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Length–weight allometries in lizards

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Abstract

Body shape and body size are hugely important for the understanding of multiple ecological phenomena. In order to study and compare sizes across taxa and to understand the ecological significance of shape differences, there is a need for ways to 'translate' different size measurements to a common metric. Body mass is the most useful such common index for size across taxa. Based on a large (>900 species in 28 families) dataset of lizard and amphisbaenian weights, I generate equations to estimate weights from the common size index used in lizard morphometrics (snout–vent length). I then use a species-level phylogenetic hypothesis to examine the ecological factors that affect the variation in weight–length relationships. Legless and leg-reduced lizards are characterized by shallower allometric slopes, and thus long-bodied legless species are lighter than legged lizards of comparable length. Among legged species, the foraging strategy strongly influences the weights, with sit-and-wait species being bulkier at comparable lengths than active foraging species. Environmental productivity (positively related to mass) and activity times (diurnal species being heavier) are only significant when using non-phylogenetic models. The need for effective locomotion is a major factor affecting lizard shape. Previously used allometric equations are inaccurate.

Introduction

Body size is one of the most important aspects governing animal morphology, physiology, functional ecology and life history (Haldane, 1928; Gould, 1974; Calder, 1984; Schmidt-Nielsen, 1984). Size strongly influences animal ecology, evolution and extinction (Stanley, 1973; Peters, 1983; Bennett & Owens, 1997; Cardillo *et al.*, 2005).

Recent compilations of size data for the majority of species in some of the major vertebrate taxa (Smith *et al.*, 2003; Olden, Hogan & Zanden, 2007; Meiri, 2008; Olson *et al.*, 2009) enable us to analyse and compare macroecological and macroevolutionary processes within those taxa. Comparisons between major taxa, however, are often less feasible, because the most common size measurements differ between groups. In fishes, caecilians, urodeles and snakes, for example, the total body length usually predominates, and for frogs and lizards, it is snout–vent length (SVL, or sometimes SUL for snout–urostyle length in frogs) (Boback, 2003; Olalla-Tarraga, Rodrıguez & Hawkins, 2006; Olden *et al.*, 2007; Meiri, 2008). In birds, wings, tarsi and weights are commonly used, and wing length is also a common size measure in bats. In terrestrial mammals, common size indices are skull lengths, tooth lengths, head and body lengths (equivalent to SVL) and weights (Van Balen, 1967; Meiri & Dayan, 2003; Meiri, Dayan & Simberloff, 2005*a*; Dunning, 2008). Additionally, differences in body shape are likely to make comparisons between taxa, even using the same size indices, invalid (e.g. the same total length in a fish, a snake and a mammal is likely to be associated with very different weights).

Thus, even when the same questions, in closely related clades (or even when one group is paraphyletic in relation to another), are asked, one has to run separate analyses for different taxa simply because common size measures are unavailable (e.g. Olalla-Tarraga *et al.*, 2006 for lizards and snakes).

An obvious solution is to use common, transferable size indices that can be compared across taxa differing in shape. Despite fluctuating with the reproductive condition, time to and size of the last meal and across seasons, body mass is probably the only index that fits these criteria, and has the added advantage of being directly relevant to many physiological processes (Hedges, 1985). Given that mass is rarely measured in some taxa a reliable method to estimate mass from commonly reported indices is needed. In reptiles and amphibians, the most commonly used length–weight allometries are those published by Pough (1980) 30 years ago. In an appendix to his superb paper, Pough used data for 47 species of lizards to derive length/mass equations (he was unable to find data on body masses of amphisbaenians). Pough (1980) never published his raw data, and therefore the exact nature of his dataset (e.g. the taxa used) is impossible to estimate (Connor & Simberloff, 1979). Likewise, the equations he published lack error and fit measures; thus, the validity of the decision to calculate, for example, masses of 'serpentiform lizards' from equations derived for snake total lengths cannot be readily estimated. Lastly, Pough's equations are based on multiple individuals within multiple species and thus combine intra- and interspecific variation, and span only four orders of magnitude in body mass.

Using an updated version of a recently compiled database of lizard and amphisbaenian body sizes (Meiri, 2008), I was able to obtain mass data for >900 species (including both the smallest and the largest lizards, with masses spanning six orders of magnitude), and SVLs for >5480 species. Here, I use these data to estimate mass/SVL allometries. Phylogenetic affinities are strongly associated with body shape and hence with mass–length relationship in lizards (Hedges, 1985; Vitt & Pianka, 2004). I therefore provide clade- and family-specific allometries where enough data exist. I further use a composite species-level phylogenetic hypothesis to control for clade membership when testing the effects of ecological variables. Although snakes are usually thought to be a subclade of lizards (but see Zhou *et al*., 2006; Zaldivar-Riveron *et al*., 2008), I refrain from using snakes here for two reasons: first, snakes are highly derived squamates and differ from lizards in their hunting techniques and prey choice, as well as being, on average, much longer animals. Second, because the total length rather than SVL is the most commonly reported measure of snake size, it may be more useful to derive total length vs. mass allometries for snakes.

Lengths typically explain a very high percentage of the variation in the mass of taxa that span a large range of body sizes. Shape differences, however, may mean that species of similar SVLs may still vary considerably in mass, variations that can amount to over an order of magnitude (Hedges, 1985 and see below). Hedges (1985) pointed out that this shape variation is likely to have phylogenetic, life history and ecological components, and claimed that knowledge of the effects of these variables is less well understood in reptiles than they are in other groups. However, despite some effort to quantify shape variation (e.g. Greer & Wadsworth, 2003; Vitt & Pianka, 2004), there has been little attempt to assess the influence of ecology, biogeography, life history and morphology on reptile length/weight relationships.

My aim here is twofold: first, I provide allometric equations that will enable estimation of body weights of lizard and amphisbaenian taxa from their SVL. I then try to estimate the influence of some life history and ecological drivers of shape. I hypothesize that variation in mass beyond that accounted for by differences in length will be associated with several aspects of species' natural history, mainly those associated with movement and feeding strategies. Controlling for phylogenetic affinities, I test the following hypotheses regarding differences between species that differ in their morphology and ecology:

1. Legless and burrowing species are lighter than legged lizards of similar SVL because elongation (narrow body diameter relative to length) helps to facilitate efficient serpentine movement in legless animals (Gans, 1975; Lande, 1978; Shine, 1992).
2. Climbing and rock-dwelling lizards are lighter than terrestrial forms of the same SVL, because this allows these forms to better escape predation (Gans, 1975) and body flattening of saxicolous species may result in lower length-specific weights (see Goodman *et al*., 2009).
3. Semi-aquatic species will be heavier – to better retain heat.
4. Herbivorous species, which need to accommodate micro-organisms in their alimentary canal (Wiewandt, 1982), and viviparous lizards that need to carry near-term embryos and provide them with a stable environment for long periods of time (Greer, 2001), will be heavier than similar-length carnivorous and oviparous species, respectively.
5. Sit and wait predators will be heavier than widely foraging species, because the latter need to reduce mass in order to enhance speed (Vitt & Congdon, 1978) and minimize locomotion costs.
6. Insular taxa, especially those residing on islands lacking mammalian carnivores, will be heavier for a given SVL, because they face reduced predation risk, allowing them to grow more bulky.
7. Environmental temperatures will not be correlated with length/mass allometries, because any advantage of a low surface to volume ratio in terms of heat gain will be negated by more rapid heat loss (see the discussion in Pincheira-Donoso, Hodgson & Tregenza, 2008). However, species living in more productive environments will have higher masses for their lengths.

Methods

Data

I gathered literature and museum data on mass (in grams) and lengths (in mm) of adult individuals, as well as data regarding species' ecology, morphology and life history (see Meiri, 2008 for details and references). I supplemented these data by measuring live lizards at the Meier Segal's Garden for Zoological Research, Tel-Aviv University. Taxonomy follows the July 2009 version of the Uetz, Goll & Hallermann (2009) reptile database (Peter Uetz, pers. comm.).

Mass and length data are only occasionally reported together in the same publication, and sample size data are, likewise, far from ubiquitous. I therefore use length and mass data even if they were published separately. Reptile size data are more often presented as maxima than as means (Meiri, 2008) and maxima are sensitive to sample size (Stamps & Andrews, 1992; Meiri, 2007). Thus, as lengths are more often reported than masses, it is reasonable to expect that mass maxima are based on fewer individuals and therefore, more often than lengths, masses might not reflect actual species maxima. Mass–length allometries based on maxima may therefore be biased towards low intercepts. Furthermore, maximum masses may be highly sensitive to outliers – for example in individuals that were weighed shortly after a large meal or in heavily gravid females. Mean masses, on the other hand, can be biased by the inclusion of specimens with regenerated tails if regenerated tails are smaller or if individuals with such tails are in worse body condition. Mean SVLs, however, are less likely to be influenced by tail loss, and so a bias towards low intercepts may not be confined to measures of maximum size. Preliminary analysis revealed that, in species for which I had data for both maxima and means of length and masses, the allometry based on the mean SVL and mean mass ($n = 600$,

$-4.52 \pm 0.083_{SE} + 2.923 \pm 0.043_{SE} \times \log SVL$, $r^2 = 0.888$) did not differ from the one based on maxima ($-4.70 \pm 0.042_{SE} + 2.921 \pm 0.085_{SE} \times \log SVL$, $r^2 = 0.883$; intercept difference: $t = 1.46$, $P = 0.14$; slope difference: $t = 0.03$, $P = 0.97$). Thus, whether means or maxima are used does not seem to change the allometric relationship. I therefore use mean weights and lengths (which I regard as more reliable data) whenever available, and maxima only for species where data on means are lacking (Appendix S1). When data for both males and females are available, I use data only for the heavier sex within each species (sex is not a significant predictor of the SVL–weight relationship, $F = 0.31$, $P = 0.82$). Data for 196 species are thus based on female measurements, 256 on male measurements and 467 on measurements of unsexed individuals (Appendix S1).

I tested for the effects of regenerated tails using a database of individual measurements of 1112 specimens from eight lacertid lizard species kindly provided by Miguel Angel Carretero (pers. comm., 2009) by comparing masses of individuals with original and regenerated tails. Regenerated tails affected neither the slope nor the intercept of the mass/SVL relationship (intercept: $t = 1.06$, $P = 0.29$; slope: $-0.061 \pm 0.45_{SE}$, $t = 1.36$, $P = 0.17$). Thus, tail regeneration seems to be of little importance.

Because multiple means are often reported for a species in different studies, and because sizes often differ between the sexes, I use the midpoint of the range of means as my index of mean SVL and mass. Maxima always represent the single largest measure of mass and SVL for a species. Reduced major axis (or standard major axis) regression is sometimes advanced as the correct method to use when the predictor variable is measured with error (but see Warton *et al.*, 2006), which is certainly the case here. However, I opt to use least squares regression here (but also compute RMA regression for all species, Table 1) because it allows using multiple predictors and can be directly compared with previously published slopes and intercepts. Furthermore, the differences between reduced major axis and least squares regressions are small when the fit between predictors and response variables is high, as it is here, and least squares regression is more appropriate for prediction (Gould, 1975; Warton *et al.*, 2006; Price & Phillimore, 2007).

Factors influencing SVL/mass relationships

I classify species as legless (no functioning legs), reduced-limbed species (with two or four legs and reduced numbers of fingers) or fully limbed. Limb reduction is a continuous variable, and some measure of leg and tail length would have been preferable (Shine, 1992; Vitt & Pianka, 2004), but limb length data are even scarcer than mass data, and tails are often regenerated or lost. I assign diets (carnivorous, omnivorous and herbivorous), use of space (scansorial: saxicolous and/or arboreal, terrestrial, semi aquatic, fossorial – or variable), reproductive mode (oviparous or viviparous) and insularity (mainland living, endemic to islands with terrestrial carnivores and endemic to islands without terrestrial carnivores) following the procedure in Meiri (2008).

Temperatures (from Hijmans *et al.*, 2005) are mean annual temperatures at 150 arc-seconds resolution. We used digitized published species range maps (see http://www3.imperial.ac.uk/cpb/workshops/globalassessmentofreptiledistributions) to obtain the median temperature across the range of each species for which we had distribution data. To account for differences in temperatures encountered by nocturnal and diurnal species even in similar geographic locations, I examined an interaction term between temperature and activity time. Species were classified as diurnal, nocturnal or cathemeral (can be active in all parts of the day). I use actual evapotranspiration (AET) as a measure of environmental productivity (Rosenzweig, 1968). Data for AET are median values per species and were obtained from the EDIT–CSIC website (http://edit.csic.es/Climate.html).

Because leg development considerably affects the mass–length relationship (Shine, 1992 and see results), and the number of legless and leg-reduced species is small, I only use

Table 1 Slopes and confidence intervals for lizard SVL–mass allometries

Species	Method	*n*	Slope	95% confidence interval	Intercept	95% confidence interval	R^2
All	OLS	919	2.913	2.847, 2.980	−4.518	−4.646, −4.389	0.890
All	RMA	919	3.088	3.022, 3.155	−4.852	−4.981, −4.724	0.946
All	PGLM	919	2.889	2.802, 2.975	−4.506	−4.783, −4.228	0.826
Legged	OLS	866	3.088	3.045, 3.132	−4.804	−4.888, −4.720	0.957
Legged	RMA	866	3.153	3.110, 3.198	−4.929	−5.014, −4.845	0.979
Legged	PGLM	866	3.053	2.989, 3.117	−4.727	−4.881, −4.574	0.911
Leg-reduced	OLS	29	2.472	1.990, 2.954	−4.207	−5.138, −3.276	0.804
Leg-reduced	RMA	29	2.757	2.317, 3.281	−4.753	−5.684, −3.822	0.880
Leg-reduced	PGLM	29	2.542	2.002, 3.081	−4.357	−5.519, −3.194	0.775
Legless	OLS	24	2.300	1.725, 2.874	−4.207	−5.524, −2.889	0.758
Legless	RMA	24	2.641	2.128, 3.277	−4.987	−6.305, −3.668	0.841
Legless	PGLM[a]	24	2.232	1.821, 3.043	−4.499	−5.889, −3.108	0.755

[a]The value of lambda is not significantly different from zero (no phylogenetic signal). Otherwise, lambda is significantly different from both zero and one. OLS, ordinary least squares regression; RMA, reduced major axis regression; PGLM, phylogenetic general linear model, with lambda set to its maximum likelihood value, SVL, snout–vent length.

species with well-developed limbs to test the effects of natural history and life-history variables. Furthermore, because herbivorous lizards cannot be classified as either 'sit or wait' or as active foragers, and because foraging mode is the term for which I have the least data (399 species), I excluded foraging mode from all multivariate models and then added it to the minimum adequate model obtained. All analyses were conducted in R 2.7.0. (R Development Core Team, 2008). Masses and SVLs were log 10 transformed in all analyses.

Phylogeny

I assembled a composite phylogeny from published phylogenetic hypotheses (Appendix S2), according to the high-level relationships in Townsend *et al.* (2004). Lacking branch lengths for most of the tree, I scaled branches to make the tree ultrametric using the cladogram transform in FigTree (Rambaut, 2009). I used phylogenetically corrected general linear models (Freckleton, Harvey & Pagel, 2002) implemented in the R package CAIC (Orme, online, http://r-forge.r-project.org/projects/caic/) to account for phylogenetic non-independence. I adjusted the strength of phylogenetic non-independence using the maximum likelihood value of the scaling parameter λ.

Results

The resulting dataset is presented in Appendix S1. It includes 919 species in 28 of 32 lizard and amphisbaenian families (I have no mass data for members of the Caedidae and Dibamidae or for *Lanthanotus* or *Rhineura*). The mass–SVL allometries are shown in Table 1. Least square slopes differ significantly with the degree of limb development (Fig. 1), with shallower slopes associated with greater degrees of leg reduction (both differences between slopes of legged vs. legless and leg reduced, $t>4$, $P<0.0001$). The intercept for legged species is higher than that for leg-reduced species ($t = 1.99$, $P = 0.047$). Other contrasts between intercepts are not significant ($P>0.1$ for both). The 95% confidence interval of the OLS slope for either legless, leg-reduced or fully legged lizards incorporates neither isometry (slope of 3, expected by geometric similarity) nor the 2.98 and 3.02 slopes published by Pough (1980) for lizards and snakes, respectively (Table 1). Only the phylogenetic slope for legged lizards incorporates isometry, but is still significantly steeper than the 2.98 slope of Pough (1980). Reduced major axis and phylogenetic GLM slopes include both 2.98 and 3.02, and, in general, show very wide confidence intervals (Table 1).

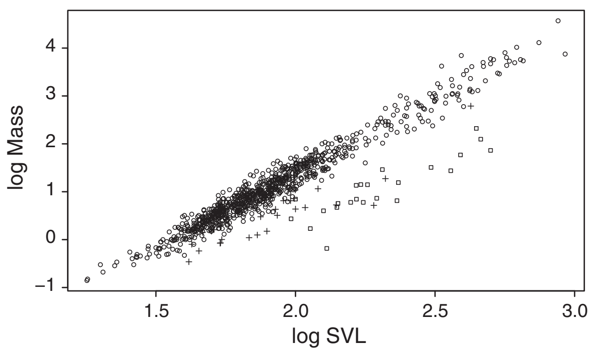

Figure 1 Lizard mass–length relationships mass is in (log 10) grams and length is log 10 SVL (in mm). ∘, legged species; +, limb-reduced species; □, legless species.

