A64
1758	Rodentia	Cricetidae	Graomys	centralis	13.0		LAZ
1759	Rodentia	Cricetidae	Graomys	edithae	10.8		LAZ
1760	Rodentia	Cricetidae	Graomys	griseoflavus	10.6	16.9	HE2
1761	Rodentia	Cricetidae	Graomys	domorum	10.2	15.2	HE2;ANB
1762	Rodentia	Cricetidae	Handleyomys	fuscatus	10.0	12.0	A46
1763	Rodentia	Cricetidae	Handleyomys	intectus			
1764	Rodentia	Cricetidae	Holochilus	brasiliensis	15.7	24.8	HE6
1765	Rodentia	Cricetidae	Holochilus	chacarius	13.2	18.7	HE6
1766	Rodentia	Cricetidae	Holochilus	sciureus	12.2	22.0	HE6;MSA
1767	Rodentia	Cricetidae	Ichthyomys	pittieri			
1768	Rodentia	Cricetidae	Ichthyomys	stolzmanni	20.5		AN6
1769	Rodentia	Cricetidae	Ichthyomys	hydrebates			
1770	Rodentia	Cricetidae	Ichthyomys	tweedii	14.3	19.7	FGC
1771	Rodentia	Cricetidae	Irenomys	tarsalis	10.8	13.0	MSA
1772	Rodentia	Cricetidae	Juliomys	pictipes			
1773	Rodentia	Cricetidae	Juliomys	rimofrons	8.5	9.3	OLB
1774	Rodentia	Cricetidae	Microryzomys	altissimus	6.2	8.9	HE3;CMO
1775	Rodentia	Cricetidae	Microryzomys	minutus	6.2	9.9	CMO
1776	Rodentia	Cricetidae	Neacomys	paracou	6.9	8.7	VOL
1777	Rodentia	Cricetidae	Neacomys	musseri	7.0	7.3	PAD
1778	Rodentia	Cricetidae	Neacomys	dubosti	6.4	8.1	VOL
1779	Rodentia	Cricetidae	Neacomys	guianae	6.4	8.5	VOL
1780	Rodentia	Cricetidae	Neacomys	pictus	6.0	8.8	FGC
1781	Rodentia	Cricetidae	Neacomys	spinosus	7.2	10.4	ANB;HIC
1782	Rodentia	Cricetidae	Neacomys	tenuipes	7.2	9.7	VOL
1783	Rodentia	Cricetidae	Neacomys	minutus	6.5	7.9	PAD
1784	Rodentia	Cricetidae	Necromys	amoenus	8.4	13.0	HER;ANB
1785	Rodentia	Cricetidae	Necromys	benefactus			
1786	Rodentia	Cricetidae	Necromys	lactens	9.9	13.0	AOL
1787	Rodentia	Cricetidae	Necromys	lenguarum	10.2	12.6	AOL
1788	Rodentia	Cricetidae	Necromys	obscurus			
1789	Rodentia	Cricetidae	Necromys	punctulatus			
1790	Rodentia	Cricetidae	Necromys	temchuki			
1791	Rodentia	Cricetidae	Necromys	lasiurus	7.9	14.5	HER;PAN
1792	Rodentia	Cricetidae	Necromys	urichi	10.0	13.2	A45;GW9
1793	Rodentia	Cricetidae	Nectomys	squamipes	13.5	25.4	VOL;MSA
1794	Rodentia	Cricetidae	Nectomys	apicalis	16.5	25.3	PAD;A67
1795	Rodentia	Cricetidae	Nectomys	magdalenae	19.0	23.0	HE5
1796	Rodentia	Cricetidae	Nectomys	palmipes	13.5	24.7	VOL;HE5
1797	Rodentia	Cricetidae	Nectomys	rattus	16.8	24.5	CHP
1798	Rodentia	Cricetidae	Neotomys	ebriosus	9.7	14.9	ANB
1799	Rodentia	Cricetidae	Nesoryzomys	darwini			

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
1800	Rodentia	Cricetidae	Nesoryzomys	fernandinae	11.3	12.1	DOW
1801	Rodentia	Cricetidae	Nesoryzomys	indefessus	14.3	16.0	DOW
1802	Rodentia	Cricetidae	Nesoryzomys	swarthi	19		ARK
1803	Rodentia	Cricetidae	Neusticomys	peruviensis			
1804	Rodentia	Cricetidae	Neusticomys	mussoui			
1805	Rodentia	Cricetidae	Neusticomys	oyapocki	9.6	12.7	LES
1806	Rodentia	Cricetidae	Neusticomys	venezuelae	10.0	13.1	VOL
1807	Rodentia	Cricetidae	Neusticomys	monticolus	9.3	11.6	AN4;MSA
1808	Rodentia	Cricetidae	Noronhomys	vespuccii			
1809	Rodentia	Cricetidae	Notiomys	edwardsii			
1810	Rodentia	Cricetidae	Oecomys	catherinæ	10.9	15.0	ASF
1811	Rodentia	Cricetidae	Oecomys	rutilus	7.1	9.4	VOL
1812	Rodentia	Cricetidae	Oecomys	rex			
1813	Rodentia	Cricetidae	Oecomys	phaeotis			
1814	Rodentia	Cricetidae	Oecomys	paricola	11.9		HIC
1815	Rodentia	Cricetidae	Oecomys	mamorae	12.0	17.0	CR4
1816	Rodentia	Cricetidae	Oecomys	flavicans	12.6	14.5	A36
1817	Rodentia	Cricetidae	Oecomys	speciosus	12.1	12.2	AL2;A36
1818	Rodentia	Cricetidae	Oecomys	cleberi			
1819	Rodentia	Cricetidae	Oecomys	roberti	11.0	13.5	CR4;PAD
1820	Rodentia	Cricetidae	Oecomys	bicolor	7.6	11.8	VOL
1821	Rodentia	Cricetidae	Oecomys	auyantepui	10.0	12.6	VOL
1822	Rodentia	Cricetidae	Oecomys	concolor	11.5	14.1	CR4
1823	Rodentia	Cricetidae	Oecomys	trinitatis	11.0	16.4	FGC
1824	Rodentia	Cricetidae	Oecomys	superans	9.5	14.9	HNB;PAD
1825	Rodentia	Cricetidae	Oligoryzomys	vegetus	6.2	10.5	FGC
1826	Rodentia	Cricetidae	Oligoryzomys	flavescens	6.7	9.2	BOI;MLA
1827	Rodentia	Cricetidae	Oligoryzomys	fulvescens	6.0	9.9	G13;FGC
1828	Rodentia	Cricetidae	Oligoryzomys	griseolus			
1829	Rodentia	Cricetidae	Oligoryzomys	longicaudatus	9.3	10.1	SCL
1830	Rodentia	Cricetidae	Oligoryzomys	magellanicus			
1831	Rodentia	Cricetidae	Oligoryzomys	microtis	7.8	10.5	ANB;HIC
1832	Rodentia	Cricetidae	Oligoryzomys	fornesi			
1833	Rodentia	Cricetidae	Oligoryzomys	stramineus			
1834	Rodentia	Cricetidae	Oligoryzomys	arenalis			
1835	Rodentia	Cricetidae	Oligoryzomys	eliurus	10.0		A35
1836	Rodentia	Cricetidae	Oligoryzomys	destructor	8.6	13.3	ANB;A52
1837	Rodentia	Cricetidae	Oligoryzomys	delticola	11.0		MLA
1838	Rodentia	Cricetidae	Oligoryzomys	chacoensis	9.2	10.2	ANB
1839	Rodentia	Cricetidae	Oligoryzomys	brendae			
1840	Rodentia	Cricetidae	Oligoryzomys	victus			
1841	Rodentia	Cricetidae	Oligoryzomys	nigripes	6.2	10.7	PAN;HE3
1842	Rodentia	Cricetidae	Oligoryzomys	andinus	9.2	10.4	ANB;OSG
1843	Rodentia	Cricetidae	Oryzomys	subflavus	12.6	20.0	ANB;MUS
1844	Rodentia	Cricetidae	Oryzomys	talamancae	9.3	14.6	MUS;FGC
1845	Rodentia	Cricetidae	Oryzomys	tatei	11.8	13.7	MUS
1846	Rodentia	Cricetidae	Oryzomys	xanthaeolus	13.0		A66
1847	Rodentia	Cricetidae	Oryzomys	perenensis	11.5	16.0	PAD;HIC
1848	Rodentia	Cricetidae	Oryzomys	seuanezi			
1849	Rodentia	Cricetidae	Oryzomys	yunganus	8.4	15.4	VOL;HIC

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
1850	Rodentia	Cricetidae	Oryzomys	chapmani	9.4	11.6	GWO
1851	Rodentia	Cricetidae	Oryzomys	hammondi			
1852	Rodentia	Cricetidae	Oryzomys	gorgasi			
1853	Rodentia	Cricetidae	Oryzomys	galapagoensis	11.3	15	PAN;ARK
1854	Rodentia	Cricetidae	Oryzomys	emmonsae	14.2		MUS
1855	Rodentia	Cricetidae	Oryzomys	dimidiatus	11.8	12.8	FGC
1856	Rodentia	Cricetidae	Oryzomys	deivius	13.2	17.4	FGC
1857	Rodentia	Cricetidae	Oryzomys	rhabdops	9.9	12.5	FGC
1858	Rodentia	Cricetidae	Oryzomys	couesi	9.1	16.4	CR2;FGA
1859	Rodentia	Cricetidae	Oryzomys	laticeps	13.5	15.8	MUS
1860	Rodentia	Cricetidae	Oryzomys	caracolus			
1861	Rodentia	Cricetidae	Oryzomys	bolivaris	9.9	14.4	MUS
1862	Rodentia	Cricetidae	Oryzomys	balneator	9.4		AN8
1863	Rodentia	Cricetidae	Oryzomys	auriventer	14.0		AN9
1864	Rodentia	Cricetidae	Oryzomys	angouya	15.5	19.4	MUS
1865	Rodentia	Cricetidae	Oryzomys	alfaroi	7.6	12.1	GWO;MUS
1866	Rodentia	Cricetidae	Oryzomys	albibularis	13.2	17.4	FGC
1867	Rodentia	Cricetidae	Oryzomys	curasoaे			
1868	Rodentia	Cricetidae	Oryzomys	melanotis			
1869	Rodentia	Cricetidae	Oryzomys	saturatior	9.1	10.9	FGC;G13
1870	Rodentia	Cricetidae	Oryzomys	russatus	11.0	16.8	MUS
1871	Rodentia	Cricetidae	Oryzomys	rostratus	9.2	11.9	FGC;A31
1872	Rodentia	Cricetidae	Oryzomys	polius			
1873	Rodentia	Cricetidae	Oryzomys	palustris	11.7	14.9	A49;MSA
1874	Rodentia	Cricetidae	Oryzomys	nitidus	9.9	16.3	PAD;MUS
1875	Rodentia	Cricetidae	Oryzomys	keaysi	15.0	16.2	A67
1876	Rodentia	Cricetidae	Oryzomys	meridensis			
1877	Rodentia	Cricetidae	Oryzomys	lamia	14.1	16.1	CHP
1878	Rodentia	Cricetidae	Oryzomys	megacephalus	9.9	15.8	MUS;CHP
1879	Rodentia	Cricetidae	Oryzomys	marinhus			
1880	Rodentia	Cricetidae	Oryzomys	maracajuensis			
1881	Rodentia	Cricetidae	Oryzomys	macconnelli	11.9	17.2	PAD;MUS
1882	Rodentia	Cricetidae	Oryzomys	levipes	11.1	13.5	ANB
1883	Rodentia	Cricetidae	Oryzomys	legatus	12.9	15.8	MUS;ANB
1884	Rodentia	Cricetidae	Oryzomys	scotti	8.9	16.8	BOD;CHP
1885	Rodentia	Cricetidae	Oryzomys	nelsoni	12.2	15.4	CR2;MSA
1886	Rodentia	Cricetidae	Oxymycterus	caparaoae			
1887	Rodentia	Cricetidae	Oxymycterus	rufus	13.2		MLA
1888	Rodentia	Cricetidae	Oxymycterus	akodontius			
1889	Rodentia	Cricetidae	Oxymycterus	amazonicus			
1890	Rodentia	Cricetidae	Oxymycterus	angularis			
1891	Rodentia	Cricetidae	Oxymycterus	dasytrichus			
1892	Rodentia	Cricetidae	Oxymycterus	hiska	10.0	11.4	HIN
1893	Rodentia	Cricetidae	Oxymycterus	hispidus			
1894	Rodentia	Cricetidae	Oxymycterus	hucucha	9.9	11.6	HIN
1895	Rodentia	Cricetidae	Oxymycterus	inca	13.6	18.4	ANB;HIN
1896	Rodentia	Cricetidae	Oxymycterus	josei			
1897	Rodentia	Cricetidae	Oxymycterus	nasutus			
1898	Rodentia	Cricetidae	Oxymycterus	paramensis	11.0	14.8	ANB
1899	Rodentia	Cricetidae	Oxymycterus	quaestor			

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
1900	Rodentia	Cricetidae	Oxymycterus	delator	12.0	17.8	CHP
1901	Rodentia	Cricetidae	Oxymycterus	roberti	10.0		PAN
1902	Rodentia	Cricetidae	Paralomys	gerbillus	7.2	9.3	HE2
1903	Rodentia	Cricetidae	Pearsonomys	annectens	8.4	13.0	ELI
1904	Rodentia	Cricetidae	Phaenomys	ferrugineus			
1905	Rodentia	Cricetidae	Phyllotis	darwini	10.1	12.6	HE2
1906	Rodentia	Cricetidae	Phyllotis	xanthopygus	8.5	16.0	HE2
1907	Rodentia	Cricetidae	Phyllotis	osilae	8.8	14.0	HE2
1908	Rodentia	Cricetidae	Phyllotis	osgoodi			
1909	Rodentia	Cricetidae	Phyllotis	magister	9.4	15.2	HE2
1910	Rodentia	Cricetidae	Phyllotis	limatus	10.7	12.1	HE2
1911	Rodentia	Cricetidae	Phyllotis	definitus	9.6	13.5	HE2
1912	Rodentia	Cricetidae	Phyllotis	wolffsohni	11.0	13.6	HE2
1913	Rodentia	Cricetidae	Phyllotis	caprinus	9.4	12.6	ANB;HE2
1914	Rodentia	Cricetidae	Phyllotis	bonariensis			
1915	Rodentia	Cricetidae	Phyllotis	andium	9.1	12.3	AN5;HE2
1916	Rodentia	Cricetidae	Phyllotis	amicus	7.4	10.9	OSG;HE2
1917	Rodentia	Cricetidae	Phyllotis	haggardi	9.1	11.8	HE2
1918	Rodentia	Cricetidae	Podoxymys	roraimeae	10.1		A10
1919	Rodentia	Cricetidae	Pseudoryzomys	simplex	9.4	14.0	ANB
1920	Rodentia	Cricetidae	Punomys	lemmimus			
1921	Rodentia	Cricetidae	Punomys	kofordi			
1922	Rodentia	Cricetidae	Reithrodon	auritus	12.7	18.3	RDT;HE6
1923	Rodentia	Cricetidae	Reithrodon	typicus			
1924	Rodentia	Cricetidae	Rhagomys	longilingua	9.0	10.3	LUP
1925	Rodentia	Cricetidae	Rhagomys	rufescens	7.5	10.7	VIL
1926	Rodentia	Cricetidae	Rheomys	raptor	10.8	13.3	FGC
1927	Rodentia	Cricetidae	Rheomys	thomasi	9.4	13.6	FGC
1928	Rodentia	Cricetidae	Rheomys	mexicanus	9	16.1	ARK;GWN
1929	Rodentia	Cricetidae	Rheomys	underwoodi	13.0	14.2	FGC
1930	Rodentia	Cricetidae	Rhipidomys	caucensis	10.3		A36
1931	Rodentia	Cricetidae	Rhipidomys	leucodactylus	14.5	20.0	PAD;ANB
1932	Rodentia	Cricetidae	Rhipidomys	ochrogaster	15.4	16.4	A65
1933	Rodentia	Cricetidae	Rhipidomys	modicus			
1934	Rodentia	Cricetidae	Rhipidomys	mastacalis			
1935	Rodentia	Cricetidae	Rhipidomys	macrurus			
1936	Rodentia	Cricetidae	Rhipidomys	macconnelli			
1937	Rodentia	Cricetidae	Rhipidomys	latimanus	7.9	16.1	A36;A46
1938	Rodentia	Cricetidae	Rhipidomys	gardneri	14.9	15.0	PAD
1939	Rodentia	Cricetidae	Rhipidomys	fulviventer	8.6	16.5	AL2;A46
1940	Rodentia	Cricetidae	Rhipidomys	venustus			
1941	Rodentia	Cricetidae	Rhipidomys	couesi	12.5	20.8	ANB;ALC
1942	Rodentia	Cricetidae	Rhipidomys	venezuelae	14.5	14.7	A36
1943	Rodentia	Cricetidae	Rhipidomys	austrinus			
1944	Rodentia	Cricetidae	Rhipidomys	emiliae	13.5		A35
1945	Rodentia	Cricetidae	Rhipidomys	nitela	7.7	14.0	GW8
1946	Rodentia	Cricetidae	Rhipidomys	wetzeli			
1947	Rodentia	Cricetidae	Salinomys	delicatus			
1948	Rodentia	Cricetidae	Scapteromys	aquaticus			
1949	Rodentia	Cricetidae	Scapteromys	tumidus	17.4		MLA

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
1950	Rodentia	Cricetidae	Scolomys	melanops	9.0	9.8	AN8;HIC
1951	Rodentia	Cricetidae	Scolomys	ucayalensis	7.4	8.7	LUP;PAD
1952	Rodentia	Cricetidae	Sigmodon	mascotensis	10.5	18.5	FGC
1953	Rodentia	Cricetidae	Sigmodon	allenii	10.2	17.0	GWO;PAN
1954	Rodentia	Cricetidae	Sigmodon	arizonae	11.0	20.9	GWO;ADW
1955	Rodentia	Cricetidae	Sigmodon	fulviventer	10.7	18.0	FGA;PAN
1956	Rodentia	Cricetidae	Sigmodon	hirsutus	13.0	17.5	A19;A31
1957	Rodentia	Cricetidae	Sigmodon	hispidus	11.2	22.0	FGC
1958	Rodentia	Cricetidae	Sigmodon	leucotis	12.6	15.7	GWO;MSA
1959	Rodentia	Cricetidae	Sigmodon	peruanus	13.0	18.0	A14
1960	Rodentia	Cricetidae	Sigmodon	planifrons	10.9	13.0	GWO
1961	Rodentia	Cricetidae	Sigmodon	toltecus	11.0	17.2	GWO
1962	Rodentia	Cricetidae	Sigmodon	zanjonensis	14.4	19.7	G15
1963	Rodentia	Cricetidae	Sigmodon	ochrognathus	10.4	15.4	FRY;MSA
1964	Rodentia	Cricetidae	Sigmodon	inopinatus	16.0		AN7
1965	Rodentia	Cricetidae	Sigmodon	alstoni			
1966	Rodentia	Cricetidae	Sigmodontomys	alfari	12.0	16.0	HE5;A60
1967	Rodentia	Cricetidae	Sigmodontomys	aphrastus	11.6	15.2	FGC
1968	Rodentia	Cricetidae	Tapecomys	primus	12.4	13.9	ANY
1969	Rodentia	Cricetidae	Thalpomys	lasiotis	7.9	9.4	HER
1970	Rodentia	Cricetidae	Thalpomys	cerradensis	8.5	10.9	HER
1971	Rodentia	Cricetidae	Thaptomys	nigrata			
1972	Rodentia	Cricetidae	Thomasomys	ucucha	9.4	11.9	VOS
1973	Rodentia	Cricetidae	Thomasomys	ischyrus	12.4	13.7	OSG
1974	Rodentia	Cricetidae	Thomasomys	vulcani			
1975	Rodentia	Cricetidae	Thomasomys	vestitus			
1976	Rodentia	Cricetidae	Thomasomys	hudsoni	9.7		AN6
1977	Rodentia	Cricetidae	Thomasomys	pyrrhonotus	15.5		AN6
1978	Rodentia	Cricetidae	Thomasomys	praetor	18.7		OSG
1979	Rodentia	Cricetidae	Thomasomys	popayanus	14.5	16.4	A46
1980	Rodentia	Cricetidae	Thomasomys	paramorum	8.9	10.6	VOS
1981	Rodentia	Cricetidae	Thomasomys	oreas	9.8	10.8	ANB
1982	Rodentia	Cricetidae	Thomasomys	onkiro			
1983	Rodentia	Cricetidae	Thomasomys	notatus	9.2	13.0	SAL
1984	Rodentia	Cricetidae	Thomasomys	niveipes	12.1		PAN
1985	Rodentia	Cricetidae	Thomasomys	monochromos			
1986	Rodentia	Cricetidae	Thomasomys	macrotis			
1987	Rodentia	Cricetidae	Thomasomys	laniger	11.2		PAN
1988	Rodentia	Cricetidae	Thomasomys	taczanowskii	7.5	9.0	ANB
1989	Rodentia	Cricetidae	Thomasomys	rhoodsi	11.2	13.9	VOS;AN8
1990	Rodentia	Cricetidae	Thomasomys	ladewi	12.7	13.6	ANB
1991	Rodentia	Cricetidae	Thomasomys	kalinowskii			
1992	Rodentia	Cricetidae	Thomasomys	gracilis			
1993	Rodentia	Cricetidae	Thomasomys	erro	10.4	15.2	VOS;AN9
1994	Rodentia	Cricetidae	Thomasomys	eleusis			
1995	Rodentia	Cricetidae	Thomasomys	daphne	8.9	9.5	AN2;ANB
1996	Rodentia	Cricetidae	Thomasomys	cinnameus	8.2	9.0	VOS
1997	Rodentia	Cricetidae	Thomasomys	cinereus	12.8	13.8	OSG
1998	Rodentia	Cricetidae	Thomasomys	cinereiventer	9.8	16.1	AN2;A46
1999	Rodentia	Cricetidae	Thomasomys	caudivarius	11.4		AN6

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
2000	Rodentia	Cricetidae	Thomasomys	bombycinus	11.1	12.5	AN2;GOL
2001	Rodentia	Cricetidae	Thomasomys	baeops	9.5	12.0	VOS
2002	Rodentia	Cricetidae	Thomasomys	aureus	13.1	17.8	ANB;VOS
2003	Rodentia	Cricetidae	Thomasomys	apeco			
2004	Rodentia	Cricetidae	Thomasomys	incanus			
2005	Rodentia	Cricetidae	Thomasomys	hylophilus	10.7	12.5	VOS
2006	Rodentia	Cricetidae	Thomasomys	rosalinda			
2007	Rodentia	Cricetidae	Thomasomys	silvestris	9.5	12.7	VOS
2008	Rodentia	Cricetidae	Wiedomys	pyrrhorhinos			
2009	Rodentia	Cricetidae	Wilfredomys	oenax			
2010	Rodentia	Cricetidae	Zygodontomys	brunneus	11.0	15.2	G16;HE2
2011	Rodentia	Cricetidae	Zygodontomys	brevicauda	10.6	16.8	FGC;HE2
2012	Rodentia	Cricetidae	Allocricetus	curtatus	10.0	13.0	A76
2013	Rodentia	Cricetidae	Allocricetus	eversmanni	13.4		MLH
2014	Rodentia	Cricetidae	Cansumys	canus	10.0	17.0	CNH
2015	Rodentia	Cricetidae	Cricetus	altilcola	8.0	9.8	CNH
2016	Rodentia	Cricetidae	Cricetus	barabensis	7.2	11.6	CNH
2017	Rodentia	Cricetidae	Cricetus	kamensis	8.8	11.2	CNH
2018	Rodentia	Cricetidae	Cricetus	longicaudatus	8.0	13.5	CNH
2019	Rodentia	Cricetidae	Cricetus	migratorius	7.7	12.1	HAS
2020	Rodentia	Cricetidae	Cricetus	sokolovi	7.7	11.4	CNH
2021	Rodentia	Cricetidae	Cricetus	cricetus	18.0	30.0	GÖH;CHN
2022	Rodentia	Cricetidae	Mesocricetus	auratus	10.0	18.0	ADW;PAN
2023	Rodentia	Cricetidae	Mesocricetus	raddei	18.3		MLH
2024	Rodentia	Cricetidae	Mesocricetus	newtoni	13.5	16.0	GÖH
2025	Rodentia	Cricetidae	Mesocricetus	brandti	17.0	17.5	MLH;IRI
2026	Rodentia	Cricetidae	Phodopus	campbelli	7.6	10.5	CNH
2027	Rodentia	Cricetidae	Phodopus	roborovskii	6.1	10.2	CNH
2028	Rodentia	Cricetidae	Phodopus	sungorus	7.0	9.0	MSA
2029	Rodentia	Cricetidae	Tscherskia	triton	14.2	22.0	CNH
2030	Rodentia	Cricetidae	Nyctomyssumichrasti	sumichrasti	10.2	14.1	GWO;G13
2031	Rodentia	Cricetidae	Otonyctomyshatti	hatti	9.0	11.6	FGC
2032	Rodentia	Cricetidae	Ototylomysphyllotis	phyllotis	9.5	19	ADW
2033	Rodentia	Cricetidae	Tylomysbullaris	bullaris	16.6	25.5	EDG;GWT
2034	Rodentia	Cricetidae	Tylomysfulviventer	fulviventer	21.8		ANP
2035	Rodentia	Cricetidae	Tylomysmira	mira	23.0		GWT
2036	Rodentia	Cricetidae	Tylomysnudicaudus	nudicaudus	17.9	26.0	GWO;G13
2037	Rodentia	Cricetidae	Tylomyspanamensis				
2038	Rodentia	Cricetidae	Tylomystumbalensis	tumbalensis	17.0	25.5	EDG
2039	Rodentia	Cricetidae	Tylomyswatsoni	watsoni	15.5	29.0	FGC
2040	Rodentia	Muridae	Acomysminous	minous	9.2	12.5	GÖH
2041	Rodentia	Muridae	Acomysairensis				
2042	Rodentia	Muridae	Acomysnesiotes				
2043	Rodentia	Muridae	Acomyspercivali	percivali	8	10	AFR
2044	Rodentia	Muridae	Acomysspinosissimus	spinosissimus	6	11	AFR
2045	Rodentia	Muridae	Acomyswilsoni	wilsoni	5.5	10.7	AFR
2046	Rodentia	Muridae	Acomysrussatus	russatus	9.0	12.2	EGY
2047	Rodentia	Muridae	Acomysseurati				
2048	Rodentia	Muridae	Acomyskempi	kempi	6.2	11.8	AFR
2049	Rodentia	Muridae	Acomysmullah	mullah	8.9	13.4	AFR

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
2050	Rodentia	Muridae	Acomys	johannis	9.5	12.3	GRD
2051	Rodentia	Muridae	Acomys	ignitus	8.0	11.5	HOL
2052	Rodentia	Muridae	Acomys	dimidiatus	7.0	17.5	ARK
2053	Rodentia	Muridae	Acomys	cineraceus	8.5	10.8	PAN;AFR
2054	Rodentia	Muridae	Acomys	cilicicus	10.0		ARK
2055	Rodentia	Muridae	Acomys	chudeaui	9.3	12.0	GRD
2056	Rodentia	Muridae	Acomys	cahirinus	7.5	13.8	EGY
2057	Rodentia	Muridae	Acomys	louisae			
2058	Rodentia	Muridae	Acomys	subspinosus	6.2	11.4	AFR
2059	Rodentia	Muridae	Deomys	ferrugineus	7.5	17.7	AFR
2060	Rodentia	Muridae	Lophuromys	zena	8.5	13.9	AFR
2061	Rodentia	Muridae	Lophuromys	sikapusi	6.9	20.6	AFR
2062	Rodentia	Muridae	Lophuromys	verhageni	9.4	14	AFR
2063	Rodentia	Muridae	Lophuromys	melanonyx	12.1	15.3	AFR
2064	Rodentia	Muridae	Lophuromys	huttereri	9.7	11.4	AFR
2065	Rodentia	Muridae	Lophuromys	aquilus	10.6	14.7	HA2;HOL
2066	Rodentia	Muridae	Lophuromys	angolensis	10.6	20.9	AFR
2067	Rodentia	Muridae	Lophuromys	ansorgei	11.6	22.0	AFR
2068	Rodentia	Muridae	Lophuromys	brevicaudus	9.6	13.4	LAV
2069	Rodentia	Muridae	Lophuromys	brunneus	10.5	13.2	AFR
2070	Rodentia	Muridae	Lophuromys	chrysopus	10	13	AFR
2071	Rodentia	Muridae	Lophuromys	dieterleni	11.3	12.8	AFR
2072	Rodentia	Muridae	Lophuromys	duduui	13.9	19.2	AFR
2073	Rodentia	Muridae	Lophuromys	eisentrauti			
2074	Rodentia	Muridae	Lophuromys	flavopunctatus	12.2		PAN
2075	Rodentia	Muridae	Lophuromys	roseveari	10.4	14.1	AFR
2076	Rodentia	Muridae	Lophuromys	rahmi	7.5	11.1	AFR
2077	Rodentia	Muridae	Lophuromys	nudicaudus	7.6	16.3	AFR
2078	Rodentia	Muridae	Lophuromys	luteogaster	6.9	11.3	AFR
2079	Rodentia	Muridae	Lophuromys	woosnami	7.2	14.1	AFR
2080	Rodentia	Muridae	Lophuromys	medicaudatus	7.9	11.2	AFR
2081	Rodentia	Muridae	Uranomys	ruddi	8.5	16.8	KIF;ATQ
2082	Rodentia	Muridae	Psammomys	obesus	10.5	19.9	AFR;EGY
2083	Rodentia	Muridae	Psammomys	vexillaris			
2084	Rodentia	Muridae	Rhombomys	opimus	15	20	ADW
2085	Rodentia	Muridae	Sekeetamys	calurus	9.8	12.8	EGY
2086	Rodentia	Muridae	Tatera	indica	10.8	22.9	HAS
2087	Rodentia	Muridae	Taterillus	tranieri	11.1	13.4	GRD
2088	Rodentia	Muridae	Taterillus	arenarius	11.0	14.2	GRD
2089	Rodentia	Muridae	Taterillus	congicus	9.5	14.4	GRD;HA2
2090	Rodentia	Muridae	Taterillus	emini	12.8	15.8	HA1;AFR
2091	Rodentia	Muridae	Taterillus	pygargus	10.2	13.4	GRD
2092	Rodentia	Muridae	Taterillus	gracilis	7.0	15.0	AFR
2093	Rodentia	Muridae	Taterillus	harringtoni			
2094	Rodentia	Muridae	Taterillus	lacustris	11.0	13.7	GRD
2095	Rodentia	Muridae	Taterillus	petteri	10.1	13.4	GRD
2096	Rodentia	Muridae	Ammodillus	imbellis	9.5	11	PAN;KIF
2097	Rodentia	Muridae	Brachiones	przewalskii	8.6		A76
2098	Rodentia	Muridae	Desmodilliscus	braueri	5.6	7.3	GRD
2099	Rodentia	Muridae	Desmodillus	auricularis	9.0	14	SAS;KIF

