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No evidence for the “rate-of-living” theory across the tetrapod tree of life

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Appendix S4 - PGLS Analysis.R	

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1 **No evidence for the “rate-of-living” theory across the tetrapod**
2 **tree of life**

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Abstract

Aim The “rate-of-living” predicts that life expectancy is a negative function of the rates at which organisms metabolise. According to this theory, factors that accelerate metabolic rates, such as high body temperature and active foraging, lead to organismic ‘wear-out’. This process reduces lifespan through an accumulation of biochemical errors and the build-up of toxic metabolic by-products. Although the rate-of-living theory is a keystone underlying our understanding of life history trade-offs, its validity has been recently questioned. The rate-of-living theory has never been tested on global-scale in a phylogenetic framework, and across both endotherms and ectotherms. Here, we test several of its fundamental predictions across the tetrapod tree of life.

Location Global.

Time period: Present.

Major taxa studied Land vertebrates.

Methods Using a dataset spanning the life span data of 4,100 land vertebrate species (2214 endotherms, 1886 ectotherms), we performed the most comprehensive test to date of the fundamental predictions underlying the rate-of-living theory. We investigated how metabolic rates, and a range of factors generally perceived to be strongly associated with them, relate to longevity.

Results Our findings did not support the predictions of the rate-of-living theory. Basal and field metabolic rates, seasonality; and activity times, as well as reptile body temperatures and foraging ecology, were found to be unrelated to longevity. In contrast, lower longevity across ectotherm species was associated with high environmental temperatures.

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41 **Main conclusions** We conclude that the rate-of-living theory does not
42 hold true for terrestrial vertebrates, and suggest that life expectancy is driven by
43 selection arising from extrinsic mortality factors. A simple link between
44 metabolic rates, oxidative damage and lifespan is not supported. Importantly,
45 our findings highlight the potential for rapid warming, resulting from the current
46 increase in global temperatures, to drive accelerated rates of senescence in
47 ectotherms.

48 **Keywords:** basal metabolic rate, body size, body temperature,
49 environmental temperature, field metabolic rate, longevity, the rate-of-living
50 theory

51

52 Introduction

53 “The flame that burns twice as bright burns half as long”

54 “The light that burns twice as bright burns half as long”

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57 The quotes above, ascribed to Lau Tze (Laozi); and from “Blade Runner”,
 58 respectively, are thought to convey a universal truth: we have a semi-fixed
 59 capacity to do things, and we can either get through them intensively and quickly
 60 – or relaxedly but over a longer time. A fundamental principle of life history
 61 theory predicts that increased energy expenditure reduces life expectancy
 62 (Rubner, 1908; Pearl, 1928; Finkel and Holbrook, 2000; Van Voorhies, Khazaeli
 63 and Curtsinger, 2003; Hulbert, Pamplona, Buffenstein and Buttemer, 2007;
 64 Magalhães, Costa and Church, 2007; Furness and Speakman, 2008; Glazier,
 65 2015). The mechanistic explanation for this relationship stems from the
 66 assumption that higher metabolic rates increase the production of free radicals
 67 and other oxidants produced during aerobic respiration. These, in turn, trigger
 68 biomolecular damage that accelerates senescence (Beckman and Ames, 1998;
 69 Barja, 2002; Sohal, 2002). In line with these mechanisms, multiple studies have
 70 suggested that an organism’s longevity is an inverse function of mass-specific
 71 metabolic rates (Sohal, Svensson, Sohal and Brunke, 1989; Ku, Brunk and Sohal,
 72 1993; Wright et al., 2004; Atanasov, 2005; Kapahi et al., 2010). This trade-off is
 73 commonly referred to as the “rate-of-living” theory (Pearl, 1928). According to
 74 this theory, degenerative processes lead to a failure of cellular constituents due
 75 to the accumulation of biochemical errors and the build-up of toxic metabolic by-
 76 products (Sohal, 1986). In support of this theory, comparative and experimental

77 studies have shown that the increased expression of free radicals can shorten
78 lifespan (Orr & Sohal, 1994; Barja & Herrero, 1998; Parkes et al., 1998; Sun &
79 Tower, 1999; Melov et al., 2000).

80 Some alternative theories (Medawar, 1952; Hamilton, 1966; Kirkwood,
81 1977; Kirkwood and Austad, 2000; Réale et al., 2010) have been proposed to
82 explain the variations in lifespan among animals. According to the evolutionary
83 theories of senescence, species that are exposed to low intrinsic (e.g., replication
84 errors and metabolic waste products and oxidation damages by reactive agents)
85 and extrinsic (such as predation, food shortages or accidents) mortality rates will
86 adapt by slowing down their 'pace of life' (Scharf et al. 2015). Accordingly, they
87 will expand their reproductive potential by evolving longer lifespans (De
88 Magalhães et al. 2007; Healy et al. 2019). In contrast, animals that are more likely
89 to die due to extrinsic factors, rather than through senescence, benefit from
90 investing in early reproduction at the expense of investment in long-term
91 maintenance (Medawar, 1952; Hamilton, 1966; Kirkwood, 1977; Kirkwood and
92 Austad, 2000).

93 Life span represents trade-offs between reproduction and maintenance (e.g.,
94 the 'disposable soma theory'; Kirkwood, 2017). In taxa facing high extrinsic
95 mortality rates investing in maintenance, is unlikely to pay off if an individual
96 will be preyed upon before it has a chance to reproduce. According to this theory,
97 this will lead to selection for earlier reproduction, and thus earlier senescence
98 and a shorter lifespan in taxa suffering high extrinsic mortality rates (Kirkwood
99 and Austad, 2000). Under the disposable soma theory, early reproduction is
100 thought to expose animals to a greater accumulation of age-specific mutations
101 with pleiotropic effects (Gavrilov and Gavrilova, 2002). This has been associated

with the 'antagonistic pleiotropy theory', which suggests that some genes encode phenotypes that offer benefits early on in life, while also encoding other traits that are harmful in advanced age (Medawar, 1952; Hamilton, 1966; Kirkwood, 1977; Kirkwood and Austad, 2000; Réale et al., 2010). Such harmful traits, expressed late in life, will be invisible to selection in animals that reproduce young, but will select strongly against animals that reproduce at older ages (Williams, Day, Fletcher and Rowe, 2006).