Slopes and intercepts differ significantly between lizard clades. The number of phylogenetic relationships suggested for major lizard clades is close to the number of studies on the subject (compare, for example, Townsend *et al.*, 2004; Zhou *et al.*, 2006; Conrad, 2008; Organ, Moreno & Edwards, 2008; Zaldivar-Riveron *et al.*, 2008; Albert *et al.*, 2009; Vidal & Hedges, 2009). However, most authors agree on the monophyly of Acrodontia (chameleons and Agamidae *sensu lato*), Anguimorpha (Anguidae, Varanidae and allies), Gekkota (geckos, pygopodids and allies), Iguania (iguanas, anoles and allies), Scincomorpha (skinks, night-lizards and related forms, here excluding the Laterata) and Laterata (Lacertidae, Teiidae, Gymnophthalmidae and Amphisbaenia). For legged lizards there are significant differences between these clades in both the intercepts ($F_{5,854} = 17.99$, $P<0.0001$) and the slopes ($F_{5,854} = 5.19$, $P = 0.0001$) of their mass/SVL relationship (Table 2). Interestingly, however, there is a negative correlation between slopes and intercepts in these six clades ($r = -0.965$, $P = 0.002$), with low intercepts associated with steep slopes. Thus despite the statistical differences there is a considerable overlap in mass for a given SVL between members of different clades. Families also differ in both slopes and intercepts (intercepts: $F_{21,822} = 10.23$, $P<0.0001$; slope: family interaction: $F_{21,822} = 1.88$, $P = 0.01$; Table 3).

Factors influencing SVL/mass relationships

Non-phylogenetic analysis

For legged species, the best model (determined by AIC) included SVL (slope $3.062 \pm 0.041_{SE}$), activity time, AET, microhabitat and microhabitat:SVL interaction. The model explained 95.9% of the variance in mass (AIC $= -384.81$). Diet was marginally non-significant when added to this model (herbivorous lizards heavier than carnivorous ones,

Table 2 SVL-mass allometries for lizard clades

Clade	*n*	Intercept	SE	Slope	SE
Acrodontia	114	−4.532	0.192	2.951	0.097
Anguimorpha	54	−5.058	0.210	3.145	0.085
Gekkota	148	−4.495	0.116	2.900	0.066
Iguania	211	−5.033	0.089	3.243	0.046
Laterata	160	−4.961	0.108	3.189	0.058
Scincimorpha	179	−5.148	0.097	3.244	0.051

Least-squares log mass/log SVL allometries in different lizard clades. Only legged lizards were used to calculate values. SVL, snout–vent length.

SE, standard error.

Table 3 SVL-mass allometries for lizard families and squamate suborders

Family	*n*	Minimum SVL (mm)	Maximum SVL (mm)	Minimum mass (g)	Maximum mass (g)	Intercept	SE	Slope	SE	R^2
Agamidae	91	35.9	400	1	900	−4.774	0.246	3.073	0.124	0.873
Amphisbaenidae	7	129.5	500	0.7	210	−8.647	1.101	4.007	0.436	0.944
Anguidae	9	93	424.8	10	616	−1.935	1.517	1.575	0.676	0.475
Anniellidae	1	140.7	140.7	4.7	4.7	NA	NA	NA	NA	NA
Bipedidae	2	140	190.8	5.2	5.3	NA	NA	NA	NA	NA
Blanidae	2	157.7	174.9	6	6	NA	NA	NA	NA	NA
Chamaeleonidae	23	22.9	299	0.3	344.5	−3.997	0.208	2.680	0.104	0.970
Cordylidae	12	69	140	5.8	131.1	−4.101	2.037	2.698	1.021	0.411
Cordylidae*	10	69	140	6.1	131.1	−5.747	0.994	3.589	0.502	0.865
Corytophanidae	4	111.7	215	43.4	250	NA	NA	NA	NA	NA
Crotaphytidae	4	100.4	109.5	37.1	47	NA	NA	NA	NA	NA
Gekkonidae	148	17.9	160	0.1	118	−4.495	0.116	2.900	0.066	0.931
Gerrhosauridae	8	55.5	246	3.8	386.4	−4.783	0.351	3.085	0.165	0.983
Gymnophthalmidae	35	27.8	84.5	0.5	17.2	−3.934	0.557	2.504	0.332	0.633
Gymnophthalmidae*	30	27.8	84.5	0.5	17.2	−5.178	0.257	3.302	0.155	0.942
Helodermatidae	2	287.4	363.9	551	1088.3	NA	NA	NA	NA	NA
Hoplocercidae	3	114	140	24	60	NA	NA	NA	NA	NA
Iguanidae	24	115.1	620	59	10 380	−4.298	0.544	2.972	0.217	0.895
Lacertidae	87	39.4	210	1.8	295.1	−4.543	0.216	2.951	0.118	0.881
Opluridae	7	78.7	144.5	9.5	117.7	−6.439	0.532	3.940	0.263	0.978
Phrynosomatidae	40	40	148	3.0	100	−3.855	0.336	2.677	0.181	0.852
Polychrotidae	97	33.5	156.3	0.6	80.8	−4.583	0.151	2.940	0.084	0.928
Pygopodidae	5	83.1	233.6	3.8	15.5	−2.039	1.044	1.371	0.490	0.723
Scincidae	177	29.4	317	0.3	1013.7	−4.821	0.177	3.029	0.094	0.856
Scincidae[a]	154	29.4	317	0.4	1013.7	−5.125	0.105	3.229	0.056	0.957
Teiidae	43	45.8	500	1.7	4700	−4.747	0.202	3.110	0.100	0.960
Trogonophiidae	2	172	165.4	5.7	7	NA	NA	NA	NA	NA
Tropiduridae	32	47	130	2.5	79.4	−4.216	0.418	2.846	0.220	0.848
Varanidae	45	98	925	14	37 140	−5.301	0.255	3.235	0.101	0.960
Xantusiidae	7	41	112	1.5	25	−4.796	0.640	3.048	0.344	0.940
Xenosauridae	3	104.5	160.5	19.6	150	NA	NA	NA	NA	NA
Amphisbaenia	13	129.5	500	0.7	210	−5.858	0.867	2.943	0.364	0.856
Sauria	906	17.9	925	0.1	37 140	−4.717	0.056	3.027	0.029	0.924

Log Mass/log SVL allometries in different lizard families. Allometries are shown only for families with five or more species. Anguidae includes both legged (n=4), leg-reduced (2) and legless (3) species. Other families with multi-state leg development are shown both with all species and with fully legged species only (marked with an asterisk).

NA, not applicable; SVL, snout–vent length.

intercepts: −4.67 vs. −4.74, $P = 0.058$), but the resulting model has a much higher AIC score (−354.65). The second-best model (AIC = −381.63, $R^2 = 0.957$) included only SVL (slope $3.062 \pm 0.041_{\text{SE}}$), activity time and AET. Intercepts for microhabitat use seem to be in line with some of the predictions, with fossorial species significantly lighter for a given SVL than terrestrial species (intercept −5.17 vs. −4.67, respectively, $t = 2.51$, $P = 0.12$) and semi-aquatic species heavier (intercept −4.19, $t = 2.24$, $P = 0.025$). However, the allometric slope is shallower in semi aquatic species (slope = 2.81, $t = 2.24$, $P = 0.026$) and steeper in fossorial ones (slope = 3.46, $t = 2.29$, $P = 0.023$), compared with terrestrial species (slope = 3.06). Thus, at the mean SVL of a legged, fossorial species in my database (106 mm), a fossorial species will weigh 24 vs. 27 g, for a terrestrial species. Similarly, at the mean SVL of a semi-aquatic species in my database (285 mm), a semi-aquatic species will weigh 507 vs. 567 g for a terrestrial species. I do not regard these differences as biologically meaningful. Scansorial and 'variable' species were no different from the terrestrial one in either slope or intercept. Diurnal species were heavier, for a given SVL, than nocturnal ($t = 3.88$, $P = 0.0001$) and cathemeral ($t = 2.14$, $P = 0.033$) species (intercepts −4.76, −4.85 and 4.84, respectively, a difference of about 20%). Mass increased with increasing AET (slope = 0.00007 ± 0.00002, $t = 4.39$, $P < 0.0001$).

When foraging mode was added to this model, sit and wait species and species with a mixed foraging strategy were found to be heavier than widely foraging ones ($n = 174$, 33 and 182, intercepts = −4.80, −4.77 vs. −4.90, respectively, $t = 5.03$ and 4.77, $P < 0.0001$ and $P = 0.0004$, respectively).

Phylogenetic analysis

The maximum likelihood value of lambda, 0.517 (for the best model), was significantly different from both zero and one ($P<0.0001$ in both cases). The best phylogenetic model included only SVL ($\log \text{mass} = -4.72 \pm 0.08_{SE} + 3.05 \pm 0.03_{SE} \times \log \text{SVL}$) and microhabitat, with fossorial species being lighter than terrestrial ones (intercept −4.81, $t = 2.53$, $P = 0.012$) and scansorial species marginally so (intercept −4.75, $t = 2.53$, $P = 0.063$). There were no interactions, and no other factors were significant. This model explained 91.2% of the variation in mass.

Adding foraging strategy to the model, I find that the intercept for sit and wait species (−4.79) and mixed strategists (−4.76) is higher than that of active foraging ones (intercept −4.85, $t = 2.15$ and 2.79, $P = 0.032$ and 0.006 for differences between active foragers and sit and wait and mixed strategists, respectively). There was no significant foraging mode:SVL interaction. There were no significant differences between active foragers and species with a mixed foraging strategy ($P = 0.23$).

Discussion

Except for SVL, it seems that the degree of limb reduction is key to correctly predicting lizard body mass. This is both because limbs, girdles and corresponding muscles are not weightless and because of a tendency of limbs to become relatively shorter in longer lizards (Greer & Wadsworth, 2003). This indicates that greater elongation occurs in large limb-reduced and limbless species, resulting in slopes that are significantly shallower than expected isometrically. That short limbless and limb-reduced species are more similar in weight to fully legged species of comparable SVL than larger species suggests that the common assumption that body elongation is required for efficient serpentiform movement may be incorrect. Admittedly, however, the very crude measures of shape I use here are far from sufficient to fully address this issue. Furthermore, in fossorial lizards, the tail can often have a diameter similar to the body, and aid in serpentiform movement. Thus, small, leg-reduced and legless lizards may have an effectively longer body for locomotion than their SVL would suggest – because the tail is used for serpentiform movement. Lastly, there are no very small legless lizards (the shortest leg-reduced lizard in my sample (the skink *Lerista elegans*) is 41.5 mm long (mean SVL) and the shortest legless species (the pygopodid *Delma butleri*) is 83.1 mm long (mean SVL), while the shortest legged species (the gecko *Sphaerodactylus ariasae*) has a maximum SVL of only 17.9 mm. This may be a sampling issue (few lizards are shorter than 40 mm, and few species are legless or leg reduced), but may also reflect a constraint on the minimum sizes attainable by leg-reduced forms. More research may be needed to better address this issue.

Perhaps unsurprisingly, I found that the weights obtained using equations derived for total lengths of 13 species of colubrid and viperid snakes (Pough, 1980) fail to predict the weights of limb-reduced and limbless lizards (although, admittedly, the differences in slope, although statistically significant, are small). Pough's 30-year-old equations are, as far as I know, the latest and certainly the most commonly used to calculate lizard body masses. However, they are often used for all lizards, regardless of limb development (e.g. Buckley & Jetz, 2007). Otherwise, Pough's equations for snakes are used for 'serpentiform' lizards (e.g. Olalla-Tarraga *et al*., 2006), and sometimes authors do not even report which equations were used (e.g. White, Phillips & Seymour, 2006; Jenkins *et al*., 2007). I suggest that the slopes 3.09, 2.47 and 2.30 are used for legged, leg-reduced and legless species, respectively, or that clade-specific allometries (e.g. those inTables 2 and 3) are used. While the difference in intercept between legged and legless species was not significant, it was rather large, suggesting that larger samples may result in differences being statistically significant. A further refinement of these equations, preferably incorporating data on leg and tail lengths, and body diameters, will likely lead to considerable improvement to the predictive value of length/weight allometries.

Body size is of paramount importance to physiology, morphology, ecology, evolution and conservation; it is, nonetheless, an elusive entity. Once defined, size is easy to measure accurately and precisely, but all size indices, including mass, are flawed in one way or another (see, e.g. Rising & Somers, 1989; Beuttell & Losos, 1999; Meiri, Dayan & Simberloff, 2006; Dunning, 2008). Mass remains, however, the size index of choice in physiology (e.g. Calder, 1984; Hedges, 1985), and in macroecology, it can serve as the only shape-free index to allow comparisons of highly divergent taxa.

Even across the six orders of magnitude separating the lightest (0.1 g) and the heaviest (>100 kg) lizard species, a substantial amount of variation was left unexplained by length. For example, at 6.5 g and 231 mm (Andrade, Nascimento & Abe, 2006), the amphisbaenian *Amphisbaena roberti* is 35 times (!) lighter than expected by the equation for all lizards (233 g). Even when treating the legged lizard separately, *Conolophus pallidus* (4.2 kg., Christian & Tracy, 1985) is over four times heavier than predicted for its SVL. This suggests that much variation still remains even after length and limbs are accounted for. The endemic Galapagos land iguana *C. pallidus* is large and herbivorous and a herbivorous diet is associated with high weights for a given SVL.

I suggest that, beyond size and limb development, the variation in lizard mass–SVL relationship can be explained by a combination of phylogeny, biogeography and ecology. The ecological factors I identify as important have to do with feeding (diet, productivity) and movement: lizards that need to escape predators or that widely forage for prey benefit from low weights for their length. Species that do not have to cover long distances in search of food can grow stockier. However, apart from burrowing species, microhabitat use seems not to influence shape, and neither does reproductive mode, or insularity, refuting my *a priori* hypotheses. Furthermore, the relationship between shape, productivity (AET) and activity times disappeared in the phylogenetic analysis. Activity time is certainly phylogenetically conserved in lizards (e.g. most geckos are nocturnal, but some genera such as *Phelsuma* 'day geckos' are diurnal;

in most other families, diurnality predominates). Radiations in restricted geographic areas may also make AET conserved. Whether this reflects a true lack of effect, or whether the phylogenetic correction is hiding real ecological differences (Westoby, Leishman & Lord, 1995) is difficult to estimate, especially given the poor resolution of the phylogenetic hypothesis (Appendix S2). It does suggest, however, that even if the effects of these variables are real, they are probably weak.

Mean environmental temperature does not affect weight/length relationships. This relationship may be viewed as a direct proxy for the surface to volume ratio, which is supposed to be a strong mechanism affecting the body sizes of homeotherms and sometimes also of poikilotherms (i.e. Bergmann's and Allen's rules). For a given SVL heavier species may be thought to have a lower surface to volume ratio, and will thus take longer to gain its minimum activity temperature. Mean annual temperature is a very crude measure of the temperatures actually faced by lizards, especially for species that may not be active the year round, differ in their ability to thermoregulate behaviourally, and have variable activity times. Furthermore, similar means can characterize different climatic regimes (i.e. different thermal amplitudes). However, it may be reasonable to assume that any thermoregulatory gains for increased heating in species that are light for their length carry an adaptive cost in increased cooling rates, and hence changing surface to volume ratios may not be adaptive for poikilotherms (see discussion in Pincheira-Donoso *et al*., 2008).

A few caveats should be considered in this respect: first, a lizard that is heavy for its SVL may either be bulkier (which will support conclusions regarding Bergmann's rule) or may simply have long, and thus heavy, limbs and tails. These will increase both the weight and the surface to volume ratio; thus, the link of SVL/mass residual to heat exchange surface is indirect. Further, the considerable intraspecific variation in size and shape within the range of different species (Ashton & Feldman, 2003; Meiri, Dayan & Simberloff, 2005*b*; Meiri, Yom-Tov & Geffen, 2007) may make interspecific comparisons inaccurate, and the methods used in such interspecific comparisons likely affect the results (Meiri & Thomas, 2007). Be that as it may, I view heating and cooling in poikilotherms as two aspects of the same problem, and a lizard that quickly heats will also cool more quickly than a lizard that takes longer to heat.

Lizard body weights are rarely recorded in the field. Often, one can read in the methods sections of herpetological papers that lizards were weighed, but then either weights are not reported or only weights of eggs and hatchlings are. There are some good reasons why mass data may be less reliable in lizards than in other taxa: adults grow throughout their lives, tails are often shed, meal size may represent a very large proportion of body mass and meal frequency is highly heterogeneous (e.g. Huey, Pianka & Vitt, 2001). Coupled with the tendency of mass to fluctuate with reproductive status and seasonally, species-specific mass estimates are likely to be associated with a large degree of uncertainty. With the growing use of large-scale datasets to test macroecological and ecophysiological hypotheses across taxa, however, mass data are invaluable. Perhaps, it is therefore time to routinely measure and publish masses when reporting on reptile morphology.

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Supporting information

Additional supporting information may be found in the online version of this article:

Appendix S1. Species weight and SVL data.
Appendix S2. The composite phylogenetic hypothesis used in this study.