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
2100	Rodentia	Muridae	Dipodillus	simoni	6.9	8.9	EGY
2101	Rodentia	Muridae	Dipodillus	maghrebi			
2102	Rodentia	Muridae	Dipodillus	zakariai			
2103	Rodentia	Muridae	Dipodillus	jamesi			
2104	Rodentia	Muridae	Dipodillus	lowei			
2105	Rodentia	Muridae	Dipodillus	mackilligini	5	13	ARK
2106	Rodentia	Muridae	Dipodillus	rupicola	9.5	10.8	GRD
2107	Rodentia	Muridae	Dipodillus	stigmonyx	6.8	8.0	HOL
2108	Rodentia	Muridae	Dipodillus	dasyurus	7	11	ARK
2109	Rodentia	Muridae	Dipodillus	campestris	8.0	12.5	EGY
2110	Rodentia	Muridae	Dipodillus	bottai			
2111	Rodentia	Muridae	Dipodillus	harwoodi	6.0	8.6	AFR;HOL
2112	Rodentia	Muridae	Dipodillus	somalicus			
2113	Rodentia	Muridae	Gerbilliscus	boehmi	13.0	24.1	HIL;AFR
2114	Rodentia	Muridae	Gerbilliscus	phillipsi	13.7	14.5	AFR;PAN
2115	Rodentia	Muridae	Gerbilliscus	afra	14.3		AFR
2116	Rodentia	Muridae	Gerbilliscus	validus	14.0	18.7	HOL;AFR
2117	Rodentia	Muridae	Gerbilliscus	robustus	10.0	18.7	SRS;AFR
2118	Rodentia	Muridae	Gerbilliscus	nigricaudus	10.1	17.2	AFR
2119	Rodentia	Muridae	Gerbilliscus	leucogaster	9.4	16.5	AFR
2120	Rodentia	Muridae	Gerbilliscus	kempi	8.6	19.6	ATQ;GRD
2121	Rodentia	Muridae	Gerbilliscus	inclusus	16.1		PAN
2122	Rodentia	Muridae	Gerbilliscus	guineae	7.1	18.2	AFR
2123	Rodentia	Muridae	Gerbilliscus	brantsii	10.0	16.0	BOT
2124	Rodentia	Muridae	Gerbillurus	vallinus	5.8	10.9	MSA
2125	Rodentia	Muridae	Gerbillurus	setzeri	10.4	11.8	MSA
2126	Rodentia	Muridae	Gerbillurus	tytonis	9.2	9.9	MSA
2127	Rodentia	Muridae	Gerbillurus	paeba	8.0	10.5	MSA;SAS
2128	Rodentia	Muridae	Gerbillus	mauritaniae			
2129	Rodentia	Muridae	Gerbillus	burtoni			
2130	Rodentia	Muridae	Gerbillus	cheesmani	5	13	ADW
2131	Rodentia	Muridae	Gerbillus	nancillus	5.5	6.7	GRD
2132	Rodentia	Muridae	Gerbillus	hoogstraali			
2133	Rodentia	Muridae	Gerbillus	gleadowi			
2134	Rodentia	Muridae	Gerbillus	floweri	11.1	21.3	EGY
2135	Rodentia	Muridae	Gerbillus	gerbillus	7.1	11.0	AFR;GRD
2136	Rodentia	Muridae	Gerbillus	dongolanus			
2137	Rodentia	Muridae	Gerbillus	latastei			
2138	Rodentia	Muridae	Gerbillus	aquilus			
2139	Rodentia	Muridae	Gerbillus	andersoni	8.3	11.5	EGY
2140	Rodentia	Muridae	Gerbillus	agag			
2141	Rodentia	Muridae	Gerbillus	acticola			
2142	Rodentia	Muridae	Gerbillus	dunni			
2143	Rodentia	Muridae	Gerbillus	pulvinatus	8.7	10.4	PBM
2144	Rodentia	Muridae	Gerbillus	occiduus			
2145	Rodentia	Muridae	Gerbillus	tarabuli	8.4	11.7	GRD
2146	Rodentia	Muridae	Gerbillus	nigeriae	8.0	11.1	GRD
2147	Rodentia	Muridae	Gerbillus	rosalinda			
2148	Rodentia	Muridae	Gerbillus	pyramidalum	7.0	13.5	AFR;EGY
2149	Rodentia	Muridae	Gerbillus	hesperinus	10		AFR

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
2150	Rodentia	Muridae	Gerbillus	perpallidus	9.5	11.7	EGY
2151	Rodentia	Muridae	Gerbillus	watersi	5.9	9.6	PBM;AFR
2152	Rodentia	Muridae	Gerbillus	garamantis			
2153	Rodentia	Muridae	Gerbillus	amoenus	7.0	10.0	EGY
2154	Rodentia	Muridae	Gerbillus	henleyi	4.7	7.5	PBM;EGY
2155	Rodentia	Muridae	Gerbillus	vivax			
2156	Rodentia	Muridae	Gerbillus	poecilops			
2157	Rodentia	Muridae	Gerbillus	mesopotamiae			
2158	Rodentia	Muridae	Gerbillus	brockmani			
2159	Rodentia	Muridae	Gerbillus	pusillus		7.2	HOL
2160	Rodentia	Muridae	Gerbillus	famulus			
2161	Rodentia	Muridae	Gerbillus	grobbeni			
2162	Rodentia	Muridae	Gerbillus	syrticus			
2163	Rodentia	Muridae	Gerbillus	principulus			
2164	Rodentia	Muridae	Gerbillus	muriculus			
2165	Rodentia	Muridae	Gerbillus	nanus	4.7	10	AFR
2166	Rodentia	Muridae	Meriones	tamariscinus	13.0	20.5	GWK;GÖH
2167	Rodentia	Muridae	Meriones	libycus	8.8	18.0	AFR;CHN
2168	Rodentia	Muridae	Meriones	meridianus	8.4	15.6	DSM;TDS
2169	Rodentia	Muridae	Meriones	arimalius			
2170	Rodentia	Muridae	Meriones	shawi	10	18.2	AFR
2171	Rodentia	Muridae	Meriones	crassus	8.6	15.3	HAS;GRD
2172	Rodentia	Muridae	Meriones	tristrami	12.0	17.0	YIC
2173	Rodentia	Muridae	Meriones	grandis			
2174	Rodentia	Muridae	Meriones	unguiculatus	9.5	18.0	BRA
2175	Rodentia	Muridae	Meriones	zarudnyi	13.9	15.7	HAS
2176	Rodentia	Muridae	Meriones	dahli			
2177	Rodentia	Muridae	Meriones	vinogradovi	15.5		PAN
2178	Rodentia	Muridae	Meriones	chengi	13.1	15.0	CHN
2179	Rodentia	Muridae	Meriones	sacramenti	13.1	19.0	EGY;ARK
2180	Rodentia	Muridae	Meriones	hurrianae			
2181	Rodentia	Muridae	Meriones	rex			
2182	Rodentia	Muridae	Meriones	persicus	14.0	16.3	DSM;HAS
2183	Rodentia	Muridae	Microdillus	peeli	6.8		PAN
2184	Rodentia	Muridae	Pachyuromys	duprasi	9.3	13.5	EGY;KIF
2185	Rodentia	Muridae	Myomyscus	angolensis	10.9	12.7	HIL
2186	Rodentia	Muridae	Myomyscus	yemeni			
2187	Rodentia	Muridae	Myomyscus	verreauxii	8.8		AFR
2188	Rodentia	Muridae	Myomyscus	brockmani	8.8	11.5	HOL
2189	Rodentia	Muridae	Nesokia	bunnii			
2190	Rodentia	Muridae	Nesokia	indica	13.7	28.3	HAS
2191	Rodentia	Muridae	Nesomys	ceramicus	11.8	13.5	SER
2192	Rodentia	Muridae	Praomys	misonnei	7.0	12.9	AFR
2193	Rodentia	Muridae	Praomys	degraaffi	9.0	12.4	STK
2194	Rodentia	Muridae	Praomys	minor	10.5		AFR
2195	Rodentia	Muridae	Praomys	verschurenii	13.3	13.4	AFR
2196	Rodentia	Muridae	Praomys	obscurus			
2197	Rodentia	Muridae	Praomys	lukolelai	7.8	22.5	AFR
2198	Rodentia	Muridae	Praomys	morio	11.5		PAN
2199	Rodentia	Muridae	Praomys	daltoni	7.0	15.8	AFR

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
2200	Rodentia	Muridae	Praomys	jacksoni	9.1	13.5	HA1;HA2
2201	Rodentia	Muridae	Praomys	petteri	11.5		AFR
2202	Rodentia	Muridae	Praomys	hartwigi	11.5		PAN
2203	Rodentia	Muridae	Praomys	derooi			
2204	Rodentia	Muridae	Praomys	delectorum	6.0	13.5	AFR
2205	Rodentia	Muridae	Praomys	rostratus	10.0	14.7	GRD
2206	Rodentia	Muridae	Praomys	tullbergi	6.2	16.8	AFR
2207	Rodentia	Muridae	Praomys	mutoni	8.7	13.9	AFR
2208	Rodentia	Muridae	Protochromys	fellowsi	13.6	15.1	FL3
2209	Rodentia	Muridae	Abditomys	latidens	22.4		PAN
2210	Rodentia	Muridae	Abeomelomys	sevia	11.4	13.8	FL3
2211	Rodentia	Muridae	Aethomys	silindensis			
2212	Rodentia	Muridae	Aethomys	stannarius			
2213	Rodentia	Muridae	Aethomys	nyikae	12.6	22.0	AFR
2214	Rodentia	Muridae	Aethomys	kaiseri	11	20	AFR
2215	Rodentia	Muridae	Aethomys	ineptus	14.0	14.5	MSA
2216	Rodentia	Muridae	Aethomys	hindei	10.7	19.0	AFR
2217	Rodentia	Muridae	Aethomys	chrysophilus	10.1	15.4	AFR
2218	Rodentia	Muridae	Aethomys	bocagei	15.1	19.1	HIL
2219	Rodentia	Muridae	Aethomys	thomasi	14.1	15.8	HIL
2220	Rodentia	Muridae	Anisomys	imitator	21.5	28.5	FL3
2221	Rodentia	Muridae	Anonymomys	mindorensis	12.3	12.5	PAN;MUI
2222	Rodentia	Muridae	Apodemus	epimelas			
2223	Rodentia	Muridae	Apodemus	mystacinus	9.2	13.0	BKR;GÖH
2224	Rodentia	Muridae	Apodemus	agrarius	7.5	12.6	ADW;AAT
2225	Rodentia	Muridae	Apodemus	alpicola			
2226	Rodentia	Muridae	Apodemus	argenteus			
2227	Rodentia	Muridae	Apodemus	chevrieri	8.8	11.0	CHN
2228	Rodentia	Muridae	Apodemus	draco	8.0	10.6	A76
2229	Rodentia	Muridae	Apodemus	flavicollis	7.7	13.0	BKR;GÖH
2230	Rodentia	Muridae	Apodemus	gurkha	10.1	11.0	ABN
2231	Rodentia	Muridae	Apodemus	latronum	9.2	11.0	A76
2232	Rodentia	Muridae	Apodemus	witherbyi	7.6	10.3	BKR
2233	Rodentia	Muridae	Apodemus	pallipes			
2234	Rodentia	Muridae	Apodemus	peninsulae	8.0	11.8	A76
2235	Rodentia	Muridae	Apodemus	ponticus			
2236	Rodentia	Muridae	Apodemus	rusiges			
2237	Rodentia	Muridae	Apodemus	semotus	8.25	10	CHN
2238	Rodentia	Muridae	Apodemus	speciosus	11.1	12.6	UED
2239	Rodentia	Muridae	Apodemus	sylvaticus	6	15	CAL;ADW
2240	Rodentia	Muridae	Apodemus	uralensis	7.0	10.2	GÖH;CHN
2241	Rodentia	Muridae	Apodemus	hyrcanicus			
2242	Rodentia	Muridae	Apomys	datae	11.0		PAN
2243	Rodentia	Muridae	Apomys	abrae	11.0		PAN
2244	Rodentia	Muridae	Apomys	gracilirostris			
2245	Rodentia	Muridae	Apomys	insignis	9.2	11.2	HAA
2246	Rodentia	Muridae	Apomys	littoralis	11.0		PAN
2247	Rodentia	Muridae	Apomys	microdon	11.0		PAN
2248	Rodentia	Muridae	Apomys	musculus	11.0		PAN
2249	Rodentia	Muridae	Apomys	sacobianus	11.0		PAN

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
2250	Rodentia	Muridae	Apomys	hylocetes	9.5	11.1	HKT;HAA
2251	Rodentia	Muridae	Archboldomys	luzonensis	7.0	12.5	PAN;CRU
2252	Rodentia	Muridae	Archboldomys	mussieri	9.1	10.0	BRH;CRU
2253	Rodentia	Muridae	Arvicathis	niloticus	10.6	20.4	ADW
2254	Rodentia	Muridae	Arvicathis	abyssinicus	9.3	15.5	HOL
2255	Rodentia	Muridae	Arvicathis	ansorgei	12.9	17.7	GRD
2256	Rodentia	Muridae	Arvicathis	blicki	12.6	17.5	AFR
2257	Rodentia	Muridae	Arvicathis	neumannii	6.1	15.5	AFR
2258	Rodentia	Muridae	Arvicathis	rufinus	14.5	20.0	AFR;OLA
2259	Rodentia	Muridae	Arvicathis	nairobae	10.6	14.1	AFR;HOL
2260	Rodentia	Muridae	Bandicota	bengalensis	14.0	24.5	HUS
2261	Rodentia	Muridae	Bandicota	indica	18.8	32.8	CHN
2262	Rodentia	Muridae	Bandicota	savilei	15.0	24.0	FRA
2263	Rodentia	Muridae	Batomys	russatus	14.0	15.1	ARK;BHR
2264	Rodentia	Muridae	Batomys	salomonensi	16.7	19.1	HKT;BHR
2265	Rodentia	Muridae	Batomys	granti	18.5	20.4	BHR;PAN
2266	Rodentia	Muridae	Batomys	dentatus	19.5		PAN
2267	Rodentia	Muridae	Berylmys	bowersi	18.0	30.0	A76;MUN
2268	Rodentia	Muridae	Berylmys	mackenziei	15.5	27.2	MUN;CHN
2269	Rodentia	Muridae	Berylmys	manipulus	13.5	18.5	MUN
2270	Rodentia	Muridae	Berylmys	berdmorei	17.5	25.5	CHN;MUN
2271	Rodentia	Muridae	Bullimus	luzonicus	24.0		PAN
2272	Rodentia	Muridae	Bullimus	bagobus	27.8	29.0	HKT;PAN
2273	Rodentia	Muridae	Bullimus	gamay	20.5	23.4	HEC
2274	Rodentia	Muridae	Bunomys	penitus	15.8	19.7	MUN
2275	Rodentia	Muridae	Bunomys	andrewsi	14.7	18.6	A21;MUN
2276	Rodentia	Muridae	Bunomys	chrysocomus	14.7	17.3	MUN
2277	Rodentia	Muridae	Bunomys	coelestis			
2278	Rodentia	Muridae	Bunomys	fratrorum	15.7	18.0	MUN
2279	Rodentia	Muridae	Bunomys	prolatus			
2280	Rodentia	Muridae	Carpomys	phaeurus	18.5		PAN
2281	Rodentia	Muridae	Carpomys	melanurus	20.0		PAN
2282	Rodentia	Muridae	Chiromyscus	chiropus	14.5	16.0	FRA
2283	Rodentia	Muridae	Chiropodomys	calamianensis	9.4	12.2	PAN;CHI
2284	Rodentia	Muridae	Chiropodomys	pusillus	7.0	9.4	DAV;PAN
2285	Rodentia	Muridae	Chiropodomys	muroides	6.6	9.4	CHI;PAN
2286	Rodentia	Muridae	Chiropodomys	major	9.4	11.4	CHI
2287	Rodentia	Muridae	Chiropodomys	gliroides	6.5	10.3	CHI
2288	Rodentia	Muridae	Chiropodomys	karlkcoopmani	10.7		CHI
2289	Rodentia	Muridae	Chiruromys	forbesi	13.7	17.5	FL3;TA3
2290	Rodentia	Muridae	Chiruromys	lamia	11.0	12.8	FL3
2291	Rodentia	Muridae	Chiruromys	vates	8.4	12.6	FL3
2292	Rodentia	Muridae	Chrotomys	silaceus	13.6	19.5	CHR;PAN
2293	Rodentia	Muridae	Chrotomys	whiteheadi	14.4	17.7	CHR
2294	Rodentia	Muridae	Chrotomys	gonzalesi	14.5	18.9	CHR
2295	Rodentia	Muridae	Chrotomys	mindorensis	15.5	18.6	CHR
2296	Rodentia	Muridae	Coccymys	albidens	11.1	12.2	FL3
2297	Rodentia	Muridae	Coccymys	ruemmeli	10.0	11.8	FL3
2298	Rodentia	Muridae	Colomys	goslingi	11.5	14	KIF
2299	Rodentia	Muridae	Conilurus	albipes	24.0	25.0	TA3;PAN

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
2300	Rodentia	Muridae	Conilurus	penicillatus	15.4	19.5	TA3
2301	Rodentia	Muridae	Coryphomys	buehleri			
2302	Rodentia	Muridae	Crateromys	schadenbergi	32.5	39.4	ARK;ADW
2303	Rodentia	Muridae	Crateromys	paulus	25.3		PAN
2304	Rodentia	Muridae	Crateromys	australis	26.5		PAN
2305	Rodentia	Muridae	Crateromys	heaneyi			
2306	Rodentia	Muridae	Cremnomys	cutchicus			
2307	Rodentia	Muridae	Cremnomys	elvira	14.9		EDG
2308	Rodentia	Muridae	Crossomys	moncktoni	17.5	20.0	FL3
2309	Rodentia	Muridae	Crunomys	fallax	10.5		PAN
2310	Rodentia	Muridae	Crunomys	melanius	9.8	13.3	CRU
2311	Rodentia	Muridae	Crunomys	suncoides	10.8		CRU
2312	Rodentia	Muridae	Crunomys	celebensis	11.5	12.7	CRU
2313	Rodentia	Muridae	Dacromys	millardi	22.8	29.0	CHN
2314	Rodentia	Muridae	Dasymys	rwandaee	8.0	23.9	AFR
2315	Rodentia	Muridae	Dasymys	sua	7.8	16.0	AFR
2316	Rodentia	Muridae	Dasymys	rufulus	5.1	19.2	AFR;GRD
2317	Rodentia	Muridae	Dasymys	nudipes	16.7	18.4	AFR;HIL
2318	Rodentia	Muridae	Dasymys	incomitus	12.5	18.5	HA2;HOL
2319	Rodentia	Muridae	Dasymys	foxi	15.2		MTP
2320	Rodentia	Muridae	Dasymys	alleni	9.4	17.9	AFR
2321	Rodentia	Muridae	Dasymys	cabrali	13.8	18.2	AFR
2322	Rodentia	Muridae	Dasymys	montanus	10.8	15.6	AFR
2323	Rodentia	Muridae	Dephomys	eburneae			
2324	Rodentia	Muridae	Dephomys	defua	9.4	15.0	AFR
2325	Rodentia	Muridae	Desmomys	yaldeni	11.7	13.2	LA3
2326	Rodentia	Muridae	Desmomys	harringtoni	11.0	15.5	LA3
2327	Rodentia	Muridae	Diomys	crumpi	10	13.5	FRA
2328	Rodentia	Muridae	Diplothrix	legata			
2329	Rodentia	Muridae	Echiothrix	centrosa			
2330	Rodentia	Muridae	Echiothrix	leucura			
2331	Rodentia	Muridae	Eropeplus	canus	23.0	25.5	DUR
2332	Rodentia	Muridae	Golunda	elliotti			
2333	Rodentia	Muridae	Grammomys	aridulus			
2334	Rodentia	Muridae	Grammomys	kuru			
2335	Rodentia	Muridae	Grammomys	buntingi	10.2	10.8	GRD
2336	Rodentia	Muridae	Grammomys	caniceps			
2337	Rodentia	Muridae	Grammomys	cometes	11.7		PAN
2338	Rodentia	Muridae	Grammomys	dolichurus	6.5	15.0	SAS;AFR
2339	Rodentia	Muridae	Grammomys	dryas			
2340	Rodentia	Muridae	Grammomys	ibeatus	9.6	13.9	AFR
2341	Rodentia	Muridae	Grammomys	macmillani	8.4	17	AFR
2342	Rodentia	Muridae	Grammomys	minnae			
2343	Rodentia	Muridae	Grammomys	poensis	6.9	13.9	AFR
2344	Rodentia	Muridae	Grammomys	gigas			
2345	Rodentia	Muridae	Hadromys	humei			
2346	Rodentia	Muridae	Hadromys	yunnanensis	12.3	14.0	CHN
2347	Rodentia	Muridae	Haeromys	minahassae			
2348	Rodentia	Muridae	Haeromys	pusillus	5.6	7.4	MUN
2349	Rodentia	Muridae	Haeromys	margarettae	6.6	7.6	MUN;PAN

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
2350	Rodentia	Muridae	Hapalomys	delacouri	10	13.6	ARK
2351	Rodentia	Muridae	Hapalomys	longicaudatus	14.0	17	MUN;FRA
2352	Rodentia	Muridae	Heimyscus	fumosus	6	14.4	AFR
2353	Rodentia	Muridae	Hybomys	lunaris	5	14.4	AFR
2354	Rodentia	Muridae	Hybomys	badius			
2355	Rodentia	Muridae	Hybomys	basili			
2356	Rodentia	Muridae	Hybomys	univittatus	10.6	15.3	HA2
2357	Rodentia	Muridae	Hybomys	trivirgatus	8.4	14.1	AFRPAN
2358	Rodentia	Muridae	Hybomys	planifrons			
2359	Rodentia	Muridae	Hydromys	neobritannicus	28.8	29.2	TA3;PAN
2360	Rodentia	Muridae	Hydromys	hussoni	12.8	16.7	FL3
2361	Rodentia	Muridae	Hydromys	habbema	11.9	14.7	FL3
2362	Rodentia	Muridae	Hydromys	chrysogaster	19.5	27.6	FL3;PAN
2363	Rodentia	Muridae	Hydromys	shawmayeri	13.2	14.6	PAN;TA3
2364	Rodentia	Muridae	Hylomyscus	parvus	4.3	9.5	AFR
2365	Rodentia	Muridae	Hylomyscus	stella	7.0	13.6	OLA;AFR
2366	Rodentia	Muridae	Hylomyscus	grandis			
2367	Rodentia	Muridae	Hylomyscus	denniae	5.0	12.7	AFR
2368	Rodentia	Muridae	Hylomyscus	baeri	9.6	12.7	AFR
2369	Rodentia	Muridae	Hylomyscus	allenii	5	19	AFR
2370	Rodentia	Muridae	Hylomyscus	aeta	5.8	16.1	AFR
2371	Rodentia	Muridae	Hylomyscus	carillus	8.7	11.1	HIL;AFR
2372	Rodentia	Muridae	Hyomys	goliath	29.5	39.0	FL3
2373	Rodentia	Muridae	Hyomys	dammermani	29.5	32.5	TA3
2374	Rodentia	Muridae	Kadarsanomys	sodyi	16.2	21.0	MUN
2375	Rodentia	Muridae	Komodomys	rintjanus	16.9		PAN
2376	Rodentia	Muridae	Lamottemys	okuensis			
2377	Rodentia	Muridae	Leggadina	lakedownensis			
2378	Rodentia	Muridae	Leggadina	forresti	6.7	10.0	TA3
2379	Rodentia	Muridae	Lemniscomys	linulus	5.8	18.2	AFR
2380	Rodentia	Muridae	Lemniscomys	mittendorfi	11.1		PAN
2381	Rodentia	Muridae	Lemniscomys	rosalia	6.9	15.0	AFR
2382	Rodentia	Muridae	Lemniscomys	roseveari			
2383	Rodentia	Muridae	Lemniscomys	zebra	8.6	12.2	HA2;GRD
2384	Rodentia	Muridae	Lemniscomys	hoogstraali			
2385	Rodentia	Muridae	Lemniscomys	griselda	7.0	25.0	AFR
2386	Rodentia	Muridae	Lemniscomys	striatus	8.2	14.0	HA2;GRD
2387	Rodentia	Muridae	Lemniscomys	barbarus	8.9	11.5	HOL;AFR
2388	Rodentia	Muridae	Lemniscomys	macculus	9.5	12.5	HOL
2389	Rodentia	Muridae	Lemniscomys	bellieri	7.1	14.0	AFR
2390	Rodentia	Muridae	Lenomys	meyeri			
2391	Rodentia	Muridae	Lenothrix	canus	16.1	21.5	MUN
2392	Rodentia	Muridae	Leopoldamys	milleti	21.0	28.0	FRA
2393	Rodentia	Muridae	Leopoldamys	edwardsi	20.0	29.0	MUN;TAY
2394	Rodentia	Muridae	Leopoldamys	sabanus	20.0	27.5	FRA
2395	Rodentia	Muridae	Leopoldamys	siporanus			
2396	Rodentia	Muridae	Leopoldamys	ciliatus	21.5	25.5	FRA
2397	Rodentia	Muridae	Leopoldamys	neilli	20.0	23.5	FRA
2398	Rodentia	Muridae	Leporillus	apicalis	18.5	20.3	TA3;PAN