The rate-of-living theory has been studied in insects, fish, birds, and mammals (Herreid II, 1964; Liu and Walford, 1975; Lindstedt and Calder, 1976; Austad and Fischer, 1991; Kelemen, Cao, Cao, Davidowitz and Dornhaus, 2019). For example, Healy et al. (2014) found that metabolic rate was negatively associated with longevity in non-volant endotherms (supporting the rate-of-living theory). However, several limitations detract from the evidence supporting it. For example, some studies have ignored the influence of phylogenetic non-independence (Lindstedt and Calder, 1976; Austad and Fischer, 1991; Hulbert et al., 2007). Furthermore, some relatively recent studies (Speakman, 2005; Magalhães et al. 2007; Furness and Speakman, 2008; Glazier, 2015) contradict the expectations of the theory. For example, bats and birds have higher metabolic rates compared to, similar-sized, non-volant mammals (Kleiber, 1947; Brunet-Rossinni and Austad, 2004; Réale et al., 2010; Wilkinson and Adams, 2019). Bats, nonetheless, are exceptionally long-lived (Lagunas-Rangel, 2019) and use twice as much energy over their lifetimes as do similar sized terrestrial mammals (Healy et al. 2014), indicating there is no fixed amount of energy consumption allocated to an organism's lifespan.

Magalhães et al., (2007) examined the effect of several factors, including metabolic rates, on the longevity of 1,456 vertebrate species. Their analyses revealed no relationship between metabolism and longevity in eutherians and birds, and a negative link in marsupials. That study, however, was almost entirely restricted to endotherms (94% of the species examined were mammals or birds) and thus could not provide a general explanation for the diversity of longevity across the vertebrate metabolic range. Other such studies (Herreid II, 1964; Austad and Fischer, 1991; Ku et al., 1993; Hulbert et al., 2007; Furness and Speakman, 2008; Healy et al., 2014) have also focused almost exclusively on birds and mammals. Although selection from environmental factors (e.g. ambient temperature) may differ dramatically between endotherms and ectotherms, only a few comparative studies (Scharf et al., 2015; Stark and Meiri, 2018) have focused on ectotherm vertebrates, and these have generally ignored metabolic rates. A recent theory (Worm and Tittensor, 2018) suggests that ecological pressures shape evolutionary processes on small spatial and phylogenetic scales while environmental factors, particularly temperature, dominate on larger scales. Environmental effects are thus expected to strengthen when comparing ectotherms with endotherms. A comprehensive empirical test of the rate-of-living theory across all land vertebrate groups could therefore be highly informative.

To fill this gap we assembled an unprecedented, global-scale, dataset for 4,100 species of terrestrial vertebrates (birds, mammals, reptiles and amphibians), and implemented a highly replicable, comparative test of the rate-of-living theory. We examined the relationship between longevity and a range of metabolically-relevant factors, across mammals, birds, reptiles, and amphibians.

151 We tested the fundamental predictions that: **(i)** Slower metabolic rates are
 152 associated with prolonged longevity (Sohal, 1986; Nunn and Barton, 2000). This
 153 is a direct test of the rate-of-living theory. However, basal metabolic rates are
 154 problematic to define for ectotherms – and field metabolic rates for anything but
 155 endotherms are exceedingly rare (see below). We examined the relationship
 156 between longevity and a suite of additional proxies that are expected to be
 157 strongly correlated with metabolic rates; **(ii)** Ectotherms (amphibians and
 158 reptiles) will live longer than similar-sized endotherms (mammals and birds)
 159 because their lower metabolic rates translate to lower mutation and oxidative
 160 damage rates (Sohal, 1986; Hulbert et al. 2007); **(iii)** Nocturnal species
 161 (especially ectotherms) will live longer than diurnal ones. Nocturnality reduces
 162 exposure to solar radiation, and the lower night-time temperatures reduces
 163 ectotherm metabolic rates; **(iv)** Reptiles that actively forage for food will have
 164 substantially higher metabolic rates than closely-related ‘sit-and-wait’ foragers
 165 with otherwise similar ecologies – even in the same habitat (e.g., Anderson and
 166 Karasov, 1981; Nagy et al., 1984). Because high metabolic rates are expected to
 167 be linked to low longevities, we predict that ‘sit-and-wait’ foragers will live
 168 longer than ‘actively-foraging’ ones; **(v)** Body temperature will be negatively
 169 associated with ectotherm longevity because ectotherm metabolic rates increase
 170 with increasing temperature; and **(vi)** In seasonally cold regions many mammals
 171 and ectotherms hibernate or aestivate for extended periods (Turbill, Bieber and
 172 Ruf, 2011), reducing metabolism and thus expected to live longer (Stark and
 173 Meiri, 2018; Stark, Tamar, Itescu, Feldman and Meiri, 2018; Wilkinson and
 174 Adams, 2019). Furthermore, ectotherms inhabiting seasonally cold regions grow
 175 and metabolize slowly and thus present lower rates of metabolic by-product

176 accumulation. We thus predicted that they will live longer than species living in
177 warmer regions.

178

179 **Methods**

180 **Data collection**

181 We assembled a global dataset on the maximum lifespan of 4,100 terrestrial
182 vertebrate species (538 amphibians, 1,153 birds, 1,061 mammals and 1,348
183 reptiles) from the literature (mainly from De Magalhaes and Costa, 2009; Stark
184 and Meiri, 2018; and Stark et al., 2018; see Appendix 1 for a full list of sources).
185 We corrected for the potential bias in which larger samples increase the chance
186 of finding a higher maximum (Stark and Meiri, 2018; Stark et al., 2018) by using
187 sample size as a predictor. We recorded sample sizes from the original
188 publications reporting longevity. Much of our data (especially for endotherms)
189 was taken from the AnAge database (De Magalhaes and Costa 2009). In AnAge
190 sample sizes are classified as 'small' (up to 10 specimens), 'medium' (11- 100),
191 'high' (101- 1000 individuals) and 'Questionable' for missing data on sample size.
192 We opted to be conservative and classified small samples as those species with
193 one individual; medium samples as comprising 11 specimens per species; and
194 large samples as featuring 101 sampled individuals. Species with no sample sizes
195 were classified as questionable. Analyses in which we used the midpoint of the
196 size estimates from AnAge (i.e., 5, 55 and 555 specimens for "small", "medium"
197 and "large" samples, respectively) yielded qualitatively similar results (not
198 shown).

199 We performed a sensitivity analysis incorporating only the 2140 species for
200 which maximum longevity was estimated from 30 or more individuals (i.e. based

on data from the primary literature where available, and the ‘high’ category of AnAge only). We accounted for the fact that longevity of captive individuals is often higher than that of wild ones (Scharf et al., 2015; Stark and Meiri, 2018) by treating data origin as another predictor. Data on the predictor variables (see Appendix S1 in Supporting Information) were gathered from the sources used to estimate longevity, and, if not reported there, from the primary literature (see Appendix 1 for a full list of sources). We accounted for body size in our analysis by using body mass (in grams) as a predictor. We collected data on mean body mass for each species using data from AnAge (De Magalhaes and Costa, 2009) for birds and mammals, from Slavenko, Tallowin, Itescu, Raia and Meiri, (2016) for reptiles and from Stark and Meiri, (2018) for amphibians. To account for differences between the sexes we averaged the mean body size of females and males if those were reported separately. For endotherms, mass data are routinely reported. For amphibians and reptiles body size data are almost always reported as lengths (Meiri, 2010; Pincheira-Donoso and Hodgson, 2018; Santini, Benítez-lópez, Ficetola and Huijbregts, 2018). To enable a comparison of all taxa we converted body length to mass using the clade and measurement-specific allometric equations (Feldman and Meiri, 2013; Feldman, Sabath, Pyron, Mayrose and Meiri, 2016, Santini et al., 2018).