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Species	suborder	infraorder	Family	SVL (mm)	Weight (g)	limbs	Sex	mass measure
Acanthocercus atricollis	Sauria	Acrodontia	Agamidae	145.00	121.5	legged	unsexed	heaviest
Acanthocercus cyanogaster	Sauria	Acrodontia	Agamidae	107.00	39.0	legged	unsexed	heaviest
Acanthocercus phillipsii	Sauria	Acrodontia	Agamidae	67.00	8.6	legged	unsexed	heaviest
Agama agama	Sauria	Acrodontia	Agamidae	135.00	100.0	legged	male	heaviest
Agama caudospinosa	Sauria	Acrodontia	Agamidae	130.27	82.1	legged	male	mean
Agama hispida	Sauria	Acrodontia	Agamidae	66.60	14.1	legged	unsexed	mean
Agama impalearis	Sauria	Acrodontia	Agamidae	131.00	100.0	legged	male	heaviest
Agama mwanzae	Sauria	Acrodontia	Agamidae	160.00	110.0	legged	unsexed	heaviest
Agama planiceps	Sauria	Acrodontia	Agamidae	114.00	49.3	legged	unsexed	heaviest
Agama rueppelli	Sauria	Acrodontia	Agamidae	72.50	26.8	legged	female	mean
Calotes andamanensis	Sauria	Acrodontia	Agamidae	84.10	12.5	legged	male	heaviest
Calotes aurantolabium	Sauria	Acrodontia	Agamidae	67.88	6.3	legged	female	heaviest
Calotes calotes	Sauria	Acrodontia	Agamidae	101.00	38.2	legged	unsexed	heaviest
Calotes versicolor	Sauria	Acrodontia	Agamidae	100.25	23.8	legged	male	mean
Chlamydosaurus kingii	Sauria	Acrodontia	Agamidae	227.23	635.0	legged	unsexed	mean
Ctenophorus adelaidensis	Sauria	Acrodontia	Agamidae	46.50	2.0	legged	unsexed	mean
Ctenophorus caudicinctus	Sauria	Acrodontia	Agamidae	101.00	13.0	legged	unsexed	heaviest
Ctenophorus clayi	Sauria	Acrodontia	Agamidae	49.80	2.7	legged	unsexed	mean
Ctenophorus fionni	Sauria	Acrodontia	Agamidae	96.00	11.6	legged	unsexed	mean
Ctenophorus fordi	Sauria	Acrodontia	Agamidae	53.15	4.1	legged	unsexed	mean
Ctenophorus isolepis	Sauria	Acrodontia	Agamidae	64.99	5.5	legged	unsexed	mean
Ctenophorus maculatus	Sauria	Acrodontia	Agamidae	67.00	8.7	legged	unsexed	heaviest
Ctenophorus maculosus	Sauria	Acrodontia	Agamidae	64.60	8.8	legged	male	mean
Ctenophorus nuchalis	Sauria	Acrodontia	Agamidae	95.25	27.0	legged	unsexed	mean
Ctenophorus ornatus	Sauria	Acrodontia	Agamidae	93.00	20.0	legged	unsexed	heaviest
Ctenophorus pictus	Sauria	Acrodontia	Agamidae	62.50	8.0	legged	unsexed	mean
Ctenophorus reticulatus	Sauria	Acrodontia	Agamidae	88.53	15.1	legged	unsexed	mean
Ctenophorus scutulatus	Sauria	Acrodontia	Agamidae	94.87	18.3	legged	unsexed	mean
Diporiphora winneckei	Sauria	Acrodontia	Agamidae	56.90	2.5	legged	unsexed	mean
Draco biaro	Sauria	Acrodontia	Agamidae	73.25	4.2	legged	male	mean
Draco bimaculatus	Sauria	Acrodontia	Agamidae	66.40	3.9	legged	female	mean
Draco blanfordii	Sauria	Acrodontia	Agamidae	105.00	15.0	legged	unsexed	mean
Draco caerulhians	Sauria	Acrodontia	Agamidae	74.59	6.4	legged	female	mean
Draco cornutus	Sauria	Acrodontia	Agamidae	80.37	8.0	legged	female	mean
Draco cristatellus	Sauria	Acrodontia	Agamidae	88.00	9.9	legged	female	heaviest
Draco cyanopterus	Sauria	Acrodontia	Agamidae	91.33	12.6	legged	female	mean
Draco fimbriatus	Sauria	Acrodontia	Agamidae	86.50	18.7	legged	unsexed	mean
Draco guentheri	Sauria	Acrodontia	Agamidae	71.50	4.4	legged	male	mean
Draco haematopogon	Sauria	Acrodontia	Agamidae	80.75	5.7	legged	unsexed	mean
Draco lineatus	Sauria	Acrodontia	Agamidae	71.93	6.0	legged	female	mean
Draco maculatus	Sauria	Acrodontia	Agamidae	75.00	6.6	legged	female	mean
Draco maximus	Sauria	Acrodontia	Agamidae	128.55	32.8	legged	female	mean
Draco melanopogon	Sauria	Acrodontia	Agamidae	81.35	5.3	legged	female	mean
Draco mindanensis	Sauria	Acrodontia	Agamidae	91.50	7.3	legged	male	mean
Draco obscurus	Sauria	Acrodontia	Agamidae	94.69	9.3	legged	male	mean
Draco ornatus	Sauria	Acrodontia	Agamidae	83.58	8.2	legged	female	mean
Draco palawanensis	Sauria	Acrodontia	Agamidae	81.53	6.9	legged	female	mean
Draco quadrasi	Sauria	Acrodontia	Agamidae	69.75	3.5	legged	male	mean
Draco quinquefasciatus	Sauria	Acrodontia	Agamidae	99.17	11.6	legged	female	mean
Draco reticulatus	Sauria	Acrodontia	Agamidae	82.24	10.2	legged	female	mean
Draco spilopterus	Sauria	Acrodontia	Agamidae	87.02	10.6	legged	female	mean
Draco taeniopterus	Sauria	Acrodontia	Agamidae	71.60	4.8	legged	female	mean
Draco volans	Sauria	Acrodontia	Agamidae	78.00	5.4	legged	female	mean
Japalura swinhonis	Sauria	Acrodontia	Agamidae	74.20	11.2	legged	male	mean
Laudakia caucasia	Sauria	Acrodontia	Agamidae	150.00	69.8	legged	unsexed	mean
Laudakia lehmanni	Sauria	Acrodontia	Agamidae	120.58	54.9	legged	unsexed	mean
Laudakia stellio	Sauria	Acrodontia	Agamidae	100.75	53.4	legged	male	mean
Laudakia tuberculata	Sauria	Acrodontia	Agamidae	150.00	94.2	legged	unsexed	heaviest
Leiolepis belliana	Sauria	Acrodontia	Agamidae	177.80	40.0	legged	unsexed	heaviest
Leiolepis reevesii	Sauria	Acrodontia	Agamidae	105.11	18.6	legged	female	mean
Lophognathus longirostris	Sauria	Acrodontia	Agamidae	89.00	10.4	legged	unsexed	mean
Lophognathus temporalis	Sauria	Acrodontia	Agamidae	100.13	38.1	legged	unsexed	mean
Moloch horridus	Sauria	Acrodontia	Agamidae	89.70	31.4	legged	unsexed	mean
Otocryptis wiegmanni	Sauria	Acrodontia	Agamidae	77.00	8.0	legged	male	heaviest
Phrynocephalus guinanensis	Sauria	Acrodontia	Agamidae	80.00	15.2	legged	female	heaviest
Phrynocephalus guttatus	Sauria	Acrodontia	Agamidae	46.96	4.1	legged	male	mean
Phrynocephalus helioscopus	Sauria	Acrodontia	Agamidae	53.00	6.9	legged	unsexed	mean
Phrynocephalus interscapularis	Sauria	Acrodontia	Agamidae	35.88	1.0	legged	unsexed	mean
Phrynocephalus mystaceus	Sauria	Acrodontia	Agamidae	101.00	34.3	legged	unsexed	heaviest
Phrynocephalus przewalskii	Sauria	Acrodontia	Agamidae	52.60	5.4	legged	unsexed	mean
Phrynocephalus vlangalii	Sauria	Acrodontia	Agamidae	62.10	8.1	legged	female	mean
Physignathus cocincinus	Sauria	Acrodontia	Agamidae	197.50	288.0	legged	unsexed	mean
Physignathus lesueurii	Sauria	Acrodontia	Agamidae	250.00	559.2	legged	unsexed	heaviest
Pogona barbata	Sauria	Acrodontia	Agamidae	250.00	373.0	legged	unsexed	heaviest
Pogona minor	Sauria	Acrodontia	Agamidae	126.24	30.8	legged	unsexed	mean
Pogona vitticeps	Sauria	Acrodontia	Agamidae	250.00	900.0	legged	unsexed	heaviest
Pseudocalotes larutensis	Sauria	Acrodontia	Agamidae	77.30	7.1	legged	male	heaviest
Pseudotrapelus sinaitus	Sauria	Acrodontia	Agamidae	90.00	28.5	legged	female	heaviest
Rankinia diemensis	Sauria	Acrodontia	Agamidae	65.15	10.0	legged	female	mean

Trapelus agilis	Sauria	Acrodontia	Agamidae	93.25	30.4	legged	unsexed	mean
Trapelus mutabilis	Sauria	Acrodontia	Agamidae	85.55	15.0	legged	unsexed	mean
Trapelus pallidus	Sauria	Acrodontia	Agamidae	85.00	29.5	legged	unsexed	heaviest
Trapelus sanguinolentus	Sauria	Acrodontia	Agamidae	84.50	20.2	legged	female	mean
Trapelus savignii	Sauria	Acrodontia	Agamidae	92.25	33.0	legged	male	mean
Tympanocryptis lineata	Sauria	Acrodontia	Agamidae	55.00	9.7	legged	unsexed	mean
Tympanocryptis tetraporophora	Sauria	Acrodontia	Agamidae	53.70	6.1	legged	male	mean
Uromastyx acanthinura	Sauria	Acrodontia	Agamidae	400.00	600.0	legged	unsexed	heaviest
Uromastyx aegyptia	Sauria	Acrodontia	Agamidae	318.70	851.5	legged	male	mean
Uromastyx dispar	Sauria	Acrodontia	Agamidae	231.60	500.0	legged	unsexed	heaviest
Uromastyx hardwickii	Sauria	Acrodontia	Agamidae	178.00	130.1	legged	unsexed	mean
Uromastyx ornata	Sauria	Acrodontia	Agamidae	152.75	132.1	legged	female	mean
Amphisbaena alba	Amphisbae	amphisbaenia_(Laterata)	Amphisbaenidae	444.50	210.0	Limbless	unsexed	mean
Amphisbaena fuliginosa	Amphisbae	amphisbaenia_(Laterata)	Amphisbaenidae	500.00	73.0	Limbless	unsexed	heaviest
Amphisbaena infraorbitale	Amphisbae	amphisbaenia_(Laterata)	Amphisbaenidae	461.00	125.0	Limbless	female	mean
Amphisbaena mertensii	Amphisbae	amphisbaenia_(Laterata)	Amphisbaenidae	360.00	27.5	Limbless	female	heaviest
Amphisbaena microcephalum	Amphisbae	amphisbaenia_(Laterata)	Amphisbaenidae	390.11	58.7	Limbless	unsexed	mean
Amphisbaena roberti	Amphisbae	amphisbaenia_(Laterata)	Amphisbaenidae	231.00	6.5	Limbless	female	mean
Chirindia langi	Amphisbae	amphisbaenia_(Laterata)	Amphisbaenidae	129.45	0.7	Limbless	unsexed	mean
Anguis fragilis	Sauria	Anguimorpha	Anguidae	181.15	14.0	Limbless	unsexed	mean
Barisia imbricata	Sauria	Anguimorpha	Anguidae	109.95	31.8	legged	female	mean
Diploglossus lessonae	Sauria	Anguimorpha	Anguidae	146.50	54.3	legged	female	mean
Elgaria kingii	Sauria	Anguimorpha	Anguidae	93.00	10.0	legged	male	mean
Elgaria multicarinata	Sauria	Anguimorpha	Anguidae	100.60	31.7	legged	unsexed	mean
Ophisaurus attenuatus	Sauria	Anguimorpha	Anguidae	204.77	29.0	Limbless	unsexed	mean
Ophisaurus ventralis	Sauria	Anguimorpha	Anguidae	306.00	32.2	Limbless	unsexed	heaviest
Pseudopus apodus	Sauria	Anguimorpha	Anguidae	424.75	616.0	reduced	male	mean
Anniella pulchra	Sauria	Anguimorpha	Anniellidae	140.70	4.7	Limbless	unsexed	mean
Bipes biporus	Amphisbae	amphisbaenia_(Laterata)	Bipedidae	190.80	5.2	reduced	unsexed	mean
Bipes tridactylus	Amphisbae	amphisbaenia_(Laterata)	Bipedidae	140.00	5.3	reduced	female	heaviest
Blanus cinereus	Amphisbae	amphisbaenia_(Laterata)	Blanidae	174.90	6.0	Limbless	unsexed	mean
Blanus strauchi	Amphisbae	amphisbaenia_(Laterata)	Blanidae	157.70	6.0	Limbless	unsexed	mean
Bradypodion pumilum	Sauria	Acrodontia	Chamaeleonidae	70.00	10.6	legged	unsexed	heaviest
Brookesia exarmata	Sauria	Acrodontia	Chamaeleonidae	22.90	0.3	legged	female	mean
Brookesia stumpffi	Sauria	Acrodontia	Chamaeleonidae	55.00	4.0	legged	female	heaviest
Brookesia superciliaris	Sauria	Acrodontia	Chamaeleonidae	41.00	2.8	legged	male	heaviest
Calumma brevicorne	Sauria	Acrodontia	Chamaeleonidae	125.00	57.0	legged	male	heaviest
Calumma gastrotaenia	Sauria	Acrodontia	Chamaeleonidae	60.00	5.2	legged	female	heaviest
Chamaeleo bitaeniatus	Sauria	Acrodontia	Chamaeleonidae	88.00	15.7	legged	unsexed	heaviest
Chamaeleo calyptratus	Sauria	Acrodontia	Chamaeleonidae	239.00	290.0	legged	male	heaviest
Chamaeleo chamaeleon	Sauria	Acrodontia	Chamaeleonidae	116.92	36.3	legged	female	mean
Chamaeleo dilepis	Sauria	Acrodontia	Chamaeleonidae	87.00	13.2	legged	unsexed	heaviest
Chamaeleo hoehnelii	Sauria	Acrodontia	Chamaeleonidae	80.00	17.7	legged	female	mean
Chamaeleo jacksonii	Sauria	Acrodontia	Chamaeleonidae	105.00	37.5	legged	female	mean
Chamaeleo melleri	Sauria	Acrodontia	Chamaeleonidae	280.00	344.5	legged	unsexed	heaviest
Chamaeleo montium	Sauria	Acrodontia	Chamaeleonidae	82.20	9.0	legged	female	mean
Chamaeleo namaquensis	Sauria	Acrodontia	Chamaeleonidae	112.60	58.1	legged	male	mean
Chamaeleo senegalensis	Sauria	Acrodontia	Chamaeleonidae	125.00	31.1	legged	unsexed	heaviest
Furcifer angeli	Sauria	Acrodontia	Chamaeleonidae	160.00	55.5	legged	male	heaviest
Furcifer campani	Sauria	Acrodontia	Chamaeleonidae	60.00	6.0	legged	male	heaviest
Furcifer labordi	Sauria	Acrodontia	Chamaeleonidae	76.97	7.6	legged	female	heaviest
Furcifer lateralis	Sauria	Acrodontia	Chamaeleonidae	110.00	40.0	legged	male	heaviest
Furcifer oustaleti	Sauria	Acrodontia	Chamaeleonidae	299.00	299.0	legged	male	heaviest
Furcifer verrucosus	Sauria	Acrodontia	Chamaeleonidae	183.00	115.0	legged	male	heaviest
Furcifer willsii	Sauria	Acrodontia	Chamaeleonidae	75.00	11.0	legged	female	heaviest
Chamaesaura anguina	Sauria	Scincimorpha	Cordylidae	108.30	4.7	reduced	unsexed	mean
Chamaesaura macrolepis	Sauria	Scincimorpha	Cordylidae	120.42	11.6	reduced	unsexed	mean
Cordylus cordylus	Sauria	Scincimorpha	Cordylidae	82.00	17.3	legged	unsexed	mean
Cordylus giganteus	Sauria	Scincimorpha	Cordylidae	140.00	131.2	legged	unsexed	mean
Cordylus melanotus	Sauria	Scincimorpha	Cordylidae	91.00	17.0	legged	unsexed	mean
Cordylus microlepidotus	Sauria	Scincimorpha	Cordylidae	138.00	68.5	legged	unsexed	heaviest
Cordylus niger	Sauria	Scincimorpha	Cordylidae	92.00	19.0	legged	unsexed	heaviest
Cordylus oelofseni	Sauria	Scincimorpha	Cordylidae	69.00	10.0	legged	unsexed	heaviest
Cordylus polyzonus	Sauria	Scincimorpha	Cordylidae	110.00	40.6	legged	female	heaviest
Platysaurus capensis	Sauria	Scincimorpha	Cordylidae	73.25	6.1	legged	unsexed	mean
Platysaurus guttatus	Sauria	Scincimorpha	Cordylidae	95.00	12.2	legged	unsexed	heaviest
Platysaurus intermedius	Sauria	Scincimorpha	Cordylidae	87.50	23.5	legged	unsexed	mean
Basiliscus basiliscus	Sauria	Iguania	Corytophanidae	215.00	250.0	legged	male	mean
Basiliscus plumifrons	Sauria	Iguania	Corytophanidae	118.46	66.2	legged	unsexed	mean
Basiliscus vittatus	Sauria	Iguania	Corytophanidae	137.45	70.0	legged	male	mean
Corytophanes cristatus	Sauria	Iguania	Corytophanidae	111.71	43.4	legged	unsexed	mean
Crotaphytus antiquus	Sauria	Iguania	Crotaphytidae	100.40	40.4	legged	male	mean
Crotaphytus collaris	Sauria	Iguania	Crotaphytidae	102.45	37.1	legged	male	mean
Gambelia sila	Sauria	Iguania	Crotaphytidae	106.10	38.2	legged	male	mean
Gambelia wislizenii	Sauria	Iguania	Crotaphytidae	109.50	47.0	legged	female	mean
Afrogecko porphyreus	Sauria	Gekkota	Gekkonidae	49.00	1.5	legged	unsexed	heaviest
Agamura persica	Sauria	Gekkota	Gekkonidae	60.00	3.2	legged	unsexed	heaviest
Ailuronyx seychellensis	Sauria	Gekkota	Gekkonidae	94.13	36.0	legged	female	mean
Alsophylax pipiens	Sauria	Gekkota	Gekkonidae	41.60	1.5	legged	unsexed	heaviest
Asaccus montanus	Sauria	Gekkota	Gekkonidae	36.40	1.0	legged	male	heaviest