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
2399	Rodentia	Muridae	Leporillus	conditor	17	26	ARK
2400	Rodentia	Muridae	Leptomys	ernstmayri	12.1	15.6	PAN;MUH
2401	Rodentia	Muridae	Leptomys	signatus	14.0	15.5	MUH
2402	Rodentia	Muridae	Leptomys	elegans	12.2	19.4	FL3;MUH
2403	Rodentia	Muridae	Limnomys	sibuanus	11.9	13.5	HKT
2404	Rodentia	Muridae	Limnomys	bryophilus	12.8	13.2	HKT
2405	Rodentia	Muridae	Lorentzimys	nouhuysi	5.5	9.0	FL3
2406	Rodentia	Muridae	Macruromys	elegans	15.3	15.8	FL3;PAN
2407	Rodentia	Muridae	Macruromys	major	22.5	26.3	FL3
2408	Rodentia	Muridae	Madromys	blanfordi			
2409	Rodentia	Muridae	Malacomys	cansdalei	13.6	15.6	AFR
2410	Rodentia	Muridae	Malacomys	edwardsi	4.2	16.4	AFR
2411	Rodentia	Muridae	Malacomys	longipes	13.2	17.8	NIV;HA2
2412	Rodentia	Muridae	Mallomys	rothschildi	30.6	44.0	FL2
2413	Rodentia	Muridae	Mallomys	gunung	41.8	44.2	FL2;PAN
2414	Rodentia	Muridae	Mallomys	istapantap	35.2	47.7	FL2
2415	Rodentia	Muridae	Mallomys	aroensis	29.2	44.0	FL2;TA3
2416	Rodentia	Muridae	Malpaisomys	insularis			
2417	Rodentia	Muridae	Mammelomys	lanosus	15.2	17.5	FL3;TA3
2418	Rodentia	Muridae	Mammelomys	rattoides	15.9	22.4	FL3AN
2419	Rodentia	Muridae	Margaretamys	beccarii	11.7	15.2	MUI
2420	Rodentia	Muridae	Margaretamys	elegans	14.0	19.7	MUI
2421	Rodentia	Muridae	Margaretamys	parvus	9.6	11.4	MUI
2422	Rodentia	Muridae	Mastacomys	fuscus	14	19.5	ARK
2423	Rodentia	Muridae	Mastomys	shortridgei	10.6	14.4	BOT
2424	Rodentia	Muridae	Mastomys	pernanus	8.7		AFR
2425	Rodentia	Muridae	Mastomys	natalensis	7.0	17.1	SRS;HA2
2426	Rodentia	Muridae	Mastomys	kollmannspergeri	11.5	16.2	GRD
2427	Rodentia	Muridae	Mastomys	huberti	9.5	17.0	GRD
2428	Rodentia	Muridae	Mastomys	erythroleucus	9.2	17.8	GRD
2429	Rodentia	Muridae	Mastomys	awashensis			
2430	Rodentia	Muridae	Mastomys	coucha	9.3	16.0	HOL
2431	Rodentia	Muridae	Maxomys	wattsi			
2432	Rodentia	Muridae	Maxomys	moi			
2433	Rodentia	Muridae	Maxomys	altilcola	13.9	17.6	MUN
2434	Rodentia	Muridae	Maxomys	baeodon	12.6	16.8	MUN;PAN
2435	Rodentia	Muridae	Maxomys	bartelsii	12.7	12.8	MUN
2436	Rodentia	Muridae	Maxomys	dollmani			
2437	Rodentia	Muridae	Maxomys	hellwaldii			
2438	Rodentia	Muridae	Maxomys	hylomyoides	11.4	13.2	MUN
2439	Rodentia	Muridae	Maxomys	inflatus	16.0	19.3	MUN
2440	Rodentia	Muridae	Maxomys	whiteheadi	10	16.8	ARK;PAN
2441	Rodentia	Muridae	Maxomys	musschenbroekii			
2442	Rodentia	Muridae	Maxomys	ochraceiventer	14.0	17.1	MUN
2443	Rodentia	Muridae	Maxomys	pagensis			
2444	Rodentia	Muridae	Maxomys	panglima	16.7	22.2	MUN
2445	Rodentia	Muridae	Maxomys	rajah	16.6	22.6	MUN
2446	Rodentia	Muridae	Maxomys	surifer	16.0	21.0	MUN;ECA
2447	Rodentia	Muridae	Maxomys	inas	12.4	16.2	MUN
2448	Rodentia	Muridae	Melasmotherix	naso	11.1	12.6	MUC

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
2449	Rodentia	Muridae	Melomys	fulgens	14.7	15.0	PAN;SER
2450	Rodentia	Muridae	Melomys	lutillus	9.0	12.5	FL3;TA3
2451	Rodentia	Muridae	Melomys	aerosus	15.0	16.0	SER
2452	Rodentia	Muridae	Melomys	arcium	13.8	14.0	TA3;PAN
2453	Rodentia	Muridae	Melomys	bannisteri			
2454	Rodentia	Muridae	Melomys	bougainville	14.6	14.9	PAN
2455	Rodentia	Muridae	Melomys	burtoni	9.0	13.6	TA3
2456	Rodentia	Muridae	Melomys	capensis	13.7	15.5	PAN;TA3
2457	Rodentia	Muridae	Melomys	caurinus	17.0	17.6	TA3;SER
2458	Rodentia	Muridae	Melomys	cervinipes	12.2	15.5	TA3
2459	Rodentia	Muridae	Melomys	cooperae			
2460	Rodentia	Muridae	Melomys	dollmani	13.2	13.4	PAN;TA3
2461	Rodentia	Muridae	Melomys	fraterculus	11.5		SER
2462	Rodentia	Muridae	Melomys	leucogaster	11.4	18.2	FL3
2463	Rodentia	Muridae	Melomys	howi			
2464	Rodentia	Muridae	Melomys	talaudium	15.0	17.4	TA3;SER
2465	Rodentia	Muridae	Melomys	matambuai			
2466	Rodentia	Muridae	Melomys	obiensis	12.3	13.7	SER;PAN
2467	Rodentia	Muridae	Melomys	paveli	12.3		SER
2468	Rodentia	Muridae	Melomys	rubicola	14.7	15.0	PAN;TA3
2469	Rodentia	Muridae	Melomys	rufescens	10.2	17.5	FL3;TA3
2470	Rodentia	Muridae	Melomys	spechti			
2471	Rodentia	Muridae	Melomys	frigicola	12.8		PAN
2472	Rodentia	Muridae	Mesembriomys	gouldii	23.8	33.0	TA3
2473	Rodentia	Muridae	Mesembriomys	macrurus	24.0		TA3
2474	Rodentia	Muridae	Micaelamys	granti			
2475	Rodentia	Muridae	Micaelamys	namaquensis	6.8	13.3	BOT;HIL
2476	Rodentia	Muridae	Microhydromys	musseri	10.6		PAN
2477	Rodentia	Muridae	Microhydromys	richardsoni	8.0	8.6	FL3
2478	Rodentia	Muridae	Micromys	minutus	4.7	7.8	OZK;A23
2479	Rodentia	Muridae	Millardia	kathleenae	13.0	16.5	FRA
2480	Rodentia	Muridae	Millardia	gleadowi			
2481	Rodentia	Muridae	Millardia	kondana	17.5		EDG
2482	Rodentia	Muridae	Millardia	meltada			
2483	Rodentia	Muridae	Muriculus	imberbis	7	9.5	KIF
2484	Rodentia	Muridae	Mus	cervicolor	6.1	9.7	CHN;ABN
2485	Rodentia	Muridae	Mus	musculus	5.5	11.4	EGY;GRD
2486	Rodentia	Muridae	Mus	spicilegus	7.0	8.1	MSA
2487	Rodentia	Muridae	Mus	fragilicauda	6.6	8.8	FRA
2488	Rodentia	Muridae	Mus	cookii	7.34	10.5	MAR;FRA
2489	Rodentia	Muridae	Mus	macedonicus	8.6		KAZ
2490	Rodentia	Muridae	Mus	caroli	5.5	9.5	MOK
2491	Rodentia	Muridae	Mus	spretus	6.0	12	CAL;BAZ
2492	Rodentia	Muridae	Mus	booduga	6.0	7.5	FRA
2493	Rodentia	Muridae	Mus	terricolor	5.76	6.96	MAR
2494	Rodentia	Muridae	Mus	famulus	9.05		MAR
2495	Rodentia	Muridae	Mus	orangiae			
2496	Rodentia	Muridae	Mus	tenellus	5.6	7.3	AFR
2497	Rodentia	Muridae	Mus	sorella	5.1	12.0	AFR
2498	Rodentia	Muridae	Mus	setzeri	5.3	10.2	AFR

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
2499	Rodentia	Muridae	Mus	setulosus	4.6	14.0	AFR
2500	Rodentia	Muridae	Mus	oubanguii	5.5	7.2	AFR
2501	Rodentia	Muridae	Mus	neavei	5.0	7.7	AFR
2502	Rodentia	Muridae	Mus	musculoides	4.7	7.2	KOU;HA2
2503	Rodentia	Muridae	Mus	mattheyi	4.6	6.6	KOU;GRD
2504	Rodentia	Muridae	Mus	triton	4.3	12.5	AFR
2505	Rodentia	Muridae	Mus	indutus	4.9	5.6	HIL
2506	Rodentia	Muridae	Mus	haussa	3.7	6.2	GRD;AFR
2507	Rodentia	Muridae	Mus	goundae	5.6	6.0	AFR
2508	Rodentia	Muridae	Mus	callewaerti	8.4	8.9	HIL
2509	Rodentia	Muridae	Mus	bufo	4.5	8.3	AFR
2510	Rodentia	Muridae	Mus	baoulei	5.9	11.6	AFR
2511	Rodentia	Muridae	Mus	mahomet	5.4	7.0	AFR;HA2
2512	Rodentia	Muridae	Mus	minutoides	2.6	11.3	AFR
2513	Rodentia	Muridae	Mus	mayori	9.82		MAR
2514	Rodentia	Muridae	Mus	vulcani	8.0	9.33	MUN;MAR
2515	Rodentia	Muridae	Mus	crociduroides	7.7	9.7	MUN
2516	Rodentia	Muridae	Mus	pahari	7.5	10.5	FRA
2517	Rodentia	Muridae	Mus	shortridgei	9.5	12.0	FRA
2518	Rodentia	Muridae	Mus	saxicola	8.87		MAR
2519	Rodentia	Muridae	Mus	platythrix	10.7		MAR
2520	Rodentia	Muridae	Mus	phillipsi	7.35		MAR
2521	Rodentia	Muridae	Mus	fernandoni	8.48		MAR
2522	Rodentia	Muridae	Myomys	rex			
2523	Rodentia	Muridae	Myomys	dybowskii	12.0	19.0	KIF
2524	Rodentia	Muridae	Nilopogamys	plumbeus	14.8		EDG
2525	Rodentia	Muridae	Niviventer	andersoni	15.0	19.8	A76
2526	Rodentia	Muridae	Niviventer	confucianus	11.5	17.0	A76;FRA
2527	Rodentia	Muridae	Niviventer	brahma	13.5	14.5	FRA
2528	Rodentia	Muridae	Niviventer	rapit	11.7	20.8	MUN
2529	Rodentia	Muridae	Niviventer	hinpoon	12.0	16.0	FRA
2530	Rodentia	Muridae	Niviventer	niviventer			
2531	Rodentia	Muridae	Niviventer	lepturus	14.1	16.7	MUN
2532	Rodentia	Muridae	Niviventer	langbianis	13.1	17.2	CHN;TAY
2533	Rodentia	Muridae	Niviventer	fulvescens	9.6	17.4	TAY;MUN
2534	Rodentia	Muridae	Niviventer	excelsior	12.7	17.5	CHN
2535	Rodentia	Muridae	Niviventer	eha	9.2	13.0	A76;FRA
2536	Rodentia	Muridae	Niviventer	culturatus	14.3		PAN
2537	Rodentia	Muridae	Niviventer	cremoriventer	13	16.5	ARK
2538	Rodentia	Muridae	Niviventer	coninga	10.5	19.0	TAI
2539	Rodentia	Muridae	Niviventer	tenaster	12.0	19.0	FRA
2540	Rodentia	Muridae	Niviventer	fraternus			
2541	Rodentia	Muridae	Niviventer	cameroni	13.0	17.0	FRA
2542	Rodentia	Muridae	Notomys	fuscus	9.0	17.7	ARK
2543	Rodentia	Muridae	Notomys	mordax			
2544	Rodentia	Muridae	Notomys	mitchellii	9.8	12.0	TA3
2545	Rodentia	Muridae	Notomys	macrotis	11.8		PAN
2546	Rodentia	Muridae	Notomys	longicaudatus	12.8	14.5	TA3
2547	Rodentia	Muridae	Notomys	cervinus	9.5	12	ARK
2548	Rodentia	Muridae	Notomys	aquilo	10.3	11.2	PAN;ARK

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
2549	Rodentia	Muridae	Notomys	amplus	14.3	14.5	TA3;PAN
2550	Rodentia	Muridae	Notomys	alexis	8.3	10.9	TA3
2551	Rodentia	Muridae	Oenomys	hypoxanthus	13.5	18.4	HOL;HA3
2552	Rodentia	Muridae	Oenomys	ornatus			
2553	Rodentia	Muridae	Palawanomys	furus	12.5	16.0	MUN
2554	Rodentia	Muridae	Papagomys	theodorverhoeveni			
2555	Rodentia	Muridae	Papagomys	armandvillei			
2556	Rodentia	Muridae	Parahydromys	asper	21.0	27.0	FL3;PTT
2557	Rodentia	Muridae	Paraleptomys	wilhelmina	11.5	12.6	FL3
2558	Rodentia	Muridae	Paraleptomys	rufilatus	12.7	13.5	PAN;FL3
2559	Rodentia	Muridae	Paramelomys	mollis	14.5	16.8	TA3
2560	Rodentia	Muridae	Paramelomys	moncktoni	13.5	17.0	FL3
2561	Rodentia	Muridae	Paramelomys	naso	16.8	17.0	TA3;PAN
2562	Rodentia	Muridae	Paramelomys	levipes	12.4	16.2	FL3
2563	Rodentia	Muridae	Paramelomys	platyops	8.8	16.0	TA3
2564	Rodentia	Muridae	Paramelomys	rubex	10.0	13.0	FL3
2565	Rodentia	Muridae	Paramelomys	steini	12.4	12.6	TA3;PAN
2566	Rodentia	Muridae	Paramelomys	lorentzii	13.5	19.5	FL3
2567	Rodentia	Muridae	Paramelomys	gressitti			
2568	Rodentia	Muridae	Paruromys	dominator	22.2	25.7	MUN
2569	Rodentia	Muridae	Paulamys	naso			
2570	Rodentia	Muridae	Pelomys	campanae	6.9	15.6	AFR
2571	Rodentia	Muridae	Pelomys	fallax	9.3	21.0	AFR
2572	Rodentia	Muridae	Pelomys	hopkinsi	5.8	17.0	AFR
2573	Rodentia	Muridae	Pelomys	isseli			
2574	Rodentia	Muridae	Pelomys	minor	8.3	16.0	AFR
2575	Rodentia	Muridae	Phloeomys	cumingi	38.2	43.5	PAN;ARK
2576	Rodentia	Muridae	Phloeomys	pallidus	38.2	43	PAN;ARK
2577	Rodentia	Muridae	Pithecheir	parvus	15.0	18.0	FRA
2578	Rodentia	Muridae	Pithecheir	melanurus	15.9	17.6	MUN
2579	Rodentia	Muridae	Pithecheirops	otion			
2580	Rodentia	Muridae	Pogonomelomys	mayeri	13.4	15.5	FL3;PTT
2581	Rodentia	Muridae	Pogonomelomys	bruijni	17.3	18.0	FL3
2582	Rodentia	Muridae	Pogonomys	sylvestris	10.8	13.5	PAN;FL3
2583	Rodentia	Muridae	Pogonomys	fergussoniensis			
2584	Rodentia	Muridae	Pogonomys	loriae	11.0	16.8	TA3;FL3
2585	Rodentia	Muridae	Pogonomys	macrourus	9.2	15.0	FL3
2586	Rodentia	Muridae	Pogonomys	championi	12.2		PAN
2587	Rodentia	Muridae	Pseudohydromys	ellermani	8.5	10.3	FL3
2588	Rodentia	Muridae	Pseudohydromys	fucus	8.0	9.8	FL3
2589	Rodentia	Muridae	Pseudohydromys	murinus	7.0	10.4	FL3
2590	Rodentia	Muridae	Pseudohydromys	occidentalis	10.1	11.5	PAN;FL3
2591	Rodentia	Muridae	Pseudomys	desertor	8.0	9.6	TA3
2592	Rodentia	Muridae	Pseudomys	oralis	16.0		PAN
2593	Rodentia	Muridae	Pseudomys	occidentalis	10.0	11.0	TA3
2594	Rodentia	Muridae	Pseudomys	nanus	9.5	13.0	TA3;IRI
2595	Rodentia	Muridae	Pseudomys	johsoni			
2596	Rodentia	Muridae	Pseudomys	higginsi	12.5	13.2	TA3;MSA
2597	Rodentia	Muridae	Pseudomys	hermannsburgensis	7.5	8.6	TA3;IRI

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
2598	Rodentia	Muridae	Pseudomys	gracilicaudatus	11.0		PAN
2599	Rodentia	Muridae	Pseudomys	gouldii	10.5	11.3	TA3
2600	Rodentia	Muridae	Pseudomys	glaucus	8.8	9.0	PAN;TA3
2601	Rodentia	Muridae	Pseudomys	patrius			
2602	Rodentia	Muridae	Pseudomys	fieldi	9.5	10.6	ARK;PAN
2603	Rodentia	Muridae	Pseudomys	novaehollandiae	7.5	8.3	TA3;PAN
2604	Rodentia	Muridae	Pseudomys	delicatulus	5.5	6.8	TA3;PAN
2605	Rodentia	Muridae	Pseudomys	chapmani			
2606	Rodentia	Muridae	Pseudomys	calabyi			
2607	Rodentia	Muridae	Pseudomys	bolami	8.7		TA3
2608	Rodentia	Muridae	Pseudomys	australis	11.5	13.3	TA3
2609	Rodentia	Muridae	Pseudomys	apodemoides	6.0	9.0	TA3
2610	Rodentia	Muridae	Pseudomys	albocinereus	8.0	9.0	TA3
2611	Rodentia	Muridae	Pseudomys	fumeus	11.3	11.5	PAN;TA3
2612	Rodentia	Muridae	Pseudomys	shortridgei	13.8	14.0	PAN;TA3
2613	Rodentia	Muridae	Pseudomys	pilligaensis			
2614	Rodentia	Muridae	Pseudomys	laborifex			
2615	Rodentia	Muridae	Rattus	novaeguineae	15.5	23.5	FL3
2616	Rodentia	Muridae	Rattus	lutreolus	12.2	19.7	MSA
2617	Rodentia	Muridae	Rattus	sanila			
2618	Rodentia	Muridae	Rattus	salocco			
2619	Rodentia	Muridae	Rattus	richardsoni	12.5	16.4	PAN;FL3
2620	Rodentia	Muridae	Rattus	praetor	14.4	25.2	TA3
2621	Rodentia	Muridae	Rattus	palmarum	22.5	23.0	MUN
2622	Rodentia	Muridae	Rattus	omichlodes	13.2		PAN
2623	Rodentia	Muridae	Rattus	simalurensis			
2624	Rodentia	Muridae	Rattus	norvegicus	15.7	29	GOO;WIKNL
2625	Rodentia	Muridae	Rattus	nitidus	15.1	18.3	LWH;PAN
2626	Rodentia	Muridae	Rattus	pyctoris	14.0	21.1	A76;HAS
2627	Rodentia	Muridae	Rattus	niobe	9.0	13.5	FL3
2628	Rodentia	Muridae	Rattus	ranjiniae			
2629	Rodentia	Muridae	Rattus	nativitatis			
2630	Rodentia	Muridae	Rattus	morotaiensis			
2631	Rodentia	Muridae	Rattus	osgoodi			
2632	Rodentia	Muridae	Rattus	tiomanicus	14	19	ECA
2633	Rodentia	Muridae	Rattus	xanthurus	24.0	26.0	MUN
2634	Rodentia	Muridae	Rattus	villossissimus	18.0	19.5	PAN;TA3
2635	Rodentia	Muridae	Rattus	rattus	10.2	24	CAL;ARK
2636	Rodentia	Muridae	Rattus	vereundus	13.2	17.0	FL3;TA3
2637	Rodentia	Muridae	Rattus	vandeuseeni	13.5		PAN
2638	Rodentia	Muridae	Rattus	pelurus			
2639	Rodentia	Muridae	Rattus	satarae			
2640	Rodentia	Muridae	Rattus	pococki	12.7	12.9	TA3;PAN
2641	Rodentia	Muridae	Rattus	mordax	14.2	25.4	FL3
2642	Rodentia	Muridae	Rattus	timorensis			
2643	Rodentia	Muridae	Rattus	tawitawiensis	19.0		PAN
2644	Rodentia	Muridae	Rattus	tanezumi	14.0	22	A76;ECA
2645	Rodentia	Muridae	Rattus	stoicus	21.3	26.0	MUN
2646	Rodentia	Muridae	Rattus	steini	13.1	20.0	TA3;FL3
2647	Rodentia	Muridae	Rattus	sordidus	13.0	19.8	TA3;FL3

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
2648	Rodentia	Muridae	Rattus	tunneyi	13.1	19.8	PAN;TA3
2649	Rodentia	Muridae	Rattus	montanus			
2650	Rodentia	Muridae	Rattus	exulans	9.5	16.3	A21;A63
2651	Rodentia	Muridae	Rattus	everetti	16.4	27.1	HEC;HKT
2652	Rodentia	Muridae	Rattus	enganus	22.8		MUN
2653	Rodentia	Muridae	Rattus	elaphinus			
2654	Rodentia	Muridae	Rattus	colletti	13.0		TA3
2655	Rodentia	Muridae	Rattus	feliceus	20.0	23.0	SER
2656	Rodentia	Muridae	Rattus	blangorum			
2657	Rodentia	Muridae	Rattus	bontanus			
2658	Rodentia	Muridae	Rattus	arrogans	13.1	14.0	PAN;TA3
2659	Rodentia	Muridae	Rattus	argentiventer	14	21	FRA
2660	Rodentia	Muridae	Rattus	arfakiensis	13.3	13.5	TA3;PAN
2661	Rodentia	Muridae	Rattus	annandalei	17.3	22.0	MUN;ECA
2662	Rodentia	Muridae	Rattus	andamanensis	12.8	19.0	CHN;PAN
2663	Rodentia	Muridae	Rattus	adustus			
2664	Rodentia	Muridae	Rattus	burrus			
2665	Rodentia	Muridae	Rattus	jobiensis	15.6	25.2	TA3
2666	Rodentia	Muridae	Rattus	mindorensis	19.0		PAN
2667	Rodentia	Muridae	Rattus	macleari	21.0	26.0	MUN
2668	Rodentia	Muridae	Rattus	lugens	21.2	25.1	MUN
2669	Rodentia	Muridae	Rattus	losea	14.0	16.5	A76
2670	Rodentia	Muridae	Rattus	leucopus	14.5	22.3	TA3;FL3
2671	Rodentia	Muridae	Rattus	korinchi			
2672	Rodentia	Muridae	Rattus	fusipes	10.5	21.4	TA3;MSA
2673	Rodentia	Muridae	Rattus	koopmani			
2674	Rodentia	Muridae	Rattus	mollicomulus			
2675	Rodentia	Muridae	Rattus	marmosurus			
2676	Rodentia	Muridae	Rattus	baluensis	19.0		PAN
2677	Rodentia	Muridae	Rattus	hoogerwerfi			
2678	Rodentia	Muridae	Rattus	hoffmanni			
2679	Rodentia	Muridae	Rattus	hainaldi			
2680	Rodentia	Muridae	Rattus	giluwensis	13.6	18.7	FL3
2681	Rodentia	Muridae	Rhabdomys	directive	5.7	19.9	AFR
2682	Rodentia	Muridae	Rhabdomys	pumilio	9.0	13.5	KIF
2683	Rodentia	Muridae	Rhagamys	orthodon			
2684	Rodentia	Muridae	Rhynchomys	isarogensis	18.7		PAN
2685	Rodentia	Muridae	Rhynchomys	soricoides	20.1		PAN
2686	Rodentia	Muridae	Solomys	salebrosus	22.9		TA3
2687	Rodentia	Muridae	Solomys	sapientis	25.0	27.0	ARK;PAN
2688	Rodentia	Muridae	Solomys	salamonis	22.3	27.0	TA3;PAN
2689	Rodentia	Muridae	Solomys	ponceleti	27.0	33.0	PAN;TA3
2690	Rodentia	Muridae	Solomys	spriggsarum			
2691	Rodentia	Muridae	Sommeromys	macrorhinos			
2692	Rodentia	Muridae	Spelaeomys	floreensis			
2693	Rodentia	Muridae	Srilankamys	ohiensis			
2694	Rodentia	Muridae	Stenocephalemys	ruppi			
2695	Rodentia	Muridae	Stenocephalemys	albipes			
2696	Rodentia	Muridae	Stenocephalemys	albocaudata			
2697	Rodentia	Muridae	Stenocephalemys	griseicauda			

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
2698	Rodentia	Muridae	Stochomys	longicaudatus	12	17.5	KIF
2699	Rodentia	Muridae	Sundamys	maxi	21.8	27.0	MUN
2700	Rodentia	Muridae	Sundamys	mulleri	17.9	29.9	MUN
2701	Rodentia	Muridae	Sundamys	infraluteus	22.9	28.2	MUN
2702	Rodentia	Muridae	Taeromys	punicans			
2703	Rodentia	Muridae	Taeromys	callitrichus	20.0	24.0	MUN
2704	Rodentia	Muridae	Taeromys	taerae			
2705	Rodentia	Muridae	Taeromys	microbullatus			
2706	Rodentia	Muridae	Taeromys	hamatus			
2707	Rodentia	Muridae	Taeromys	arcuatus			
2708	Rodentia	Muridae	Taeromys	celebensis	20.6	24.9	MUN
2709	Rodentia	Muridae	Tarsomys	echinatus			
2710	Rodentia	Muridae	Tarsomys	apoensis	13.7	15.7	HKT;PAN
2711	Rodentia	Muridae	Tateomys	macrocercus	11.0	12.0	MUC
2712	Rodentia	Muridae	Tateomys	rhinogradoides	14.9	15.6	MUC
2713	Rodentia	Muridae	Thallomys	loringi	13.0	16.0	HOL
2714	Rodentia	Muridae	Thallomys	shortridgei			
2715	Rodentia	Muridae	Thallomys	nigricauda	11.0	16.2	AFR;HIL
2716	Rodentia	Muridae	Thallomys	paedulcus	10.5	15.6	AFR;BOT
2717	Rodentia	Muridae	Thamnomys	kempi	13.6	15.3	AFR
2718	Rodentia	Muridae	Thamnomys	major	15.6		HA1
2719	Rodentia	Muridae	Thamnomys	venustus	8.4	14.5	AFR
2720	Rodentia	Muridae	Tokudaia	muenninki	12.0	17.5	EDG
2721	Rodentia	Muridae	Tokudaia	osimensis			
2722	Rodentia	Muridae	Tryphomys	adustus	13.1	17.4	MUN
2723	Rodentia	Muridae	Uromys	siebersi	27.5	28.0	PAN;TA3
2724	Rodentia	Muridae	Uromys	boeadii			
2725	Rodentia	Muridae	Uromys	anak	27.0	35.0	FL3;TA3
2726	Rodentia	Muridae	Uromys	hadrorurus	13.5		PAN
2727	Rodentia	Muridae	Uromys	emmae			
2728	Rodentia	Muridae	Uromys	neobritannicus			
2729	Rodentia	Muridae	Uromys	caudimaculatus	18.5	37.3	TA3
2730	Rodentia	Muridae	Uromys	porculus	21.6	22.0	PAN;TA3
2731	Rodentia	Muridae	Uromys	rex	25.0	28.0	TA3
2732	Rodentia	Muridae	Uromys	imperator	26.0		TA3
2733	Rodentia	Muridae	Vandeleuria	nilagirica	5.5	8.5	ARK
2734	Rodentia	Muridae	Vandeleuria	nolthenii			
2735	Rodentia	Muridae	Vandeleuria	oleracea	5.5	8.5	FRA
2736	Rodentia	Muridae	Vernaya	fulva	5.8	8.0	MSA;FRA
2737	Rodentia	Muridae	Xenuromys	barbatus	27.5	34.0	FL3
2738	Rodentia	Muridae	Xeromys	myoides	10.0	12.0	TA3
2739	Rodentia	Muridae	Zelotomys	hildegardae	11.9	13.8	HOL;HIL
2740	Rodentia	Muridae	Zelotomys	woosnami	10.7	14.4	BOT;SAS
2741	Rodentia	Muridae	Zyzomys	argurus	8.5	13.1	TA3;IRI
2742	Rodentia	Muridae	Zyzomys	maini			
2743	Rodentia	Muridae	Zyzomys	palatilis			
2744	Rodentia	Muridae	Zyzomys	pedunculatus	12.5	12.7	TA3;PAN
2745	Rodentia	Muridae	Zyzomys	woodwardi	14.6	16.7	PAN;TA3
2746	Rodentia	Muridae	Leimacomys	buttnieri	11.8		KIF
2747	Rodentia	Muridae	Myotomys	sloggetti	8.0	17.4	SAS;RIC