We classified species as diurnal, nocturnal, crepuscular or cathemeral (the latter two were expected to have intermediate longevity). We defined 706 reptiles for which data were available as either ‘sit-and-wait’ or ‘active foragers’ (Meiri, 2018).

Distribution data are from Roll et al., (2017) for reptiles, the IUCN (<https://www.iucnredlist.org/>) for amphibians and mammals, and BirdLife

(<http://datazone.birdlife.org>) for birds. Climatic data were obtained by intersecting range maps with mean annual temperature, and temperature seasonality; (from CHELSA; Karger et al., 2017) at 30 arc seconds (high resolution).

Field metabolic rates (FMR, in kJ d^{-1}) were obtained from the primary literature (e.g., Kingsbury, 1995; Nagy, 2005; Green and Christian, 2007; Smith, Christian and Green, 2008; Murray et al. 2014; Murray et al. 2015). Basal metabolic rates ($\text{ml O}_2 \text{ h}^{-1}$) were obtained from the literature (Lovegrove, 2003; White and Seymour, 2003; McKechnie and Wolf, 2004; White, Phillips and Seymour, 2006; Sieg et al., 2009; White, Frappell and Chown, 2012; Žagar, Simčič, Carretero and Vrezec, 2015; Bushuev, Tolstenkov, Zubkova, Solovyeva and Kerimov, 2017; Uyeda, Pennell, Miller, Maia and McClain, 2017; Naya, Naya and White, 2018; Zhang, Guo, Zhang, Lin and Ji, 2018). Metabolic rate data were available for 820 species in our database.

Comparing metabolic rates between endotherms and ectotherms is problematic. Endotherm metabolic rates are lowest at intermediate temperatures, their thermoneutral zone (TNZ, e.g., Hill et al. 2012; usually around 25°C). Thus, endotherm basal metabolic rates are easy to define, standardize and measure. Ectotherm metabolic rates, however, generally increase monotonically with body temperature, at least within the range of temperatures used to study their standard metabolic rates (Andrews & Pough, 1985, White et al. 2006). Furthermore, ectotherm tetrapod performance increases with temperature until an 'optimum' maximal rate is reached, and then decreases sharply (e.g., Huey & Kingsolver, 1989). Ectotherm metabolic rates and performances are thus usually examined at several experimental

251 temperatures. We opted to compare the metabolic rates that result in maximized
 252 potential performance. We consider these temperatures to be at the TNZ of
 253 endotherms – but at the optimal temperatures for ectotherms. At these
 254 temperatures endotherms do not need to expend extra energy for
 255 thermoregulation – while ectotherms operate most efficiently. Therefore, we
 256 used BMR data for endotherms. For ectotherms, when data from more than one
 257 temperature were available for a given species, we selected the metabolic rate
 258 data that were measured at the operative temperature closest to the class or
 259 order mean. Thus, for reptiles we selected data measured at temperatures as
 260 close as possible to 31°C, which is the average body temperature of active
 261 squamates (across 1089 species; Meiri, in press). In amphibians we selected data
 262 measured as close as possible to 30 °C for anurans, and to 25 °C for urodeles,
 263 based on experimental analyses of their temperature preferences (Stuart, 1951;
 264 Darlington, 1957; Brattstrom, 1963; Ballinger and McKinney, 1966; Brattstrom,
 265 1968; Bachmann, 1969; Brattstrom, 1970; Brown, 1975; Anderson and Beitinger,
 266 1979; Bohlin and Beitinger, 1979; Bider and Morrison, 1981; Bradford, 1984;
 267 Wygoda and Williams, 1991; Katz and Gil, 1997; Luddecke and Sanchez, 2002;
 268 Wells, 2007; Araujo et al. 2013; Catenazzi, Lehr and Vredenburg, 2014; Frishkoff,
 269 Hadly and Daily, 2015; Richter-Boix et al. 2015). A sensitivity analysis in which
 270 basal metabolic rates were those measured at temperatures as close as possible
 271 to 25°C yielded qualitatively identical results.

272 We compared longevity of endotherms and ectotherms to determine
 273 whether this fundamental difference in metabolic rates influences longevity
 274 (Gillooly, Gomez and Mavrodiev, 2017). We also analysed mammals, birds,
 275 reptiles and amphibians separately, to determine whether these fundamental

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divisions of the vertebrate tree of life result in specific metabolism/longevity relationships. Our aim was to examine this relationship on different parts of the tree, rather than merely treat them as nuisance variables to be corrected for using phylogenetic regression.

We log₁₀ transformed data on body size, maximum longevity, basal and field metabolic rates, and sample size, to normalize residuals and reduce heteroscedasticity. All statistical tests were performed using R3.6.1 (R Development Core Team, 2019).

We combined the most up-to-date, complete phylogenetic trees for each class (Prum et al., 2015; Faurby and Svenning, 2015; Jetz and Pyron, 2018; Stark et al., 2018), and estimated the phylogenetic signal in longevity data using phylogenetic generalized least squares regression (PGLS; Freckleton, Harvey and Pagel, 2002), implemented in the R package: “caper” (and its dependencies: “ape”, “phytools”, “plyr”, “car”, “fmsb”, and “FSA”). We combined the trees using the methods and scripts outlined in Roquet, Lavergne and Thuiller, (2014). We accounted for shared ancestry using PGLS (Freckleton et al., 2002; Orme, Freckleton, Thomas and Petzoldt, 2013) with the maximum likelihood value of Pagels’s λ . A λ of zero indicating that no phylogenetic signal exists (i.e. that the trait has evolved independently of phylogeny). A λ close to 1 indicates a strong phylogenetic signal, in agreement with a Brownian motion model of evolution (Freckleton et al., 2002).

To tease apart the potential effects of body size and metabolic rates on longevity, we compared AIC scores of models containing FMRs or BMRs alone, FMRs or BMRs and body size, and body size alone, as predictors. If the full model presented higher AIC than a partial model nested in it, we interpreted this as a

sign that the additional predictors have little effect following Arnold (2010). We verified this by comparing the significance of the body size and metabolic rate terms in the full models.