Bunopus blanfordii	Sauria	Gekkota	Gekkonidae	42.81	1.7	legged	male	mean
Bunopus tuberculatus	Sauria	Gekkota	Gekkonidae	43.00	1.6	legged	unsexed	heaviest
Calodactylodes illingworthorum	Sauria	Gekkota	Gekkonidae	82.00	9.2	legged	female	heaviest
Chondrodactylus angulifer	Sauria	Gekkota	Gekkonidae	75.50	15.7	legged	unsexed	mean
Chondrodactylus bibronii	Sauria	Gekkota	Gekkonidae	65.10	12.8	legged	unsexed	mean
Christinus guentheri	Sauria	Gekkota	Gekkonidae	76.30	14.6	legged	male	mean
Christinus marmoratus	Sauria	Gekkota	Gekkonidae	51.60	3.7	legged	female	mean
Coleodactylus amazonicus	Sauria	Gekkota	Gekkonidae	20.44	0.2	legged	unsexed	mean
Coleodactylus septentrionalis	Sauria	Gekkota	Gekkonidae	26.94	0.4	legged	unsexed	mean
Coleonyx brevis	Sauria	Gekkota	Gekkonidae	56.05	3.2	legged	unsexed	mean
Coleonyx elegans	Sauria	Gekkota	Gekkonidae	85.73	11.2	legged	female	mean
Coleonyx mitratus	Sauria	Gekkota	Gekkonidae	80.65	12.1	legged	unsexed	mean
Coleonyx reticulatus	Sauria	Gekkota	Gekkonidae	81.00	8.9	legged	unsexed	mean
Coleonyx switaki	Sauria	Gekkota	Gekkonidae	75.60	9.3	legged	unsexed	mean
Coleonyx variegatus	Sauria	Gekkota	Gekkonidae	59.83	3.9	legged	female	mean
Colopus wahlbergii	Sauria	Gekkota	Gekkonidae	47.90	2.6	legged	unsexed	mean
Crenadactylus ocellatus	Sauria	Gekkota	Gekkonidae	40.00	0.5	legged	unsexed	mean
Cyrtodactylus cryptus	Sauria	Gekkota	Gekkonidae	77.12	8.0	legged	female	mean
Cyrtopodion amictophole	Sauria	Gekkota	Gekkonidae	39.00	1.4	legged	unsexed	heaviest
Cyrtopodion caspium	Sauria	Gekkota	Gekkonidae	72.00	6.5	legged	unsexed	heaviest
Cyrtopodion fedtschenkoi	Sauria	Gekkota	Gekkonidae	77.00	9.0	legged	unsexed	heaviest
Cyrtopodion kotschyi	Sauria	Gekkota	Gekkonidae	40.90	2.0	legged	unsexed	mean
Cyrtopodion longipes	Sauria	Gekkota	Gekkonidae	62.00	3.8	legged	unsexed	mean
Cyrtopodion scabrum	Sauria	Gekkota	Gekkonidae	50.00	2.8	legged	unsexed	heaviest
Cyrtopodion spinicaudum	Sauria	Gekkota	Gekkonidae	48.20	2.5	legged	unsexed	heaviest
Cyrtopodion turcmenicum	Sauria	Gekkota	Gekkonidae	65.80	16.3	legged	unsexed	mean
Diplodactylus conspicillatus	Sauria	Gekkota	Gekkonidae	61.85	3.9	legged	unsexed	mean
Diplodactylus ornatus	Sauria	Gekkota	Gekkonidae	54.00	2.2	legged	unsexed	mean
Diplodactylus polyophthalmus	Sauria	Gekkota	Gekkonidae	53.00	3.1	legged	unsexed	mean
Diplodactylus pulcher	Sauria	Gekkota	Gekkonidae	56.00	2.7	legged	unsexed	mean
Diplodactylus tessellatus	Sauria	Gekkota	Gekkonidae	47.20	2.5	legged	unsexed	mean
Eublepharis angramainyu	Sauria	Gekkota	Gekkonidae	155.75	86.6	legged	unsexed	mean
Eublepharis fuscus	Sauria	Gekkota	Gekkonidae	111.00	34.3	legged	unsexed	mean
Eublepharis macularius	Sauria	Gekkota	Gekkonidae	125.05	59.7	legged	unsexed	mean
Eublepharis turcmenicus	Sauria	Gekkota	Gekkonidae	143.00	62.0	legged	unsexed	heaviest
Gehyra mutilata	Sauria	Gekkota	Gekkonidae	54.65	1.7	legged	unsexed	mean
Gehyra oceanica	Sauria	Gekkota	Gekkonidae	97.50	7.9	legged	unsexed	mean
Gehyra pilbara	Sauria	Gekkota	Gekkonidae	47.50	3.6	legged	unsexed	mean
Gehyra punctata	Sauria	Gekkota	Gekkonidae	52.50	3.7	legged	unsexed	mean
Gehyra purpurascens	Sauria	Gekkota	Gekkonidae	62.00	8.3	legged	unsexed	mean
Gehyra variegata	Sauria	Gekkota	Gekkonidae	49.50	3.0	legged	unsexed	mean
Gekko gecko	Sauria	Gekkota	Gekkonidae	151.60	63.2	legged	unsexed	mean
Gonatodes albogularis	Sauria	Gekkota	Gekkonidae	40.67	2.2	legged	female	mean
Gonatodes annularis	Sauria	Gekkota	Gekkonidae	43.44	1.5	legged	male	mean
Gonatodes antillensis	Sauria	Gekkota	Gekkonidae	38.00	1.8	legged	unsexed	heaviest
Gonatodes concinnatus	Sauria	Gekkota	Gekkonidae	43.29	2.0	legged	unsexed	mean
Gonatodes hasemani	Sauria	Gekkota	Gekkonidae	39.95	1.7	legged	female	mean
Gonatodes humeralis	Sauria	Gekkota	Gekkonidae	36.70	1.2	legged	male	mean
Goniurosaurus araneus	Sauria	Gekkota	Gekkonidae	110.00	22.3	legged	unsexed	mean
Goniurosaurus kuroiwae	Sauria	Gekkota	Gekkonidae	74.10	10.7	legged	unsexed	mean
Goniurosaurus lichtenfelderi	Sauria	Gekkota	Gekkonidae	93.83	12.4	legged	female	mean
Goniurosaurus luii	Sauria	Gekkota	Gekkonidae	108.90	23.0	legged	female	mean
Gymnodactylus geckoides	Sauria	Gekkota	Gekkonidae	39.33	2.2	legged	unsexed	mean
Hemidactylus bowringii	Sauria	Gekkota	Gekkonidae	46.70	2.3	legged	female	mean
Hemidactylus brookii	Sauria	Gekkota	Gekkonidae	52.85	2.0	legged	male	mean
Hemidactylus fasciatus	Sauria	Gekkota	Gekkonidae	75.85	7.9	legged	female	mean
Hemidactylus flaviviridis	Sauria	Gekkota	Gekkonidae	95.00	18.0	legged	unsexed	heaviest
Hemidactylus frenatus	Sauria	Gekkota	Gekkonidae	49.20	3.3	legged	male	mean
Hemidactylus mabouia	Sauria	Gekkota	Gekkonidae	55.10	4.5	legged	female	mean
Hemidactylus mercatorius	Sauria	Gekkota	Gekkonidae	48.50	2.4	legged	female	mean
Hemidactylus palaichthus	Sauria	Gekkota	Gekkonidae	54.90	4.1	legged	unsexed	mean
Hemidactylus platyurus	Sauria	Gekkota	Gekkonidae	55.10	3.8	legged	female	mean
Hemidactylus turcicus	Sauria	Gekkota	Gekkonidae	47.10	2.8	legged	male	mean
Hemitheconyx caudicinctus	Sauria	Gekkota	Gekkonidae	113.55	44.0	legged	unsexed	mean
Heteronotia binoei	Sauria	Gekkota	Gekkonidae	48.00	1.8	legged	unsexed	mean
Holodactylus africanus	Sauria	Gekkota	Gekkonidae	73.00	8.6	legged	unsexed	mean
Homonota gaudichaudii	Sauria	Gekkota	Gekkonidae	32.98	0.9	legged	male	mean
Hoplodactylus chrysosireticus	Sauria	Gekkota	Gekkonidae	70.00	6.4	legged	unsexed	mean
Hoplodactylus cryptozoicus	Sauria	Gekkota	Gekkonidae	87.00	18.4	legged	unsexed	heaviest
Hoplodactylus duvaucelii	Sauria	Gekkota	Gekkonidae	160.00	118.0	legged	unsexed	heaviest
Hoplodactylus maculatus	Sauria	Gekkota	Gekkonidae	67.30	8.1	legged	unsexed	mean
Hoplodactylus pacificus	Sauria	Gekkota	Gekkonidae	86.10	19.6	legged	female	mean
Hoplodactylus stephensi	Sauria	Gekkota	Gekkonidae	75.40	9.7	legged	female	mean
Lepidoblepharis hoogmoedi	Sauria	Gekkota	Gekkonidae	27.00	0.4	legged	female	mean
Lepidoblepharis xanthostigma	Sauria	Gekkota	Gekkonidae	32.61	0.7	legged	unsexed	mean
Lepidodactylus gardineri	Sauria	Gekkota	Gekkonidae	53.40	2.8	legged	unsexed	heaviest
Lepidodactylus listeri	Sauria	Gekkota	Gekkonidae	46.70	2.3	legged	unsexed	mean
Lepidodactylus lugubris	Sauria	Gekkota	Gekkonidae	44.75	1.4	legged	unsexed	mean
Lucasium alboguttatum	Sauria	Gekkota	Gekkonidae	56.00	2.9	legged	unsexed	mean
Lucasium damaeum	Sauria	Gekkota	Gekkonidae	51.80	2.2	legged	unsexed	mean

Lucasium squarrosum	Sauria	Gekkota	Gekkonidae	53.50	2.0	legged	unsexed	mean
Lucasium stenodactylum	Sauria	Gekkota	Gekkonidae	53.50	5.6	legged	unsexed	mean
Lygodactylus capensis	Sauria	Gekkota	Gekkonidae	34.60	0.9	legged	unsexed	mean
Lygodactylus klugei	Sauria	Gekkota	Gekkonidae	29.70	0.7	legged	female	mean
Lygodactylus picturatus	Sauria	Gekkota	Gekkonidae	35.29	1.5	legged	female	mean
Nactus pelagicus	Sauria	Gekkota	Gekkonidae	80.00	3.9	legged	unsexed	heaviest
Naultinus manukanus	Sauria	Gekkota	Gekkonidae	67.70	6.9	legged	unsexed	mean
Nephrurus laevissimus	Sauria	Gekkota	Gekkonidae	76.70	7.3	legged	unsexed	mean
Nephrurus levis	Sauria	Gekkota	Gekkonidae	84.55	11.0	legged	unsexed	mean
Nephrurus stellatus	Sauria	Gekkota	Gekkonidae	85.00	13.1	legged	unsexed	mean
Nephrurus vertebralis	Sauria	Gekkota	Gekkonidae	80.30	8.4	legged	unsexed	mean
Oedura castelnaui	Sauria	Gekkota	Gekkonidae	97.00	14.1	legged	female	heaviest
Oedura lesueurii	Sauria	Gekkota	Gekkonidae	63.70	3.7	legged	female	mean
Oedura marmorata	Sauria	Gekkota	Gekkonidae	100.00	15.4	legged	unsexed	mean
Oedura monilis	Sauria	Gekkota	Gekkonidae	79.80	6.1	legged	female	mean
Oedura reticulata	Sauria	Gekkota	Gekkonidae	70.00	2.7	legged	unsexed	heaviest
Oedura tryoni	Sauria	Gekkota	Gekkonidae	80.00	11.0	legged	female	mean
Pachydactylus capensis	Sauria	Gekkota	Gekkonidae	51.55	4.0	legged	unsexed	mean
Pachydactylus rangei	Sauria	Gekkota	Gekkonidae	60.25	2.8	legged	unsexed	mean
Pachydactylus rugosus	Sauria	Gekkota	Gekkonidae	52.00	4.3	legged	unsexed	mean
Perochirus scutellatus	Sauria	Gekkota	Gekkonidae	116.50	41.1	legged	male	mean
Phelsuma abbotti	Sauria	Gekkota	Gekkonidae	54.58	4.0	legged	male	mean
Phelsuma astriata	Sauria	Gekkota	Gekkonidae	52.15	3.4	legged	male	mean
Phelsuma cepediana	Sauria	Gekkota	Gekkonidae	60.00	5.0	legged	unsexed	heaviest
Phelsuma laticauda	Sauria	Gekkota	Gekkonidae	53.05	2.9	legged	unsexed	mean
Phelsuma lineata	Sauria	Gekkota	Gekkonidae	56.25	3.8	legged	unsexed	mean
Phelsuma madagascariensis	Sauria	Gekkota	Gekkonidae	94.47	20.7	legged	male	mean
Phyllodactylus lanei	Sauria	Gekkota	Gekkonidae	63.75	7.7	legged	female	mean
Phyllopezus pollicaris	Sauria	Gekkota	Gekkonidae	75.35	10.6	legged	female	mean
Phyllurus championae	Sauria	Gekkota	Gekkonidae	68.70	6.2	legged	female	heaviest
Pseudogonatodes guianensis	Sauria	Gekkota	Gekkonidae	25.50	0.6	legged	male	mean
Ptenopus garrulus	Sauria	Gekkota	Gekkonidae	47.60	3.0	legged	unsexed	mean
Ptychozoon kuhli	Sauria	Gekkota	Gekkonidae	80.83	7.7	legged	unsexed	mean
Ptyodactylus guttatus	Sauria	Gekkota	Gekkonidae	75.52	10.9	legged	male	mean
Ptyodactylus hasselquistii	Sauria	Gekkota	Gekkonidae	80.00	9.3	legged	male	mean
Rhoptropus boultoni	Sauria	Gekkota	Gekkonidae	57.00	4.8	legged	unsexed	mean
Rhynchoedura ornata	Sauria	Gekkota	Gekkonidae	50.45	1.8	legged	unsexed	mean
Sphaerodactylus argivus	Sauria	Gekkota	Gekkonidae	22.50	0.3	legged	unsexed	mean
Sphaerodactylus ariasae	Sauria	Gekkota	Gekkonidae	17.90	0.1	legged	unsexed	heaviest
Sphaerodactylus cinereus	Sauria	Gekkota	Gekkonidae	37.00	1.0	legged	unsexed	heaviest
Sphaerodactylus macrolepis	Sauria	Gekkota	Gekkonidae	35.00	0.5	legged	unsexed	heaviest
Sphaerodactylus nicholsi	Sauria	Gekkota	Gekkonidae	20.00	0.3	legged	unsexed	mean
Sphaerodactylus notatus	Sauria	Gekkota	Gekkonidae	30.00	0.5	legged	unsexed	heaviest
Sphaerodactylus parthenopion	Sauria	Gekkota	Gekkonidae	18.00	0.2	legged	unsexed	heaviest
Sphaerodactylus vincenti	Sauria	Gekkota	Gekkonidae	27.05	0.5	legged	female	mean
Stenodactylus doriae	Sauria	Gekkota	Gekkonidae	63.24	8.2	legged	female	mean
Stenodactylus petrii	Sauria	Gekkota	Gekkonidae	53.65	5.4	legged	male	mean
Stenodactylus sthenodactylus	Sauria	Gekkota	Gekkonidae	49.10	4.4	legged	female	mean
Strophurus ciliaris	Sauria	Gekkota	Gekkonidae	77.90	7.8	legged	unsexed	mean
Strophurus elderi	Sauria	Gekkota	Gekkonidae	43.35	1.7	legged	unsexed	mean
Strophurus intermedius	Sauria	Gekkota	Gekkonidae	64.50	6.7	legged	unsexed	mean
Strophurus michaelseni	Sauria	Gekkota	Gekkonidae	58.00	2.3	legged	unsexed	mean
Strophurus spinigerus	Sauria	Gekkota	Gekkonidae	72.00	4.8	legged	unsexed	mean
Strophurus strophurus	Sauria	Gekkota	Gekkonidae	66.70	5.8	legged	unsexed	mean
Tarentola annularis	Sauria	Gekkota	Gekkonidae	95.00	12.6	legged	male	heaviest
Tarentola mauritanica	Sauria	Gekkota	Gekkonidae	70.00	7.3	legged	unsexed	mean
Teratoscincus microlepis	Sauria	Gekkota	Gekkonidae	69.40	9.7	legged	male	mean
Teratoscincus scincus	Sauria	Gekkota	Gekkonidae	94.85	22.4	legged	unsexed	mean
Teratoscincus toksunicus	Sauria	Gekkota	Gekkonidae	94.00	30.0	legged	female	heaviest
Thecadactylus rapicauda	Sauria	Gekkota	Gekkonidae	110.05	29.2	legged	female	mean
Tropiocolotes nattereri	Sauria	Gekkota	Gekkonidae	26.00	0.4	legged	unsexed	heaviest
Tropiocolotes steudneri	Sauria	Gekkota	Gekkonidae	26.33	0.3	legged	male	mean
Underwoodisaurus milii	Sauria	Gekkota	Gekkonidae	88.00	9.6	legged	unsexed	mean
Gerrhosaurus major	Sauria	Scincimorpha	Gerrhosauridae	205.00	284.0	legged	unsexed	heaviest
Gerrhosaurus nigrolineatus	Sauria	Scincimorpha	Gerrhosauridae	126.55	62.9	legged	unsexed	mean
Gerrhosaurus skoogi	Sauria	Scincimorpha	Gerrhosauridae	138.73	56.2	legged	unsexed	mean
Tetradactylus seps	Sauria	Scincimorpha	Gerrhosauridae	55.47	3.8	legged	unsexed	mean
Tracheloptychus petersi	Sauria	Scincimorpha	Gerrhosauridae	86.50	17.4	legged	unsexed	mean
Zonosaurus madagascariensis	Sauria	Scincimorpha	Gerrhosauridae	124.00	45.4	legged	unsexed	mean
Zonosaurus maximus	Sauria	Scincimorpha	Gerrhosauridae	246.00	386.4	legged	unsexed	heaviest
Zonosaurus quadrilineatus	Sauria	Scincimorpha	Gerrhosauridae	165.00	82.7	legged	unsexed	heaviest
Alopoglossus angulatus	Sauria	Laterata	Gymnophthalmidae	48.98	2.4	legged	unsexed	mean
Alopoglossus atriventris	Sauria	Laterata	Gymnophthalmidae	53.00	4.5	legged	female	heaviest
Alopoglossus buckleyi	Sauria	Laterata	Gymnophthalmidae	45.00	2.1	legged	male	mean
Alopoglossus copii	Sauria	Laterata	Gymnophthalmidae	58.00	6.0	legged	male	heaviest
Anadia bogotensis	Sauria	Laterata	Gymnophthalmidae	62.30	4.5	legged	unsexed	mean
Anadia brevifrontalis	Sauria	Laterata	Gymnophthalmidae	69.00	5.9	legged	male	mean
Arthrosaura reticulata	Sauria	Laterata	Gymnophthalmidae	50.72	3.4	legged	unsexed	mean
Bachia flavescens	Sauria	Laterata	Gymnophthalmidae	73.00	1.3	reduced	male	heaviest
Bachia trisanale	Sauria	Laterata	Gymnophthalmidae	79.00	1.5	reduced	unsexed	heaviest