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
2748	Rodentia	Muridae	Myotomys	unisulcatus	13.0	16.0	SAS
2749	Rodentia	Muridae	Otomys	irroratus	15.0	19.2	SAS;CR3
2750	Rodentia	Muridae	Otomys	typus			
2751	Rodentia	Muridae	Otomys	tropicalis	12.3	21.0	AFR
2752	Rodentia	Muridae	Otomys	saunderiae	15.0		SAS
2753	Rodentia	Muridae	Otomys	orestes	13.5	17.5	CR3
2754	Rodentia	Muridae	Otomys	occidentalis			
2755	Rodentia	Muridae	Otomys	maximus	18.2	20.9	PAN;HIL
2756	Rodentia	Muridae	Otomys	laminatus	16.0	21.3	SAS
2757	Rodentia	Muridae	Otomys	angoniensis	11.7	21.0	BOT;SAS
2758	Rodentia	Muridae	Otomys	jacksoni			
2759	Rodentia	Muridae	Otomys	uzungwensis			
2760	Rodentia	Muridae	Otomys	dollmani	13.8	15.0	CR3
2761	Rodentia	Muridae	Otomys	denti	16.0	16.8	AFR
2762	Rodentia	Muridae	Otomys	dartmouthi	18.5		AFR
2763	Rodentia	Muridae	Otomys	cuanzensis	17.8	18.6	HIL
2764	Rodentia	Muridae	Otomys	burtoni			
2765	Rodentia	Muridae	Otomys	barbouri			
2766	Rodentia	Muridae	Otomys	anchietae	18.7	21.7	HIL
2767	Rodentia	Muridae	Otomys	lacustris	13.3	16.8	AFR
2768	Rodentia	Muridae	Parotomys	littledalei	13.0	17.0	SAS
2769	Rodentia	Muridae	Parotomys	brantsii	13.5	16.5	BOT;SAS
2770	Rodentia	Platacanthomyidae	Platacanthomys	lasiurus	12.7		WIKE
2771	Rodentia	Platacanthomyidae	Typhlomys	cinereus	6.7	9.8	CHN;EDG
2772	Rodentia	Spalacidae	Eospalax	fontanieri	15.5	24.5	CHN
2773	Rodentia	Spalacidae	Eospalax	rothschildi	14.7	17.2	A76;CHN
2774	Rodentia	Spalacidae	Eospalax	smithii	14.8	25.5	A76;CHN
2775	Rodentia	Spalacidae	Myospalax	psilurus	27.0		A76
2776	Rodentia	Spalacidae	Myospalax	aspalax	20.1	20.3	TDS
2777	Rodentia	Spalacidae	Myospalax	myospalax			
2778	Rodentia	Spalacidae	Cannomys	badius	15.0	26.5	FRA
2779	Rodentia	Spalacidae	Rhizomys	sinensis	21.6	45.1	CHN;A76
2780	Rodentia	Spalacidae	Rhizomys	sumatrensis	28.0	48.0	FRA;CHN
2781	Rodentia	Spalacidae	Rhizomys	pruinosus	24.0	36.5	CHN;CAR
2782	Rodentia	Spalacidae	Spalax	graecus	26.0	30.0	GÖH
2783	Rodentia	Spalacidae	Spalax	nehringi			
2784	Rodentia	Spalacidae	Spalax	uralensis			
2785	Rodentia	Spalacidae	Spalax	microphthalmus			
2786	Rodentia	Spalacidae	Spalax	leucodon	15.0	24.0	GÖH
2787	Rodentia	Spalacidae	Spalax	judaei			
2788	Rodentia	Spalacidae	Spalax	giganteus			
2789	Rodentia	Spalacidae	Spalax	galili			
2790	Rodentia	Spalacidae	Spalax	ehrenbergi	15	27	KIF
2791	Rodentia	Spalacidae	Spalax	arenarius			
2792	Rodentia	Spalacidae	Spalax	carmeli			
2793	Rodentia	Spalacidae	Spalax	zemni	20.0	28.0	GÖH
2794	Rodentia	Spalacidae	Spalax	golani			
2795	Rodentia	Spalacidae	Tachyoryctes	ibeanus	18.1	20.9	HOL
2796	Rodentia	Spalacidae	Tachyoryctes	storeyi			
2797	Rodentia	Spalacidae	Tachyoryctes	splendens	11.7	24.8	AFR

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
2798	Rodentia	Spalacidae	Tachyoryctes	spalacinus	22.4	23.5	HOL
2799	Rodentia	Spalacidae	Tachyoryctes	ruddi	17.0	19.0	HOL
2800	Rodentia	Spalacidae	Tachyoryctes	ruandae			
2801	Rodentia	Spalacidae	Tachyoryctes	rex	22.2	26.8	HOL
2802	Rodentia	Spalacidae	Tachyoryctes	macrocephalus	21.0	31.3	MSA
2803	Rodentia	Spalacidae	Tachyoryctes	daemon	13.2	20.3	AFR
2804	Rodentia	Spalacidae	Tachyoryctes	audax	18.0	22.5	HOL
2805	Rodentia	Spalacidae	Tachyoryctes	annectens			
2806	Rodentia	Spalacidae	Tachyoryctes	ankoliae	19.8	20.0	
2807	Rodentia	Spalacidae	Tachyoryctes	naivashae	18.7	22.8	HOL
2808	Rodentia	Calomyscidae	Calomyscus	grandis	7.4	9.1	WIKE
2809	Rodentia	Calomyscidae	Calomyscus	tsolovi			
2810	Rodentia	Calomyscidae	Calomyscus	urartensis			
2811	Rodentia	Calomyscidae	Calomyscus	hotsoni			
2812	Rodentia	Calomyscidae	Calomyscus	baluchi			
2813	Rodentia	Calomyscidae	Calomyscus	bailwardi	6.1	9.8	HAS
2814	Rodentia	Calomyscidae	Calomyscus	mystax	7.5	9.0	ROD
2815	Rodentia	Calomyscidae	Calomyscus	elburzensis	8.0		GWI
2816	Rodentia	Anomaluridae	Anomalurus	beecrofti	21.7	38.0	ANO
2817	Rodentia	Anomaluridae	Anomalurus	derbianus	22	38.5	ANO
2818	Rodentia	Anomaluridae	Anomalurus	pelii	36.8	54.6	ANO
2819	Rodentia	Anomaluridae	Anomalurus	pusillus	18.5	25.5	KIF;ANO
2820	Rodentia	Anomaluridae	Idiurus	macrotis	7.3	11.6	A18;ANO
2821	Rodentia	Anomaluridae	Idiurus	zenkeri	6.2	8.6	ANO
2822	Rodentia	Anomaluridae	Zenkerella	insignis	18	23	ARK
2823	Rodentia	Pedetidae	Pedetes	capensis	35	45	ADW
2824	Rodentia	Pedetidae	Pedetes	surdaster	35.3	40.7	HOL
2825	Rodentia	Ctenodactylidae	Ctenodactylus	vali	17.6		PAN
2826	Rodentia	Ctenodactylidae	Ctenodactylus	gundi	15.5	20.8	AFR;PAN
2827	Rodentia	Ctenodactylidae	Felovia	vae	15	21	KIF
2828	Rodentia	Ctenodactylidae	Massoutiera	mzabi	11.5	16.0	GRD
2829	Rodentia	Ctenodactylidae	Pectinator	spekei	15.0	18.0	PBM;KIF
2830	Rodentia	Bathyergidae	Bathyergus	janetta	18.5	20.0	SAS
2831	Rodentia	Bathyergidae	Bathyergus	suillus	25	28	SAS
2832	Rodentia	Bathyergidae	Cryptomys	hottentotus	10.5	16.5	ADW
2833	Rodentia	Bathyergidae	Cryptomys	zechi			
2834	Rodentia	Bathyergidae	Cryptomys	ochraceocinereus	15.7	20.0	HA2
2835	Rodentia	Bathyergidae	Cryptomys	mechowi	14.0	27.0	AFR;HIL
2836	Rodentia	Bathyergidae	Cryptomys	kafuensis			
2837	Rodentia	Bathyergidae	Cryptomys	darlingi			
2838	Rodentia	Bathyergidae	Cryptomys	damarensis	8.4	19.6	MSA
2839	Rodentia	Bathyergidae	Cryptomys	bocagei	12.2	15.2	HIL
2840	Rodentia	Bathyergidae	Cryptomys	foxi			
2841	Rodentia	Bathyergidae	Cryptomys	amatus	12.4	13.1	HA3
2842	Rodentia	Bathyergidae	Cryptomys	anselli			
2843	Rodentia	Bathyergidae	Georychus	capensis	14	20.5	KIF;ADW
2844	Rodentia	Bathyergidae	Heliosciurus	argenteocinereus	10.0	25.0	KIF;AFR
2845	Rodentia	Bathyergidae	Heterocephalus	glaber	8.0	13.6	KIF;MSA
2846	Rodentia	Hystricidae	Atherurus	macrourus	38.1	52.5	A76
2847	Rodentia	Hystricidae	Atherurus	africanus	36.5	61	HA2;AFR

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
2848	Rodentia	Hystricidae	Hystrix	africanaustralis	52.5	100	MSA;KIF
2849	Rodentia	Hystricidae	Hystrix	cristata	60	100	KIF
2850	Rodentia	Hystricidae	Hystrix	indica	70	90	ADW
2851	Rodentia	Hystricidae	Hystrix	brachyura	52.9		PAN
2852	Rodentia	Hystricidae	Hystrix	javanica			
2853	Rodentia	Hystricidae	Hystrix	pumila	49	60	ARK
2854	Rodentia	Hystricidae	Hystrix	crassispinis	54.2		PAN
2855	Rodentia	Hystricidae	Hystrix	sumatrae	45	56	ADW
2856	Rodentia	Hystricidae	Trichys	fasciculata	41.5	48	PAN;ADW
2857	Rodentia	Petromuridae	Petromus	typicus	13.5	21	KIF
2858	Rodentia	Ctenomyidae	Ctenomys	juris			
2859	Rodentia	Ctenomyidae	Ctenomys	fodax			
2860	Rodentia	Ctenomyidae	Ctenomys	frater	16.0	19.6	CAY;ANB
2861	Rodentia	Ctenomyidae	Ctenomys	fulvus	18.6	23.4	A64
2862	Rodentia	Ctenomyidae	Ctenomys	leucodon	11.5	20.0	ANB;CAY
2863	Rodentia	Ctenomyidae	Ctenomys	goodfellowi	18.6	24.0	ANB
2864	Rodentia	Ctenomyidae	Ctenomys	johannis			
2865	Rodentia	Ctenomyidae	Ctenomys	boliviensis	21.8	27.6	A69;AYC
2866	Rodentia	Ctenomyidae	Ctenomys	knighti			
2867	Rodentia	Ctenomyidae	Ctenomys	lami	16.3	21.8	FRT
2868	Rodentia	Ctenomyidae	Ctenomys	latro			
2869	Rodentia	Ctenomyidae	Ctenomys	fochi			
2870	Rodentia	Ctenomyidae	Ctenomys	haigi	15.5	17.3	ADW;PAN
2871	Rodentia	Ctenomyidae	Ctenomys	flamarioni			
2872	Rodentia	Ctenomyidae	Ctenomys	famosus			
2873	Rodentia	Ctenomyidae	Ctenomys	emilianus			
2874	Rodentia	Ctenomyidae	Ctenomys	dorsalis	20.0		PAN
2875	Rodentia	Ctenomyidae	Ctenomys	dorbignyi			
2876	Rodentia	Ctenomyidae	Ctenomys	coyhaiquensis			
2877	Rodentia	Ctenomyidae	Ctenomys	conoveri	25.9	55.8	PAN;AYC
2878	Rodentia	Ctenomyidae	Ctenomys	coludo			
2879	Rodentia	Ctenomyidae	Ctenomys	lewisi	10.5	21.9	ANB;CAY
2880	Rodentia	Ctenomyidae	Ctenomys	bonettoi			
2881	Rodentia	Ctenomyidae	Ctenomys	pundti			
2882	Rodentia	Ctenomyidae	Ctenomys	bergi			
2883	Rodentia	Ctenomyidae	Ctenomys	azarae			
2884	Rodentia	Ctenomyidae	Ctenomys	australis			
2885	Rodentia	Ctenomyidae	Ctenomys	budini			
2886	Rodentia	Ctenomyidae	Ctenomys	scagliai			
2887	Rodentia	Ctenomyidae	Ctenomys	argentinus			
2888	Rodentia	Ctenomyidae	Ctenomys	brasiliensis			
2889	Rodentia	Ctenomyidae	Ctenomys	yolandae			
2890	Rodentia	Ctenomyidae	Ctenomys	viperinus			
2891	Rodentia	Ctenomyidae	Ctenomys	validus			
2892	Rodentia	Ctenomyidae	Ctenomys	tulduco			
2893	Rodentia	Ctenomyidae	Ctenomys	tucumanus			
2894	Rodentia	Ctenomyidae	Ctenomys	tuconax			
2895	Rodentia	Ctenomyidae	Ctenomys	torquatius	18.7		PAN
2896	Rodentia	Ctenomyidae	Ctenomys	talarum	13.9	17.9	SCL;MSA
2897	Rodentia	Ctenomyidae	Ctenomys	sylvanus			

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
2898	Rodentia	Ctenomyidae	Ctenomys	steinbachi	19.7	24.8	PAN;AYC
2899	Rodentia	Ctenomyidae	Ctenomys	pontifex			
2900	Rodentia	Ctenomyidae	Ctenomys	sericeus	14.4	15.0	A64
2901	Rodentia	Ctenomyidae	Ctenomys	mendocinus	16.0	18.9	MSA
2902	Rodentia	Ctenomyidae	Ctenomys	saltarius			
2903	Rodentia	Ctenomyidae	Ctenomys	roigi			
2904	Rodentia	Ctenomyidae	Ctenomys	rionegrensis			
2905	Rodentia	Ctenomyidae	Ctenomys	porteousi			
2906	Rodentia	Ctenomyidae	Ctenomys	pilarensis			
2907	Rodentia	Ctenomyidae	Ctenomys	peruanus	23.8		PAN
2908	Rodentia	Ctenomyidae	Ctenomys	perrensi			
2909	Rodentia	Ctenomyidae	Ctenomys	pearsoni			
2910	Rodentia	Ctenomyidae	Ctenomys	osvaldoreigi			
2911	Rodentia	Ctenomyidae	Ctenomys	opimus	19.5	25.1	ANB;CAY
2912	Rodentia	Ctenomyidae	Ctenomys	occultus			
2913	Rodentia	Ctenomyidae	Ctenomys	minutus	14.1	15.7	AYC
2914	Rodentia	Ctenomyidae	Ctenomys	sociabilis	16.8	24.7	ADW
2915	Rodentia	Ctenomyidae	Ctenomys	colburni	14.0	17.0	A64
2916	Rodentia	Ctenomyidae	Ctenomys	magellanicus	21.6		PAN
2917	Rodentia	Ctenomyidae	Ctenomys	maulinus			
2918	Rodentia	Echimyidae	Phyllomys	medius	23.0		EML
2919	Rodentia	Echimyidae	Phyllomys	mantiqueirensis	21.7		LEI
2920	Rodentia	Echimyidae	Phyllomys	lundi	18.4	20.9	LEI
2921	Rodentia	Echimyidae	Phyllomys	unicolor	28.0		EML
2922	Rodentia	Echimyidae	Phyllomys	nigrispinus	21.4	24.1	PAN;EML
2923	Rodentia	Echimyidae	Phyllomys	thomasi	28.1	28.5	PAN;EML
2924	Rodentia	Echimyidae	Phyllomys	blainvillii	26.0		EML
2925	Rodentia	Echimyidae	Phyllomys	brasiliensis			
2926	Rodentia	Echimyidae	Phyllomys	dasythrix			
2927	Rodentia	Echimyidae	Phyllomys	kerri	21.2		EML
2928	Rodentia	Echimyidae	Phyllomys	lamarum	22.5		EML
2929	Rodentia	Echimyidae	Phyllomys	pattoni	23.0		LEI
2930	Rodentia	Echimyidae	Callistomys	pictus	25.0	29.5	EMV
2931	Rodentia	Echimyidae	Diplomys	rufodorsalis	18.1		AL2
2932	Rodentia	Echimyidae	Diplomys	labilis	21.2	34.0	FGC
2933	Rodentia	Echimyidae	Diplomys	caniceps			
2934	Rodentia	Echimyidae	Echimys	chrysurus	27.5	33.3	RIH
2935	Rodentia	Echimyidae	Echimys	semivilosus	20	26.8	ADW
2936	Rodentia	Echimyidae	Echimys	saturnus			
2937	Rodentia	Echimyidae	Isothrix	sinnamariensis	21.7		PAN
2938	Rodentia	Echimyidae	Isothrix	pagurus			
2939	Rodentia	Echimyidae	Isothrix	negrensis			
2940	Rodentia	Echimyidae	Isothrix	bistriata	23.2	29.2	PAD
2941	Rodentia	Echimyidae	Makalata	grandis			
2942	Rodentia	Echimyidae	Makalata	rhipidura			
2943	Rodentia	Echimyidae	Makalata	occasius			
2944	Rodentia	Echimyidae	Makalata	macrura	23.3	25.6	PAD;HIC
2945	Rodentia	Echimyidae	Makalata	didelphoides	16.5	27.5	ANB;RIH
2946	Rodentia	Echimyidae	Makalata	obscura			
2947	Rodentia	Echimyidae	Carterodon	sulcidens	13.5	25.0	BEZ

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
2948	Rodentia	Echimyidae	Clyomys	bishopi			
2949	Rodentia	Echimyidae	Clyomys	laticeps			
2950	Rodentia	Echimyidae	Euryzygomatomys	spinosus			
2951	Rodentia	Echimyidae	Hoplomys	gymnurus	20.5	38.0	FGC;G12
2952	Rodentia	Echimyidae	Lonchothrix	emiliae			
2953	Rodentia	Echimyidae	Mesomys	stimulax	15.8		VOL
2954	Rodentia	Echimyidae	Mesomys	hispidus	16.3	20.9	PAD;OSG
2955	Rodentia	Echimyidae	Mesomys	occultus	16.7		PAD
2956	Rodentia	Echimyidae	Mesomys	leniceps			
2957	Rodentia	Echimyidae	Proechimys	pattoni	17.2	18.7	PAD
2958	Rodentia	Echimyidae	Proechimys	oconnelli	24.5		A14
2959	Rodentia	Echimyidae	Proechimys	trinitatus	23.1	28.0	A57;AL2
2960	Rodentia	Echimyidae	Proechimys	urichi	20.4	22.3	AL2
2961	Rodentia	Echimyidae	Proechimys	steerei	19.8	31.0	PAD;A56
2962	Rodentia	Echimyidae	Proechimys	guairae			
2963	Rodentia	Echimyidae	Proechimys	simonsi	13.7	24.9	ANB;PAD
2964	Rodentia	Echimyidae	Proechimys	semispinosus	21.0	29.7	A46;G12
2965	Rodentia	Echimyidae	Proechimys	roberti	17.8	28.5	CHP
2966	Rodentia	Echimyidae	Proechimys	poliopus			
2967	Rodentia	Echimyidae	Proechimys	decumanus			
2968	Rodentia	Echimyidae	Proechimys	goeldii			
2969	Rodentia	Echimyidae	Proechimys	quadruplicatus	21.6	37.7	HIC
2970	Rodentia	Echimyidae	Proechimys	echinotrix	21.1	23.1	PAD
2971	Rodentia	Echimyidae	Proechimys	mincae	21.4	26.6	AL2
2972	Rodentia	Echimyidae	Proechimys	cuvieri	14.4	28.7	PAD;VOL
2973	Rodentia	Echimyidae	Proechimys	chrysaeolus			
2974	Rodentia	Echimyidae	Proechimys	canicollis	21.7	25.5	AL2
2975	Rodentia	Echimyidae	Proechimys	guyannensis	15.6	22.0	VOL;PAN
2976	Rodentia	Echimyidae	Proechimys	hoplomyoides			
2977	Rodentia	Echimyidae	Proechimys	kulinae	15.7	18.8	PAD
2978	Rodentia	Echimyidae	Proechimys	longicaudatus	17.4	25.0	ANB;A69
2979	Rodentia	Echimyidae	Proechimys	gardneri	15.4	20.1	PAD
2980	Rodentia	Echimyidae	Proechimys	magdalenae			
2981	Rodentia	Echimyidae	Proechimys	brevicauda	17.5	33.9	ANB;HIC
2982	Rodentia	Echimyidae	Thrichomys	inermis			
2983	Rodentia	Echimyidae	Thrichomys	pachyurus	20.0	24.5	BOD
2984	Rodentia	Echimyidae	Thrichomys	apereoides	22.5	25.6	MSA
2985	Rodentia	Echimyidae	Trinomys	paratus			
2986	Rodentia	Echimyidae	Trinomys	dimidiatus	18	23	MSA
2987	Rodentia	Echimyidae	Trinomys	gratiosus			
2988	Rodentia	Echimyidae	Trinomys	iheringi	18.0	22.8	MSA
2989	Rodentia	Echimyidae	Trinomys	mirapitanga			
2990	Rodentia	Echimyidae	Trinomys	moojeni			
2991	Rodentia	Echimyidae	Trinomys	myosuros			
2992	Rodentia	Echimyidae	Trinomys	eliasi			
2993	Rodentia	Echimyidae	Trinomys	yonenagae			
2994	Rodentia	Echimyidae	Trinomys	albispinus	15.2	20.5	MSA
2995	Rodentia	Echimyidae	Trinomys	setosus			
2996	Rodentia	Echimyidae	Dactylomys	peruanus	22.8	24.0	A65
2997	Rodentia	Echimyidae	Dactylomys	dactylinus	28.5	32.8	PAN;A67

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
2998	Rodentia	Echimyidae	Dactylomys	boliviensis	19.5	30.0	ANB
2999	Rodentia	Echimyidae	Kannabateomys	amblyonyx	23	34.7	ADW
3000	Rodentia	Echimyidae	Olallamys	edax			
3001	Rodentia	Echimyidae	Olallamys	albicauda			
3002	Rodentia	Echimyidae	Boromys	offella			
3003	Rodentia	Echimyidae	Boromys	torrei			
3004	Rodentia	Echimyidae	Brotomys	contractus			
3005	Rodentia	Echimyidae	Brotomys	voratus			
3006	Rodentia	Echimyidae	Heteropsomys	insulans			
3007	Rodentia	Echimyidae	Heteropsomys	antillensis			
3008	Rodentia	Thryonomyidae	Thryonomys	gregorianus	30	51	SAS;KIF
3009	Rodentia	Thryonomyidae	Thryonomys	swinderianus	35	61	ADW
3010	Rodentia	Erethizontidae	Chaetomys	subspinosus	38	60	ADW;PAN
3011	Rodentia	Erethizontidae	Coendou	rothschildi	33.2	42.0	FGC
3012	Rodentia	Erethizontidae	Coendou	prehensilis	30	68.0	ADW;ANB
3013	Rodentia	Erethizontidae	Coendou	nycthemera	35.0		PAN
3014	Rodentia	Erethizontidae	Coendou	bicolor	35.0	49.3	A14;ANB
3015	Rodentia	Erethizontidae	Echinoprocta	rufescens			
3016	Rodentia	Erethizontidae	Erethizon	dorsatum	50.0	103	CMX;MSA
3017	Rodentia	Erethizontidae	Sphiggurus	insidiosus			
3018	Rodentia	Erethizontidae	Sphiggurus	villosus			
3019	Rodentia	Erethizontidae	Sphiggurus	vestitus	33.0	37.0	VS1
3020	Rodentia	Erethizontidae	Sphiggurus	melanurus	33.0	46.0	VOL;RIH
3021	Rodentia	Erethizontidae	Sphiggurus	roosmalenorum	29.0		VS1
3022	Rodentia	Erethizontidae	Sphiggurus	mexicanus	32.0	52.0	FGC;G15
3023	Rodentia	Erethizontidae	Sphiggurus	pruinosus	30.0	38.0	VS1
3024	Rodentia	Erethizontidae	Sphiggurus	ichillus	26.0	29.0	VS1
3025	Rodentia	Erethizontidae	Sphiggurus	spinosus			
3026	Rodentia	Chinchillidae	Chinchilla	chinchilla	22.5	38	EDG
3027	Rodentia	Chinchillidae	Chinchilla	lanigera	22.5	38	ARK
3028	Rodentia	Chinchillidae	Lagidium	wolffsohni			
3029	Rodentia	Chinchillidae	Lagidium	peruanum	30	45	ADW
3030	Rodentia	Chinchillidae	Lagidium	viscacia	33.0	44.0	ANB
3031	Rodentia	Chinchillidae	Lagostomus	crassus			
3032	Rodentia	Chinchillidae	Lagostomus	maximus	39.5	61.5	MSA
3033	Rodentia	Dinomyidae	Dinomys	branickii	57.0	79	ANB;MSA
3034	Rodentia	Caviidae	Cavia	intermedia	20	40	EDG
3035	Rodentia	Caviidae	Cavia	aperea	19.6	32	ADW
3036	Rodentia	Caviidae	Cavia	fulgida			
3037	Rodentia	Caviidae	Cavia	porcellus	20.3	25.4	ADW
3038	Rodentia	Caviidae	Cavia	tschudii	22.3	25.0	ANB
3039	Rodentia	Caviidae	Cavia	magna			
3040	Rodentia	Caviidae	Galea	musteloides	20.3	23.9	ANB
3041	Rodentia	Caviidae	Galea	spixii	19.5	28.0	ANB
3042	Rodentia	Caviidae	Galea	flavidens	20.5	23.1	CHP
3043	Rodentia	Caviidae	Microcavia	australis	17.0	24.5	MSA
3044	Rodentia	Caviidae	Microcavia	niata	17.0	19.0	ANB
3045	Rodentia	Caviidae	Microcavia	shiptoni			
3046	Rodentia	Caviidae	Dolichotis	salinicola	40.4	48.5	ANB;ADW
3047	Rodentia	Caviidae	Dolichotis	patagonum	61	81	MSA

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
3048	Rodentia	Caviidae	Hydrochoerus	hydrochaeris	62	134	ANB;ARK
3049	Rodentia	Caviidae	Hydrochoerus	isthmius			
3050	Rodentia	Caviidae	Kerodon	rupestris	20	40	ADW
3051	Rodentia	Caviidae	Kerodon	acrobata			
3052	Rodentia	Dasyproctidae	Dasyprocta	azarae			
3053	Rodentia	Dasyproctidae	Dasyprocta	guamara			
3054	Rodentia	Dasyproctidae	Dasyprocta	ruatanica	32	46	ADW
3055	Rodentia	Dasyproctidae	Dasyprocta	fuliginosa	41.5	62	ADW
3056	Rodentia	Dasyproctidae	Dasyprocta	kalinowskii			
3057	Rodentia	Dasyproctidae	Dasyprocta	cristata			
3058	Rodentia	Dasyproctidae	Dasyprocta	leporina	38.8	65.2	RIH
3059	Rodentia	Dasyproctidae	Dasyprocta	mexicana	34.0	61.0	LEE;GWO
3060	Rodentia	Dasyproctidae	Dasyprocta	prymnolopha			
3061	Rodentia	Dasyproctidae	Dasyprocta	punctata	37.5	62	ANB;A56
3062	Rodentia	Dasyproctidae	Dasyprocta	coibae	43.5	52	A31
3063	Rodentia	Dasyproctidae	Myoprocta	pratti	36.0		A14
3064	Rodentia	Dasyproctidae	Myoprocta	acouchy	24.0	47.9	RIH
3065	Rodentia	Cuniculidae	Cuniculus	taczanowskii	60	82	ADW
3066	Rodentia	Cuniculidae	Cuniculus	paca	50.0	80	FGC;MSA
3067	Rodentia	Octodontidae	Aconaemys	sagei			
3068	Rodentia	Octodontidae	Aconaemys	fuscus	17.7	17.9	SCL
3069	Rodentia	Octodontidae	Aconaemys	porteri			
3070	Rodentia	Octodontidae	Octodon	pacificus	12.5	19.5	EDG
3071	Rodentia	Octodontidae	Octodon	bridgesi	16.0		PAN
3072	Rodentia	Octodontidae	Octodon	degus	25.0	31	MSA
3073	Rodentia	Octodontidae	Octodon	lunatus			
3074	Rodentia	Octodontidae	Octodontomys	gliroides	16.4	17.6	ANB
3075	Rodentia	Octodontidae	Octomys	mimax			
3076	Rodentia	Octodontidae	Pipanacoctomys	aureus			
3077	Rodentia	Octodontidae	Salinocytomys	loschalchalerosorum			
3078	Rodentia	Octodontidae	Spalacopus	cyanus	11.4	16	MSA;ADW
3079	Rodentia	Octodontidae	Typanoctomys	barrerae	12.9		MSA
3080	Rodentia	Abrocomidae	Abrocoma	boliviensis	17.0	17.8	EDG
3081	Rodentia	Abrocomidae	Abrocoma	budini			
3082	Rodentia	Abrocomidae	Abrocoma	cinerea	15	25	ADW
3083	Rodentia	Abrocomidae	Abrocoma	famatina			
3084	Rodentia	Abrocomidae	Abrocoma	shistacea			
3085	Rodentia	Abrocomidae	Abrocoma	uspallata			
3086	Rodentia	Abrocomidae	Abrocoma	vaccarum			
3087	Rodentia	Abrocomidae	Abrocoma	bennettii	15	25	BRA
3088	Rodentia	Abrocomidae	Cuscomys	ashaninka	34.6		EM2
3089	Rodentia	Abrocomidae	Cuscomys	oblativa			
3090	Rodentia	Myocastoridae	Myocastor	coypus	40.0	65.0	GÖH
3091	Rodentia	Capromyidae	Capromys	pilorides	47.3	60	CH2
3092	Rodentia	Capromyidae	Capromys	gundlachianus			
3093	Rodentia	Capromyidae	Geocapromys	brownii	33	44.8	ADW;MSA
3094	Rodentia	Capromyidae	Geocapromys	ingrahami	20	60	ADW
3095	Rodentia	Capromyidae	Geocapromys	thoracatus	31	34.4	MSA
3096	Rodentia	Capromyidae	Mesocapromys	nanus			
3097	Rodentia	Capromyidae	Mesocapromys	sanfelipensis	36		EDG