We possessed field metabolic rate data for ~5% (209 species) and basal metabolic rate data for ~20% (820 species) of our species. For other variables we possessed data for >80% (often >95%) of species. Thus, we ran models with three different combinations of predictors for all land vertebrates and for each class separately (all corrected for body size, data origin, sample size and phylogeny): 1. with field metabolic rates; 2. with basal metabolic rates; 3. with mean annual temperature, temperature seasonality, and activity time together. For reptiles, we fitted two additional models: with foraging mode and with body temperature (all corrected for body size, data origin, sample size and phylogeny).

To estimate whether we had sufficient statistical power to reject a null hypothesis we conducted power analyses (using an online power calculator: <https://www.danielsoper.com/statcalc/calculator.aspx?id=9>) for the regressions of RMR, FMR, temperature seasonality and mean annual temperature analyses. Because body size was a factor in all these analyses, we set the number of predictors to two. Because our null models were always either strongly rejected ($p < 0.005$), or clearly not rejected ($p \geq 0.1$, see the results section and tables), we used two Alpha values: the 'traditional' 0.05 (Fisher, 1925) and a more stringent 0.005 (Johnson, 2013; Benjamin et al., 2017) to calculate power. Sample sizes were those for the relevant clades and analyses. We estimated power for two hypothetical relationships: a weak pattern ($R^2 = 0.15$) and a medium one ($R^2 = 0.4$). Analyses were conducted for each class separately. The power analyses we used do not take into account the

phylogenetic correction, and may thus overestimate the power associated with PGLS models to some extent (due to the lower degrees of freedom associated with the non-independence of phylogenetically structured data). While it is difficult to estimate exactly how this will affect power, PGLS retains much of the power of non-phylogenetic analyses, and hence we believe that the power we estimate is at least close to the actual power of our tests. We found most of our analyses had high power to reject a null hypothesis, for all taxa. Exceptions were restricted to low power ($\beta = 0.21$ for alpha of 0.005 and $\beta = 0.56$ for alpha of 0.05) for the FMR analysis of reptiles with a weak effect size. All other analyses had power > 0.8 , mostly > 0.9 (see Appendix 2.1 for full power analyses results).

Results

The relationships between basal and field metabolic rates and longevity were not significant across all the land vertebrates and within any class, except for reptilian field metabolic rates (Fig. 1a & c; Table 1), when accounting for body size, phylogeny, sampling intensity and data origin (wild/captive individuals) (Appendix S3). The results remained similar (also for reptile FMR) when we analysed only species for which longevity estimates were based on large sample sizes ($n \geq 30$; Appendix 2.2). Most of our statistical models strongly favoured models with body size over models with metabolic rates, or models with a combination of size and metabolic rates (see Appendix S2.3).

Contrary to the predictions of the rate-of-living theory, activity times were uncorrelated with vertebrate longevity, nor were they associated with longevity within any class, with the exception of cathemeral tetrapods which

live 11.1% longer ($n = 538$, $\lambda = 0.634$, $R^2 = 0.15$, $p < 0.0001$; Table 2) and nocturnal amphibians, live 13.5% longer ($n = 538$, $\lambda = 0.588$, $R^2 = 0.24$, $p < 0.0001$) than diurnal species. Likewise, temperature seasonality was uncorrelated with vertebrate longevity either across or within classes (Table, 2).

Mean annual temperature emerged as the only climatic predictor significantly (and negatively) associated with tetrapod longevity (slope = -0.001 ± 0.006 log years per $^{\circ}\text{C}^{-1}$; $p = 0.04$; Fig1b; Table 2). Lifespans were longer in colder climates. Interestingly, considered individually, the longevity of endotherm classes (Mammalia: slope = -0.004 ± 0.006 , $p = 0.53$; Aves: slope = -0.001 ± 0.009 , $p = 0.17$) were not associated with temperature, whereas amphibian and reptilian longevity were higher in colder regions (Amphibia: $n = 404$, $\lambda = 0.580$, slope = -0.009 ± 0.002 , $p < 0.0001$; Reptilia: $n = 953$, $\lambda = 0.801$, slope = -0.006 ± 0.002 , $p = 0.005$). Models based only on well-sampled species gave mostly qualitatively similar results (Appendix 2.2). Reptile body temperature ($n = 453$, $\lambda = 0.794$, slope = -0.001 ± 0.002 ; $p = 0.49$) was not associated with longevity. Moreover, foraging mode (active versus sit-and-wait foraging: intercept = 0.977 ± 0.190 , $p = 0.65$, $n = 496$, $\lambda = 0.838$) was not associated with reptilian longevity (see Appendix S2.2 for well sampled models).

Finally, we observed that ectotherms (amphibians and reptiles together) demonstrate similar longevity to similar-sized endotherms (birds and mammals together), despite an order of magnitude difference in basal metabolic rates (Appendix S2.4). Accounting for body size and phylogeny alone, birds live longer than amphibians and reptiles, which, in turn, live longer than mammals (Appendix S2.4).

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Discussion

376 The rate-of-living theory (Pearl, 1928; Lints, 1989; Finkel and Holbrook,
377 2000; Speakman, 2005) underpins key predictions of life history and aging
378 theories (Jin, 2010). Despite using the most comprehensive world-wide
379 vertebrate dataset created to date, we failed to find support for the predictions of
380 this theory. We implemented both direct and indirect measurements of
381 metabolic rates. Very few measurements gave any indication that fast-metabolic
382 rates are associated with longevity within vertebrate classes, across the
383 fundamental divide in the metabolic range of ‘fast-living’ endotherms versus
384 ‘slow-living’ ectotherms, or across all tetrapods. Resting and field metabolic
385 rates, were uncorrelated with longevity (except for reptile FMR, which varies
386 with longevity according to the rate-of-living predictions, but with $n = 25$).
387 Furthermore, proxies for metabolic rates, such as activity times, seasonality and
388 body temperatures, did not reveal a relationship with longevity across the
389 tetrapod tree of life. Animals grow faster in warmer regions (Kingsolver and
390 Huey, 2008), and ectothermic vertebrates are no exception. This can lead to
391 small adult size (‘the temperature–size rule; Atkinson, 1994; Stillwell, 2010; Van
392 Rijn, Buba, DeLong, Kiflawi and Belmaker, 2018) and shorter lifespan. In our
393 study, we found a similar and significant role for high environmental
394 temperatures in driving shorter lifespan (although the temperature-size rule is
395 unlikely to be the driver, as amphibians and reptiles show no size-temperature
396 clines either within or between species; Adams and Church, 2008; Slavenko and
397 Meiri, 2015; Slavenko et al. 2019). Our findings align with recent predictions

emerging from the mathematical integration between neutral, metabolic and niche theories (Worm and Tittensor, 2018) that evolutionary processes on a global scale are dominated by environmental temperatures.