Calyptommatus leiolepis	Sauria	Laterata	Gymnophthalmidae	53.89	0.9	reduced	unsexed	mean
Cercosaura argulus	Sauria	Laterata	Gymnophthalmidae	34.55	0.5	legged	unsexed	mean
Cercosaura eigenmanni	Sauria	Laterata	Gymnophthalmidae	45.50	2.6	legged	female	mean
Cercosaura ocellata	Sauria	Laterata	Gymnophthalmidae	52.25	3.9	legged	female	mean
Cercosaura oshaughnessyi	Sauria	Laterata	Gymnophthalmidae	37.45	1.1	legged	male	mean
Cercosaura schreibersii	Sauria	Laterata	Gymnophthalmidae	32.38	0.5	legged	unsexed	mean
Echinosaura horrida	Sauria	Laterata	Gymnophthalmidae	65.92	4.8	legged	unsexed	mean
Gymnophthalmus leucomystax	Sauria	Laterata	Gymnophthalmidae	38.70	0.8	legged	female	mean
Gymnophthalmus underwoodi	Sauria	Laterata	Gymnophthalmidae	38.00	1.2	legged	female	mean
Iphisa elegans	Sauria	Laterata	Gymnophthalmidae	46.51	1.4	reduced	unsexed	mean
Leposoma osvaldoi	Sauria	Laterata	Gymnophthalmidae	29.64	0.6	legged	unsexed	mean
Leposoma parietale	Sauria	Laterata	Gymnophthalmidae	33.80	0.7	legged	male	mean
Leposoma percarinatum	Sauria	Laterata	Gymnophthalmidae	32.30	0.7	legged	parthenoge	mean
Micrablepharus maximiliani	Sauria	Laterata	Gymnophthalmidae	35.99	1.0	legged	unsexed	mean
Neusticurus bicarinatus	Sauria	Laterata	Gymnophthalmidae	84.50	17.2	legged	unsexed	mean
Nothobachia ablephara	Sauria	Laterata	Gymnophthalmidae	53.71	0.8	reduced	unsexed	mean
Pholidobolus affinis	Sauria	Laterata	Gymnophthalmidae	46.56	2.9	legged	unsexed	mean
Potamites ecpleopus	Sauria	Laterata	Gymnophthalmidae	61.80	5.7	legged	male	mean
Potamites juruazensis	Sauria	Laterata	Gymnophthalmidae	41.60	1.6	legged	unsexed	mean
Procellosaurinus erythrocercus	Sauria	Laterata	Gymnophthalmidae	27.81	0.5	legged	unsexed	mean
Psilophthalmus paeminosus	Sauria	Laterata	Gymnophthalmidae	31.73	0.5	legged	unsexed	mean
Ptychoglossus brevifrontalis	Sauria	Laterata	Gymnophthalmidae	48.11	1.8	legged	unsexed	mean
Riama striata	Sauria	Laterata	Gymnophthalmidae	60.85	4.3	legged	unsexed	mean
Tretioscincus bifasciatus	Sauria	Laterata	Gymnophthalmidae	58.00	6.0	legged	unsexed	heaviest
Tretioscincus oriximinensis	Sauria	Laterata	Gymnophthalmidae	51.50	2.4	legged	unsexed	mean
Vanzosaura rubricauda	Sauria	Laterata	Gymnophthalmidae	31.62	0.7	legged	unsexed	mean
Heloderma horridum	Sauria	Anguimorpha	Helodermatidae	363.85	1088.3	legged	female	mean
Heloderma suspectum	Sauria	Anguimorpha	Helodermatidae	287.35	551.3	legged	unsexed	mean
Enyalioides cofanorum	Sauria	Iguania	Hoplocercidae	140.00	60.0	legged	male	heaviest
Enyalioides laticeps	Sauria	Iguania	Hoplocercidae	114.03	58.0	legged	unsexed	mean
Enyalioides palpebralis	Sauria	Iguania	Hoplocercidae	116.00	24.0	legged	male	heaviest
Amblyrhynchus cristatus	Sauria	Iguania	Iguanidae	530.00	3000.0	legged	unsexed	heaviest
Brachylophus fasciatus	Sauria	Iguania	Iguanidae	165.50	162.0	legged	male	mean
Brachylophus vitiensis	Sauria	Iguania	Iguanidae	202.00	345.0	legged	female	mean
Conolophus marthae	Sauria	Iguania	Iguanidae	470.00	5000.0	legged	male	heaviest
Conolophus pallidus	Sauria	Iguania	Iguanidae	333.75	4200.0	legged	female	mean
Conolophus subcristatus	Sauria	Iguania	Iguanidae	392.75	7000.0	legged	male	mean
Ctenosaura bakeri	Sauria	Iguania	Iguanidae	224.30	399.4	legged	male	mean
Ctenosaura hemilopha	Sauria	Iguania	Iguanidae	400.00	2800.0	legged	unsexed	heaviest
Ctenosaura pectinata	Sauria	Iguania	Iguanidae	309.20	961.4	legged	male	mean
Ctenosaura similis	Sauria	Iguania	Iguanidae	380.00	1034.0	legged	male	mean
Cyclura carinata	Sauria	Iguania	Iguanidae	237.50	1005.0	legged	male	mean
Cyclura cornuta	Sauria	Iguania	Iguanidae	471.50	4134.5	legged	female	mean
Cyclura cychlura	Sauria	Iguania	Iguanidae	620.00	10380.0	legged	male	heaviest
Cyclura nubila	Sauria	Iguania	Iguanidae	428.15	4100.0	legged	male	mean
Cyclura pinguis	Sauria	Iguania	Iguanidae	512.30	5725.0	legged	male	mean
Cyclura ricordi	Sauria	Iguania	Iguanidae	365.00	1634.0	legged	female	heaviest
Cyclura rileyi	Sauria	Iguania	Iguanidae	254.00	683.0	legged	male	mean
Dipsosaurus dorsalis	Sauria	Iguania	Iguanidae	115.06	59.0	legged	unsexed	mean
Iguana delicatissima	Sauria	Iguania	Iguanidae	410.00	3400.0	legged	male	heaviest
Iguana iguana	Sauria	Iguania	Iguanidae	387.55	1530.0	legged	male	mean
Sauromalus ater	Sauria	Iguania	Iguanidae	210.00	550.0	legged	unsexed	heaviest
Sauromalus hispidus	Sauria	Iguania	Iguanidae	271.00	737.0	legged	unsexed	mean
Sauromalus obesus	Sauria	Iguania	Iguanidae	171.50	175.0	legged	female	mean
Sauromalus varius	Sauria	Iguania	Iguanidae	323.00	1800.0	legged	unsexed	heaviest
Acanthodactylus beershebensis	Sauria	Laterata	Lacertidae	90.00	19.0	legged	unsexed	heaviest
Acanthodactylus boskianus	Sauria	Laterata	Lacertidae	60.46	8.3	legged	unsexed	mean
Acanthodactylus erythrurus	Sauria	Laterata	Lacertidae	70.49	8.7	legged	male	mean
Acanthodactylus maculatus	Sauria	Laterata	Lacertidae	62.00	7.5	legged	male	heaviest
Acanthodactylus opheodurus	Sauria	Laterata	Lacertidae	62.00	4.0	legged	unsexed	heaviest
Acanthodactylus pardalis	Sauria	Laterata	Lacertidae	59.40	7.4	legged	male	mean
Acanthodactylus schmidti	Sauria	Laterata	Lacertidae	90.20	14.5	legged	unsexed	mean
Acanthodactylus schreiberi	Sauria	Laterata	Lacertidae	80.00	28.0	legged	unsexed	heaviest
Acanthodactylus scutellatus	Sauria	Laterata	Lacertidae	85.00	12.0	legged	unsexed	heaviest
Algyroides moreoticus	Sauria	Laterata	Lacertidae	45.00	3.2	legged	female	heaviest
Anatololacerta danfordi	Sauria	Laterata	Lacertidae	64.00	4.5	legged	unsexed	heaviest
Archaeolacerta bedriagae	Sauria	Laterata	Lacertidae	72.22	10.3	legged	male	mean
Atlantolacerta andreanskyi	Sauria	Laterata	Lacertidae	54.00	3.0	legged	female	heaviest
Dalmatolacerta oxycephala	Sauria	Laterata	Lacertidae	60.26	8.0	legged	unsexed	mean
Darevskia armeniaca	Sauria	Laterata	Lacertidae	53.50	2.1	legged	unsexed	mean
Darevskia derjugini	Sauria	Laterata	Lacertidae	56.60	4.1	legged	female	mean
Darevskia praticola	Sauria	Laterata	Lacertidae	54.74	2.5	legged	female	mean
Darevskia saxicola	Sauria	Laterata	Lacertidae	66.75	10.6	legged	male	mean
Darevskia unisexualis	Sauria	Laterata	Lacertidae	58.83	4.8	legged	parthenoge	mean
Dinarolacerta mosorensis	Sauria	Laterata	Lacertidae	63.94	5.8	legged	female	mean
Eremias arguta	Sauria	Laterata	Lacertidae	100.00	11.3	legged	unsexed	heaviest
Eremias brenchleyi	Sauria	Laterata	Lacertidae	69.00	5.9	legged	unsexed	heaviest
Eremias pleskei	Sauria	Laterata	Lacertidae	52.00	2.6	legged	unsexed	heaviest
Gallotia atlantica	Sauria	Laterata	Lacertidae	74.00	12.8	legged	male	mean
Gallotia galloti	Sauria	Laterata	Lacertidae	108.35	38.5	legged	male	mean

Gallotia simonyi	Sauria	Laterata	Lacertidae	210.00	295.1	legged	female	heaviest
Gallotia stehlini	Sauria	Laterata	Lacertidae	192.50	208.0	legged	unsexed	mean
Heliobolus lugubris	Sauria	Laterata	Lacertidae	53.43	4.9	legged	unsexed	mean
Hellenolacerta graeca	Sauria	Laterata	Lacertidae	79.44	9.9	legged	male	mean
Iberolacerta aranica	Sauria	Laterata	Lacertidae	57.09	2.6	legged	female	mean
Iberolacerta bonnali	Sauria	Laterata	Lacertidae	55.93	2.8	legged	female	mean
Iberolacerta cyreni	Sauria	Laterata	Lacertidae	70.00	7.0	legged	male	mean
Iberolacerta monticola	Sauria	Laterata	Lacertidae	67.21	8.6	legged	male	mean
Ichnotropis squamulosa	Sauria	Laterata	Lacertidae	51.30	5.1	legged	unsexed	mean
Lacerta agilis	Sauria	Laterata	Lacertidae	77.57	8.3	legged	female	mean
Lacerta media	Sauria	Laterata	Lacertidae	118.00	44.2	legged	male	mean
Lacerta schreiberi	Sauria	Laterata	Lacertidae	135.00	21.2	legged	unsexed	heaviest
Lacerta strigata	Sauria	Laterata	Lacertidae	92.00	20.6	legged	unsexed	heaviest
Lacerta trilineata	Sauria	Laterata	Lacertidae	160.00	79.4	legged	unsexed	heaviest
Lacerta viridis	Sauria	Laterata	Lacertidae	101.00	39.0	legged	unsexed	mean
Meroles anchietae	Sauria	Laterata	Lacertidae	42.50	3.4	legged	unsexed	mean
Meroles suborbitalis	Sauria	Laterata	Lacertidae	54.76	5.0	legged	unsexed	mean
Mesalina brevirostris	Sauria	Laterata	Lacertidae	50.00	2.0	legged	unsexed	heaviest
Mesalina guttulata	Sauria	Laterata	Lacertidae	43.20	2.5	legged	unsexed	mean
Mesalina olivieri	Sauria	Laterata	Lacertidae	41.14	1.9	legged	male	mean
Mesalina rubropunctata	Sauria	Laterata	Lacertidae	51.33	2.8	legged	unsexed	mean
Nucras intertexta	Sauria	Laterata	Lacertidae	65.50	6.1	legged	unsexed	mean
Nucras tessellata	Sauria	Laterata	Lacertidae	56.80	6.0	legged	unsexed	mean
Omanosaura jayakari	Sauria	Laterata	Lacertidae	143.38	136.3	legged	male	mean
Ophisops elegans	Sauria	Laterata	Lacertidae	46.67	3.0	legged	unsexed	mean
Parvilacerta parva	Sauria	Laterata	Lacertidae	50.32	3.1	legged	unsexed	mean
Pedioplanis lineoocellata	Sauria	Laterata	Lacertidae	52.43	4.3	legged	unsexed	mean
Pedioplanis namaquensis	Sauria	Laterata	Lacertidae	48.81	3.1	legged	unsexed	mean
Phoenicolacerta laevis	Sauria	Laterata	Lacertidae	67.21	7.5	legged	male	mean
Podarcis atrata	Sauria	Laterata	Lacertidae	58.45	1.8	legged	female	mean
Podarcis bocagei	Sauria	Laterata	Lacertidae	56.37	4.6	legged	male	mean
Podarcis carbonelli	Sauria	Laterata	Lacertidae	53.47	2.9	legged	male	mean
Podarcis cretensis	Sauria	Laterata	Lacertidae	56.81	3.1	legged	female	mean
Podarcis erhardii	Sauria	Laterata	Lacertidae	65.34	9.5	legged	male	mean
Podarcis gaigeae	Sauria	Laterata	Lacertidae	73.22	10.8	legged	male	mean
Podarcis hispanicus	Sauria	Laterata	Lacertidae	53.80	3.7	legged	male	mean
Podarcis lilfordi	Sauria	Laterata	Lacertidae	66.35	7.3	legged	male	mean
Podarcis melisellensis	Sauria	Laterata	Lacertidae	60.88	6.0	legged	unsexed	mean
Podarcis muralis	Sauria	Laterata	Lacertidae	61.86	6.4	legged	male	mean
Podarcis peloponnesiacus	Sauria	Laterata	Lacertidae	74.55	9.2	legged	unsexed	mean
Podarcis pityusensis	Sauria	Laterata	Lacertidae	68.70	6.8	legged	male	mean
Podarcis siculus	Sauria	Laterata	Lacertidae	71.35	8.0	legged	unsexed	mean
Podarcis tauricus	Sauria	Laterata	Lacertidae	60.58	7.4	legged	male	mean
Podarcis tiliguerta	Sauria	Laterata	Lacertidae	61.38	5.0	legged	male	mean
Psammodromus algirus	Sauria	Laterata	Lacertidae	70.76	9.1	legged	unsexed	mean
Psammodromus hispanicus	Sauria	Laterata	Lacertidae	39.37	3.0	legged	unsexed	mean
Scelarcis perspicillata	Sauria	Laterata	Lacertidae	54.09	3.4	legged	male	mean
Takydromus amurensis	Sauria	Laterata	Lacertidae	78.00	4.8	legged	female	heaviest
Takydromus dorsalis	Sauria	Laterata	Lacertidae	65.40	3.4	legged	female	mean
Takydromus formosanus	Sauria	Laterata	Lacertidae	46.63	2.7	legged	male	mean
Takydromus hsuehshanensis	Sauria	Laterata	Lacertidae	59.50	4.7	legged	male	mean
Takydromus sauteri	Sauria	Laterata	Lacertidae	76.50	7.1	legged	female	heaviest
Takydromus septentrionalis	Sauria	Laterata	Lacertidae	60.70	5.3	legged	female	mean
Takydromus sexlineatus	Sauria	Laterata	Lacertidae	54.67	2.2	legged	unsexed	mean
Takydromus smaragdinus	Sauria	Laterata	Lacertidae	50.40	1.8	legged	female	mean
Takydromus stejnegeri	Sauria	Laterata	Lacertidae	54.40	3.1	legged	female	mean
Takydromus tachydromoides	Sauria	Laterata	Lacertidae	50.85	3.4	legged	female	mean
Takydromus wolteri	Sauria	Laterata	Lacertidae	50.50	2.4	legged	unsexed	mean
Teira dugesii	Sauria	Laterata	Lacertidae	70.00	9.0	legged	unsexed	heaviest
Timon lepidus	Sauria	Laterata	Lacertidae	164.94	119.8	legged	male	mean
Timon princeps	Sauria	Laterata	Lacertidae	112.00	20.8	legged	male	heaviest
Zootoca vivipara	Sauria	Laterata	Lacertidae	50.99	3.9	legged	unsexed	mean
Chalarodon madagascariensis	Sauria	Iguania	Opluridae	78.67	9.5	legged	male	mean
Oplurus cuvieri	Sauria	Iguania	Opluridae	144.49	117.7	legged	male	mean
Oplurus cyclurus	Sauria	Iguania	Opluridae	110.50	45.4	legged	male	mean
Oplurus fierinensis	Sauria	Iguania	Opluridae	87.00	19.5	legged	male	mean
Oplurus grandidieri	Sauria	Iguania	Opluridae	109.00	35.2	legged	male	mean
Oplurus quadrimaculatus	Sauria	Iguania	Opluridae	120.70	57.9	legged	male	mean
Oplurus saxicola	Sauria	Iguania	Opluridae	104.00	29.6	legged	male	mean
Callisaurus draconoides	Sauria	Iguania	Phrynosomatidae	73.40	10.3	legged	unsexed	mean
Cophosaurus texanus	Sauria	Iguania	Phrynosomatidae	70.07	10.2	legged	male	mean
Holbrookia maculata	Sauria	Iguania	Phrynosomatidae	54.15	4.9	legged	female	mean
Petrosaurus mearnsi	Sauria	Iguania	Phrynosomatidae	82.45	14.0	legged	unsexed	mean
Phrynosoma asio	Sauria	Iguania	Phrynosomatidae	124.46	100.0	legged	unsexed	heaviest
Phrynosoma cornutum	Sauria	Iguania	Phrynosomatidae	83.30	38.5	legged	male	mean
Phrynosoma coronatum	Sauria	Iguania	Phrynosomatidae	114.00	38.0	legged	unsexed	heaviest
Phrynosoma ditmarsi	Sauria	Iguania	Phrynosomatidae	90.00	31.1	legged	female	heaviest
Phrynosoma douglassii	Sauria	Iguania	Phrynosomatidae	82.00	17.0	legged	unsexed	mean
Phrynosoma hernandesi	Sauria	Iguania	Phrynosomatidae	125.00	42.3	legged	female	heaviest
Phrynosoma mcallii	Sauria	Iguania	Phrynosomatidae	67.90	10.9	legged	unsexed	mean