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
3098	Rodentia	Capromyidae	Mesocapromys	melanurus			
3099	Rodentia	Capromyidae	Mesocapromys	auritus			
3100	Rodentia	Capromyidae	Mesocapromys	angelcabrerai			
3101	Rodentia	Capromyidae	Mysateles	meridionalis			
3102	Rodentia	Capromyidae	Mysateles	prehensilis	39.5	43.5	CH2
3103	Rodentia	Capromyidae	Mysateles	garridoi			
3104	Rodentia	Capromyidae	Hexolobodon	phenax			
3105	Rodentia	Capromyidae	Isolobodon	montanus			
3106	Rodentia	Capromyidae	Isolobodon	portoricensis			
3107	Rodentia	Capromyidae	Plagiodontia	araeum			
3108	Rodentia	Capromyidae	Plagiodontia	ipnaeum			
3109	Rodentia	Capromyidae	Plagiodontia	aedium	30.0	41	PAN;ARK
3110	Rodentia	Capromyidae	Rhizoplagiodontia	lemkei			
3111	Rodentia	Heptaxodontidae	Clidomys	osborni			
3112	Rodentia	Heptaxodontidae	Amblyrhiza	inundata			
3113	Rodentia	Heptaxodontidae	Elasmodontomys	obliquus			
3114	Rodentia	Heptaxodontidae	Quemisia	gravis			
3115	Lagomorpha	Ochotonidae	Ochotona	cansus	13.5		PAN
3116	Lagomorpha	Ochotonidae	Ochotona	nubrica	15.0		PAN
3117	Lagomorpha	Ochotonidae	Ochotona	pusilla	15	15.7	ADW;PAN
3118	Lagomorpha	Ochotonidae	Ochotona	rufescens	16.0	22.9	HAS
3119	Lagomorpha	Ochotonidae	Ochotona	dauurica	16.3	19.2	A75
3120	Lagomorpha	Ochotonidae	Ochotona	thibetana	14.0		A75
3121	Lagomorpha	Ochotonidae	Ochotona	thomasi			
3122	Lagomorpha	Ochotonidae	Ochotona	huangensis	15.6		PAN
3123	Lagomorpha	Ochotonidae	Ochotona	curzoniae	17.0		PAN
3124	Lagomorpha	Ochotonidae	Ochotona	turchanensis			
3125	Lagomorpha	Ochotonidae	Ochotona	princeps	16.2	21.6	MSA
3126	Lagomorpha	Ochotonidae	Ochotona	pallasi	15.9	25	TDS;ADW
3127	Lagomorpha	Ochotonidae	Ochotona	hyperborea	12.7	20.4	ADW;A23
3128	Lagomorpha	Ochotonidae	Ochotona	alpina	17.1	20.0	TDS
3129	Lagomorpha	Ochotonidae	Ochotona	argentata	20.8	22.0	A75
3130	Lagomorpha	Ochotonidae	Ochotona	hoffmanni			
3131	Lagomorpha	Ochotonidae	Ochotona	collaris	17.8	19.8	MSA
3132	Lagomorpha	Ochotonidae	Ochotona	roylei	15	20.7	ADW;MSA
3133	Lagomorpha	Ochotonidae	Ochotona	erythrotis	24.5		PAN
3134	Lagomorpha	Ochotonidae	Ochotona	forresti	15.0	18.5	A75
3135	Lagomorpha	Ochotonidae	Ochotona	gaoligongensis	16.7		PAN
3136	Lagomorpha	Ochotonidae	Ochotona	ladacensis	17.7		PAN
3137	Lagomorpha	Ochotonidae	Ochotona	rutila	20.9	23	PAN;ADW
3138	Lagomorpha	Ochotonidae	Ochotona	koslowi	24.0		PAN
3139	Lagomorpha	Ochotonidae	Ochotona	gloveri	15.9	20.9	A75
3140	Lagomorpha	Ochotonidae	Ochotona	macrotis	15	25	ADW
3141	Lagomorpha	Ochotonidae	Ochotona	muliensis			
3142	Lagomorpha	Ochotonidae	Ochotona	nigritia			
3143	Lagomorpha	Ochotonidae	Ochotona	himalayana	16.6		PAN
3144	Lagomorpha	Ochotonidae	Ochotona	iliensis	20.3		PAN
3145	Lagomorpha	Prolagidae	Prolagus	sardus	22.5		PAN
3146	Lagomorpha	Leporidae	Brachylagus	idahoensis	21.5	29.5	MSA;ADW
3147	Lagomorpha	Leporidae	Bunolagus	monticularis	34	58	SAS;KIF

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
3148	Lagomorpha	Leporidae	Caprolagus	hispidus	40.5	53.8	ADW
3149	Lagomorpha	Leporidae	Lepus	arcticus	49.8	57.2	A12;PAN
3150	Lagomorpha	Leporidae	Lepus	othus	50	58.6	MSA
3151	Lagomorpha	Leporidae	Lepus	timidus	43	68	MSA;GÖH
3152	Lagomorpha	Leporidae	Lepus	allenii	49.0	60	MSA
3153	Lagomorpha	Leporidae	Lepus	americanus	33	70	EFH;BRA
3154	Lagomorpha	Leporidae	Lepus	tolai	40.0	48	GWI;A75
3155	Lagomorpha	Leporidae	Lepus	tibetanus			
3156	Lagomorpha	Leporidae	Lepus	insularis	50.5		MSA
3157	Lagomorpha	Leporidae	Lepus	starcki	42	60	KIF
3158	Lagomorpha	Leporidae	Lepus	castroviejoi	45	51.5	ARK
3159	Lagomorpha	Leporidae	Lepus	comus	37.5	47.1	AL7;PAN
3160	Lagomorpha	Leporidae	Lepus	coreanus	34.0	46.5	A23;PAN
3161	Lagomorpha	Leporidae	Lepus	europaeus	50.0	70.0	GÖH
3162	Lagomorpha	Leporidae	Lepus	mandshuricus			
3163	Lagomorpha	Leporidae	Lepus	microtis	45.0		PAN
3164	Lagomorpha	Leporidae	Lepus	fagani			
3165	Lagomorpha	Leporidae	Lepus	peguensis			
3166	Lagomorpha	Leporidae	Lepus	hainanus			
3167	Lagomorpha	Leporidae	Lepus	nigriventer			
3168	Lagomorpha	Leporidae	Lepus	sinensis	38.0		PAN
3169	Lagomorpha	Leporidae	Lepus	habessinicus			
3170	Lagomorpha	Leporidae	Lepus	brachyrurus	50.0		PAN
3171	Lagomorpha	Leporidae	Lepus	saxatilis	40.0	65	BOT;ADW
3172	Lagomorpha	Leporidae	Lepus	townsendii	46	65.5	EFH;ARK
3173	Lagomorpha	Leporidae	Lepus	callotis	37.2	50.9	AGU;AND
3174	Lagomorpha	Leporidae	Lepus	microtis	41.2	47.0	HIL
3175	Lagomorpha	Leporidae	Lepus	californicus	39	55	AND
3176	Lagomorpha	Leporidae	Lepus	oostolus	46.5		PAN
3177	Lagomorpha	Leporidae	Lepus	flavigularis	42	61	FGC;ARK
3178	Lagomorpha	Leporidae	Lepus	capensis	30.0	68	EGY;KIF
3179	Lagomorpha	Leporidae	Lepus	granatensis	44	50	BAZ
3180	Lagomorpha	Leporidae	Lepus	corsicanus			
3181	Lagomorpha	Leporidae	Lepus	yarkandensis	39.0		PAN
3182	Lagomorpha	Leporidae	Sylvilagus	insonus	39.0	39.5	MSA
3183	Lagomorpha	Leporidae	Sylvilagus	obscurus	38.6	43	ADW
3184	Lagomorpha	Leporidae	Sylvilagus	cognatus	38.6		PAN
3185	Lagomorpha	Leporidae	Sylvilagus	transitionalis	36.3		PAN
3186	Lagomorpha	Leporidae	Sylvilagus	nuttallii	26.1	36.7	A70;A59
3187	Lagomorpha	Leporidae	Sylvilagus	graysoni	21.5	47.1	ADW
3188	Lagomorpha	Leporidae	Sylvilagus	floridanus	28	45.5	GWO;A26
3189	Lagomorpha	Leporidae	Sylvilagus	cunicularius	39.4	48.3	A47
3190	Lagomorpha	Leporidae	Sylvilagus	robustus	39.4		PAN
3191	Lagomorpha	Leporidae	Sylvilagus	audubonii	25.7	38.5	AND;ADW
3192	Lagomorpha	Leporidae	Sylvilagus	varynaensis			
3193	Lagomorpha	Leporidae	Sylvilagus	brasiliensis	28.9	47.0	FGC;A60
3194	Lagomorpha	Leporidae	Sylvilagus	aquaticus	40.8	47.8	MSA
3195	Lagomorpha	Leporidae	Sylvilagus	palustris	40.2	44	PAN;ADW
3196	Lagomorpha	Leporidae	Sylvilagus	bachmani	28	36.8	EFH;A71
3197	Lagomorpha	Leporidae	Sylvilagus	dicei	34.4	44.8	FGC

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
3198	Lagomorpha	Leporidae	Sylvilagus	mansuetus	29.5		MSA
3199	Lagomorpha	Leporidae	Nesolagus	timminsi			
3200	Lagomorpha	Leporidae	Nesolagus	netscheri	35	41.7	ADW;ARK
3201	Lagomorpha	Leporidae	Oryctolagus	cuniculus	30	55	KIF;ARK
3202	Lagomorpha	Leporidae	Pentalagus	furnessi	37.2	51	MSA;ARK
3203	Lagomorpha	Leporidae	Poelagus	marjorita	40.0	60.5	HA2
3204	Lagomorpha	Leporidae	Pronolagus	crassicaudatus	40.5	56	BOT;SAS
3205	Lagomorpha	Leporidae	Pronolagus	randensis	42	50	SAS
3206	Lagomorpha	Leporidae	Pronolagus	rupestris	38	53	KIF
3207	Lagomorpha	Leporidae	Romerolagus	diazi	25.9	36	MSA;ARK
3208	Erinaceomorpha	Erinaceidae	Atelerix	albiventris	15.9	23.0	PAN;A16
3209	Erinaceomorpha	Erinaceidae	Atelerix	algirus	20.0	25.0	GÖH
3210	Erinaceomorpha	Erinaceidae	Atelerix	frontalis	15.1	21.0	BOT;HIL
3211	Erinaceomorpha	Erinaceidae	Atelerix	sclateri	13.0		PAN
3212	Erinaceomorpha	Erinaceidae	Erinaceus	amurensis	25.0	27.0	PAN;A42
3213	Erinaceomorpha	Erinaceidae	Erinaceus	roumanicus			
3214	Erinaceomorpha	Erinaceidae	Erinaceus	concolor	23.2		PAN
3215	Erinaceomorpha	Erinaceidae	Erinaceus	europeus	13.5	40	ADW;BAZ
3216	Erinaceomorpha	Erinaceidae	Hemiechinus	auritus	13.6	25	EGY;ARK
3217	Erinaceomorpha	Erinaceidae	Hemiechinus	collaris	16.4		PAN
3218	Erinaceomorpha	Erinaceidae	Mesechinus	dauuricus	21.5	24.4	PAN;A75
3219	Erinaceomorpha	Erinaceidae	Mesechinus	hughi	20.0		PAN
3220	Erinaceomorpha	Erinaceidae	Paraechinus	aethiopicus	15	25	ARK
3221	Erinaceomorpha	Erinaceidae	Paraechinus	hypomelas	20	25	ARK
3222	Erinaceomorpha	Erinaceidae	Paraechinus	micropus	14.0	23.0	ITS
3223	Erinaceomorpha	Erinaceidae	Paraechinus	nudiventris			
3224	Erinaceomorpha	Erinaceidae	Echinosorex	gymnura	26.5	44.5	ITS
3225	Erinaceomorpha	Erinaceidae	Hylomys	suillus	10.5	15.0	ITS;BOR
3226	Erinaceomorpha	Erinaceidae	Hylomys	megalotis			
3227	Erinaceomorpha	Erinaceidae	Hylomys	parvus			
3228	Erinaceomorpha	Erinaceidae	Neohylomys	hainanensis	12	14.7	ARK
3229	Erinaceomorpha	Erinaceidae	Neotetracus	sinensis	10.1	14.8	HMO;ITS
3230	Erinaceomorpha	Erinaceidae	Podogymnura	truei	12.4	15.4	HMO
3231	Erinaceomorpha	Erinaceidae	Podogymnura	aureospinula	19.0	21.1	HMO
3232	Soricomorpha	Nesophontidae	Nesophontes	zamicrus			
3233	Soricomorpha	Nesophontidae	Nesophontes	superstes			
3234	Soricomorpha	Nesophontidae	Nesophontes	paramicrus			
3235	Soricomorpha	Nesophontidae	Nesophontes	submicrus			
3236	Soricomorpha	Nesophontidae	Nesophontes	hypomicrus			
3237	Soricomorpha	Nesophontidae	Nesophontes	major			
3238	Soricomorpha	Nesophontidae	Nesophontes	longirostris			
3239	Soricomorpha	Nesophontidae	Nesophontes	edithae			
3240	Soricomorpha	Nesophontidae	Nesophontes	micrus			
3241	Soricomorpha	Solenodontidae	Solenodon	paradoxus	28.4	32.8	EOM
3242	Soricomorpha	Solenodontidae	Solenodon	marcanoi			
3243	Soricomorpha	Solenodontidae	Solenodon	cubanus	28	39	ADW
3244	Soricomorpha	Solenodontidae	Solenodon	arredondoi			
3245	Soricomorpha	Soricidae	Crocidura	phaeura			
3246	Soricomorpha	Soricidae	Crocidura	ori			
3247	Soricomorpha	Soricidae	Crocidura	nigricans	7.0		HIL

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
3248	Soricomorpha	Soricidae	Crocidura	nigrofusca	9.8		HIL
3249	Soricomorpha	Soricidae	Crocidura	nimbae			
3250	Soricomorpha	Soricidae	Crocidura	niobe			
3251	Soricomorpha	Soricidae	Crocidura	obscurior			
3252	Soricomorpha	Soricidae	Crocidura	olivieri	9.9	15.0	HO1
3253	Soricomorpha	Soricidae	Crocidura	orientalis			
3254	Soricomorpha	Soricidae	Crocidura	nigripes			
3255	Soricomorpha	Soricidae	Crocidura	palawanensis			
3256	Soricomorpha	Soricidae	Crocidura	paradoxura			
3257	Soricomorpha	Soricidae	Crocidura	parvipes	7.1	8.8	HO1
3258	Soricomorpha	Soricidae	Crocidura	nigeriae			
3259	Soricomorpha	Soricidae	Crocidura	pergrisea	5.6		ITS
3260	Soricomorpha	Soricidae	Crocidura	nana	4.5	6.2	SRS;EGY
3261	Soricomorpha	Soricidae	Crocidura	picea			
3262	Soricomorpha	Soricidae	Crocidura	piltmani			
3263	Soricomorpha	Soricidae	Crocidura	planiceps			
3264	Soricomorpha	Soricidae	Crocidura	poensis			
3265	Soricomorpha	Soricidae	Crocidura	pasha			
3266	Soricomorpha	Soricidae	Crocidura	miya			
3267	Soricomorpha	Soricidae	Crocidura	macarthuri			
3268	Soricomorpha	Soricidae	Crocidura	zimmermanni			
3269	Soricomorpha	Soricidae	Crocidura	macmillani			
3270	Soricomorpha	Soricidae	Crocidura	macowi			
3271	Soricomorpha	Soricidae	Crocidura	malayana	7.7	10.0	FRA
3272	Soricomorpha	Soricidae	Crocidura	manengubae			
3273	Soricomorpha	Soricidae	Crocidura	maquassiensis			
3274	Soricomorpha	Soricidae	Crocidura	mariquensis	7.0	8.4	BOT
3275	Soricomorpha	Soricidae	Crocidura	maurisca	8.2	11.5	HO1
3276	Soricomorpha	Soricidae	Crocidura	negligens	7.5	9.5	FRA
3277	Soricomorpha	Soricidae	Crocidura	mindorus	8.8		ESS
3278	Soricomorpha	Soricidae	Crocidura	nicobarica	10.0		PAN
3279	Soricomorpha	Soricidae	Crocidura	monax			
3280	Soricomorpha	Soricidae	Crocidura	monticola	5.3	6.5	FRA
3281	Soricomorpha	Soricidae	Crocidura	montis			
3282	Soricomorpha	Soricidae	Crocidura	muricauda			
3283	Soricomorpha	Soricidae	Crocidura	musseri			
3284	Soricomorpha	Soricidae	Crocidura	mutesae	11.5		HO1
3285	Soricomorpha	Soricidae	Crocidura	religiosa	5.4		ARK
3286	Soricomorpha	Soricidae	Crocidura	nanilla			
3287	Soricomorpha	Soricidae	Crocidura	polia	5.8		HOC
3288	Soricomorpha	Soricidae	Crocidura	negrina	8.43		ESS
3289	Soricomorpha	Soricidae	Crocidura	maxi			
3290	Soricomorpha	Soricidae	Crocidura	vosmaeri			
3291	Soricomorpha	Soricidae	Crocidura	rapax	5.3	7.3	TAW
3292	Soricomorpha	Soricidae	Crocidura	theresae			
3293	Soricomorpha	Soricidae	Crocidura	thomensis	8.4		ARK
3294	Soricomorpha	Soricidae	Crocidura	trichura	6.5	8.2	TRI
3295	Soricomorpha	Soricidae	Crocidura	turba	8.3	10.7	HIL;HO1
3296	Soricomorpha	Soricidae	Crocidura	ultima			
3297	Soricomorpha	Soricidae	Crocidura	usambarae	7.6	8.7	SGH

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
3298	Soricomorpha	Soricidae	Crocidura	viaria	9.0	11.0	HO1
3299	Soricomorpha	Soricidae	Crocidura	virgata			
3300	Soricomorpha	Soricidae	Crocidura	tenuis			
3301	Soricomorpha	Soricidae	Crocidura	vorax	5.5	9.0	FRA
3302	Soricomorpha	Soricidae	Crocidura	telfordi			
3303	Soricomorpha	Soricidae	Crocidura	watasei			
3304	Soricomorpha	Soricidae	Crocidura	whitakeri	6.0	10.0	ARK
3305	Soricomorpha	Soricidae	Crocidura	wimmeri			
3306	Soricomorpha	Soricidae	Crocidura	wuchihensis	5.9	6.5	TAY
3307	Soricomorpha	Soricidae	Crocidura	xantippe			
3308	Soricomorpha	Soricidae	Crocidura	yankariensis			
3309	Soricomorpha	Soricidae	Crocidura	zaphiri	10.0	11.5	HO1
3310	Soricomorpha	Soricidae	Crocidura	zarudnyi	5.3	7.1	HAS
3311	Soricomorpha	Soricidae	Crocidura	lucina			
3312	Soricomorpha	Soricidae	Crocidura	voi			
3313	Soricomorpha	Soricidae	Crocidura	silacea			
3314	Soricomorpha	Soricidae	Crocidura	raineyi	9.0	9.2	HO1
3315	Soricomorpha	Soricidae	Crocidura	ramona			
3316	Soricomorpha	Soricidae	Crocidura	zimmeri			
3317	Soricomorpha	Soricidae	Crocidura	rhoditis			
3318	Soricomorpha	Soricidae	Crocidura	roosevelti			
3319	Soricomorpha	Soricidae	Crocidura	russula	5.1	9.2	BAZ;GÖH
3320	Soricomorpha	Soricidae	Crocidura	selina			
3321	Soricomorpha	Soricidae	Crocidura	serezkyensis			
3322	Soricomorpha	Soricidae	Crocidura	shantungensis	5.3	7.9	TAW
3323	Soricomorpha	Soricidae	Crocidura	thalia			
3324	Soricomorpha	Soricidae	Crocidura	sicula	2.3	4.0	CRO
3325	Soricomorpha	Soricidae	Crocidura	pullata			
3326	Soricomorpha	Soricidae	Crocidura	smithii			
3327	Soricomorpha	Soricidae	Crocidura	somalica			
3328	Soricomorpha	Soricidae	Crocidura	stenocephala			
3329	Soricomorpha	Soricidae	Crocidura	suaveolens	5.0	7.5	ARK
3330	Soricomorpha	Soricidae	Crocidura	susiana			
3331	Soricomorpha	Soricidae	Crocidura	tanakae	7.0	8.6	TAW
3332	Soricomorpha	Soricidae	Crocidura	tansaniana			
3333	Soricomorpha	Soricidae	Crocidura	tarella			
3334	Soricomorpha	Soricidae	Crocidura	tarfayensis	6.4		PAN
3335	Soricomorpha	Soricidae	Crocidura	sibirica			
3336	Soricomorpha	Soricidae	Crocidura	eisentrauti			
3337	Soricomorpha	Soricidae	Crocidura	floweri	5.7	7.4	EGY;ARK
3338	Soricomorpha	Soricidae	Crocidura	crossei			
3339	Soricomorpha	Soricidae	Crocidura	cyanea	6.5	8.7	BOT
3340	Soricomorpha	Soricidae	Crocidura	denti			
3341	Soricomorpha	Soricidae	Crocidura	desperata			
3342	Soricomorpha	Soricidae	Crocidura	dhofarensis	6.8		HUH
3343	Soricomorpha	Soricidae	Crocidura	dolichura	7.1		PAN
3344	Soricomorpha	Soricidae	Crocidura	congobelgica	7.4		HOC
3345	Soricomorpha	Soricidae	Crocidura	dsinezumi	6.5	8.0	ITS
3346	Soricomorpha	Soricidae	Crocidura	cinderella			
3347	Soricomorpha	Soricidae	Crocidura	elgonius			

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
3348	Soricomorpha	Soricidae	Crocidura	alex	5.7	6.6	HO1
3349	Soricomorpha	Soricidae	Crocidura	aleksandrisi			
3350	Soricomorpha	Soricidae	Crocidura	luna			
3351	Soricomorpha	Soricidae	Crocidura	lusitania	3.1		PAN
3352	Soricomorpha	Soricidae	Crocidura	elongata			
3353	Soricomorpha	Soricidae	Crocidura	andamanensis			
3354	Soricomorpha	Soricidae	Crocidura	fischeri			
3355	Soricomorpha	Soricidae	Crocidura	doucetti			
3356	Soricomorpha	Soricidae	Crocidura	beatus	5.0	8.1	HEC;HKT
3357	Soricomorpha	Soricidae	Crocidura	ansellorum			
3358	Soricomorpha	Soricidae	Crocidura	arabica	5.1	5.4	HUH
3359	Soricomorpha	Soricidae	Crocidura	arispa			
3360	Soricomorpha	Soricidae	Crocidura	armenica			
3361	Soricomorpha	Soricidae	Crocidura	attenuata	6.6	9.0	TAY;A75
3362	Soricomorpha	Soricidae	Crocidura	attila			
3363	Soricomorpha	Soricidae	Crocidura	baileyi			
3364	Soricomorpha	Soricidae	Crocidura	crenata			
3365	Soricomorpha	Soricidae	Crocidura	batesi	6.9		PAN
3366	Soricomorpha	Soricidae	Crocidura	flavescens	10.5	14.2	SAS;BOT
3367	Soricomorpha	Soricidae	Crocidura	beccarii			
3368	Soricomorpha	Soricidae	Crocidura	bottegi	6.7		ATQ
3369	Soricomorpha	Soricidae	Crocidura	bottegooides			
3370	Soricomorpha	Soricidae	Crocidura	brunnea			
3371	Soricomorpha	Soricidae	Crocidura	buettikoferi			
3372	Soricomorpha	Soricidae	Crocidura	caliginea	7.1		HOC
3373	Soricomorpha	Soricidae	Crocidura	canariensis			
3374	Soricomorpha	Soricidae	Crocidura	caspica			
3375	Soricomorpha	Soricidae	Crocidura	baluensis			
3376	Soricomorpha	Soricidae	Crocidura	lanosa			
3377	Soricomorpha	Soricidae	Crocidura	hispida			
3378	Soricomorpha	Soricidae	Crocidura	horsfieldii	6.4	6.7	PAN;HAT
3379	Soricomorpha	Soricidae	Crocidura	hutanis			
3380	Soricomorpha	Soricidae	Crocidura	ichnusae			
3381	Soricomorpha	Soricidae	Crocidura	indochinensis			
3382	Soricomorpha	Soricidae	Crocidura	jacksoni	7.5	8.8	HO1
3383	Soricomorpha	Soricidae	Crocidura	jenkinsi			
3384	Soricomorpha	Soricidae	Crocidura	jouvenetae			
3385	Soricomorpha	Soricidae	Crocidura	katinka			
3386	Soricomorpha	Soricidae	Crocidura	erica	8.0	9.6	HIL
3387	Soricomorpha	Soricidae	Crocidura	lamottei			
3388	Soricomorpha	Soricidae	Crocidura	hildegardeae	6.0	8.4	SRS;HO1
3389	Soricomorpha	Soricidae	Crocidura	lasiura			
3390	Soricomorpha	Soricidae	Crocidura	latona	7.6		HOC
3391	Soricomorpha	Soricidae	Crocidura	lea			
3392	Soricomorpha	Soricidae	Crocidura	lepidura			
3393	Soricomorpha	Soricidae	Crocidura	leucodon	6.3	9.0	GÖH
3394	Soricomorpha	Soricidae	Crocidura	levicula			
3395	Soricomorpha	Soricidae	Crocidura	littoralis	9.4	9.6	HO1
3396	Soricomorpha	Soricidae	Crocidura	longipes			
3397	Soricomorpha	Soricidae	Crocidura	ludia	6.0	6.3	HOC

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
3398	Soricomorpha	Soricidae	Crocidura	kivuana			
3399	Soricomorpha	Soricidae	Crocidura	gmelini	4.0	6.0	GWI
3400	Soricomorpha	Soricidae	Crocidura	foxi			
3401	Soricomorpha	Soricidae	Crocidura	fuliginosa	8.3	10.5	HAT;A75
3402	Soricomorpha	Soricidae	Crocidura	fulvastra	4	18	ARK
3403	Soricomorpha	Soricidae	Crocidura	fumosa	7.5	9.3	HO1
3404	Soricomorpha	Soricidae	Crocidura	fuscomurina	5.4	7.3	BOT;HO1
3405	Soricomorpha	Soricidae	Crocidura	hirta	7.0	10.3	SRS;HIL
3406	Soricomorpha	Soricidae	Crocidura	glassi			
3407	Soricomorpha	Soricidae	Crocidura	hilliana			
3408	Soricomorpha	Soricidae	Crocidura	goliath	14.7		PAN
3409	Soricomorpha	Soricidae	Crocidura	gracilipes			
3410	Soricomorpha	Soricidae	Crocidura	grandiceps			
3411	Soricomorpha	Soricidae	Crocidura	grandis			
3412	Soricomorpha	Soricidae	Crocidura	grassei	6.3		PAN
3413	Soricomorpha	Soricidae	Crocidura	grayi			
3414	Soricomorpha	Soricidae	Crocidura	greenwoodi			
3415	Soricomorpha	Soricidae	Crocidura	harennia			
3416	Soricomorpha	Soricidae	Crocidura	foetida			
3417	Soricomorpha	Soricidae	Solisorex	pearsoni	12.5	13.4	ITS
3418	Soricomorpha	Soricidae	Suncus	lixus	7.0		SAS
3419	Soricomorpha	Soricidae	Suncus	hosei			
3420	Soricomorpha	Soricidae	Suncus	fellowesgordoni			
3421	Soricomorpha	Soricidae	Suncus	varilla			
3422	Soricomorpha	Soricidae	Suncus	malayanus			
3423	Soricomorpha	Soricidae	Suncus	megalura	6.0	8.0	HO1;SAS
3424	Soricomorpha	Soricidae	Suncus	mertensi			
3425	Soricomorpha	Soricidae	Suncus	montanus			
3426	Soricomorpha	Soricidae	Suncus	murinus	9.6	15.8	HKT;ABN
3427	Soricomorpha	Soricidae	Suncus	etruscus	3.0	5.3	BAZ;HUU
3428	Soricomorpha	Soricidae	Suncus	stoliczkanus			
3429	Soricomorpha	Soricidae	Suncus	infinitesimus	4.5		SAS
3430	Soricomorpha	Soricidae	Suncus	zeylanicus			
3431	Soricomorpha	Soricidae	Suncus	remyi			
3432	Soricomorpha	Soricidae	Suncus	aequatorius			
3433	Soricomorpha	Soricidae	Suncus	dayi			
3434	Soricomorpha	Soricidae	Suncus	ater			
3435	Soricomorpha	Soricidae	Suncus	madagascariensis	3.9	5.1	GOE
3436	Soricomorpha	Soricidae	Diplomesodon	pulchellum			
3437	Soricomorpha	Soricidae	Feroculus	feroculus	10.6	11.8	ITS
3438	Soricomorpha	Soricidae	Paracrocidura	graueri			
3439	Soricomorpha	Soricidae	Paracrocidura	maxima			
3440	Soricomorpha	Soricidae	Paracrocidura	schoutedeni	7.5		PAN
3441	Soricomorpha	Soricidae	Ruwenzorisorex	suncoides	9.2	9.5	KIF
3442	Soricomorpha	Soricidae	Scutisorex	somereni	10.5	15.0	KIF
3443	Soricomorpha	Soricidae	Sylvisorex	konganensis			
3444	Soricomorpha	Soricidae	Sylvisorex	isabellae	6.0		HRS
3445	Soricomorpha	Soricidae	Sylvisorex	pluvialis			
3446	Soricomorpha	Soricidae	Sylvisorex	oriundus	7.2		HOC
3447	Soricomorpha	Soricidae	Sylvisorex	ollula	8.4		PAN