401

402 ***The drivers of aging in tetrapods***

403 The paucity of direct estimates of metabolic rate led us to examine indirect
404 proxies for which much more data were available. Ectotherm metabolic rates
405 vary positively with activity body-temperature across most of the temperature
406 range (Gillooly, Brown, West, Savage and Charnov, 2001). We had thus predicted
407 that shorter lifespan should be associated with higher energy expenditure (via
408 high activity), diurnal activity and high body temperature. These predictions
409 were not supported by our data. The major differences in body temperatures,
410 and both resting and field metabolic rates, between ectotherms and endotherms
411 (White et al. 2006) do not translate into differences in lifespans. We did find that
412 the variation in reptilian longevity is related to their field metabolic rate.
413 However, the small sample size (25 species, 19 if considering only those for
414 which data on the sample size were used to determine longevity) and weak
415 power (Tversky and Kahneman, 1971) make this link tenuous. However, even
416 with additional predictors (such as sample size or body size) in our power
417 analysis, most of our models maintained high power (>0.8).

418 A caveat is required. Our data on field and resting metabolic rates of reptiles
419 are poorly correlated with our indirect indices of reptile metabolic rates: neither
420 are related to activity times (though just one species for which we have FMR data
421 is nocturnal), foraging mode nor mean annual temperature. Body temperature
422 was (positively) correlated with standard metabolic rates ($n = 173$) but not with

field metabolic rates ($n = 25$; mass was used as a covariate in all these analyses). Thus, it may be that the factors we examined are not good proxies for metabolic rates (see results for the relationship between RMR and FMR in Appendix S2.4). Alternatively, metabolic rates, being measured at rest for all species, regardless of factors such as foraging mode, may not capture the actual underlying rates during activity. Data on field metabolic rates may well be much more useful but, again, are hard to come by. The null findings for endotherms in our study might also be due to the potential association between flight and increased lifespan (Holmes and Austad, 1994; Wilkinson and South, 2002; Munshi-South and Wilkinson, 2010; Healy et al. 2014).

Nocturnal ectotherms have lower body temperatures, and thus lower field metabolic rates, than diurnal ones. Furthermore, diurnal animals are exposed to solar radiation, which may subject them to harmful mutations. Nocturnality, however, was only (positively) associated with longevity in amphibians (as also shown in Stark & Meiri, 2018), whereas the other groups demonstrated no such a relationship. We postulate that the effects of solar radiation may be mitigated through the possession of more resistant skin. That reptiles, unlike amphibians, do not show an effect of activity time on longevity, suggests that it is radiation that probably causes the differences in longevity between diurnal and nocturnal amphibians. Diel differences in temperatures and the resulting difference in metabolic rates, however, do not affect longevity (otherwise, we would expect these also to affect reptiles). It may be that the effect of activity time on longevity operates via differential predation pressures on different parts of the diel cycle. For example, Healy et al. (2014) found that crepuscular flying endotherms have shorter lifespans (compared to nocturnal or diurnal species), perhaps because

they are exposed to both diurnal and nocturnal predators, resulting in higher extrinsic mortality.

Most ectotherms and many mammals reduce their metabolism in highly seasonal regions by means of hibernation, aestivation or torpor (Storey and Storey, 1990; Turbill et al., 2011). During this time they may also be less exposed to predation (Turbill et al., 2011). Seasonality, however, was not associated with longevity.

Large species demonstrate slower mass-specific metabolic rates (Kleiber, 1947; Nagy, 2005; White, Blackburn and Seymour, 2009; Clarke et al., 2010), and this has been linked to longer lifespans (Sohal, 1986; Kirkwood, 1977). However, our findings suggest that the relationship between size and longevity does not stem from metabolic rates, but from other size-related intrinsic and extrinsic factors. Larger animals may be less vulnerable to predation (e.g., they can be preyed upon by fewer species), starvation and extreme environmental conditions, such as drought (Peterson and Wroblewski, 1984; Sogard, 1997), which could affect mortality rate independently of metabolic rate. Moreover, reduced extrinsic mortality, as a consequence of larger size, may alter the optimum for investment in somatic maintenance: lower predation risk could lead to investment in somatic maintenance and repair becoming more profitable. Longer lives could allow organisms to achieve a larger size, which in turn enables greater reproduction success. This is because larger mothers often have larger offspring, which may be more likely to survive (Kirkwood and Holliday, 1979). In ectotherms, larger size also allows more offspring to be produced. We thus view size as a factor that affects longevity through mechanisms (such as its relationship with time to maturity, and predation rates) not directly related to

473 metabolic rates or affected by them. In other words, the relationship between
 474 metabolic rate and longevity is spurious and only arises because both are
 475 correlated with body size.

476

477 ***Aging and climate change: the 'burning quickly' hypothesis***

478 Importantly, we found that high environmental temperature is associated
 479 with low ectotherm longevity. This observation may reflect an effect of mortality
 480 rates. First, in colder environments animals are usually active for shorter periods
 481 during the year (Johnston and Dunn, 1987), thereby reducing their exposure to
 482 predation risk and food shortages (Turbill et al. 2011). Moreover, hotter, more
 483 tropical, regions probably host a greater diversity of species. Consequently, more
 484 predator and parasite species are likely to inhabit such regions. If higher
 485 predator and parasite species diversity (rather than their abundance, specificity
 486 and lethality) results in high extrinsic mortality risk, this may select for shorter
 487 lifespan. This observation suggests an unexpected link between the vulnerability
 488 of a species (especially ectotherms) and the unprecedented global warming that
 489 the planet is currently experiencing (IPCC, 2013). Indeed, if increasing ambient
 490 temperatures reduce longevity, then multiple life-history characteristics that
 491 evolve in coordination with a species' lifespan (e.g. reduced lifetime reproductive
 492 success, skewed sex ratios etc.) could be affected (Huey et al. 2012; Seebacher,
 493 White and Franklin, 2015; Cunningham, While and Wapstra, 2017; Bókony,
 494 Milne, Pipoly, Székely and Liker, 2019). This may increase extinction risk across
 495 a wide range of taxa. Importantly, therefore, our findings add a previously
 496 overlooked layer to the range of factors that are commonly used to develop
 497 predictions regarding the threat of extinction to species in the Anthropocene.

498 The use of maximum longevity in comparative studies is not ideal. Maxima
 499 may be unrepresentative of the species as a whole (Carey, 2003). Furthermore,
 500 longevity estimates based on unequal numbers of individuals for different
 501 species, would result in higher maxima reported for species associated with
 502 larger samples, biasing the analyses (Scharf et al. 2015). Unfortunately, much
 503 more data exist on maxima than on actuarial aging (Healy et al. 2014, Scharf et al.
 504 2015), which would be a better indicator for testing the “rate-of-living” theory.
 505 However, maxima are the commonest metric of longevity in comparative studies
 506 (Magalhães et al. 2007; Healy et al. 2014, Scharf et al. 2015; Wilkinson and
 507 Adams, 2019), and are likely to be tightly associated with means. Additionally,
 508 we accounted here for the uneven sampling in our analyses.