Phrynosoma modestum	Sauria	Iguania	Phrynosomatidae	52.90	8.3	legged	unsexed	mean
Phrynosoma platyrhinos	Sauria	Iguania	Phrynosomatidae	75.25	18.8	legged	unsexed	mean
Sceloporus arenicolus	Sauria	Iguania	Phrynosomatidae	53.90	5.1	legged	female	mean
Sceloporus bicanthalis	Sauria	Iguania	Phrynosomatidae	50.65	4.4	legged	female	mean
Sceloporus clarkii	Sauria	Iguania	Phrynosomatidae	92.30	33.3	legged	female	mean
Sceloporus cyanogenys	Sauria	Iguania	Phrynosomatidae	148.00	51.5	legged	unsexed	heaviest
Sceloporus druckercolini	Sauria	Iguania	Phrynosomatidae	97.50	34.0	legged	unsexed	heaviest
Sceloporus gadoviae	Sauria	Iguania	Phrynosomatidae	52.70	5.2	legged	female	mean
Sceloporus graciosus	Sauria	Iguania	Phrynosomatidae	57.50	7.0	legged	male	mean
Sceloporus grammicus	Sauria	Iguania	Phrynosomatidae	56.49	6.1	legged	male	mean
Sceloporus jarrovii	Sauria	Iguania	Phrynosomatidae	76.35	23.9	legged	male	mean
Sceloporus magister	Sauria	Iguania	Phrynosomatidae	86.30	43.6	legged	unsexed	mean
Sceloporus merriami	Sauria	Iguania	Phrynosomatidae	49.91	4.3	legged	male	mean
Sceloporus occidentalis	Sauria	Iguania	Phrynosomatidae	66.15	13.6	legged	unsexed	mean
Sceloporus olivaceus	Sauria	Iguania	Phrynosomatidae	90.92	33.6	legged	female	mean
Sceloporus orcutti	Sauria	Iguania	Phrynosomatidae	96.12	50.2	legged	male	mean
Sceloporus scalaris	Sauria	Iguania	Phrynosomatidae	51.90	3.9	legged	female	mean
Sceloporus undulatus	Sauria	Iguania	Phrynosomatidae	62.50	11.3	legged	female	mean
Sceloporus variabilis	Sauria	Iguania	Phrynosomatidae	58.07	11.0	legged	male	mean
Sceloporus virgatus	Sauria	Iguania	Phrynosomatidae	54.95	7.1	legged	female	mean
Sceloporus woodi	Sauria	Iguania	Phrynosomatidae	55.25	7.2	legged	female	mean
Uma inornata	Sauria	Iguania	Phrynosomatidae	124.00	17.3	legged	unsexed	heaviest
Uma notata	Sauria	Iguania	Phrynosomatidae	103.00	26.9	legged	male	mean
Uma scoparia	Sauria	Iguania	Phrynosomatidae	83.43	17.5	legged	unsexed	mean
Urosaurus bicarinatus	Sauria	Iguania	Phrynosomatidae	44.60	3.0	legged	female	mean
Urosaurus graciosus	Sauria	Iguania	Phrynosomatidae	48.70	3.5	legged	unsexed	mean
Urosaurus nigricaudus	Sauria	Iguania	Phrynosomatidae	40.00	3.2	legged	unsexed	mean
Urosaurus ornatus	Sauria	Iguania	Phrynosomatidae	50.87	3.4	legged	male	mean
Uta stansburiana	Sauria	Iguania	Phrynosomatidae	46.17	3.0	legged	male	mean
Anolis acutus	Sauria	Iguania	Polychrotidae	66.00	4.3	legged	unsexed	heaviest
Anolis aequatorialis	Sauria	Iguania	Polychrotidae	82.10	10.5	legged	male	mean
Anolis agassizi	Sauria	Iguania	Polychrotidae	114.00	34.0	legged	male	heaviest
Anolis aliniger	Sauria	Iguania	Polychrotidae	55.90	4.7	legged	male	mean
Anolis allisoni	Sauria	Iguania	Polychrotidae	56.55	4.5	legged	female	mean
Anolis angusticeps	Sauria	Iguania	Polychrotidae	45.30	2.6	legged	male	mean
Anolis anisolepis	Sauria	Iguania	Polychrotidae	53.00	3.5	legged	male	mean
Anolis aquaticus	Sauria	Iguania	Polychrotidae	64.65	7.8	legged	male	mean
Anolis attenuatus	Sauria	Iguania	Polychrotidae	80.60	10.9	legged	female	mean
Anolis auratus	Sauria	Iguania	Polychrotidae	43.90	1.9	legged	unsexed	mean
Anolis bahorucoensis	Sauria	Iguania	Polychrotidae	43.90	1.7	legged	male	mean
Anolis baleatus	Sauria	Iguania	Polychrotidae	156.30	80.8	legged	male	mean
Anolis bicaorum	Sauria	Iguania	Polychrotidae	61.35	5.9	legged	female	mean
Anolis biporcatus	Sauria	Iguania	Polychrotidae	88.70	28.0	legged	female	mean
Anolis bombiceps	Sauria	Iguania	Polychrotidae	74.00	3.9	legged	female	heaviest
Anolis bonairensis	Sauria	Iguania	Polychrotidae	75.00	8.9	legged	male	heaviest
Anolis capito	Sauria	Iguania	Polychrotidae	68.45	7.8	legged	unsexed	mean
Anolis carolinensis	Sauria	Iguania	Polychrotidae	49.25	2.3	legged	female	mean
Anolis carpenteri	Sauria	Iguania	Polychrotidae	40.40	1.0	legged	female	mean
Anolis casildae	Sauria	Iguania	Polychrotidae	100.00	20.0	legged	female	heaviest
Anolis chloris	Sauria	Iguania	Polychrotidae	53.30	1.7	legged	male	mean
Anolis chlorocyanus	Sauria	Iguania	Polychrotidae	67.75	6.9	legged	male	mean
Anolis christophei	Sauria	Iguania	Polychrotidae	47.40	2.2	legged	male	mean
Anolis chrysolepis	Sauria	Iguania	Polychrotidae	65.20	6.9	legged	female	mean
Anolis coelestinus	Sauria	Iguania	Polychrotidae	73.65	9.3	legged	male	mean
Anolis conspersus	Sauria	Iguania	Polychrotidae	66.00	8.0	legged	male	mean
Anolis cooki	Sauria	Iguania	Polychrotidae	63.00	5.5	legged	male	mean
Anolis cristatellus	Sauria	Iguania	Polychrotidae	67.30	8.4	legged	male	mean
Anolis cupreus	Sauria	Iguania	Polychrotidae	46.15	1.8	legged	male	mean
Anolis cuprinus	Sauria	Iguania	Polychrotidae	65.15	4.6	legged	male	mean
Anolis cuvieri	Sauria	Iguania	Polychrotidae	132.00	46.6	legged	male	mean
Anolis cybotes	Sauria	Iguania	Polychrotidae	61.23	9.3	legged	male	mean
Anolis darlingtoni	Sauria	Iguania	Polychrotidae	72.00	7.1	legged	male	mean
Anolis distichus	Sauria	Iguania	Polychrotidae	49.65	3.1	legged	male	mean
Anolis dunni	Sauria	Iguania	Polychrotidae	58.00	3.2	legged	male	heaviest
Anolis equestris	Sauria	Iguania	Polychrotidae	151.70	56.0	legged	male	mean
Anolis evermanni	Sauria	Iguania	Polychrotidae	57.40	5.4	legged	male	mean
Anolis frenatus	Sauria	Iguania	Polychrotidae	135.20	51.7	legged	unsexed	mean
Anolis fuscoauratus	Sauria	Iguania	Polychrotidae	43.60	1.5	legged	female	mean
Anolis gadovii	Sauria	Iguania	Polychrotidae	70.80	5.0	legged	male	mean
Anolis garmani	Sauria	Iguania	Polychrotidae	107.65	33.8	legged	male	mean
Anolis gemmosus	Sauria	Iguania	Polychrotidae	62.75	4.1	legged	male	mean
Anolis grahami	Sauria	Iguania	Polychrotidae	62.55	6.1	legged	male	mean
Anolis gundlachi	Sauria	Iguania	Polychrotidae	65.20	6.9	legged	male	mean
Anolis haguei	Sauria	Iguania	Polychrotidae	45.00	2.6	legged	male	mean
Anolis humilis	Sauria	Iguania	Polychrotidae	38.10	1.8	legged	female	mean
Anolis insolitus	Sauria	Iguania	Polychrotidae	41.80	1.0	legged	male	mean
Anolis intermedius	Sauria	Iguania	Polychrotidae	45.30	2.1	legged	female	mean
Anolis isthmicus	Sauria	Iguania	Polychrotidae	63.00	3.7	legged	male	heaviest
Anolis krugi	Sauria	Iguania	Polychrotidae	45.70	2.1	legged	male	mean
Anolis lemurinus	Sauria	Iguania	Polychrotidae	63.85	5.5	legged	female	mean

Anolis limifrons	Sauria	Iguania	Polychrotidae	37.01	1.8	legged	unsexed	mean
Anolis lineatopus	Sauria	Iguania	Polychrotidae	59.20	4.9	legged	male	mean
Anolis lividus	Sauria	Iguania	Polychrotidae	70.00	9.0	legged	male	heaviest
Anolis longitibialis	Sauria	Iguania	Polychrotidae	69.80	9.1	legged	male	mean
Anolis maculiventris	Sauria	Iguania	Polychrotidae	44.50	1.6	legged	unsexed	mean
Anolis meridionalis	Sauria	Iguania	Polychrotidae	48.00	2.4	legged	male	mean
Anolis microlepidotus	Sauria	Iguania	Polychrotidae	43.30	2.2	legged	female	mean
Anolis nebulosus	Sauria	Iguania	Polychrotidae	42.20	1.5	legged	male	mean
Anolis nigrolineatus	Sauria	Iguania	Polychrotidae	50.95	2.0	legged	male	mean
Anolis occultus	Sauria	Iguania	Polychrotidae	37.70	0.6	legged	male	mean
Anolis oculatus	Sauria	Iguania	Polychrotidae	98.00	11.0	legged	male	heaviest
Anolis olssoni	Sauria	Iguania	Polychrotidae	45.65	1.6	legged	male	mean
Anolis onca	Sauria	Iguania	Polychrotidae	67.00	7.5	legged	female	heaviest
Anolis opalinus	Sauria	Iguania	Polychrotidae	47.98	2.2	legged	male	mean
Anolis ortonii	Sauria	Iguania	Polychrotidae	43.97	2.1	legged	unsexed	mean
Anolis oxylophus	Sauria	Iguania	Polychrotidae	69.00	5.0	legged	male	mean
Anolis parvicirculatus	Sauria	Iguania	Polychrotidae	50.00	2.5	legged	female	heaviest
Anolis peraccae	Sauria	Iguania	Polychrotidae	49.95	1.8	legged	male	mean
Anolis phyllorhinus	Sauria	Iguania	Polychrotidae	81.38	11.0	legged	male	mean
Anolis placidus	Sauria	Iguania	Polychrotidae	43.50	1.1	legged	female	mean
Anolis polylepis	Sauria	Iguania	Polychrotidae	50.46	3.0	legged	male	mean
Anolis poncensis	Sauria	Iguania	Polychrotidae	43.55	1.7	legged	male	mean
Anolis princeps	Sauria	Iguania	Polychrotidae	117.00	22.9	legged	male	mean
Anolis pulchellus	Sauria	Iguania	Polychrotidae	45.35	1.6	legged	male	mean
Anolis punctatus	Sauria	Iguania	Polychrotidae	77.90	8.9	legged	unsexed	mean
Anolis quercorum	Sauria	Iguania	Polychrotidae	40.00	1.5	legged	male	mean
Anolis richardii	Sauria	Iguania	Polychrotidae	137.00	45.0	legged	unsexed	heaviest
Anolis rodriguezi	Sauria	Iguania	Polychrotidae	37.50	1.0	legged	unsexed	mean
Anolis roquet	Sauria	Iguania	Polychrotidae	53.00	1.7	legged	unsexed	mean
Anolis sagrei	Sauria	Iguania	Polychrotidae	54.13	5.1	legged	male	mean
Anolis semilineatus	Sauria	Iguania	Polychrotidae	41.25	1.5	legged	male	mean
Anolis sericeus	Sauria	Iguania	Polychrotidae	42.84	1.6	legged	male	mean
Anolis singularis	Sauria	Iguania	Polychrotidae	52.00	2.2	legged	male	heaviest
Anolis stratulus	Sauria	Iguania	Polychrotidae	44.90	1.9	legged	male	mean
Anolis subocularis	Sauria	Iguania	Polychrotidae	51.50	2.8	legged	male	mean
Anolis taylori	Sauria	Iguania	Polychrotidae	72.90	6.4	legged	male	mean
Anolis trachyderma	Sauria	Iguania	Polychrotidae	53.10	3.2	legged	female	mean
Anolis transversalis	Sauria	Iguania	Polychrotidae	76.50	6.1	legged	male	mean
Anolis tropidolepis	Sauria	Iguania	Polychrotidae	51.20	3.5	legged	male	mean
Anolis tropidonotus	Sauria	Iguania	Polychrotidae	65.00	3.0	legged	unsexed	heaviest
Anolis uniformis	Sauria	Iguania	Polychrotidae	33.50	1.0	legged	unsexed	mean
Anolis valencienni	Sauria	Iguania	Polychrotidae	65.60	6.2	legged	male	mean
Enyalius leechii	Sauria	Iguania	Polychrotidae	104.40	45.2	legged	female	mean
Polychrus acutirostris	Sauria	Iguania	Polychrotidae	125.10	27.9	legged	female	mean
Polychrus marmoratus	Sauria	Iguania	Polychrotidae	127.47	27.7	legged	unsexed	mean
Pristidactylus achalensis	Sauria	Iguania	Polychrotidae	120.00	45.0	legged	male	heaviest
Aprasia repens	Sauria	Gekkota	Pygopodidae	126.00	4.0	Limbless	unsexed	heaviest
Delma butleri	Sauria	Gekkota	Pygopodidae	83.10	3.8	Limbless	unsexed	mean
Delma impar	Sauria	Gekkota	Pygopodidae	100.00	7.0	Limbless	unsexed	heaviest
Lialis burtonis	Sauria	Gekkota	Pygopodidae	233.63	15.5	Limbless	unsexed	mean
Pygopus nigriceps	Sauria	Gekkota	Pygopodidae	171.40	14.1	Limbless	unsexed	mean
Ablepharus kitaibelii	Sauria	Scincimorpha	Scincidae	32.65	0.6	legged	unsexed	mean
Acontias meleagris	Sauria	Scincimorpha	Scincidae	195.45	7.3	Limbless	unsexed	mean
Afroablepharus wahlbergi	Sauria	Scincimorpha	Scincidae	43.22	0.8	legged	female	mean
Asymblepharus sikimmensis	Sauria	Scincimorpha	Scincidae	39.10	1.6	legged	unsexed	mean
Bartleia jigurru	Sauria	Scincimorpha	Scincidae	74.32	5.6	legged	female	mean
Bassiana duperreyi	Sauria	Scincimorpha	Scincidae	58.10	2.9	legged	male	mean
Bellatorias major	Sauria	Scincimorpha	Scincidae	274.40	700.7	legged	male	mean
Caledoniscincus austrocaledonicus	Sauria	Scincimorpha	Scincidae	57.00	2.0	legged	unsexed	heaviest
Carlia fusca	Sauria	Scincimorpha	Scincidae	50.75	3.5	legged	male	mean
Carlia jarnoldae	Sauria	Scincimorpha	Scincidae	42.74	1.7	legged	female	mean
Carlia longipes	Sauria	Scincimorpha	Scincidae	65.09	5.7	legged	male	mean
Carlia mundivensis	Sauria	Scincimorpha	Scincidae	55.50	4.3	legged	male	mean
Carlia pectoralis	Sauria	Scincimorpha	Scincidae	44.45	1.9	legged	male	mean
Carlia rhomboidalis	Sauria	Scincimorpha	Scincidae	48.85	2.5	legged	male	mean
Carlia rostralis	Sauria	Scincimorpha	Scincidae	59.89	5.5	legged	male	mean
Carlia rubrigularis	Sauria	Scincimorpha	Scincidae	51.79	3.5	legged	male	mean
Carlia scirtetis	Sauria	Scincimorpha	Scincidae	66.27	5.4	legged	female	mean
Carlia storri	Sauria	Scincimorpha	Scincidae	43.10	1.7	legged	female	mean
Carlia vivax	Sauria	Scincimorpha	Scincidae	46.10	1.7	legged	female	mean
Chalcides bedriagai	Sauria	Scincimorpha	Scincidae	82.69	7.0	legged	female	mean
Chalcides chalcides	Sauria	Scincimorpha	Scincidae	210.00	18.8	reduced	unsexed	heaviest
Chalcides guentheri	Sauria	Scincimorpha	Scincidae	165.00	13.6	Limbless	unsexed	heaviest
Chalcides mionecton	Sauria	Scincimorpha	Scincidae	84.83	4.3	reduced	unsexed	mean
Chalcides ocellatus	Sauria	Scincimorpha	Scincidae	112.44	25.0	legged	unsexed	mean
Chalcides sepsoides	Sauria	Scincimorpha	Scincidae	98.50	15.6	reduced	unsexed	mean
Chalcides sexlineatus	Sauria	Scincimorpha	Scincidae	67.23	7.8	legged	unsexed	mean
Chalcides striatus	Sauria	Scincimorpha	Scincidae	98.99	7.2	reduced	male	mean
Corucia zebrata	Sauria	Scincimorpha	Scincidae	317.00	1013.7	legged	unsexed	heaviest
Cryptoblepharus boutonii	Sauria	Scincimorpha	Scincidae	38.50	1.7	legged	unsexed	mean