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
3448	Soricomorpha	Soricidae	Sylvisorex	lunaris			
3449	Soricomorpha	Soricidae	Sylvisorex	johnstoni	3.9	5.3	HRS;PAN
3450	Soricomorpha	Soricidae	Sylvisorex	vulcanorum	4.9		HRS
3451	Soricomorpha	Soricidae	Sylvisorex	granti	5.8	7.0	HRS;HO1
3452	Soricomorpha	Soricidae	Sylvisorex	camerunensis	6.5		HRS
3453	Soricomorpha	Soricidae	Sylvisorex	howelli			
3454	Soricomorpha	Soricidae	Sylvisorex	morio	7.1		HRS
3455	Soricomorpha	Soricidae	Sorex	caecutiens	4.4	7.4	GÖH;A42
3456	Soricomorpha	Soricidae	Sorex	raddei			
3457	Soricomorpha	Soricidae	Sorex	alpinus	6.0	7.7	ADW
3458	Soricomorpha	Soricidae	Sorex	minutus	3.8	6.4	BAS;GÖH
3459	Soricomorpha	Soricidae	Sorex	maritimensis			
3460	Soricomorpha	Soricidae	Sorex	kozlovi			
3461	Soricomorpha	Soricidae	Sorex	isodon	6.7	7.6	TDS;SHH
3462	Soricomorpha	Soricidae	Sorex	hosonoi	5.4	6.6	ITS
3463	Soricomorpha	Soricidae	Sorex	granarius	5.0	7.2	MSA
3464	Soricomorpha	Soricidae	Sorex	gracillimus	4.6	5.5	G11;OHD
3465	Soricomorpha	Soricidae	Sorex	daphaenodon	6.0	7.1	OHD;PAN
3466	Soricomorpha	Soricidae	Sorex	cylindricauda	5.4	6.0	A75
3467	Soricomorpha	Soricidae	Sorex	cansulus	6.4	8.0	A75;PAN
3468	Soricomorpha	Soricidae	Sorex	buchariensis			
3469	Soricomorpha	Soricidae	Sorex	bedfordiae	5.0	7.1	FRA;ITS
3470	Soricomorpha	Soricidae	Sorex	antinorii			
3471	Soricomorpha	Soricidae	Sorex	araneus	3.8	8.5	BAS;GÖH
3472	Soricomorpha	Soricidae	Sorex	arcticus	7.3	7.9	MSA
3473	Soricomorpha	Soricidae	Sorex	arizonae	5.6	6.8	MSA
3474	Soricomorpha	Soricidae	Sorex	arunchi			
3475	Soricomorpha	Soricidae	Sorex	asper	6.5		PAN
3476	Soricomorpha	Soricidae	Sorex	averini			
3477	Soricomorpha	Soricidae	Sorex	roboratus	5.8	8.0	ITS
3478	Soricomorpha	Soricidae	Sorex	coronatus	5.7	7.3	GÖH;PAN
3479	Soricomorpha	Soricidae	Sorex	satunini			
3480	Soricomorpha	Soricidae	Sorex	sinalis	5.7	8.4	GÖH
3481	Soricomorpha	Soricidae	Sorex	tundrensis	6.8		PAN
3482	Soricomorpha	Soricidae	Sorex	shinto	5.8	6.9	ITS
3483	Soricomorpha	Soricidae	Sorex	unguiculatus	5.4	9.7	ITS
3484	Soricomorpha	Soricidae	Sorex	volnuchini	5.5		KAZ
3485	Soricomorpha	Soricidae	Sorex	yukonicus			
3486	Soricomorpha	Soricidae	Sorex	samniticus	5.6	7.8	GÖH
3487	Soricomorpha	Soricidae	Sorex	excelsus	6.0	6.2	AL5
3488	Soricomorpha	Soricidae	Sorex	lyelli			
3489	Soricomorpha	Soricidae	Sorex	jacksoni	6.4		PAN
3490	Soricomorpha	Soricidae	Sorex	hoyi	5.4		PAN
3491	Soricomorpha	Soricidae	Sorex	tenellus	4.9	6.1	MSA
3492	Soricomorpha	Soricidae	Sorex	haydeni			
3493	Soricomorpha	Soricidae	Sorex	dispar	4.8	7.6	MSA;KIR
3494	Soricomorpha	Soricidae	Sorex	macrodon			
3495	Soricomorpha	Soricidae	Sorex	leucogaster			
3496	Soricomorpha	Soricidae	Sorex	cinereus	5.1	6.6	EFH;MSA
3497	Soricomorpha	Soricidae	Sorex	longirostris	4.4	6.8	MSA;DAS

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
3498	Soricomorpha	Soricidae	Sorex	vagrans	5.7	7.3	MSA;EFH
3499	Soricomorpha	Soricidae	Sorex	camtschatica			
3500	Soricomorpha	Soricidae	Sorex	bendirii	8.6		PAN
3501	Soricomorpha	Soricidae	Sorex	veraeacris	5.5	7.9	GWO
3502	Soricomorpha	Soricidae	Sorex	bairdi			
3503	Soricomorpha	Soricidae	Sorex	gaspensis	4.5	7.7	KIR
3504	Soricomorpha	Soricidae	Sorex	fumeus	6	7.6	MSA;EFH
3505	Soricomorpha	Soricidae	Sorex	alaskanus			
3506	Soricomorpha	Soricidae	Sorex	ugyunak			
3507	Soricomorpha	Soricidae	Sorex	palustris	7.5		PAN
3508	Soricomorpha	Soricidae	Sorex	pribilofensis			
3509	Soricomorpha	Soricidae	Sorex	preblei	4.9	5.3	MSA
3510	Soricomorpha	Soricidae	Sorex	sonomae			
3511	Soricomorpha	Soricidae	Sorex	portenkoi			
3512	Soricomorpha	Soricidae	Sorex	pacificus	6.1	8.9	MSA;EFH
3513	Soricomorpha	Soricidae	Sorex	ornatus	5.0	6.2	PAN;A39
3514	Soricomorpha	Soricidae	Sorex	orizabae			
3515	Soricomorpha	Soricidae	Sorex	oreopolus	6.1	6.9	GWO
3516	Soricomorpha	Soricidae	Sorex	milleri			
3517	Soricomorpha	Soricidae	Sorex	nanus	5.2	6.4	PAN;EFH
3518	Soricomorpha	Soricidae	Sorex	monticolus	6.2	8.0	MSA
3519	Soricomorpha	Soricidae	Sorex	neomexicanus			
3520	Soricomorpha	Soricidae	Sorex	mirabilis	7.7	9.8	SHH
3521	Soricomorpha	Soricidae	Sorex	sclateri	6.8	12.6	FGC;EDG
3522	Soricomorpha	Soricidae	Sorex	stizodon	6.6	10.7	CMX;EDG
3523	Soricomorpha	Soricidae	Sorex	trowbridgei	5.4	7.6	MSA;A39
3524	Soricomorpha	Soricidae	Sorex	saussurei	5.5	7.7	GWO;FGC
3525	Soricomorpha	Soricidae	Sorex	emarginatus			
3526	Soricomorpha	Soricidae	Sorex	ventralis	6.1	6.9	CMX
3527	Soricomorpha	Soricidae	Sorex	merriami	3.5	6.5	MSA
3528	Soricomorpha	Soricidae	Sorex	see comments"			
3529	Soricomorpha	Soricidae	Sorex	see comments"			
3530	Soricomorpha	Soricidae	Sorex	minutissimus	3.3	5.2	GÖH;PAN
3531	Soricomorpha	Soricidae	Sorex	planiceps			
3532	Soricomorpha	Soricidae	Sorex	thibetanus	4.7		A75
3533	Soricomorpha	Soricidae	Anourosorex	yamashinai	9.2	9.3	TAW
3534	Soricomorpha	Soricidae	Anourosorex	assamensis	9.3		AL5
3535	Soricomorpha	Soricidae	Anourosorex	schmudi			
3536	Soricomorpha	Soricidae	Anourosorex	squamipes	8.5	10.8	ITS
3537	Soricomorpha	Soricidae	Blarinella	quadraticauda	6.0	8.1	TAY;JIW
3538	Soricomorpha	Soricidae	Blarinella	wardi	6.0	7.5	TAY
3539	Soricomorpha	Soricidae	Blarinella	griselda	5.2	7.9	JIW;TAY
3540	Soricomorpha	Soricidae	Blarina	brevicauda	7.5	12.1	BRA;ADW
3541	Soricomorpha	Soricidae	Blarina	hylophaga	7.5	10.5	ADW
3542	Soricomorpha	Soricidae	Blarina	carolinensis	5.9	8.2	MSA
3543	Soricomorpha	Soricidae	Blarina	peninsulae			
3544	Soricomorpha	Soricidae	Cryptotis	peregrina	6.8	7.5	GWO
3545	Soricomorpha	Soricidae	Cryptotis	mexicana	5.4	8.0	PUL;FGC
3546	Soricomorpha	Soricidae	Cryptotis	montivaga	8.0	8.6	PAN;VIV
3547	Soricomorpha	Soricidae	Cryptotis	nelsoni			

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
3548	Soricomorpha	Soricidae	Cryptotis	nigrescens	5.5	8.3	FGC
3549	Soricomorpha	Soricidae	Cryptotis	obscura	6.5	10.0	PUL
3550	Soricomorpha	Soricidae	Cryptotis	merriami	6.0	7.7	WOO
3551	Soricomorpha	Soricidae	Cryptotis	parva	4.7	7.8	PUL;FGC
3552	Soricomorpha	Soricidae	Cryptotis	medelliniae	7.7	9.4	VIV
3553	Soricomorpha	Soricidae	Cryptotis	peruviensis	6.3	7.3	VIV
3554	Soricomorpha	Soricidae	Cryptotis	phillipisi	6.1	7.9	CMX
3555	Soricomorpha	Soricidae	Cryptotis	squamipes	8.6		A46
3556	Soricomorpha	Soricidae	Cryptotis	tamensis			
3557	Soricomorpha	Soricidae	Cryptotis	orophila	5.5	6.3	A33;G12
3558	Soricomorpha	Soricidae	Cryptotis	thomasi	7.4	9.6	WOM
3559	Soricomorpha	Soricidae	Cryptotis	mera	6.6	7.3	WOM
3560	Soricomorpha	Soricidae	Cryptotis	mayensis	6.1	9.0	FGC
3561	Soricomorpha	Soricidae	Cryptotis	magna	7.5	9.4	PUL;GWO
3562	Soricomorpha	Soricidae	Cryptotis	hondurensis	5.5	6.4	FGC
3563	Soricomorpha	Soricidae	Cryptotis	griseoventris	7.3	8.5	FGC
3564	Soricomorpha	Soricidae	Cryptotis	gracilis	7.0	7.6	G12
3565	Soricomorpha	Soricidae	Cryptotis	goodwini	8.4	9.5	CRY;PAN
3566	Soricomorpha	Soricidae	Cryptotis	goldmani	5.5	8.8	GWO
3567	Soricomorpha	Soricidae	Cryptotis	equatoris	6.4	8.2	VIV
3568	Soricomorpha	Soricidae	Cryptotis	endersi			
3569	Soricomorpha	Soricidae	Cryptotis	colombiana	6.0	7.6	WOM
3570	Soricomorpha	Soricidae	Cryptotis	brachyonyx			
3571	Soricomorpha	Soricidae	Cryptotis	meridensis	7.0	10.2	MSA
3572	Soricomorpha	Soricidae	Cryptotis	alticola	6.7	8.8	CMX;PUL
3573	Soricomorpha	Soricidae	Cryptotis	tropicalis	5.9	7.8	G15;G13
3574	Soricomorpha	Soricidae	Chimarrogale	hantu	8	12	ARK
3575	Soricomorpha	Soricidae	Chimarrogale	himalayica	8.0	13.5	ITS
3576	Soricomorpha	Soricidae	Chimarrogale	phaeura	10.0		PAN
3577	Soricomorpha	Soricidae	Chimarrogale	platycephalus	10.3	13.3	ITS
3578	Soricomorpha	Soricidae	Chimarrogale	styani	10.0	10.8	A75
3579	Soricomorpha	Soricidae	Chimarrogale	sumatrana	8	13	ARK
3580	Soricomorpha	Soricidae	Chodsigoa	parca	6.4	8.4	TAY
3581	Soricomorpha	Soricidae	Chodsigoa	sodalis	6.5	7.1	TAW
3582	Soricomorpha	Soricidae	Chodsigoa	smithii	7.2	9.6	ITS
3583	Soricomorpha	Soricidae	Chodsigoa	parva	5.4	5.6	TAY
3584	Soricomorpha	Soricidae	Chodsigoa	lamula	6.7	7.5	TAY
3585	Soricomorpha	Soricidae	Chodsigoa	hypsicibia	6.8	8.4	A75
3586	Soricomorpha	Soricidae	Chodsigoa	caovansunga	5.8	6.4	TAY
3587	Soricomorpha	Soricidae	Chodsigoa	salenskii	8.1		A75
3588	Soricomorpha	Soricidae	Episoriculus	caudatus	5.0	7.5	FRA
3589	Soricomorpha	Soricidae	Episoriculus	fumidus	6.7		PAN
3590	Soricomorpha	Soricidae	Episoriculus	leucops	6.6	8.2	ABN
3591	Soricomorpha	Soricidae	Episoriculus	macrurus	5.3	8.2	A75;ITS
3592	Soricomorpha	Soricidae	Nectogale	elegans	9.0	12.8	ADW
3593	Soricomorpha	Soricidae	Neomys	teres	8.7		PAN
3594	Soricomorpha	Soricidae	Neomys	fodiens	6.5	11.0	BAS;GÖH
3595	Soricomorpha	Soricidae	Neomys	anomalus	6.4	8.8	GÖH
3596	Soricomorpha	Soricidae	Nesiotesites	hidalgo			
3597	Soricomorpha	Soricidae	Nesiotesites	similis			

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
3598	Soricomorpha	Soricidae	Soriculus	nigrescens	9.1	10.6	ABN
3599	Soricomorpha	Soricidae	Megasorex	gigas	8.2	11.7	GWO;MEX
3600	Soricomorpha	Soricidae	Notiosorex	cockrumi			
3601	Soricomorpha	Soricidae	Notiosorex	evotis	6.7	7.6	PAN;CMX
3602	Soricomorpha	Soricidae	Notiosorex	crawfordi	5.1	6.6	EFH
3603	Soricomorpha	Soricidae	Notiosorex	villai	6.9	7.1	CMX
3604	Soricomorpha	Soricidae	Congosorex	polli	9.0		KIF
3605	Soricomorpha	Soricidae	Congosorex	verheyeni			
3606	Soricomorpha	Soricidae	Myosorex	longicaudatus	8.4		SAS
3607	Soricomorpha	Soricidae	Myosorex	kihaulei			
3608	Soricomorpha	Soricidae	Myosorex	eisentrauti			
3609	Soricomorpha	Soricidae	Myosorex	cafer			
3610	Soricomorpha	Soricidae	Myosorex	blarina			
3611	Soricomorpha	Soricidae	Myosorex	okuensis			
3612	Soricomorpha	Soricidae	Myosorex	babaulti			
3613	Soricomorpha	Soricidae	Myosorex	schalleri			
3614	Soricomorpha	Soricidae	Myosorex	sclateri			
3615	Soricomorpha	Soricidae	Myosorex	tenuis			
3616	Soricomorpha	Soricidae	Myosorex	varius	8.3		SAS
3617	Soricomorpha	Soricidae	Myosorex	zinki			
3618	Soricomorpha	Soricidae	Myosorex	geata			
3619	Soricomorpha	Soricidae	Myosorex	rumpii			
3620	Soricomorpha	Soricidae	Surdisorex	norae	9.6	10.2	PAN;HOI
3621	Soricomorpha	Soricidae	Surdisorex	polulus	8.9	10.0	HOI
3622	Soricomorpha	Talpidae	Condylura	cristata	10	12.7	MSA;BRA
3623	Soricomorpha	Talpidae	Parascalops	breweri	11.9	14.0	MSA
3624	Soricomorpha	Talpidae	Scalopus	aquaticus	10.0	17.0	A48;BRA
3625	Soricomorpha	Talpidae	Scapanulus	oweni	8.9	10.8	PAN;A75
3626	Soricomorpha	Talpidae	Scapanus	latimanus	11.1	15.3	CMX;MSA
3627	Soricomorpha	Talpidae	Scapanus	orarius	11.2	14.5	MSA
3628	Soricomorpha	Talpidae	Scapanus	townsendii	16.1	18.6	MSA
3629	Soricomorpha	Talpidae	Desmana	moschata	18	23.0	ARK;GÖH
3630	Soricomorpha	Talpidae	Galemys	pyrenaicus	10.8	13.5	MSA
3631	Soricomorpha	Talpidae	Neurotrichus	gibbsii	7.6	8.2	MSA
3632	Soricomorpha	Talpidae	Scaptonyx	fusicaudus	6.3	9.7	A75;TAY
3633	Soricomorpha	Talpidae	Euroscaptor	longirostris	10.5		A75
3634	Soricomorpha	Talpidae	Euroscaptor	parvidens	14.0		FRA
3635	Soricomorpha	Talpidae	Euroscaptor	micrura	12.2	13.4	PAN;KAW
3636	Soricomorpha	Talpidae	Euroscaptor	grandis			
3637	Soricomorpha	Talpidae	Euroscaptor	klossi			
3638	Soricomorpha	Talpidae	Euroscaptor	mizura	7.9	10.7	ITS
3639	Soricomorpha	Talpidae	Mogera	imaizumii	10.1	14.6	MOG
3640	Soricomorpha	Talpidae	Mogera	insularis	8.7	13.4	MOG
3641	Soricomorpha	Talpidae	Mogera	tokudae	13.7	18.2	MOG;ITS
3642	Soricomorpha	Talpidae	Mogera	uchidai			
3643	Soricomorpha	Talpidae	Mogera	wogura	12.5	18.5	ITS
3644	Soricomorpha	Talpidae	Parascaptor	leucura	10.5	14.0	A75;FRA
3645	Soricomorpha	Talpidae	Scaptochirus	moschatus	14.0		A75
3646	Soricomorpha	Talpidae	Talpa	altaica	17.0		PAN
3647	Soricomorpha	Talpidae	Talpa	stankovici			

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
3648	Soricomorpha	Talpidae	Talpa	romana	14.5		PAN
3649	Soricomorpha	Talpidae	Talpa	occidentalis	9	13	BAZ
3650	Soricomorpha	Talpidae	Talpa	levantis			
3651	Soricomorpha	Talpidae	Talpa	davidiana	14.0		PAN
3652	Soricomorpha	Talpidae	Talpa	europeaea	11.3	15.9	ARK
3653	Soricomorpha	Talpidae	Talpa	caeca	9.5	14.0	GÖH
3654	Soricomorpha	Talpidae	Talpa	caucasica			
3655	Soricomorpha	Talpidae	Dymecodon	pilirostris	4.0	8.4	ITS
3656	Soricomorpha	Talpidae	Urotrichus	talpooides	9.0		PAN
3657	Soricomorpha	Talpidae	Uropsilus	investigator	6.7	8.8	ITS;A75
3658	Soricomorpha	Talpidae	Uropsilus	soricipes	6.3	8.8	ITS
3659	Soricomorpha	Talpidae	Uropsilus	andersoni	6.7	7.0	AL5;A75
3660	Soricomorpha	Talpidae	Uropsilus	gracilis	6.6		A75
3661	Pholidota	Manidae	Manis	crassicaudata	51	75	MSA
3662	Pholidota	Manidae	Manis	pentadactyla	37.9	92	PAN;ARK
3663	Pholidota	Manidae	Manis	culionensis			
3664	Pholidota	Manidae	Manis	javanica	45.0	59.0	EDG;PAN
3665	Pholidota	Manidae	Manis	temminckii	34	70	KIF;ADW
3666	Pholidota	Manidae	Manis	gigantea	63.5	100	HA4;KIF
3667	Pholidota	Manidae	Manis	tetradactyla	25	45	HA4;ADW
3668	Pholidota	Manidae	Manis	tricuspis	25.7	46	HA4;ARK
3669	Carnivora	Felidae	Acinonyx	jubatus	112	150	ARK;DAM
3670	Carnivora	Felidae	Caracal	caracal	55	91	EOM;DAM
3671	Carnivora	Felidae	Catopuma	badia	50	67	EOM;DAM
3672	Carnivora	Felidae	Catopuma	temminckii	75	105	EOM
3673	Carnivora	Felidae	Felis	catus	39.7	60.9	HAS
3674	Carnivora	Felidae	Felis	silvestris	37.7	80	EGY;EOM
3675	Carnivora	Felidae	Felis	nigripes	27	50	KIF;ADW
3676	Carnivora	Felidae	Felis	margarita	39	57	DAM;EOM
3677	Carnivora	Felidae	Felis	chaus	45.9	120	HAS;ADW
3678	Carnivora	Felidae	Felis	bieti	68	85	ADW;EOM
3679	Carnivora	Felidae	Felis	manul	50	69	EOM;HAS
3680	Carnivora	Felidae	Leopardus	guigna	37.4	52	ARK;EOM
3681	Carnivora	Felidae	Leopardus	tigrinus	38	69.4	DAM;A31
3682	Carnivora	Felidae	Leopardus	pardalis	55	101.5	ARK
3683	Carnivora	Felidae	Leopardus	wiedii	30.5	88.0	ADW;ANB
3684	Carnivora	Felidae	Leopardus	geoffroyi	42.2	75	ADW;DAM
3685	Carnivora	Felidae	Leopardus	ocolocolo	42	79	ARK
3686	Carnivora	Felidae	Leopardus	braccatus			
3687	Carnivora	Felidae	Leopardus	pajeros	75.0		ANB
3688	Carnivora	Felidae	Leopardus	jacobitus	57.7	85	MSA
3689	Carnivora	Felidae	Leptailurus	serval	60	100	ADW;DAM
3690	Carnivora	Felidae	Lynx	pardinus	65	100	EOM
3691	Carnivora	Felidae	Lynx	rufus	56.7	105.1	MSA
3692	Carnivora	Felidae	Lynx	lynx	70	130	ADW;ARK
3693	Carnivora	Felidae	Lynx	canadensis	67	107	ADW
3694	Carnivora	Felidae	Pardofelis	marmorata	40	62	THA;DAM
3695	Carnivora	Felidae	Prionailurus	bengalensis	35	60	EOM
3696	Carnivora	Felidae	Prionailurus	iriomotensis			
3697	Carnivora	Felidae	Prionailurus	planiceps	33	52	ARK;DAM

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
3698	Carnivora	Felidae	Prionailurus	rubiginosus	35	48	EOM
3699	Carnivora	Felidae	Prionailurus	viverrinus	57	86	EOM
3700	Carnivora	Felidae	Profelis	aurata	61	102	ADW
3701	Carnivora	Felidae	Puma	yagouaroundi	43	94	MSA;FGC
3702	Carnivora	Felidae	Puma	concolor	86	196	ADW;EOM
3703	Carnivora	Felidae	Neofelis	nebulosa	60	110	EOM
3704	Carnivora	Felidae	Panthera	leo	140	250	MSA
3705	Carnivora	Felidae	Panthera	tigris	140	310	BRA;EOM
3706	Carnivora	Felidae	Panthera	onca	110.5	241	GWO;ARK
3707	Carnivora	Felidae	Panthera	pardus	51.5	190	BOT;ARK
3708	Carnivora	Felidae	Uncia	uncia	75	130	DAM;MSA
3709	Carnivora	Viverridae	Prionodon	linsang	35	45	FRA
3710	Carnivora	Viverridae	Prionodon	pardicolor	35.3	41	ADW
3711	Carnivora	Viverridae	Civettictis	civetta	61	95	ADW;KIF
3712	Carnivora	Viverridae	Genetta	tigrina	49	60	ADW
3713	Carnivora	Viverridae	Genetta	abyssinica	40	50	KIF
3714	Carnivora	Viverridae	Genetta	angolensis	44.0	47.8	HIL
3715	Carnivora	Viverridae	Genetta	bourloni			
3716	Carnivora	Viverridae	Genetta	cristata	51.5		PAN
3717	Carnivora	Viverridae	Genetta	genetta	40.0	60	GÖH;BAZ
3718	Carnivora	Viverridae	Genetta	johnstoni	40	52	KIF
3719	Carnivora	Viverridae	Genetta	pardina	40.0	51.0	A15
3720	Carnivora	Viverridae	Genetta	poensis			
3721	Carnivora	Viverridae	Genetta	thierryi	38	45	KIF
3722	Carnivora	Viverridae	Genetta	victoriae	50	60	EOM
3723	Carnivora	Viverridae	Genetta	servalina	42	53	EOM
3724	Carnivora	Viverridae	Genetta	piscivora	44.5	49.5	MSA
3725	Carnivora	Viverridae	Genetta	maculata	38.0	50.0	ARU;HO1
3726	Carnivora	Viverridae	Poiana	richardsonii	28.8	38	A15;ADW
3727	Carnivora	Viverridae	Poiana	leightoni	30	38	KIF
3728	Carnivora	Viverridae	Viverra	civettina	84.3	125	PAN;EDG
3729	Carnivora	Viverridae	Viverra	zibetha	67	83	A75
3730	Carnivora	Viverridae	Viverra	tangalunga	58.5	95	ADW
3731	Carnivora	Viverridae	Viverra	megaspila	76		THA
3732	Carnivora	Viverridae	Viverricula	indica	46	64	A75;FRA
3733	Carnivora	Viverridae	Arctictis	binturong	61	96	ARK
3734	Carnivora	Viverridae	Arctogalidia	trivirgata	52.7	53	PAN;ECA
3735	Carnivora	Viverridae	Macrogalidia	musschenbroekii	68.8	88	PAN;EOM
3736	Carnivora	Viverridae	Paguma	larvata	44	76	A75;ADW
3737	Carnivora	Viverridae	Paradoxurus	zeylonensis	48.7	51	PAN;EOM
3738	Carnivora	Viverridae	Paradoxurus	jerdoni	58.9		PAN
3739	Carnivora	Viverridae	Paradoxurus	hermaphroditus	42	53.2	ECA;PAN
3740	Carnivora	Viverridae	Chrotogale	owstoni	55	72	EOM;ARK
3741	Carnivora	Viverridae	Cynogale	bennettii	50	65	THA
3742	Carnivora	Viverridae	Diplogale	hosei	47	59.9	ARK;PAN
3743	Carnivora	Viverridae	Hemigalus	derbyanus	45	65	ECA;THA
3744	Carnivora	Eupleridae	Cryptoprocta	ferox	60	80	MSA;ARK
3745	Carnivora	Eupleridae	Eupleres	goudotii	45	65	ARK
3746	Carnivora	Eupleridae	Fossa	fossana	40	47	ARK;EOM
3747	Carnivora	Eupleridae	Galidia	elegans	28.0	38	GOO;ARK

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
3748	Carnivora	Eupleridae	Galidictis	grandidieri	32	40.5	ADW;ARK
3749	Carnivora	Eupleridae	Galidictis	fasciata	31.0	35.5	GOO;EOM
3750	Carnivora	Eupleridae	Mungotictis	decemlineata	25	37	ARK;EOM
3751	Carnivora	Eupleridae	Salanoia	concolor	24	29.6	EOM;PAN
3752	Carnivora	Nandiniiidae	Nandinia	binotata	44.0	58	A15;KIF
3753	Carnivora	Herpestidae	Atilax	paludinosus	46	64	KIF
3754	Carnivora	Herpestidae	Bdeogale	crassicauda	38.3	50	ARU;KIF
3755	Carnivora	Herpestidae	Bdeogale	jacksoni	29.2	60	A22;EOM
3756	Carnivora	Herpestidae	Bdeogale	nigripes	36.5	65.0	A15;KIF
3757	Carnivora	Herpestidae	Crossarchus	platycephalus	30	36	KIF
3758	Carnivora	Herpestidae	Crossarchus	obscurus	29.4	37	MSA;KIF
3759	Carnivora	Herpestidae	Crossarchus	ansorgei	31.1	36	MSA;KIF
3760	Carnivora	Herpestidae	Crossarchus	alexandri	35	44.9	KIF;PAN
3761	Carnivora	Herpestidae	Cynictis	penicillata	23.1	40	MSA;KIF
3762	Carnivora	Herpestidae	Dologale	dybowskii	22	33	KIF
3763	Carnivora	Herpestidae	Galerella	sanguinea	25.0	40	ARU;MSA
3764	Carnivora	Herpestidae	Galerella	pulverulenta	28	42.5	KIF;MSA
3765	Carnivora	Herpestidae	Galerella	flavescens	35		EOM
3766	Carnivora	Herpestidae	Galerella	ochracea	24.5	30.7	A15;HIL
3767	Carnivora	Herpestidae	Helogale	hirtula	20	28.6	KIF;A15
3768	Carnivora	Herpestidae	Helogale	parvula	16.0	27.5	BOT;HA3
3769	Carnivora	Herpestidae	Herpestes	brachyurus	39.5	49	A63;EOM
3770	Carnivora	Herpestidae	Herpestes	vitticollis	47.7	54	PAN;EOM
3771	Carnivora	Herpestidae	Herpestes	urva	50.6	55	PAN;A75
3772	Carnivora	Herpestidae	Herpestes	smithii	40.6	45	PAN;EOM
3773	Carnivora	Herpestidae	Herpestes	semitorquatus			
3774	Carnivora	Herpestidae	Herpestes	naso	44.3	58.5	A15
3775	Carnivora	Herpestidae	Herpestes	javanicus	22.2	56.5	MSA;GWI
3776	Carnivora	Herpestidae	Herpestes	ichneumon	45.0	65.0	GÖH
3777	Carnivora	Herpestidae	Herpestes	edwardsi	37	50.0	ARK;GÖH
3778	Carnivora	Herpestidae	Herpestes	fuscus	38		EOM
3779	Carnivora	Herpestidae	Ichneumia	albicauda	45	71	ARU;KIF
3780	Carnivora	Herpestidae	Liberiictis	kuhni	40	47.8	KIF;MSA
3781	Carnivora	Herpestidae	Mungos	mungo	28.5	45	ARU;KIF
3782	Carnivora	Herpestidae	Mungos	gambianus	32	36	EOM;KIF
3783	Carnivora	Herpestidae	Paracynictis	selousi	33.0	48	BOT;KIF
3784	Carnivora	Herpestidae	Rhynchogale	melleri	44	50	KIF
3785	Carnivora	Herpestidae	Suricata	suricatta	15	31	MSA
3786	Carnivora	Hyaenidae	Crocuta	crocuta	105.0	185	HOI;ARK
3787	Carnivora	Hyaenidae	Hyaena	hyaena	94.0	119	HOI;MSA
3788	Carnivora	Hyaenidae	Hyaena	brunnea	102.0	125	PAN;ARK
3789	Carnivora	Hyaenidae	Proteles	cristata	55	80	ARK
3790	Carnivora	Canidae	Vulpes	vulpes	45.5	90	MSA
3791	Carnivora	Canidae	Vulpes	cana	38	80	EOM
3792	Carnivora	Canidae	Vulpes	chama	45.0	62.0	CSA
3793	Carnivora	Canidae	Vulpes	corsac	45	60	CSA;EOM
3794	Carnivora	Canidae	Vulpes	ferrilata	49.0	70	CSA;MSA
3795	Carnivora	Canidae	Vulpes	rueppellii	34.5	55.9	CSA
3796	Carnivora	Canidae	Vulpes	zerda	30	40.7	ADW;BRA
3797	Carnivora	Canidae	Vulpes	bengalensis	39	57.5	MSA