509 The rate-of-living theory has been proposed as an explanation for the
 510 variation in longevity across the animal tree of life (Sohal et al., 1989; Ku et al.,
 511 1993; Wright et al., 2004; Atanasov, 2005; Hulbert et al. 2007; Kapahi et al.,
 512 2010; Healy et al. 2019). Despite the high power of our statistical models, our
 513 analysis lends it no support. We thus conclude that the evidence supporting the
 514 theory is at best idiosyncratic. Recently, some smaller-scale experimental and
 515 meta-analytical studies (Van Voorhies et al., 2003; Hulbert et al. 2007; Vaanholt,
 516 Daan, Garland Jr and Visser, 2010; Glazier 2015; Hou and Amunugama, 2015)
 517 revealed no effects of metabolism on longevity, challenging the validity of the
 518 theory. Our global-scale phylogenetic comparative analyses provide the first
 519 body of robust evidence that the rate-of-living theory does not hold across a
 520 broad spectrum of life-history and ecological traits from across the vertebrate
 521 tree of life. Our study resets our fundamental understanding of the role of
 522 metabolic rates on the trajectories of adaptive evolution, and raises serious

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523 questions about many of the current assumptions and predictions, for which we
524 found no support or validation in our study.
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For Peer Review

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897 **Data accessibility statement:** all data used in the analyses and the associated
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For Peer Review

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Table 1. PGLS model for the relationship between metabolic rates and longevity among and within land vertebrates.

Metabolic Rate	Group	<i>n</i>	Slope ± SE	<i>R</i> ²	λ	<i>P</i>
Basal MR	Tetrapods	662	-0.028±0.024	0.19	0.913	0.24
	Amphibia	123	0.089±0.053	0.14	0.494	0.09
	Reptilia	165	-0.004±0.037	0.12	0.849	0.91
	Mammalia	405	-0.050±0.042	0.23	0.831	0.23
	Aves	94	0.035±0.091	0.31	0.650	0.70
Field MR	Tetrapods	183	-0.039±0.074	0.19	0.820	0.59
	Reptilia*	25	-0.338±0.084	0.79	0.000	0.0007
	Mammalia	74	0.021±0.096	0.22	0.962	0.82
	Aves	84	0.096±0.145	0.19	0.400	0.50

* No data on amphibian field metabolic rates were available. Slopes are for metabolic rates, lambda and *R*² values are for the full model (with sample size, body size and data origin (captivity/wild) as predictors). Tetrapods = all land vertebrates.

Table 2. Full PGLS model for land vertebrates.

Factor	Estimate $\pm$ 1 SE	<i>t</i>	<i>P</i>
Intercept	0.758 $\pm$ 0.177	4.2	<0.0001
Body mass (log ₁₀ grams)	0.132 $\pm$ 0.008	16.4	<0.0001
Origin of data (wild)*	-0.065 $\pm$ 0.012	-5.1	<0.0001
Sample size (log ₁₀)	0.085 $\pm$ 0.006	13.6	<0.0001
Mean annual temperature (°C)	-0.001 $\pm$ 0.006	-2.0	0.04
Temperature seasonality (standard deviation *100)	0.001 $\pm$ 0.001	0.8	0.40
Activity time (Cathemeral)**	0.042 $\pm$ 0.018	2.3	0.02
Activity time (Crepuscular)**	0.020 $\pm$ 0.022	0.8	0.37
Activity time (Nocturnal)**	0.005 $\pm$ 0.016	0.3	0.75

Model $R^2 = 0.20$, $n = 3050$ species, $\lambda = 0.920$, $p < 0.0001$.

*This is the difference between the intercept for species for which longevity is estimated from individuals in nature and for those for which it is known from captive individuals.

**Values for activity times are intercepts and are compared to the intercept (0.758 $\pm$ 0.177) for diurnal species.

Figure 1. The relationship between longevity (y axis of all panels, log10 transformed) and (a-d) body mass (in g, log10 transformed) of amphibians (red circles), reptiles (black circles), birds (green triangles) and mammals (inverted blue triangles). (e-h) mean annual temperature (regression lines only shown for amphibians and reptiles for which the relationship is significant), (i) basal metabolic rate (in ml O2 h⁻¹, log10 transformed), according to the colour codes depicted in the top plots and (j) field metabolic rate (kJ d⁻¹, log10 transformed).

Appendix 1 – Longevity data sources

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30-Dec-2019

Brian McGill, Maria Dornelas and Richard Field

Editors-in-Chief, Global Ecology and Biogeography

Dear editors,

We have now completed the revision process on our manuscript (GEB-2019-0279.R3).

We attach a revised version of our manuscript following the minor comment of the editor-in-chief. Below please find our explanation of how we dealt with the issue raised. Yours sincerely

Gavin Stark, Daniel Pincheira-Donoso, and Shai Meiri

EDITOR-IN-CHIEF'S COMMENTS TO AUTHORS

Thanks for taking some steps towards the requirements for the in-paper Appendix 1 - Data Sources. However, this should be in the form of a second reference list, not a Table. Please convert to the correct form.

We changed it to a list as the editor in chief requested, thank you.

EDITOR'S COMMENTS TO AUTHORS

Editor: Kelly, Ruth

Comments to the Author:

Dear Stark et al.,

Many thanks for making these further changes to the abstract and appendices.

Thank you.

Best regards,

Ruth Kelly

Dr. Ruth Kelly, Editor

REVIEWER COMMENTS TO AUTHORS

Species

Corallus annulatus
Varanus caudolineatus
Trichechus manatus
Aneides aeneus
Mokopirirakau granulatus
Caiman yacare
Ambystoma cingulatum
Conraua goliath
Pelochelys cantorii
Rhea pennata
Chamaeleo senegalensis
Takydromus sexlineatus
Eristicophis macmahoni
Panaspis nimbaensis
Chamaeleo gracilis
Mokopirirakau kahutarae
Gallotia atlantica
Candoia aspera
Phyllomedusa sauvagii
Phyllobates aurotaenia
Hyloxalus argyrogaster
Cemophora coccinea
Lepidobatrachus laevis
Trioceros quadricornis
Nilssonina hurum
Melanochelys tricarinata
Aneides hardii
Nerodia rhombifer
Rana palustris
Epipedobates tricolor
Sternotherus depressus
Phrynosoma blainvillii
Scaphiophryne marmorata
Trimeresurus trigonocephalus
Rieppeleon brevicaudatus
Phoeniculus purpureus
Brachylophus fasciatus
Phelsuma ornata
Lacerta media
Melanerpes carolinus
Pachytriton brevipes
Andrias davidianus
Leiocephalus personatus
Hydrosaurus weberi
Emydura Subglobosa
Kinixys spekii
Strophurus williamsi