Cryptoblepharus litoralis	Sauria	Scincimorpha	Scincidae	42.48	1.1	legged	male	mean
Cryptoblepharus plagiocephalus	Sauria	Scincimorpha	Scincidae	39.30	1.0	legged	unsexed	mean
Cryptoblepharus virgatus	Sauria	Scincimorpha	Scincidae	38.40	0.6	legged	female	mean
Ctenotus ariadnae	Sauria	Scincimorpha	Scincidae	56.45	2.5	legged	unsexed	mean
Ctenotus australis	Sauria	Scincimorpha	Scincidae	110.00	20.3	legged	unsexed	heaviest
Ctenotus brachyonyx	Sauria	Scincimorpha	Scincidae	83.00	13.0	legged	unsexed	heaviest
Ctenotus brooksi	Sauria	Scincimorpha	Scincidae	46.20	1.2	legged	unsexed	mean
Ctenotus calurus	Sauria	Scincimorpha	Scincidae	50.00	1.5	legged	unsexed	heaviest
Ctenotus colletti	Sauria	Scincimorpha	Scincidae	41.75	1.1	legged	unsexed	mean
Ctenotus dux	Sauria	Scincimorpha	Scincidae	57.00	2.1	legged	unsexed	mean
Ctenotus fallens	Sauria	Scincimorpha	Scincidae	87.15	14.7	legged	unsexed	mean
Ctenotus grandis	Sauria	Scincimorpha	Scincidae	91.85	14.1	legged	unsexed	mean
Ctenotus helenae	Sauria	Scincimorpha	Scincidae	85.25	12.0	legged	unsexed	mean
Ctenotus labillardieri	Sauria	Scincimorpha	Scincidae	76.00	3.5	legged	unsexed	heaviest
Ctenotus leae	Sauria	Scincimorpha	Scincidae	55.00	3.3	legged	unsexed	mean
Ctenotus leonhardii	Sauria	Scincimorpha	Scincidae	66.10	4.9	legged	unsexed	mean
Ctenotus pantherinus	Sauria	Scincimorpha	Scincidae	82.70	13.2	legged	unsexed	mean
Ctenotus piankai	Sauria	Scincimorpha	Scincidae	49.85	1.5	legged	unsexed	mean
Ctenotus quattuordecimlineatus	Sauria	Scincimorpha	Scincidae	62.00	4.2	legged	unsexed	mean
Ctenotus regius	Sauria	Scincimorpha	Scincidae	67.50	5.1	legged	unsexed	mean
Ctenotus schomburgkii	Sauria	Scincimorpha	Scincidae	46.10	1.7	legged	unsexed	mean
Ctenotus taeniolatus	Sauria	Scincimorpha	Scincidae	68.50	4.5	legged	unsexed	mean
Ctenotus uber	Sauria	Scincimorpha	Scincidae	72.00	10.0	legged	unsexed	mean
Cyclodina aenea	Sauria	Scincimorpha	Scincidae	49.99	2.5	legged	unsexed	mean
Cyclodina lichenigera	Sauria	Scincimorpha	Scincidae	71.80	4.9	legged	unsexed	mean
Cyclodina macgregori	Sauria	Scincimorpha	Scincidae	112.00	27.8	legged	unsexed	heaviest
Cyclodina ornata	Sauria	Scincimorpha	Scincidae	70.20	8.1	legged	unsexed	mean
Cyclodina whitakeri	Sauria	Scincimorpha	Scincidae	100.00	24.9	legged	unsexed	heaviest
Egernia cunninghami	Sauria	Scincimorpha	Scincidae	220.00	240.0	legged	unsexed	mean
Egernia depressa	Sauria	Scincimorpha	Scincidae	117.00	20.0	legged	unsexed	heaviest
Egernia kingii	Sauria	Scincimorpha	Scincidae	215.00	291.0	legged	male	heaviest
Egernia stokesii	Sauria	Scincimorpha	Scincidae	181.25	248.0	legged	female	mean
Egernia striolata	Sauria	Scincimorpha	Scincidae	107.00	45.2	legged	female	mean
Emoia atrocostata	Sauria	Scincimorpha	Scincidae	100.00	22.0	legged	male	heaviest
Emoia caeruleocauda	Sauria	Scincimorpha	Scincidae	65.00	2.4	legged	unsexed	heaviest
Emoia cyanura	Sauria	Scincimorpha	Scincidae	46.40	2.3	legged	female	mean
Emoia lawesi	Sauria	Scincimorpha	Scincidae	92.35	18.1	legged	female	mean
Emoia nigra	Sauria	Scincimorpha	Scincidae	101.85	28.7	legged	female	mean
Emoia samoensis	Sauria	Scincimorpha	Scincidae	100.00	22.8	legged	female	mean
Eremiascincus fasciolatus	Sauria	Scincimorpha	Scincidae	84.70	12.5	legged	unsexed	mean
Eremiascincus richardsonii	Sauria	Scincimorpha	Scincidae	87.20	9.0	legged	unsexed	mean
Eulamprus brachyosoma	Sauria	Scincimorpha	Scincidae	70.40	6.9	legged	female	mean
Eulamprus kosciuskoi	Sauria	Scincimorpha	Scincidae	82.50	8.3	legged	unsexed	mean
Eulamprus quoyii	Sauria	Scincimorpha	Scincidae	104.80	27.9	legged	male	mean
Eulamprus sokosoma	Sauria	Scincimorpha	Scincidae	51.00	3.0	legged	male	heaviest
Eulamprus tympanum	Sauria	Scincimorpha	Scincidae	89.70	17.2	legged	female	mean
Eumeces algeriensis	Sauria	Scincimorpha	Scincidae	210.00	243.8	legged	unsexed	heaviest
Eumeces schneideri	Sauria	Scincimorpha	Scincidae	143.89	85.4	legged	female	mean
Eutropis carinata	Sauria	Scincimorpha	Scincidae	99.50	47.9	legged	unsexed	mean
Eutropis longicaudata	Sauria	Scincimorpha	Scincidae	114.35	46.8	legged	male	mean
Eutropis multifasciata	Sauria	Scincimorpha	Scincidae	97.45	24.5	legged	female	mean
Hemiergis decresiensis	Sauria	Scincimorpha	Scincidae	51.05	1.6	reduced	unsexed	mean
Hemiergis initialis	Sauria	Scincimorpha	Scincidae	50.00	1.5	reduced	unsexed	heaviest
Hemiergis peronii	Sauria	Scincimorpha	Scincidae	64.25	3.8	reduced	unsexed	mean
Hemiergis quadrilineatum	Sauria	Scincimorpha	Scincidae	75.00	3.0	reduced	unsexed	heaviest
Lampropholis coggeri	Sauria	Scincimorpha	Scincidae	36.81	1.0	legged	female	mean
Lampropholis delicata	Sauria	Scincimorpha	Scincidae	40.00	1.2	legged	female	mean
Lampropholis guichenoti	Sauria	Scincimorpha	Scincidae	40.45	1.1	legged	female	mean
Lampropholis mirabilis	Sauria	Scincimorpha	Scincidae	47.24	1.9	legged	male	mean
Lampropholis robertsi	Sauria	Scincimorpha	Scincidae	46.97	2.1	legged	male	mean
Lerista bipes	Sauria	Scincimorpha	Scincidae	54.45	1.0	reduced	unsexed	mean
Lerista bougainvillii	Sauria	Scincimorpha	Scincidae	57.75	1.6	legged	female	mean
Lerista connivens	Sauria	Scincimorpha	Scincidae	78.65	6.8	reduced	unsexed	mean
Lerista desertorum	Sauria	Scincimorpha	Scincidae	86.05	3.2	reduced	unsexed	mean
Lerista elegans	Sauria	Scincimorpha	Scincidae	41.50	0.3	reduced	unsexed	mean
Lerista lineopunctulata	Sauria	Scincimorpha	Scincidae	99.85	10.9	reduced	unsexed	mean
Lerista macropisthopus	Sauria	Scincimorpha	Scincidae	90.60	6.5	reduced	unsexed	mean
Lerista muelleri	Sauria	Scincimorpha	Scincidae	45.10	0.6	reduced	unsexed	mean
Lerista punctatovittata	Sauria	Scincimorpha	Scincidae	100.00	4.4	reduced	unsexed	mean
Lerista xanthura	Sauria	Scincimorpha	Scincidae	42.50	0.8	reduced	unsexed	mean
Liopholis inornata	Sauria	Scincimorpha	Scincidae	74.65	11.1	legged	unsexed	mean
Liopholis pulchra	Sauria	Scincimorpha	Scincidae	110.00	18.0	legged	unsexed	heaviest
Liopholis striata	Sauria	Scincimorpha	Scincidae	97.65	19.8	legged	unsexed	mean
Liopholis whitii	Sauria	Scincimorpha	Scincidae	91.33	25.1	legged	unsexed	mean
Lipinia leptosoma	Sauria	Scincimorpha	Scincidae	44.00	1.3	legged	unsexed	heaviest
Lygisaurus laevis	Sauria	Scincimorpha	Scincidae	35.21	0.7	legged	male	mean
Lygisaurus rococo	Sauria	Scincimorpha	Scincidae	39.77	1.1	legged	male	mean
Mabuya agilis	Sauria	Scincimorpha	Scincidae	68.45	6.6	legged	female	mean
Mabuya bistriata	Sauria	Scincimorpha	Scincidae	92.65	18.1	legged	female	mean
Mabuya carvalhoi	Sauria	Scincimorpha	Scincidae	63.00	4.2	legged	unsexed	heaviest

Mabuya frenata	Sauria	Scincimorpha	Scincidae	72.95	7.8	legged	female	mean
Mabuya heathi	Sauria	Scincimorpha	Scincidae	73.15	9.2	legged	female	mean
Mabuya mabouya	Sauria	Scincimorpha	Scincidae	116.00	21.5	legged	female	heaviest
Mabuya macrorhyncha	Sauria	Scincimorpha	Scincidae	64.40	5.4	legged	male	mean
Mabuya nigropunctata	Sauria	Scincimorpha	Scincidae	92.50	19.6	legged	male	mean
Mabuya seychellensis	Sauria	Scincimorpha	Scincidae	83.00	15.7	legged	female	mean
Mabuya wrightii	Sauria	Scincimorpha	Scincidae	118.00	71.5	legged	unsexed	mean
Menetia greyii	Sauria	Scincimorpha	Scincidae	29.40	0.4	legged	unsexed	mean
Morethia boulengeri	Sauria	Scincimorpha	Scincidae	46.50	1.5	legged	unsexed	mean
Morethia butleri	Sauria	Scincimorpha	Scincidae	49.55	1.6	legged	unsexed	mean
Morethia lineoocellata	Sauria	Scincimorpha	Scincidae	47.00	1.0	legged	unsexed	mean
Morethia obscura	Sauria	Scincimorpha	Scincidae	55.00	6.0	legged	unsexed	heaviest
Niveoscincus coventryi	Sauria	Scincimorpha	Scincidae	32.90	0.9	legged	male	mean
Niveoscincus metallicus	Sauria	Scincimorpha	Scincidae	63.00	3.3	legged	unsexed	heaviest
Niveoscincus microlepidotus	Sauria	Scincimorpha	Scincidae	60.05	3.9	legged	male	mean
Niveoscincus ocellatus	Sauria	Scincimorpha	Scincidae	85.00	12.0	legged	unsexed	heaviest
Oligosoma fallai	Sauria	Scincimorpha	Scincidae	118.80	39.9	legged	unsexed	mean
Oligosoma grande	Sauria	Scincimorpha	Scincidae	95.05	19.4	legged	female	mean
Oligosoma nigriplantare	Sauria	Scincimorpha	Scincidae	54.08	3.3	legged	unsexed	mean
Oligosoma otagense	Sauria	Scincimorpha	Scincidae	133.00	46.0	legged	unsexed	heaviest
Oligosoma pikitanga	Sauria	Scincimorpha	Scincidae	90.00	15.0	legged	male	heaviest
Oligosoma smithi	Sauria	Scincimorpha	Scincidae	54.40	3.9	legged	unsexed	mean
Oligosoma suteri	Sauria	Scincimorpha	Scincidae	88.30	19.8	legged	male	mean
Oligosoma taumakae	Sauria	Scincimorpha	Scincidae	92.00	20.0	legged	unsexed	heaviest
Oligosoma zelandicum	Sauria	Scincimorpha	Scincidae	64.00	5.1	legged	unsexed	mean
Ophiomorus latastii	Sauria	Scincimorpha	Scincidae	96.44	2.7	Limbless	unsexed	mean
Ophiomorus tridactylus	Sauria	Scincimorpha	Scincidae	96.00	6.5	reduced	unsexed	heaviest
Pamelaescincus gardineri	Sauria	Scincimorpha	Scincidae	80.00	13.6	legged	male	mean
Panaspis maculicollis	Sauria	Scincimorpha	Scincidae	36.31	0.6	legged	female	mean
Plestiodon elegans	Sauria	Scincimorpha	Scincidae	84.30	11.4	legged	unsexed	mean
Plestiodon fasciatus	Sauria	Scincimorpha	Scincidae	67.90	6.9	legged	female	mean
Plestiodon gilberti	Sauria	Scincimorpha	Scincidae	82.05	20.0	legged	unsexed	mean
Plestiodon inexpectatus	Sauria	Scincimorpha	Scincidae	73.65	9.8	legged	male	mean
Plestiodon laticeps	Sauria	Scincimorpha	Scincidae	109.70	38.0	legged	male	mean
Plestiodon obsoletus	Sauria	Scincimorpha	Scincidae	101.35	30.0	legged	unsexed	mean
Plestiodon okadae	Sauria	Scincimorpha	Scincidae	88.00	11.0	legged	female	heaviest
Plestiodon reynoldsi	Sauria	Scincimorpha	Scincidae	55.50	1.3	legged	female	mean
Plestiodon skiltonianus	Sauria	Scincimorpha	Scincidae	63.30	4.9	legged	unsexed	mean
Plestiodon tetragrammus	Sauria	Scincimorpha	Scincidae	76.00	6.3	legged	unsexed	heaviest
Prasinohaema virens	Sauria	Scincimorpha	Scincidae	52.50	3.1	legged	unsexed	mean
Pseudemoia entrecasteauxii	Sauria	Scincimorpha	Scincidae	55.20	4.0	legged	unsexed	mean
Pseudemoia pagenstecheri	Sauria	Scincimorpha	Scincidae	56.20	3.5	legged	female	mean
Scelotes gronovii	Sauria	Scincimorpha	Scincidae	68.20	1.1	reduced	unsexed	mean
Scincella lateralis	Sauria	Scincimorpha	Scincidae	42.70	1.5	legged	male	mean
Scincopus fasciatus	Sauria	Scincimorpha	Scincidae	150.00	84.3	legged	unsexed	heaviest
Scincus hemprichii	Sauria	Scincimorpha	Scincidae	140.00	80.0	legged	male	heaviest
Scincus mitranus	Sauria	Scincimorpha	Scincidae	126.00	29.0	legged	male	mean
Scincus scincus	Sauria	Scincimorpha	Scincidae	118.04	23.3	legged	unsexed	mean
Sphenomorphus cherriei	Sauria	Scincimorpha	Scincidae	52.80	2.7	legged	female	mean
Sphenomorphus indicus	Sauria	Scincimorpha	Scincidae	78.84	17.0	legged	female	mean
Sphenomorphus maculatus	Sauria	Scincimorpha	Scincidae	50.10	3.5	legged	unsexed	mean
Sphenomorphus meyeri	Sauria	Scincimorpha	Scincidae	127.00	47.7	legged	unsexed	mean
Sphenomorphus taiwanensis	Sauria	Scincimorpha	Scincidae	53.05	3.3	legged	female	mean
Tiliqua adelaidensis	Sauria	Scincimorpha	Scincidae	95.80	11.2	legged	female	mean
Tiliqua multifasciata	Sauria	Scincimorpha	Scincidae	266.50	204.0	legged	unsexed	mean
Tiliqua nigrolutea	Sauria	Scincimorpha	Scincidae	315.00	800.0	legged	female	heaviest
Tiliqua rugosa	Sauria	Scincimorpha	Scincidae	277.50	617.0	legged	unsexed	mean
Tiliqua scincoides	Sauria	Scincimorpha	Scincidae	306.50	499.8	legged	unsexed	mean
Trachylepis brevicollis	Sauria	Scincimorpha	Scincidae	132.33	70.0	legged	unsexed	mean
Trachylepis occidentalis	Sauria	Scincimorpha	Scincidae	79.70	12.0	legged	unsexed	mean
Trachylepis sparsa	Sauria	Scincimorpha	Scincidae	70.10	10.6	legged	unsexed	mean
Trachylepis spilogaster	Sauria	Scincimorpha	Scincidae	61.90	6.7	legged	unsexed	mean
Trachylepis striata	Sauria	Scincimorpha	Scincidae	76.50	19.5	legged	unsexed	mean
Trachylepis variegata	Sauria	Scincimorpha	Scincidae	57.00	4.1	legged	unsexed	heaviest
Trachylepis vittata	Sauria	Scincimorpha	Scincidae	76.56	9.3	legged	unsexed	mean
Tribolonotus novaeguineae	Sauria	Scincimorpha	Scincidae	94.33	24.6	legged	unsexed	mean
Tropidophorus noggei	Sauria	Scincimorpha	Scincidae	101.55	25.1	legged	female	mean
Typhlacontias brevipes	Sauria	Scincimorpha	Scincidae	113.00	1.7	Limbless	unsexed	heaviest
Ameiva ameiva	Sauria	Laterata	Teiidae	127.70	107.9	legged	male	mean
Ameiva exsul	Sauria	Laterata	Teiidae	93.77	6.2	legged	female	mean
Ameiva festiva	Sauria	Laterata	Teiidae	88.20	39.4	legged	male	mean
Ameiva plei	Sauria	Laterata	Teiidae	117.90	76.3	legged	male	mean
Ameiva quadrilineata	Sauria	Laterata	Teiidae	68.05	14.6	legged	male	mean
Ameiva undulata	Sauria	Laterata	Teiidae	87.25	19.4	legged	unsexed	mean
Ameiva wetmorei	Sauria	Laterata	Teiidae	45.83	1.7	legged	female	mean
Aspidoscelis arizonae	Sauria	Laterata	Teiidae	55.00	4.2	legged	unsexed	heaviest
Aspidoscelis burti	Sauria	Laterata	Teiidae	107.00	34.7	legged	male	mean
Aspidoscelis deppei	Sauria	Laterata	Teiidae	75.50	12.1	legged	male	mean
Aspidoscelis dixoni	Sauria	Laterata	Teiidae	87.70	18.3	legged	parthenoge	mean
Aspidoscelis exsanguis	Sauria	Laterata	Teiidae	80.60	15.5	legged	parthenoge	mean