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
3798	Carnivora	Canidae	Vulpes	velox	38	54.5	EFH;CSA
3799	Carnivora	Canidae	Vulpes	lagopus	46	68	ARK
3800	Carnivora	Canidae	Vulpes	macrotis	45.5	53.5	CSA
3801	Carnivora	Canidae	Vulpes	pallida	38.0	55.0	CSA
3802	Carnivora	Canidae	Atelocynus	microtis	65.0	100	ANB;MSA
3803	Carnivora	Canidae	Canis	aureus	62	132	A15;EOM
3804	Carnivora	Canidae	Canis	latrans	70	135	ARK;MSA
3805	Carnivora	Canidae	Canis	lupus	96.6	160	IRI;BRA
3806	Carnivora	Canidae	Canis	mesomelas	61.7	110	BOT;EOM
3807	Carnivora	Canidae	Canis	simensis	84.1	101.2	MSA
3808	Carnivora	Canidae	Canis	adustus	60	132	ARK
3809	Carnivora	Canidae	Cerdocyon	thous	57.0	77.5	CSA
3810	Carnivora	Canidae	Chrysocyon	brachyurus	95	132	CSA;ADW
3811	Carnivora	Canidae	Cuon	alpinus	88	135	MSA;CSA
3812	Carnivora	Canidae	Dusicyon	australis	95.7	97	PAN;ARK
3813	Carnivora	Canidae	Lycalopex	fulvipes	48.0	60	CSA;ARK
3814	Carnivora	Canidae	Lycalopex	vetulus	49.0	71.5	CSA
3815	Carnivora	Canidae	Lycalopex	sechurae	50.0	78.0	CSA
3816	Carnivora	Canidae	Lycalopex	griseus	42	68	ADW
3817	Carnivora	Canidae	Lycalopex	culpaeus	50	101	EOM;MSA
3818	Carnivora	Canidae	Lycalopex	gymnocercus	50.5	80	CSA;MSA
3819	Carnivora	Canidae	Lycaon	pictus	75	141	ADW;CSA
3820	Carnivora	Canidae	Nyctereutes	procyonoides	32.5	80.0	MSA;GÖH
3821	Carnivora	Canidae	Otocyon	megalotis	46	66	MSA
3822	Carnivora	Canidae	Speothos	venaticus	46.0	75	ANB;CSA
3823	Carnivora	Canidae	Urocyon	cinereoargenteus	45.0	74	G13;EFH
3824	Carnivora	Canidae	Urocyon	littoralis	45.6	63.4	CSA
3825	Carnivora	Mustelidae	Mustela	sibirica	25	39	EOM
3826	Carnivora	Mustelidae	Mustela	itatsi			
3827	Carnivora	Mustelidae	Mustela	eversmannii	29	56.2	DAM;GÖH
3828	Carnivora	Mustelidae	Mustela	erminea	13	32.5	EFH;GÖH
3829	Carnivora	Mustelidae	Mustela	subpalmata	32.6	43	ARK
3830	Carnivora	Mustelidae	Mustela	strigidorsa	25	32.5	DAM;FRA
3831	Carnivora	Mustelidae	Mustela	putorius	21	51	DAM;EOM
3832	Carnivora	Mustelidae	Mustela	nivalis	11.4	30.1	BRA;EGY
3833	Carnivora	Mustelidae	Mustela	nigripes	31	50	ARK;DAM
3834	Carnivora	Mustelidae	Mustela	lutreolina	29	32	DAM
3835	Carnivora	Mustelidae	Mustela	nudipes	30	36	DAM
3836	Carnivora	Mustelidae	Mustela	kathiah	20	29	FRA
3837	Carnivora	Mustelidae	Mustela	frenata	20	35.5	EFH;GWO
3838	Carnivora	Mustelidae	Mustela	felipei	21	22	EOM
3839	Carnivora	Mustelidae	Mustela	altaica	22	31.2	EOM;ARK
3840	Carnivora	Mustelidae	Mustela	africana	24	38	DAM
3841	Carnivora	Mustelidae	Mustela	lutreola	21.4	43	MSA;EOM
3842	Carnivora	Mustelidae	Arctonyx	collaris	55	77	EOM;DAM
3843	Carnivora	Mustelidae	Eira	barbara	53.7	71.2	GWO;MSA
3844	Carnivora	Mustelidae	Galictis	cuja	26.3	52	ANB;MSA
3845	Carnivora	Mustelidae	Galictis	vittata	42.5	60	G12;MSA
3846	Carnivora	Mustelidae	Gulo	gulo	65	105	MSA;GÖH
3847	Carnivora	Mustelidae	Ictonyx	striatus	20	38.5	EOM;BOT

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
3848	Carnivora	Mustelidae	Ictonyx	libyca	20	30	DAM;KIF
3849	Carnivora	Mustelidae	Lyncodon	patagonicus	30	35	EOM
3850	Carnivora	Mustelidae	Martes	flavigula	45	70	ECA;EOM
3851	Carnivora	Mustelidae	Martes	foina	38	55	BAZ
3852	Carnivora	Mustelidae	Martes	gwatkinskii	51.1		PAN
3853	Carnivora	Mustelidae	Martes	martes	40	58	EOM;DAM
3854	Carnivora	Mustelidae	Martes	melampus	30	45	EOM
3855	Carnivora	Mustelidae	Martes	pennanti	47	75	EOM
3856	Carnivora	Mustelidae	Martes	zibellina	30	58	MGM;GÖH
3857	Carnivora	Mustelidae	Martes	americana	30	45	EOM
3858	Carnivora	Mustelidae	Meles	meles	56	90	DAM
3859	Carnivora	Mustelidae	Meles	leucurus	71.5		A23
3860	Carnivora	Mustelidae	Meles	anakuma			
3861	Carnivora	Mustelidae	Mellivora	capensis	48	77	BOT;DAM
3862	Carnivora	Mustelidae	Melogale	everetti			
3863	Carnivora	Mustelidae	Melogale	moschata	17.0	43.0	AL8;DAM
3864	Carnivora	Mustelidae	Melogale	orientalis			
3865	Carnivora	Mustelidae	Melogale	personata	33	43	ADW
3866	Carnivora	Mustelidae	Neovison	vison	30.0	54	EOM
3867	Carnivora	Mustelidae	Neovison	macrodon			
3868	Carnivora	Mustelidae	Poecilogale	albinucha	24	36	MSA
3869	Carnivora	Mustelidae	Taxidea	taxus	42	72	EOM
3870	Carnivora	Mustelidae	Vormela	peregusna	26.9	47.7	GÖH;MSA
3871	Carnivora	Mustelidae	Aonyx	capensis	60	92	DAM;KIF
3872	Carnivora	Mustelidae	Aonyx	cinerea	36	64	MSA;EOM
3873	Carnivora	Mustelidae	Aonyx	congica	79	97	MSA
3874	Carnivora	Mustelidae	Hydriictis	maculicollis	56	76	A15;MSA
3875	Carnivora	Mustelidae	Lontra	provocax	57	70	EOM
3876	Carnivora	Mustelidae	Lontra	canadensis	56.4	107	FGC;EOM
3877	Carnivora	Mustelidae	Lontra	felina	53	79	ARK
3878	Carnivora	Mustelidae	Lontra	longicaudis	33.7	79	ANB;EOM
3879	Carnivora	Mustelidae	Lutra	nippon			
3880	Carnivora	Mustelidae	Lutra	sumatrana	50	82.6	ARK;LUT
3881	Carnivora	Mustelidae	Lutra	lutra	46	95	DAM;GÖH
3882	Carnivora	Mustelidae	Lutrogale	perspicillata	52	79	ECA;EOM
3883	Carnivora	Mustelidae	Pteronura	brasiliensis	86	150	DAM;ANB
3884	Carnivora	Ursidae	Ailuropoda	melanoleuca	120	190	MSA;ARK
3885	Carnivora	Ursidae	Helarctos	malayanus	100	150	MSA;DAM
3886	Carnivora	Ursidae	Melursus	ursinus	140	190	ARK;DAM
3887	Carnivora	Ursidae	Tremarctos	ornatus	114	200	ANB;ARK
3888	Carnivora	Ursidae	Ursus	americanus	120	206	AND
3889	Carnivora	Ursidae	Ursus	arctos	100	280	MSA
3890	Carnivora	Ursidae	Ursus	maritimus	180	250	MSA
3891	Carnivora	Ursidae	Ursus	thibetanus	120	180	DAM
3892	Carnivora	Otariidae	Arctocephalus	philippii			
3893	Carnivora	Otariidae	Arctocephalus	australis			
3894	Carnivora	Otariidae	Arctocephalus	gazella			
3895	Carnivora	Otariidae	Arctocephalus	pusillus			
3896	Carnivora	Otariidae	Arctocephalus	townsendi			
3897	Carnivora	Otariidae	Arctocephalus	tropicalis			

ID	Order	Family	Genus	Species	HBL min	HBL max	Source
					cm		
3898	Carnivora	Otariidae	Arctocephalus	galapagoensis			
3899	Carnivora	Otariidae	Arctocephalus	forsteri			
3900	Carnivora	Otariidae	Callorhinus	ursinus			
3901	Carnivora	Otariidae	Eumetopias	jubatus			
3902	Carnivora	Otariidae	Neophoca	cinerea			
3903	Carnivora	Otariidae	Otaria	flavescens			
3904	Carnivora	Otariidae	Phocarctos	hookeri			
3905	Carnivora	Otariidae	Zalophus	californianus			
3906	Carnivora	Otariidae	Zalophus	japonicus			
3907	Carnivora	Otariidae	Zalophus	wollebaeki			
3908	Carnivora	Mephitidae	Conepatus	chinga	26.0	43.5	ANB;A31
3909	Carnivora	Mephitidae	Conepatus	humboldti	35.3		PAN
3910	Carnivora	Mephitidae	Conepatus	leuconotus	24.5	56.0	CMX;GWO
3911	Carnivora	Mephitidae	Conepatus	semistriatus	43	50	FGC
3912	Carnivora	Mephitidae	Mephitis	macroura	19.5	35.4	FGC;GWO
3913	Carnivora	Mephitidae	Mephitis	mephitis	27.7	50	A11;ADW
3914	Carnivora	Mephitidae	Mydaus	javanensis	33.6	52	ADW;DAV
3915	Carnivora	Mephitidae	Mydaus	marchei	31.1	46	MSA;DAM
3916	Carnivora	Mephitidae	Spilogale	angustifrons	20.0	30.5	GWO;FGC
3917	Carnivora	Mephitidae	Spilogale	gracilis	20.8	35.8	MSA;CMX
3918	Carnivora	Mephitidae	Spilogale	putorius	24.2	38.5	MSA
3919	Carnivora	Mephitidae	Spilogale	pygmaea	17.9	21.2	GWO;MSA
3920	Carnivora	Mephitidae	Spilogale	aquaticus			
3921	Carnivora	Procyonidae	Bassaricyon	allenii	32.5	41.0	FGC
3922	Carnivora	Procyonidae	Bassaricyon	beddardi			
3923	Carnivora	Procyonidae	Bassaricyon	gabbii	35.0	47.5	BRA
3924	Carnivora	Procyonidae	Bassaricyon	lasius	38.3		G12
3925	Carnivora	Procyonidae	Bassaricyon	pauli	42.8		G12
3926	Carnivora	Procyonidae	Bassariscus	astutus	30.5	45.3	BRA;GWO
3927	Carnivora	Procyonidae	Bassariscus	sumichrasti	37.0	53.0	G13;EOM
3928	Carnivora	Procyonidae	Nasua	nasua	37.0	77.0	ANB
3929	Carnivora	Procyonidae	Nasua	narica	41	74.0	BRA;G15
3930	Carnivora	Procyonidae	Nasuella	olivacea	36	39	ADW
3931	Carnivora	Procyonidae	Potos	flavus	35.0	74	A31;FGC
3932	Carnivora	Procyonidae	Procyon	cancrivorus	41.5	76.2	BRA;FGC
3933	Carnivora	Procyonidae	Procyon	lotor	39.2	71	FGC;EFH
3934	Carnivora	Procyonidae	Procyon	pygmaeus	35.7	43.7	ARK
3935	Carnivora	Ailuridae	Ailurus	fulgens	50	64	ARK
3936	Perissodactyla	Equidae	Equus	burchellii	160	246	BOT;ADW
3937	Perissodactyla	Equidae	Equus	quagga	217	246	ARK
3938	Perissodactyla	Equidae	Equus	zebra	210	260	ARK
3939	Perissodactyla	Equidae	Equus	kiang	210		ADW
3940	Perissodactyla	Equidae	Equus	caballus	220	280	MSA
3941	Perissodactyla	Equidae	Equus	asinus	195	205	KIF
3942	Perissodactyla	Equidae	Equus	grevyi	250	300	KIF
3943	Perissodactyla	Equidae	Equus	hemionus	185	244	GWI;ADW
3944	Perissodactyla	Tapiridae	Tapirus	bairdii	180	250	EDG
3945	Perissodactyla	Tapiridae	Tapirus	indicus	180	250	ARK;THA
3946	Perissodactyla	Tapiridae	Tapirus	pinchaque	180	250	ARK;EDG
3947	Perissodactyla	Tapiridae	Tapirus	terrestris	170	221	ARK;MSA

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
3948	Perissodactyla	Rhinocerotidae	Ceratotherium	simum	335	420	ADW
3949	Perissodactyla	Rhinocerotidae	Dicerorhinus	sumatrensis	236	318	MSA
3950	Perissodactyla	Rhinocerotidae	Diceros	bicornis	280.0	375	MSA;ARK
3951	Perissodactyla	Rhinocerotidae	Rhinoceros	sondaicus	200	400	ARK
3952	Perissodactyla	Rhinocerotidae	Rhinoceros	unicornis	310	412	ARK;MSA
3953	Artiodactyla	Suidae	Sus	celebensis	80	130	ADW
3954	Artiodactyla	Suidae	Sus	ahoenobarbus			
3955	Artiodactyla	Suidae	Sus	verrucosus	90	160	EOM
3956	Artiodactyla	Suidae	Sus	scrofa	85	180	KIF;BRA
3957	Artiodactyla	Suidae	Sus	salvanius	55	71	ARK
3958	Artiodactyla	Suidae	Sus	oliveri			
3959	Artiodactyla	Suidae	Sus	cebifrons	115.0	135	ARK;PAN
3960	Artiodactyla	Suidae	Sus	bucculentus			
3961	Artiodactyla	Suidae	Sus	barbatus	135.0	150	PAN;ECA
3962	Artiodactyla	Suidae	Sus	philippensis	113	135	ARK;PAN
3963	Artiodactyla	Suidae	Babyrousa	babyrussa	85	110	ADW
3964	Artiodactyla	Suidae	Babyrousa	togeanensis			
3965	Artiodactyla	Suidae	Babyrousa	celebensis			
3966	Artiodactyla	Suidae	Babyrousa	bolabatuensis			
3967	Artiodactyla	Suidae	Phacochoerus	africanus	105	152	KIF
3968	Artiodactyla	Suidae	Phacochoerus	aethiopicus	74.5	150	BOT;ADW
3969	Artiodactyla	Suidae	Hylochoerus	meinertzhageni	130	210	EOM
3970	Artiodactyla	Suidae	Potamochoerus	larvatus	100	177	KIF
3971	Artiodactyla	Suidae	Potamochoerus	porcus	100	150	ARK
3972	Artiodactyla	Tayassuidae	Catagonus	wagneri	90	111	ARK
3973	Artiodactyla	Tayassuidae	Pecari	tajacu	75.0	100	BRA
3974	Artiodactyla	Tayassuidae	Tayassu	pecari	75	140	ADW;ANB
3975	Artiodactyla	Hippopotamidae	Hexaprotodon	liberiensis	150	177	KIF
3976	Artiodactyla	Hippopotamidae	Hippopotamus	amphibius	280	560	KIF;ADW
3977	Artiodactyla	Camelidae	Camelus	bactrianus	225	345	EDG
3978	Artiodactyla	Camelidae	Camelus	dromedarius	225	345	BRA
3979	Artiodactyla	Camelidae	Lama	glama	120	250	BRA
3980	Artiodactyla	Camelidae	Vicugna	vicugna	122.5	190	ADW;ARK
3981	Artiodactyla	Bovidae	Neotragus	moschatus	58	62	EOM
3982	Artiodactyla	Bovidae	Neotragus	pygmaeus	38	55	KIF;EOM
3983	Artiodactyla	Bovidae	Neotragus	batesi	50.0	57.5	ARK;ADW
3984	Artiodactyla	Bovidae	Oreotragus	oreotragus	75	115	ARK
3985	Artiodactyla	Bovidae	Ammendorcas	clarkei	152	168	ADW
3986	Artiodactyla	Bovidae	Antidorcas	marsupialis	96	150	EOM;KIF
3987	Artiodactyla	Bovidae	Antilope	cervicapra	100	150	EOM
3988	Artiodactyla	Bovidae	Dorcatragus	megalotis	70	87	EOM;KIF
3989	Artiodactyla	Bovidae	Eudorcas	rufina			
3990	Artiodactyla	Bovidae	Eudorcas	thomsonii	80	120	ARK
3991	Artiodactyla	Bovidae	Eudorcas	rufifrons	80	120	KIF
3992	Artiodactyla	Bovidae	Gazella	subgutturosa	84	126	MSA;ARK
3993	Artiodactyla	Bovidae	Gazella	spekei	88.5	105	PAN;ARK
3994	Artiodactyla	Bovidae	Gazella	erlangeri			
3995	Artiodactyla	Bovidae	Gazella	gazella	91	115	MSA
3996	Artiodactyla	Bovidae	Gazella	dorcas	86	110	EGY;KIF

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
3997	Artiodactyla	Bovidae	Gazella	arabica	100.0		PAN
3998	Artiodactyla	Bovidae	Gazella	cuvieri	95	105	KIF
3999	Artiodactyla	Bovidae	Gazella	saudiya			
4000	Artiodactyla	Bovidae	Gazella	leptoceros	88.5	110	EGY;ARK
4001	Artiodactyla	Bovidae	Gazella	bennettii			
4002	Artiodactyla	Bovidae	Litocranius	walleri	140.0	160	ARK
4003	Artiodactyla	Bovidae	Madoqua	kirkii	54	72	MSA;EOM
4004	Artiodactyla	Bovidae	Madoqua	saltiana	52	67	EOM
4005	Artiodactyla	Bovidae	Madoqua	piacentinii	45	50	KIF
4006	Artiodactyla	Bovidae	Madoqua	guentheri	48	75	MSA;EOM
4007	Artiodactyla	Bovidae	Nanger	granti	131	166	IRI;ARK
4008	Artiodactyla	Bovidae	Nanger	soemmerringii	122	150	EOM
4009	Artiodactyla	Bovidae	Nanger	dama	140	168	ADW
4010	Artiodactyla	Bovidae	Ourebia	ourebi	92	140	ARK
4011	Artiodactyla	Bovidae	Procavia	gutturosa	100	148	ADW;EOM
4012	Artiodactyla	Bovidae	Procavia	przewalskii	110		ADW
4013	Artiodactyla	Bovidae	Procavia	picticaudata	91	105	ARK
4014	Artiodactyla	Bovidae	Raphicerus	melanotis	65	80	KIF
4015	Artiodactyla	Bovidae	Raphicerus	sharpei	61.0	75	EOM
4016	Artiodactyla	Bovidae	Raphicerus	campestris	52.0	95.0	BOT;EOM
4017	Artiodactyla	Bovidae	Saiga	borealis			
4018	Artiodactyla	Bovidae	Saiga	tatarica	100	146	MSA;ARK
4019	Artiodactyla	Bovidae	Taurotragus	oryx	200	345	ARK
4020	Artiodactyla	Bovidae	Taurotragus	derbianus	210	345	ADW
4021	Artiodactyla	Bovidae	Tetracerus	quadricornis	100.0		PAN
4022	Artiodactyla	Bovidae	Tragelaphus	eurycerus	170	270	ARK;MSA
4023	Artiodactyla	Bovidae	Tragelaphus	scriptus	105	150	KIF
4024	Artiodactyla	Bovidae	Tragelaphus	strepsiceros	185	245	ARK
4025	Artiodactyla	Bovidae	Tragelaphus	angasii	135	210	KIF;EOM
4026	Artiodactyla	Bovidae	Tragelaphus	imberbis	110	175	ARK
4027	Artiodactyla	Bovidae	Tragelaphus	buxtoni	190	260	ARK
4028	Artiodactyla	Bovidae	Tragelaphus	spekii	115	175	ARK;BOT
4029	Artiodactyla	Bovidae	Bison	bonasus	250	350	GÖH
4030	Artiodactyla	Bovidae	Bison	bison	213	380	ADW;EOM
4031	Artiodactyla	Bovidae	Bos	frontalis	240.0	330	GÖH;ARK
4032	Artiodactyla	Bovidae	Bos	grunniens	325		ARK
4033	Artiodactyla	Bovidae	Bos	taurus			
4034	Artiodactyla	Bovidae	Bos	sauveli	210	225	EOM
4035	Artiodactyla	Bovidae	Bos	javanicus	190	250	THA
4036	Artiodactyla	Bovidae	Boselaphus	tragocamelus	180.0	200	ADW
4037	Artiodactyla	Bovidae	Bubalus	bubalis	240.0	300	ARK
4038	Artiodactyla	Bovidae	Bubalus	quarlesi	150	157.8	ARK;PAN
4039	Artiodactyla	Bovidae	Bubalus	mindorensis	220.0		MSA
4040	Artiodactyla	Bovidae	Bubalus	depressicornis	172.9	180	PAN;ARK
4041	Artiodactyla	Bovidae	Pseudoryx	nghethinhensis	150	200	ADW;EDG
4042	Artiodactyla	Bovidae	Syncerus	caffer	170	340	KIF
4043	Artiodactyla	Bovidae	Kobus	kob	160.0	180	EOM
4044	Artiodactyla	Bovidae	Kobus	leche	130	180	ARK
4045	Artiodactyla	Bovidae	Kobus	megaceros	125	235	ARK
4046	Artiodactyla	Bovidae	Kobus	vardonii	126	142	EOM

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
cm							
4047	Artiodactyla	Bovidae	Kobus	ellipsiprymnus	173.0	235	BOT;ARK
4048	Artiodactyla	Bovidae	Pelea	capreolus	105	125	KIF
4049	Artiodactyla	Bovidae	Redunca	arundinum	109	200.5	HIL
4050	Artiodactyla	Bovidae	Redunca	fulvorufula	110	136	EOM
4051	Artiodactyla	Bovidae	Redunca	redunda	100	135	KIF
4052	Artiodactyla	Bovidae	Aepyceros	melampus	120	160	KIF
4053	Artiodactyla	Bovidae	Alcelaphus	caama			
4054	Artiodactyla	Bovidae	Alcelaphus	lichtensteinii	190		EOM
4055	Artiodactyla	Bovidae	Alcelaphus	buselaphus	150	245	ADW
4056	Artiodactyla	Bovidae	Beatragus	hunteri	120.0	205	ARK;EDG
4057	Artiodactyla	Bovidae	Connochaetes	taurinus	150	240	ARK
4058	Artiodactyla	Bovidae	Connochaetes	gnou	172	221	MSA;IRI
4059	Artiodactyla	Bovidae	Damaliscus	pygargus	140	160	ARK
4060	Artiodactyla	Bovidae	Damaliscus	superstes			
4061	Artiodactyla	Bovidae	Damaliscus	lunatus	104	230	ADW;KIF
4062	Artiodactyla	Bovidae	Damaliscus	korrigum			
4063	Artiodactyla	Bovidae	Ammotragus	lervia	130	165	ARK
4064	Artiodactyla	Bovidae	Budorcas	taxicolor	104	220	MSA;ARK
4065	Artiodactyla	Bovidae	Capra	hircus	115	170	ADW
4066	Artiodactyla	Bovidae	Capra	falconeri	140	180	ARK
4067	Artiodactyla	Bovidae	Capra	ibex	100	170	GÖH;KIF
4068	Artiodactyla	Bovidae	Capra	caucasica	87	190	MSA
4069	Artiodactyla	Bovidae	Capra	nubiana	99.9	125	EGY;ARK
4070	Artiodactyla	Bovidae	Capra	pyrenaica	90.0	145	GÖH;BAZ
4071	Artiodactyla	Bovidae	Capra	sibirica	102	165	MSA;ADW
4072	Artiodactyla	Bovidae	Capra	walie			
4073	Artiodactyla	Bovidae	Capricornis	swinhoei	87.6	94.7	MSA
4074	Artiodactyla	Bovidae	Capricornis	milneedwardsii	135.0	168	ANC;A76
4075	Artiodactyla	Bovidae	Capricornis	sumatraensis	140	180	ARK
4076	Artiodactyla	Bovidae	Capricornis	rubidus	140	155	ARK
4077	Artiodactyla	Bovidae	Capricornis	crispus	130		ADW
4078	Artiodactyla	Bovidae	Capricornis	thar			
4079	Artiodactyla	Bovidae	Hemitragus	jayakari	107.5		PAN
4080	Artiodactyla	Bovidae	Hemitragus	hylocrius	90	140	ADW
4081	Artiodactyla	Bovidae	Hemitragus	jemlahicus	90	140	ADW
4082	Artiodactyla	Bovidae	Naemorhedus	caudatus	100	120	THA
4083	Artiodactyla	Bovidae	Naemorhedus	goral	82	130	MSA
4084	Artiodactyla	Bovidae	Naemorhedus	griseus	80	120	FRA
4085	Artiodactyla	Bovidae	Naemorhedus	baileyi	90	105	AFR
4086	Artiodactyla	Bovidae	Oreamnos	americanus	117	180	MSA;BOF
4087	Artiodactyla	Bovidae	Ovibos	moschatus	135	250	ADW
4088	Artiodactyla	Bovidae	Ovis	canadensis	117.5	182.6	MSA
4089	Artiodactyla	Bovidae	Ovis	nivicola	124.8	129	A42
4090	Artiodactyla	Bovidae	Ovis	dalli	115.6	167	ALA;MSA
4091	Artiodactyla	Bovidae	Ovis	aries	110	180	ARK;ADW
4092	Artiodactyla	Bovidae	Ovis	ammon	110	200	GÖH;ARK
4093	Artiodactyla	Bovidae	Pantholops	hodgsonii			
4094	Artiodactyla	Bovidae	Pseudois	schaeferi			
4095	Artiodactyla	Bovidae	Pseudois	nayaur	120.0	140	MSA
4096	Artiodactyla	Bovidae	Rupicapra	pyrenaica	90	130	ADW