1 Paroedura picta
2 Ctenosaura melanosterna
3 Phyllobates bicolor
4 Dendrobates tinctorius
5 Dendrobates ventrimaculatus
6 Phyllobates terribilis
7 Cyrtodactylus pulchellus
8 Python molurus
9 Myodes gapperi
10 Chamaeleo calyptratus
11 Lycodonomorphus rufulus
12 Cardinalis cardinalis
13 Varanus gilleni
14 Blaesodactylus sakalava
15 Egernia depressa
16 Chrysopelea ornata
17 Elaphe moellendorffi
18 Drymarchon melanurus
19 Sceloporus cyanogenys
20 Phelsuma grandis
21 Sistrurus miliarius
22 Opheodrys aestivus
23 Lampropeltis alterna
24 Eryx colubrinus
25 Uroplatus phantasticus
26 Erpeton tentaculatum
27 Acanthosaura capra
28 Pantherophis spiloides
29 Acrochordus javanicus
30 Boiga dendrophila
31 Phelsuma standingi
32 Morelia spilota
33 Geotrypetes seraphini
34 Correlophus sarasinorum
35 Epicrates crassus
36 Hymenochirus boettgeri
37 Vipera ammodytes
38 Haliaeetus leucocephalus
39 Pluvialis dominica
40 Calypste costae
41 Apteryx mantelli
42 Pelobates cultripes
43 Anaxyrus californicus
44 Anaxyrus fowleri
45 Aneides flavipunctatus
46 Bufo verrucosissimus
47 Desmognathus marmoratus
48 Discoglossus galganoi

1 Eleutherodactylus marnockii
2 Phrynobatrachus gutturosus
3 Ptychadena bibroni
4 Pseudacris ornata
5 Anaxyrus baxteri
6 Anaxyrus boreas
7 Eleutherodactylus coqui
8 Desmognathus apalachicola
9 Desmognathus santeetlah
10 Speleomantes strinatii
11 Necturus punctatus
12 Triturus karelinii
13 Rana amurensis
14 Lithobates areolatus
15 Pelophylax lessonae
16 Rana macrocnemis
17 Pelodytes caucasicus
18 Bombina pachypus
19 Desmognathus folkerti
20 Ommatotriton ophryticus
21 Salamandrina perspicillata
22 Alouatta pigra
23 Antaresia perthensis
24 Basiliscus basiliscus
25 Bombina orientalis
26 Bothriechis schlegelii
27 Bothrops jararaca
28 Ceratophrys cornuta
29 Corallus hortulanus
30 Crocodylus acutus
31 Cyclura lewisi
32 Dendrobates leucomelas
33 Drymarchon couperi
34 Eurycea longicauda
35 Hyla avivoca
36 Lachesis stenophrys
37 Lepidochelys kempi
38 Anolis sagrei
39 Oophaga pumilio
40 Phelsuma madagascariensis
41 Plestiodon fasciatus
42 Plethodon cylindraceus
43 Plethodon nettingi
44 Porphyrio porphyrio
45 Pseudacris triseriata
46 Pseudemys rubriventris
47 Python regius
48 Sauromalus ater

1 *Storeria dekayi*
2
3 *Strigops habroptila*
4 *Tropidoclonion lineatum*
5 *Varanus niloticus*
6
7 *Vipera berus*
8 *Larus glaucoides*
9 *Charadrius montanus*
10 *Falco femoralis*
11 *Aphelocoma californica*
12 *Loxops coccineus*
13 *Tyto alba*
14 *Francolinus pondicerianus*
15 *Colinus virginianus*
16 *Pelecanus occidentalis*
17 *Francolinus francolinus*
18 *Loxioides bailleui*
19 *Buteo solitarius*
20 *Branta sandvicensis*
21 *Caprimulgus vociferus*
22 *Caprimulgus carolinensis*
23 *Haematopus bachmani*
24 *Aphelocoma insularis*
25 *Corvus hawaiiensis*
26 *Pipilo crissalis*
27 *Hemignathus parvus*
28 *Telespiza ultima*
29 *Carpodacus purpureus*
30 *Hemignathus munroi*
31 *Copsychus malabaricus*
32 *Dendroica cerulea*
33 *Polioptila californica*
34 *Pycnonotus jocosus*
35 *Bubo scandiacus*
36 *Anser albifrons*
37 *Pica hudsonia*
38 *Grus americana*
39 *Megascops kennicottii*
40 *Conuropsis carolinensis*
41 *Geococcyx californianus*
42 *Micrathene whitneyi*
43 *Pheucticus melanocephalus*
44 *Cyanocitta cristata*
45 *Hemignathus kauaiensis*
46 *Telespiza cantans*
47 *Artemisiospiza belli*
48 *Pantherophis bairdi*
49 *Pseudechis australis*
50 *Petrosaurus thalassinus*

1 Antaresia childreni
2 Salamandra salamandra
3 Conolophus subcristatus
4 Gonyosoma oxycephalum
5 Litoria aurea
6 Oxybelis fulgidus
7 Spea hammondi
8 Uroplatus fimbriatus
9 Testudo kleinmanni
10 Trachemys venusta
11 Elusor macrurus
12 Coleonyx reticulatus
13 Phrynosoma coronatum
14 Acanthosaura crucigera
15 Ptychozoon lionotum
16 Naja mossambica
17 Bitis gabonica
18 Pithecophaga jefferyi
19 Phrynosoma mcallii
20 Trioceros deremensis
21 Phrynosoma solare
22 Testudo marginata
23 Bitis nasicornis
24 Conolophus pallidus
25 Hyla meridionalis
26 Uroditellus armatus
27 Dendrobates truncatus
28 Ameerega trivittata
29 Lepidodactylus lugubris
30 Ranitomeya ventrimaculata
31 Varanus acanthurus
32 Psittacara mitratus
33 Elgaria multicarinata
34 Geoemyda spengleri
35 Python bivittatus
36 Stercorarius longicaudus
37 Branta hutchinsii
38 Daption capense
39 Somateria fischeri
40 Thalassarche chrysostoma
41 Macroneustes giganteus
42 Pluvialis fulva
43 Passerella iliaca
44 Histrionicus histrionicus
45 Gavia immer
46 Gallinago delicata
47 Aythya valisineria
48 Calidris pusilla