Aspidoscelis gularis	Sauria	Laterata	Teiidae	72.70	13.7	legged	unsexed	mean
Aspidoscelis guttatus	Sauria	Laterata	Teiidae	92.65	22.4	legged	female	mean
Aspidoscelis hyperythrus	Sauria	Laterata	Teiidae	58.70	5.5	legged	male	mean
Aspidoscelis inornatus	Sauria	Laterata	Teiidae	54.80	5.1	legged	female	mean
Aspidoscelis marmoratus	Sauria	Laterata	Teiidae	105.00	18.8	legged	unsexed	heaviest
Aspidoscelis sexlineatus	Sauria	Laterata	Teiidae	67.35	6.7	legged	unsexed	mean
Aspidoscelis sonorae	Sauria	Laterata	Teiidae	81.35	12.3	legged	parthenoge	mean
Aspidoscelis tesselatus	Sauria	Laterata	Teiidae	74.20	15.6	legged	parthenoge	mean
Aspidoscelis tigris	Sauria	Laterata	Teiidae	78.75	15.5	legged	male	mean
Aspidoscelis uniparens	Sauria	Laterata	Teiidae	63.10	7.5	legged	parthenoge	mean
Callopistes flavipunctatus	Sauria	Laterata	Teiidae	290.00	530.0	legged	male	heaviest
Callopistes maculatus	Sauria	Laterata	Teiidae	142.33	77.4	legged	unsexed	mean
Cnemidophorus arubensis	Sauria	Laterata	Teiidae	78.60	10.8	legged	female	mean
Cnemidophorus cryptus	Sauria	Laterata	Teiidae	65.40	7.0	legged	parthenoge	mean
Cnemidophorus lemniscatus	Sauria	Laterata	Teiidae	64.20	8.7	legged	unsexed	mean
Cnemidophorus murinus	Sauria	Laterata	Teiidae	106.80	33.5	legged	male	mean
Cnemidophorus ocellifer	Sauria	Laterata	Teiidae	70.70	21.4	legged	unsexed	mean
Cnemidophorus vanzoi	Sauria	Laterata	Teiidae	99.00	30.1	legged	male	mean
Crocodilurus amazonicus	Sauria	Laterata	Teiidae	220.00	198.9	legged	unsexed	heaviest
Dicrodon heterolepis	Sauria	Laterata	Teiidae	116.00	46.8	legged	unsexed	heaviest
Dracaena guianensis	Sauria	Laterata	Teiidae	330.00	1500.0	legged	unsexed	heaviest
Kentropyx altamazonica	Sauria	Laterata	Teiidae	85.00	23.5	legged	female	mean
Kentropyx calcarata	Sauria	Laterata	Teiidae	100.80	31.8	legged	unsexed	mean
Kentropyx pelviceps	Sauria	Laterata	Teiidae	104.27	38.2	legged	unsexed	mean
Kentropyx striata	Sauria	Laterata	Teiidae	91.65	20.0	legged	unsexed	mean
Kentropyx vanzoi	Sauria	Laterata	Teiidae	53.10	3.9	legged	unsexed	mean
Teius teyou	Sauria	Laterata	Teiidae	117.55	46.8	legged	unsexed	mean
Tupinambis longilineus	Sauria	Laterata	Teiidae	196.00	251.6	legged	unsexed	mean
Tupinambis merianae	Sauria	Laterata	Teiidae	313.97	1118.0	legged	unsexed	mean
Tupinambis rufescens	Sauria	Laterata	Teiidae	500.00	4700.0	legged	male	heaviest
Tupinambis teguixin	Sauria	Laterata	Teiidae	362.15	2212.0	legged	male	mean
Diplometopon zarudnyi	Amphisbae	amphisbaenia_(Laterata)	Trogonophiidae	165.35	7.0	Limbless	unsexed	mean
Trogonophis wiegmanni	Amphisbae	amphisbaenia_(Laterata)	Trogonophiidae	142.00	5.7	Limbless	male	mean
Leiocephalus carinatus	Sauria	Iguania	Tropiduridae	130.00	30.0	legged	unsexed	heaviest
Liolaemus bellii	Sauria	Iguania	Tropiduridae	64.15	11.3	legged	unsexed	mean
Liolaemus chiliensis	Sauria	Iguania	Tropiduridae	80.75	13.0	legged	unsexed	mean
Liolaemus fabiani	Sauria	Iguania	Tropiduridae	70.29	9.0	legged	male	mean
Liolaemus fuscus	Sauria	Iguania	Tropiduridae	47.30	2.5	legged	unsexed	mean
Liolaemus gravenhorstii	Sauria	Iguania	Tropiduridae	47.00	4.2	legged	unsexed	heaviest
Liolaemus kuhlmanni	Sauria	Iguania	Tropiduridae	73.13	12.6	legged	male	mean
Liolaemus lemniscatus	Sauria	Iguania	Tropiduridae	47.20	2.5	legged	unsexed	mean
Liolaemus monticola	Sauria	Iguania	Tropiduridae	61.85	5.5	legged	unsexed	mean
Liolaemus nigroviridis	Sauria	Iguania	Tropiduridae	67.05	11.1	legged	unsexed	mean
Liolaemus nitidus	Sauria	Iguania	Tropiduridae	88.85	17.8	legged	unsexed	mean
Liolaemus tenuis	Sauria	Iguania	Tropiduridae	53.75	4.5	legged	unsexed	mean
Microlophus albemarlensis	Sauria	Iguania	Tropiduridae	125.00	43.7	legged	male	heaviest
Microlophus occipitalis	Sauria	Iguania	Tropiduridae	63.70	9.4	legged	male	mean
Phymaturus punae	Sauria	Iguania	Tropiduridae	97.28	34.4	legged	male	mean
Phymaturus tenebrosus	Sauria	Iguania	Tropiduridae	98.28	31.4	legged	female	mean
Phymaturus zapalensis	Sauria	Iguania	Tropiduridae	82.36	24.8	legged	male	mean
Plica plica	Sauria	Iguania	Tropiduridae	109.15	79.4	legged	male	mean
Plica umbra	Sauria	Iguania	Tropiduridae	85.00	20.2	legged	female	mean
Stenocercus caducus	Sauria	Iguania	Tropiduridae	77.04	14.3	legged	female	mean
Stenocercus roseiventris	Sauria	Iguania	Tropiduridae	85.00	21.6	legged	unsexed	mean
Strobilurus torquatus	Sauria	Iguania	Tropiduridae	101.00	39.0	legged	male	heaviest
Tropidurus etheridgei	Sauria	Iguania	Tropiduridae	68.94	22.5	legged	unsexed	mean
Tropidurus hispidus	Sauria	Iguania	Tropiduridae	96.80	30.6	legged	male	mean
Tropidurus itambere	Sauria	Iguania	Tropiduridae	68.92	9.3	legged	male	mean
Tropidurus montanus	Sauria	Iguania	Tropiduridae	64.23	10.5	legged	unsexed	mean
Tropidurus oreadicus	Sauria	Iguania	Tropiduridae	90.44	15.8	legged	male	mean
Tropidurus psammonastes	Sauria	Iguania	Tropiduridae	94.90	15.0	legged	unsexed	mean
Tropidurus semitaeniatus	Sauria	Iguania	Tropiduridae	82.50	16.5	legged	male	mean
Tropidurus spinulosus	Sauria	Iguania	Tropiduridae	86.38	15.4	legged	unsexed	mean
Uracentron flaviceps	Sauria	Iguania	Tropiduridae	107.30	38.8	legged	male	mean
Uranoscodon superciliosus	Sauria	Iguania	Tropiduridae	108.93	49.9	legged	unsexed	mean
Varanus acanthurus	Sauria	Anguimorpha	Varanidae	193.75	132.7	legged	unsexed	mean
Varanus albigularis	Sauria	Anguimorpha	Varanidae	563.00	8000.0	legged	male	heaviest
Varanus baritji	Sauria	Anguimorpha	Varanidae	252.00	180.0	legged	unsexed	heaviest
Varanus bengalensis	Sauria	Anguimorpha	Varanidae	610.00	4940.0	legged	male	mean
Varanus brevicauda	Sauria	Anguimorpha	Varanidae	98.10	14.9	legged	unsexed	mean
Varanus caudolineatus	Sauria	Anguimorpha	Varanidae	103.40	14.3	legged	unsexed	mean
Varanus cumingi	Sauria	Anguimorpha	Varanidae	422.00	1383.0	legged	unsexed	mean
Varanus dumerilii	Sauria	Anguimorpha	Varanidae	346.00	988.0	legged	unsexed	mean
Varanus eremius	Sauria	Anguimorpha	Varanidae	138.50	40.1	legged	unsexed	mean
Varanus exanthematicus	Sauria	Anguimorpha	Varanidae	344.75	709.0	legged	unsexed	mean
Varanus flavescens	Sauria	Anguimorpha	Varanidae	315.05	768.5	legged	unsexed	mean
Varanus giganteus	Sauria	Anguimorpha	Varanidae	584.10	5333.4	legged	unsexed	mean
Varanus gilleni	Sauria	Anguimorpha	Varanidae	127.65	65.0	legged	male	mean
Varanus glauerti	Sauria	Anguimorpha	Varanidae	179.15	95.0	legged	female	mean
Varanus glebopalma	Sauria	Anguimorpha	Varanidae	276.50	400.0	legged	unsexed	mean

Varanus gouldii	Sauria	Anguimorpha	Varanidae	385.15	821.1	legged	unsexed	mean
Varanus griseus	Sauria	Anguimorpha	Varanidae	429.70	1221.5	legged	male	mean
Varanus indicus	Sauria	Anguimorpha	Varanidae	421.00	1287.0	legged	male	mean
Varanus jobiensis	Sauria	Anguimorpha	Varanidae	450.00	1300.0	legged	unsexed	heaviest
Varanus keithhornei	Sauria	Anguimorpha	Varanidae	250.00	230.0	legged	unsexed	mean
Varanus kingorum	Sauria	Anguimorpha	Varanidae	97.95	18.3	legged	unsexed	mean
Varanus komodoensis	Sauria	Anguimorpha	Varanidae	872.50	37140.0	legged	unsexed	mean
Varanus mabitang	Sauria	Anguimorpha	Varanidae	640.00	5750.0	legged	unsexed	heaviest
Varanus marmoratus	Sauria	Anguimorpha	Varanidae	479.00	2075.5	legged	male	mean
Varanus mertensi	Sauria	Anguimorpha	Varanidae	365.15	1121.2	legged	unsexed	mean
Varanus mitchelli	Sauria	Anguimorpha	Varanidae	211.65	151.3	legged	unsexed	mean
Varanus niloticus	Sauria	Anguimorpha	Varanidae	537.50	2890.0	legged	female	mean
Varanus nuchalis	Sauria	Anguimorpha	Varanidae	302.50	1120.0	legged	unsexed	mean
Varanus olivaceus	Sauria	Anguimorpha	Varanidae	654.30	5420.0	legged	male	mean
Varanus ornatus	Sauria	Anguimorpha	Varanidae	925.00	7500.0	legged	unsexed	heaviest
Varanus panoptes	Sauria	Anguimorpha	Varanidae	423.50	2317.0	legged	unsexed	mean
Varanus pilbarensis	Sauria	Anguimorpha	Varanidae	131.25	30.3	legged	unsexed	mean
Varanus prasinus	Sauria	Anguimorpha	Varanidae	310.00	237.5	legged	unsexed	heaviest
Varanus primordius	Sauria	Anguimorpha	Varanidae	120.00	32.8	legged	unsexed	heaviest
Varanus rosenbergi	Sauria	Anguimorpha	Varanidae	381.60	1109.0	legged	unsexed	mean
Varanus rudicollis	Sauria	Anguimorpha	Varanidae	336.00	345.0	legged	unsexed	mean
Varanus salvadorii	Sauria	Anguimorpha	Varanidae	745.00	13000.0	legged	unsexed	heaviest
Varanus salvator	Sauria	Anguimorpha	Varanidae	571.00	4345.0	legged	unsexed	mean
Varanus scalaris	Sauria	Anguimorpha	Varanidae	205.18	103.4	legged	male	mean
Varanus semiremex	Sauria	Anguimorpha	Varanidae	282.00	622.0	legged	unsexed	heaviest
Varanus spenceri	Sauria	Anguimorpha	Varanidae	500.00	6000.0	legged	male	heaviest
Varanus storri	Sauria	Anguimorpha	Varanidae	116.20	26.9	legged	unsexed	mean
Varanus timorensis	Sauria	Anguimorpha	Varanidae	285.00	290.0	legged	unsexed	heaviest
Varanus tristis	Sauria	Anguimorpha	Varanidae	231.10	174.2	legged	unsexed	mean
Varanus varius	Sauria	Anguimorpha	Varanidae	570.00	6343.0	legged	unsexed	mean
Lepidophyma flavimaculatum	Sauria	Scincimorpha	Xantusiidae	82.40	11.3	legged	unsexed	mean
Lepidophyma gaigeae	Sauria	Scincimorpha	Xantusiidae	66.00	5.0	legged	unsexed	heaviest
Lepidophyma smithii	Sauria	Scincimorpha	Xantusiidae	112.00	25.0	legged	unsexed	heaviest
Lepidophyma sylvaticum	Sauria	Scincimorpha	Xantusiidae	75.00	8.3	legged	male	mean
Xantusia henshawi	Sauria	Scincimorpha	Xantusiidae	61.67	3.2	legged	unsexed	mean
Xantusia riversiana	Sauria	Scincimorpha	Xantusiidae	83.18	17.3	legged	female	mean
Xantusia vigilis	Sauria	Scincimorpha	Xantusiidae	40.95	1.5	legged	unsexed	mean
Shinisaurus crocodilurus	Sauria	Anguimorpha	Xenosauridae	160.50	150.0	legged	unsexed	heaviest
Xenosaurus platyceps	Sauria	Anguimorpha	Xenosauridae	104.50	19.6	legged	unsexed	mean
Xenosaurus rectocollaris	Sauria	Anguimorpha	Xenosauridae	108.00	31.0	legged	unsexed	heaviest

Appendix 2 – a composite phylogeny of the lizard and amphisbaenian species used in this study.

The phylogeny in Newick format
A complete list of references is available, upon request, from the author.

((((((Aprasia_repens:2,Pygopus_nigriceps:2):1,Lialis_burtonis:3):1,(Delma_butle
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incus_gardineri:12,Lipinia_leptosoma:12,Bassiana_duperreyi:12,Bartleia_jigurru:1
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a_fusca:1,Carlia_longipes:1):1,Carlia_storri:2):3):1,Carlia_jarnoldae:6):1,(Carl
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ampropholis_delicata:1,Lampropholis_guichenoti:1,Lampropholis_mirabilis:1,Lampro
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ides_sepsoides:3,Chalcides_bedriagai:3):4,((Chalcides_sexlineatus:4,Chalcides_mi
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eoscincus_ocellatus:1):1,Niveoscincus_metallicus:2):1,Niveoscincus_coventryi:3):
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ae:1,Ctenotus_leonhardii:1,Ctenotus_pantherinus:1,Ctenotus_piankai:1,Ctenotus_qu
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rhosaurus_major:6):1,(((Zonosaurus_maximus:1,Zonosaurus_quadrilineatus:1):1,Zono
saurus_madagascariensis:2):1,Tracheloptychus_petersi:3):4):2):1):4):12):1);