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
					cm		
4097	Artiodactyla	Bovidae	Rupicapra	rupicapra	90	140	ARK;GÖH
4098	Artiodactyla	Bovidae	Cephalophus	rufilatus	60	80	ADW
4099	Artiodactyla	Bovidae	Cephalophus	zebra	70	90	KIF
4100	Artiodactyla	Bovidae	Cephalophus	weynsi			
4101	Artiodactyla	Bovidae	Cephalophus	silvicultor	115	190	MSA;ARK
4102	Artiodactyla	Bovidae	Cephalophus	ogilbyi	85	115	ARK
4103	Artiodactyla	Bovidae	Cephalophus	nigrifrons	80	170	ARK
4104	Artiodactyla	Bovidae	Cephalophus	natalensis	70	100	EOM
4105	Artiodactyla	Bovidae	Cephalophus	leucogaster	78	100	KIF
4106	Artiodactyla	Bovidae	Cephalophus	adersi	66	72	ARK
4107	Artiodactyla	Bovidae	Cephalophus	jentinki	130	150	ARK
4108	Artiodactyla	Bovidae	Cephalophus	brookei			
4109	Artiodactyla	Bovidae	Cephalophus	dorsalis	70	100	ARK
4110	Artiodactyla	Bovidae	Cephalophus	callipygus	80	115	ARK
4111	Artiodactyla	Bovidae	Cephalophus	niger	80	104.2	ADW;PAN
4112	Artiodactyla	Bovidae	Cephalophus	spadix	97	140	ARK
4113	Artiodactyla	Bovidae	Philantomba	maxwellii	55	90	MSA
4114	Artiodactyla	Bovidae	Philantomba	monticola	55	90	ARK
4115	Artiodactyla	Bovidae	Sylvicapra	grimmia	70	115	KIF
4116	Artiodactyla	Bovidae	Addax	nasomaculatus	95	175	MSA;KIF
4117	Artiodactyla	Bovidae	Hippotragus	equinus	115.0	240	PAN;ARK
4118	Artiodactyla	Bovidae	Hippotragus	leucophaeus			
4119	Artiodactyla	Bovidae	Hippotragus	niger	187.7	255	BOT;ARK
4120	Artiodactyla	Bovidae	Oryx	leucoryx	153	235	ADW
4121	Artiodactyla	Bovidae	Oryx	beisa	153.0	170.0	KIF
4122	Artiodactyla	Bovidae	Oryx	dammah	160	191.0	ARK;PAN
4123	Artiodactyla	Bovidae	Oryx	gazella	138.0	195	BOT;KIF
4124	Artiodactyla	Tragulidae	Hyemoschus	aquaticus	45.0	102	ADW;KIF
4125	Artiodactyla	Tragulidae	Moschiola	meminna	50.0	58.0	GÖH
4126	Artiodactyla	Tragulidae	Tragulus	versicolor			
4127	Artiodactyla	Tragulidae	Tragulus	williamsoni			
4128	Artiodactyla	Tragulidae	Tragulus	nigricans			
4129	Artiodactyla	Tragulidae	Tragulus	napu	50	75	THA;ADW
4130	Artiodactyla	Tragulidae	Tragulus	kanchil	42	49	ECA
4131	Artiodactyla	Tragulidae	Tragulus	javanicus	45.7	56	ADW
4132	Artiodactyla	Moschidae	Moschus	cupreus			
4133	Artiodactyla	Moschidae	Moschus	chrysogaster	90.0	100	PAN;ADW
4134	Artiodactyla	Moschidae	Moschus	anhuiensis			
4135	Artiodactyla	Moschidae	Moschus	moschiferus	86	100	ARK
4136	Artiodactyla	Moschidae	Moschus	leucogaster	86	100	ARK
4137	Artiodactyla	Moschidae	Moschus	fucus	70	100	ADW
4138	Artiodactyla	Moschidae	Moschus	berezovskii	90.0		PAN
4139	Artiodactyla	Cervidae	Alces	americanus	200	310	MGM;ARK
4140	Artiodactyla	Cervidae	Alces	alces	200	310	GÖH;ARK
4141	Artiodactyla	Cervidae	Blastocerus	dichotomus	149	191	ANB;MSA
4142	Artiodactyla	Cervidae	Capreolus	pygargus	127	144	MSA
4143	Artiodactyla	Cervidae	Capreolus	capreolus	95.0	135.0	GÖH
4144	Artiodactyla	Cervidae	Hippocamelus	bisulcus	140	175	ARK
4145	Artiodactyla	Cervidae	Hippocamelus	antisensis	127.5	155.0	ANB;PAN
4146	Artiodactyla	Cervidae	Mazama	rufina			

ID	Order	Family	Genus	Species	HBL	HBL	Source
					min	max	
4147	Artiodactyla	Cervidae	Mazama	americana	95	132	ADW;ANB
4148	Artiodactyla	Cervidae	Mazama	bororo			
4149	Artiodactyla	Cervidae	Mazama	bricienii	70.6		ANB
4150	Artiodactyla	Cervidae	Mazama	chunyi	70		ARK
4151	Artiodactyla	Cervidae	Mazama	gouazoubira	84.1	100.0	ANB
4152	Artiodactyla	Cervidae	Mazama	pandora			
4153	Artiodactyla	Cervidae	Mazama	temama	91.0	97.2	G12;G15
4154	Artiodactyla	Cervidae	Mazama	nana			
4155	Artiodactyla	Cervidae	Odocoileus	hemionus	112	168	ALA
4156	Artiodactyla	Cervidae	Odocoileus	virginianus	80	259	GÖH;A31
4157	Artiodactyla	Cervidae	Ozotoceros	bezoarticus	110	140	ADW
4158	Artiodactyla	Cervidae	Pudu	mephistophiles			
4159	Artiodactyla	Cervidae	Pudu	puda	85		ARK
4160	Artiodactyla	Cervidae	Rangifer	tarandus	130.8	225	ALA;BOF
4161	Artiodactyla	Cervidae	Axis	kuhlpii	137.5		PAN
4162	Artiodactyla	Cervidae	Axis	calamianensis	100	175	ARK
4163	Artiodactyla	Cervidae	Axis	porcinus	125	135	ADW
4164	Artiodactyla	Cervidae	Axis	axis	110	150	GÖH;ADW
4165	Artiodactyla	Cervidae	Cervus	elaphus	160	270	ADW
4166	Artiodactyla	Cervidae	Cervus	nippon	95	180	ADW
4167	Artiodactyla	Cervidae	Dama	dama	118	175	BAZ;ADW
4168	Artiodactyla	Cervidae	Elaphodus	cephalophus	110	160	ARK
4169	Artiodactyla	Cervidae	Elaphurus	davidianus	183	216	ADW
4170	Artiodactyla	Cervidae	Muntiacus	feae			
4171	Artiodactyla	Cervidae	Muntiacus	crinifrons	98	132	ARK
4172	Artiodactyla	Cervidae	Muntiacus	gongshanensis			
4173	Artiodactyla	Cervidae	Muntiacus	muntjak	89	135	ADW
4174	Artiodactyla	Cervidae	Muntiacus	vuquangensis			
4175	Artiodactyla	Cervidae	Muntiacus	putaoensis			
4176	Artiodactyla	Cervidae	Muntiacus	atherodes	90	100	ADW
4177	Artiodactyla	Cervidae	Muntiacus	reevesi	70	113	ADW
4178	Artiodactyla	Cervidae	Muntiacus	rooseveltorum			
4179	Artiodactyla	Cervidae	Muntiacus	truongsonensis			
4180	Artiodactyla	Cervidae	Muntiacus	puhoatensis			
4181	Artiodactyla	Cervidae	Przewalskium	albirostris	190	227	ADW;ARK
4182	Artiodactyla	Cervidae	Rucervus	schomburgki			
4183	Artiodactyla	Cervidae	Rucervus	eldii	150	180	ARK
4184	Artiodactyla	Cervidae	Rucervus	duvaucelii	150.0		PAN
4185	Artiodactyla	Cervidae	Rusa	unicolor	162	246	ADW
4186	Artiodactyla	Cervidae	Rusa	alfredi	120	130	ARK
4187	Artiodactyla	Cervidae	Rusa	marianna	100	151	ARK
4188	Artiodactyla	Cervidae	Rusa	timorensis	163.5		PAN
4189	Artiodactyla	Cervidae	Hydropotes	inermis	75	105	GÖH
4190	Artiodactyla	Antilocapridae	Antilocapra	americana	125	141	IRI;ADW
4191	Artiodactyla	Giraffidae	Giraffa	camelopardalis	304	570	BOT;ADW
4192	Artiodactyla	Giraffidae	Okapia	johnstoni	190.0	250	GÖH;ADW

## Appendix 8b

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## Appendix 9b

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## Appendix 10

### Measurements of extant murids, taken from Tate (1951)

dif% is the difference between UTRcr and UTRalv; difsum% is the difference between UTRcr and URsum

genus	species	UTR cr	alv	dif%	URsum	difsum%
Abeomelomys	sevia	5.8			5.9	1.7
Anisomys	imitator	10.5			10.2	-2.9
Anisomys	imitator	10.2			10.4	1.9
Anisomys	imitator	10.0			9.7	-3.1
Anisomys	imitator	10.1			10.3	1.9
Anisomys	imitator	10.0			9.6	-4.2
Anisomys	imitator	9.9			9.6	-3.1
Chiruromys	forbesi	5.6			5.3	-5.7
Chiruromys	forbesi	5.8			5.5	-5.5
Chiruromys	forbesi	5.9			5.9	0.0
Chiruromys	forbesi	5.7			5.6	-1.8
Chiruromys	forbesi	6.0			6.0	0.0
Chiruromys	lamia	4.9			4.7	-4.3
Chiruromys	vates	4.5			4.4	-2.3
Coccymys	albidens	5.3			5.3	0.0
Coccymys	albidens	5.1			5.3	3.8
Coccymys	albidens	5.1			5.4	5.6
Coccymys	ruemmieri	4.4			4.6	4.3
Conilurus	albipes	9.5			9.3	-2.2
Conilurus	penicillatus	7.3			7.3	0.0
Conilurus	penicillatus	7.9			8.2	3.7
Conilurus	penicillatus	8.2			8.5	3.5
Conilurus	penicillatus	8.2			8.5	3.5
Conilurus	penicillatus	7.8			7.8	0.0
Conilurus	penicillatus	7.3			7.1	-2.8
Conilurus	penicillatus	8.6			8.6	0.0
Conilurus	penicillatus	9.0			9.0	0.0
Hyomys	dammermani	14.9			13.6	-9.6
Hyomys	dammermani	16.3			14.6	-11.6
Hyomys	dammermani	16.6			15.9	-4.4
Hyomys	dammermani	16.5			15.9	-3.8
Hyomys	goliath	17.5			16.5	-6.1
Hyomys	goliath	17.0			16.5	-3.0
Hyomys	goliath	17.0			17.1	0.6
Leggadina	forresti	4.7			4.5	-4.4
Leggadina	forresti	4.3			4.6	6.5
Leggadina	forresti	4.6			4.3	-7.0
Leporillus	apicalis	8.6			8.4	-2.4
Leporillus	apicalis	9.1			8.9	-2.2
Leporillus	conditor	9.5			9.3	-2.2
Leporillus	conditor	9.0			8.6	-4.7
Leptomys	elegans	6.1			5.8	-5.2
Leptomys	ernstmayri	5.5			5.1	-7.8

genus	species	UTR cr	alv	dif%	URsum	difsum%
Leptomys	signatus	6.3			6.3	0.0
Lorentzimys	nouhuysi	2.6			2.5	-4.0
Lorentzimys	nouhuysi	2.8			2.9	3.4
Macruromys	elegans	4.9			5.1	3.9
Macruromys	elegans	4.9			5.0	2.0
Macruromys	major	6.8			6.8	0.0
Macruromys	major	6.8			6.9	1.4
Macruromys	major	6.8			6.8	0.0
Macruromys	major	6.7			6.7	0.0
Macruromys	major	6.6			6.7	1.5
Mallomys	araoensis	17.0			16.5	-3.0
Mallomys	araoensis	17.5			17.7	1.1
Mallomys	rothschildi	16.4			16.2	-1.2
Mallomys	rothschildi	16.6			16.8	1.2
Mallomys	rothschildi	16.5			16.9	2.4
Mammelomys	lanosus	7.9			7.5	-5.3
Mammelomys	lanosus	8.0			7.8	-2.6
Mammelomys	rattooides	8.4			8.2	-2.4
Mastacomys	fuscus	10.0			9.8	-2.0
Mastacomys	fuscus	8.7			9.1	4.4
Melomys	aerosus	7.5			7.4	-1.4
Melomys	arcium	7.2			7.1	-1.4
Melomys	bougainville	6.2			6.5	4.6
Melomys	burtoni	5.9			5.9	0.0
Melomys	burtoni	4.7			4.6	-2.2
Melomys	burtoni	5.3			5.4	1.9
Melomys	burtoni	5.3			5.1	-3.9
Melomys	burtoni	5.2			5.2	0.0
Melomys	burtoni	5.0			5.3	5.7
Melomys	burtoni	5.7			5.7	0.0
Melomys	burtoni	6.3			6.5	3.1
Melomys	burtoni	5.8			5.8	0.0
Melomys	caurinus	7.8			7.7	-1.3
Melomys	cervinipes	6.4			6.3	-1.6
Melomys	cervinipes	6.7			6.5	-3.1
Melomys	cervinipes	6.9			7.3	5.5
Melomys	cervinipes	6.9			6.9	0.0
Melomys	cervinipes	6.6			6.5	-1.5
Melomys	cervinipes	7.0			7.1	1.4
Melomys	cervinipes	7.0			6.6	-6.1
Melomys	cervinipes	6.4			6.6	3.0
Melomys	dollmani	6.0			5.9	-1.7
Melomys	fraterculus	6.7			6.6	-1.5
Melomys	fulgens	7.1			6.8	-4.4
Melomys	leucogaster	7.1			7.0	-1.4
Melomys	leucogaster	7.8			8.0	2.5
Melomys	leucogaster	7.1			7.0	-1.4
Melomys	leucogaster	7.0			7.2	2.8
Melomys	lutillus	5.3			5.3	0.0
Melomys	lutillus	5.2			5.3	1.9

genus	species	UTR cr	alv	dif%	URsum	difsum%
Melomys	lutillus	5.2			5.3	1.9
Melomys	obiensis	6.4			6.2	-3.2
Melomys	rubicola	6.5			6.8	4.4
Melomys	rufescens	6.5			6.5	0.0
Melomys	rufescens	6.4			6.6	3.0
Melomys	rufescens	6.0			6.0	0.0
Melomys	rufescens	6.4			6.2	-3.2
Melomys	rufescens	5.9			6.0	1.7
Melomys	rufescens	6.3			6.3	0.0
Melomys	talaudium	7.6			7.5	-1.3
Mesembriomys	gouldii	12.0			12.2	1.6
Mesembriomys	gouldii	12.0			12.1	0.8
Mesembriomys	gouldii	11.0			11.0	0.0
Mesembriomys	gouldii	10.5			10.5	0.0
Mesembriomys	gouldii	11.6			11.9	2.5
Mesembriomys	gouldii	12.3			12.4	0.8
Mesembriomys	gouldii	11.5			11.8	2.5
Mesembriomys	gouldii	12.4			12.6	1.6
Mesembriomys	macrurus	8.8			8.9	1.1
Mesembriomys	macrurus	8.8			9.0	2.2
Notomys	alexis	5.2			5.3	1.9
Notomys	alexis	5.2			5.2	0.0
Notomys	alexis	4.8			5.0	4.0
Notomys	amplus	7.5			8.3	9.6
Notomys	aquilo	5.1			5.0	-2.0
Notomys	cervinus	4.9			4.8	-2.1
Notomys	cervinus	4.9			4.7	-4.3
Notomys	longicaudatus	5.5			5.5	0.0
Notomys	longicaudatus	6.6			6.6	0.0
Notomys	longicaudatus	6.6			6.8	2.9
Notomys	macrotis	5.6			4.9	-14.3
Notomys	mitchellii	5.0			5.2	3.8
Notomys	mitchellii	5.1			5.3	3.8
Notomys	mitchellii	4.9			5.1	3.9
Notomys	mitchellii	5.4			5.6	3.6
Notomys	mitchellii	5.4			5.6	3.6
Notomys	mitchellii	4.9			4.8	-2.1
Notomys	mordax	6.2			6.3	1.6
Paramelomys	levipes	7.7			7.6	-1.3
Paramelomys	lorentzii	8.1			7.5	-8.0
Paramelomys	mollis	7.7			7.4	-4.1
Paramelomys	mollis	7.9			7.8	-1.3
Paramelomys	mollis	7.7			7.6	-1.3
Paramelomys	mollis	7.5			7.6	1.3
Paramelomys	mollis	7.8			7.1	-9.9
Paramelomys	mollis	7.6			7.7	1.3
Paramelomys	moncktoni	6.7			6.8	1.5
Paramelomys	naso	8.6			8.4	-2.4
Paramelomys	platyops	6.5			6.3	-3.2
Paramelomys	platyops	6.9			6.7	-3.0

genus	species	UTR cr	alv	dif%	URsum	difsum%
Paramelomys	platyops	6.4			6.4	0.0
Paramelomys	platyops	5.5			5.3	-3.8
Paramelomys	platyops	5.7			5.3	-7.5
Paramelomys	rubex	6.4			6.3	-1.6
Paramelomys	rubex	6.6			6.4	-3.1
Paramelomys	rubex	6.5			6.2	3.2
Paramelomys	rubex	6.1			5.9	-3.4
Paramelomys	rubex	6.7			6.6	-1.5
Paramelomys	rubex	6.1			6.2	1.6
Paramelomys	rubex	6.3			5.8	-8.6
Paramelomys	rubex	6.1			5.9	-3.4
Paramelomys	rubex	7.0			6.7	-4.5
Paramelomys	steini	6.8			6.3	-7.9
Pogonomelomys	bruijni	8.1			7.7	-5.2
Pogonomelomys	bruijni	7.1			7.4	4.1
Pogonomelomys	mayeri	6.6			6.6	0.0
Pogonomelomys	mayeri	6.8			6.9	1.4
Pogonomelomys	mayeri	6.6			6.7	1.5
Pogonomys	loriae	6.6			6.6	0.0
Pogonomys	loriae	6.1			6.0	-1.7
Pogonomys	macrourus	5.0			5.1	2.0
Pogonomys	macrourus	4.9			4.8	-2.1
Pogonomys	macrourus	5.2			5.3	1.9
Pogonomys	macrourus	5.2			5.3	1.9
Pogonomys	macrourus	5.8			5.8	0.0
Pogonomys	sylvestris	4.8			4.8	0.0
Protochromys	fellowsi	6.5			6.7	3.0
Protochromys	fellowsi	6.3			6.3	0.0
Pseudomys	albocinereus	4.0			3.9	-2.6
Pseudomys	albocinereus	4.1			4.3	4.7
Pseudomys	albocinereus	3.6			3.6	0.0
Pseudomys	apodemoides	3.9			4.1	4.9
Pseudomys	australis	5.8			5.8	0.0
Pseudomys	australis	5.6			5.7	1.8
Pseudomys	australis	5.7			6.0	5.0
Pseudomys	australis	6.4			6.2	-3.2
Pseudomys	australis	6.6			6.5	-1.5
Pseudomys	australis	6.3			6.3	0.0
Pseudomys	delicatulus	3.8			3.6	-5.6
Pseudomys	delicatulus	3.7			3.7	0.0
Pseudomys	delicatulus	3.8			3.9	2.6
Pseudomys	delicatulus	4.2			4.1	-2.4
Pseudomys	fieldi	4.7			4.7	0.0
Pseudomys	glaucus	4.2			4.1	-2.4
Pseudomys	gracilicaudatus	6.1			6.2	1.6
Pseudomys	hermannsburgensis	3.6			3.5	-2.9
Pseudomys	hermannsburgensis	3.8			3.9	2.6
Pseudomys	higginsi	5.5			5.5	0.0
Pseudomys	nanus	5.6			5.4	-3.7
Pseudomys	nanus	5.3			5.3	0.0

genus	species	UTR cr	alv	dif%	URsum	difsum%
Pseudomys	novaehollandiae	3.9			3.8	-2.6
Pseudomys	occidentalis	4.5			4.6	2.2
Pseudomys	occidentalis	4.6			4.8	4.2
Pseudomys	oralis	6.6			6.6	0.0
Pseudomys	shortridgei	5.9			6.0	1.7
Rattus	arfakiensis	5.5			5.4	-1.9
Rattus	arrogans	5.7			5.6	-1.8
Rattus	colletti	6.3	7.1	11.3	6.4	1.6
Rattus	exulans	5.0			5.0	0.0
Rattus	exulans	5.3			5.1	-3.9
Rattus	exulans	4.8			4.8	0.0
Rattus	exulans	5.2			5.1	-2.0
Rattus	fuscipes	5.2			5.3	1.9
Rattus	fuscipes	7.2	7.5	4.0	7.1	-1.4
Rattus	fuscipes	7.4	7.9	6.3	7.1	-4.2
Rattus	fuscipes	7.3			6.8	-7.4
Rattus	fuscipes	7.4	7.8	5.1	7.3	-1.4
Rattus	fuscipes	6.5	7.0	7.1	6.4	-1.6
Rattus	fuscipes	7.3	7.7	5.2	7.1	-2.8
Rattus	fuscipes	6.7	7.5	10.7	6.8	1.5
Rattus	fuscipes	7.3			7.2	-1.4
Rattus	fuscipes	6.0	6.6	9.1	5.8	-4.3
Rattus	fuscipes	6.1	6.4	4.7	6.0	-2.5
Rattus	fuscipes	6.3	6.5	3.1	6.5	3.1
Rattus	fuscipes	5.9	6.1	3.3	6.1	3.3
Rattus	fuscipes	5.4	5.6	3.6	5.4	0.0
Rattus	fuscipes	6.4	6.6	3.0	6.9	7.2
Rattus	fuscipes	7.1			6.8	-4.4
Rattus	fuscipes	7.0			6.9	-1.4
Rattus	fuscipes	7.0	7.4	5.4	6.8	-2.9
Rattus	fuscipes	5.9	6.4	7.8	5.6	-5.4
Rattus	jobiensis	8.2	8.5	3.5	7.6	-7.9
Rattus	leucopus	6.8	7.3	6.8	6.6	-3.0
Rattus	leucopus	7.3	8.0	8.8	7.6	3.9
Rattus	leucopus	7.1	7.5	5.3	7.2	1.4
Rattus	leucopus	6.8	7.2	5.6	6.9	1.4
Rattus	leucopus	7.5			7.6	1.3
Rattus	leucopus	7.4			7.4	0.0
Rattus	leucopus	7.3	7.6	3.9	7.4	1.4
Rattus	leucopus	7.7	8.2	6.1	7.8	1.3
Rattus	leucopus	7.8	8.2	4.9	8.1	3.7
Rattus	leucopus	7.2	7.4	2.7	7.2	0.0
Rattus	leucopus	6.7	7.2	6.9	6.9	2.9
Rattus	lutreolus	8.3	9.1	8.8	8.1	-2.5
Rattus	lutreolus	7.6	8.1	6.2	7.5	-1.3
Rattus	lutreolus	7.7	8.3	7.2	7.8	1.3
Rattus	lutreolus	8.0	8.5	5.9	7.9	-1.3
Rattus	lutreolus	7.7			7.7	0.0
Rattus	mordax	7.2	8.4	14.3	7.4	2.7
Rattus	mordax	7.6			7.6	0.0

genus	species	UTR cr	alv	dif%	URsum	difsum%
Rattus	mordax	8.2			8.4	2.4
Rattus	mordax	7.4			8.8	15.9
Rattus	niobe	5.5			5.4	-1.9
Rattus	niobe	5.4	5.8	6.9	5.4	0.0
Rattus	niobe	5.6	6.0	6.7	5.6	0.0
Rattus	niobe	4.9			5.1	3.9
Rattus	niobe	5.6			5.3	-5.7
Rattus	niobe	5.6			5.4	-3.7
Rattus	nitidus	6.1	7.3	16.4	6.0	-1.7
Rattus	pococki	5.2			5.0	-4.0
Rattus	praetor	7.6			8.0	5.0
Rattus	praetor	7.3			7.7	5.2
Rattus	praetor	8.0	8.4	4.8	7.9	-1.3
Rattus	praetor	8.9	9.2	3.3	8.7	-2.3
Rattus	praetor	7.3	7.5	2.7	7.3	0.0
Rattus	praetor	6.9	7.2	4.2	6.9	0.0
Rattus	praetor	7.1	7.1	0.0	6.8	-4.4
Rattus	rattus	7.0	7.5	6.7	7.2	2.8
Rattus	rattus	6.8	7.6	10.5	7.2	5.6
Rattus	rattus	6.9	7.4	6.8	7.5	8.0
Rattus	richardsoni	6.3	6.8	7.4	5.5	-14.5
Rattus	sordidus	6.5	6.8	4.4	6.4	-1.6
Rattus	sordidus	8.0	8.4	4.8	8.1	1.2
Rattus	sordidus	8.1	8.8	8.0	8.1	0.0
Rattus	sordidus	6.8	7.3	6.8	6.7	-1.5
Rattus	sordidus	6.2			6.1	-1.6
Rattus	sordidus	7.0	7.8	10.3	7.0	0.0
Rattus	sordidus	7.0	7.5	6.7	7.0	0.0
Rattus	sordidus	6.9	7.7	10.4	6.6	-4.5
Rattus	sordidus	6.8	7.0	2.9	6.9	1.4
Rattus	sordidus	7.7	8.2	6.1	7.8	1.3
Rattus	steini	7.0	7.3	4.1	6.5	-7.7
Rattus	tunneyi	7.1			7.0	-1.4
Rattus	tunneyi	6.6	6.9	4.3	6.4	-3.1
Rattus	tunneyi	7.2	7.5	4.0	7.0	-2.9
Rattus	tunneyi	7.6	7.7	1.3	7.7	1.3
Rattus	tunneyi	7.1	7.9	10.1	7.4	4.1
Rattus	tunneyi	6.2	6.7	7.5	6.1	-1.6
Rattus	tunneyi	6.8			6.6	-3.0
Rattus	tunneyi	7.5	8.0	6.3	7.4	-1.4
Rattus	tunneyi	6.8			6.9	1.4
Rattus	tunneyi	7.0			6.7	-4.5
Rattus	tunneyi	7.0	7.4	5.4	6.8	-2.9
Rattus	tunneyi	6.8	7.4	8.1	6.9	1.4
Rattus	tunneyi	6.9	7.9	12.7	6.8	-1.5
Rattus	tunneyi	6.8	7.2	5.6	6.9	1.4
Rattus	vereundus	6.5	7.1	8.5	6.5	0.0
Rattus	vereundus	6.5	6.6	1.5	5.9	-10.2
Rattus	vereundus	6.2	6.6	6.1	6.4	3.1
Rattus	vereundus	6.4	6.8	5.9	6.6	3.0

genus	species	UTR cr	URsum		difsum%
			alv	dif%	
Rattus	verecundus	6.0		5.9	-1.7
Rattus	verecundus	6.2		5.9	-5.1
Rattus	villossissimus	7.9	8.5	7.1	7.6
Rattus	villossissimus	7.3	7.9	7.6	7.4
Rattus	villossissimus	7.6	8.4	9.5	7.5
Rattus	villossissimus	7.4	8.0	7.5	7.4
Solomys	ponceleti	13.5		13.6	0.7
Solomys	salomonis	10.0		10.6	5.7
Solomys	salebrosus	11.0		10.9	-0.9
Solomys	salebrosus	11.0		11.2	1.8
Solomys	sapientis	11.1		10.7	-3.7
Uromys	anak	14.2		13.1	-8.4
Uromys	anak	12.7		12.6	-0.8
Uromys	anak	13.0		13.2	1.5
Uromys	anak	12.6		12.3	-2.4
Uromys	caudimaculatus	12.2		12.0	-1.7
Uromys	caudimaculatus	12.5		12.7	1.6
Uromys	caudimaculatus	12.8		13.0	1.5
Uromys	caudimaculatus	12.1		12.3	1.6
Uromys	caudimaculatus	12.3		12.8	3.9
Uromys	caudimaculatus	11.4		11.2	-1.8
Uromys	caudimaculatus	11.9		11.9	0.0
Uromys	caudimaculatus	11.9		11.7	-1.7
Uromys	caudimaculatus	11.3		11.0	-2.7
Uromys	caudimaculatus	10.8		10.9	0.9
Uromys	caudimaculatus	12.0		11.6	-3.4
Uromys	caudimaculatus	11.0		11.2	1.8
Uromys	caudimaculatus	11.4		11.9	4.2
Uromys	caudimaculatus	11.5		11.7	1.7
Uromys	caudimaculatus	11.5		11.9	3.4
Uromys	imperator	12.0		11.9	-0.8
Uromys	neobritannicus	13.9		14.0	0.7
Uromys	porculus	6.7		6.7	0.0
Uromys	rex	11.1		10.9	-1.8
Uromys	rex	10.4		10.3	-1.0
Uromys	siebersi	11.5		11.4	-0.9
Xenuromys	barbatus	11.2		11.5	2.6
Xenuromys	barbatus	11.8		11.7	-0.9
Zyzomys	argurus	5.2		5.5	5.5
Zyzomys	argurus	5.3		5.4	1.9
Zyzomys	argurus	5.1		5.3	3.8
Zyzomys	argurus	5.2		5.4	3.7
Zyzomys	argurus	4.8		5.0	4.0
Zyzomys	argurus	5.6		6.0	6.7
Zyzomys	pedunculatus	6.0		6.1	1.6
Zyzomys	pedunculatus	6.5		6.6	1.5
Zyzomys	woodwardi	6.7		7.0	4.3