1 Poecile hudsonicus
2 Cepphus columba
3 Falco rusticolus
4 Aethia pygmaea
5 Aethia pusilla
6 Bucephala clangula
7 Aethia cristatella
8 Rissa brevirostris
9 Cerorhinca monocerata
10 Melanitta perspicillata
11 Brachyramphus marmoratus
12 Sphyrapicus ruber
13 Athene cunicularia
14 Aythya americana
15 Limosa fedoa
16 Poecile rufescens
17 Strix varia
18 Phalacrocorax auritus
19 Ptychoramphus aleuticus
20 Hylocichla mustelina
21 Gymnorhinus cyanocephalus
22 Charadrius semipalmatus
23 Sphyrapicus nuchalis
24 Accipiter cooperii
25 Chordeiles minor
26 Larus occidentalis
27 Agelaius tricolor
28 Chasiempis sandwichensis
29 Buteo swainsoni
30 Poecile sclateri
31 Calamospiza melanocorys
32 Falco mexicanus
33 Eugenes fulgens
34 Contopus sordidulus
35 Melanerpes formicivorus
36 Bucephala albeola
37 Fregata minor
38 Sphyrapicus varius
39 Pipilo maculatus
40 Bartramia longicauda
41 Accipiter striatus
42 Rynchops niger
43 Tringa semipalmata
44 Cypseloides niger
45 Dendrocygna bicolor
46 Zenaida macroura
47 Larus heermanni
48 Aphelocoma coerulescens

1 Elanus leucurus
2 Catharus bicknelli
3 Contopus cooperi
4 Amazilia yucatanensis
5 Selasphorus rufus
6 Aeronautes saxatalis
7 Amazilia violiceps
8 Sterna forsteri
9 Cynanthus latirostris
10 Pterodroma hypoleuca
11 Myiarchus tyrannulus
12 Ammodramus savannarum
13 Procelsterna cerulea
14 Buteo jamaicensis
15 Ictinia mississippiensis
16 Thalasseus elegans
17 Corvus cryptoleucus
18 Sterna fuscata
19 Sula leucogaster
20 Arremonops rufivirgatus
21 Pterodroma sandwichensis
22 Ardea herodias
23 Todus mexicanus
24 Limnothlypis swainsonii
25 Turdus plumbeus
26 Chloroceryle americana
27 Stelgidopteryx serripennis
28 Larus californicus
29 Numenius tahitiensis
30 Scolopax minor
31 Sula dactylatra
32 Pandion haliaetus
33 Bubo virginianus
34 Limnodromus scolopaceus
35 Fregata ariel
36 Empidonax virescens
37 Cyanocompsa parellina
38 Sturnella magna
39 Phaethon aethereus
40 Onychoprion lunatus
41 Archilochus colubris
42 Agelaius xanthomus
43 Bombycilla cedrorum
44 Vermivora pinus
45 Psaltriparus minimus
46 Geothlypis trichas
47 Dendroica dominica
48 Spizella passerina

1 Dendroica coronata
2 Protonotaria citrea
3 Wilsonia citrina
4 Seiurus aurocapilla
5 Troglodytes aedon
6 Melospiza georgiana
7 Contopus virens
8 Coereba flaveola
9 Zonotrichia albicollis
10 Zonotrichia leucophrys
11 Myiarchus crinitus
12 Picoides pubescens
13 Sialia mexicana
14 Buteo lineatus
15 Buteo regalis
16 Anas discors
17 Chen canagica
18 Chen caerulescens
19 Stellula calliope
20 Archilochus alexandri
21 Calothorax lucifer
22 Uria lomvia
23 Sterna dougallii
24 Onychoprion fuscatus
25 Leucophaeus atricilla
26 Thalasseus maximus
27 Pagophila eburnea
28 Stercorarius maccormicki
29 Stercorarius antarcticus
30 Saurothera vieilloti
31 Ortalis vetula
32 Grus canadensis
33 Passerina amoena
34 Passerina caerulea
35 Spiza americana
36 Cinclus mexicanus
37 Corvus caurinus
38 Spizella pallida
39 Spizella pusilla
40 Ammodramus henslowii
41 Ammodramus leconteii
42 Ammodramus nelsoni
43 Spizella arborea
44 Amphispiza belli
45 Aimophila ruficeps
46 Aimophila aestivalis
47 Loxigilla portoricensis
48 Plectrophenax nivalis

1 Vestiaria coccinea
2 Carduelis hornemanni
3 Leucosticte atrata
4 Melamprosops phaeosoma
5 Palmeria dolei
6 Leucosticte australis
7 Loxia curvirostra
8 Pinicola enucleator
9 Tachycineta thalassina
10 Tachycineta bicolor
11 Petrochelidon fulva
12 Petrochelidon pyrrhonota
13 Icterus bullockii
14 Icterus leucopteryx
15 Quiscalus quiscula
16 Quiscalus major
17 Dumetella carolinensis
18 Toxostoma bendirei
19 Toxostoma crissale
20 Toxostoma longirostre
21 Margarops fuscatus
22 Baeolophus inornatus
23 Wilsonia pusilla
24 Dendroica adelaidae
25 Dendroica magnolia
26 Vermivora ruficapilla
27 Vermivora virginiae
28 Setophaga ruticilla
29 Dendroica townsendi
30 Vermivora celata
31 Dendroica petechia
32 Dendroica occidentalis
33 Oporornis tolmiei
34 Mnioilta varia
35 Dendroica castanea
36 Helminthos vermivorum
37 Oporornis formosus
38 Dendroica striata
39 Seiurus motacilla
40 Regulus satrapa
41 Piranga olivacea
42 Nesospingus speculiferus
43 Piranga rubra
44 Thryothorus ludovicianus
45 Campylorhynchus brunneicapillus
46 Catharus guttatus
47 Sialia currucoides
48 Sialia sialis

1
2 Ixoreus naevius
3 Empidonax hammondi
4 Empidonax difficilis
5 Empidonax alnorum
6
7 Elaenia martinica
8 Myiarchus antillarum
9 Myiarchus cinerascens
10
11 Tyrannus tyrannus
12 Vireo atricapilla
13 Vireo bellii
14 Vireo huttoni
15 Vireo griseus
16 Vireo philadelphicus
17 Vireo latimeri
18 Vireo olivaceus
19
20 Phaethon rubricauda
21 Picoides nuttallii
22 Picoides borealis
23 Picoides villosus
24
25 Melanerpes uropygialis
26 Dryocopus pileatus
27 Phoebeastria nigripes
28 Thalassarche melanophrys
29
30 Oceanodroma furcata
31 Puffinus nativitatis
32 Puffinus pacificus
33
34 Agama agama
35 Naultinus grayii
36 Geochelone platynota
37 Nerodia fasciata
38 Pangshura sylhetensis
39 Phoebeastria immutabilis
40 Leucosticte tephrocotis
41 Madoqua saltiana
42 Varanus salvadorii
43 Pantherophis emoryi
44 Anthropoides virgo
45 Eurypyga helias
46 Dendrocygna viduata
47 Pulsatrix perspicillata
48 Polyplectron napoleonis
49 Grus vipio
50
51 Leucopsar rothschildi
52 Brachylophus bulabula
53 Amphiuma tridactylum
54 Thoropa miliaris
55 Pseudepidalea viridis
56 Neurergus crocatus

1 Euleptes europaea
2 Varanus varius
3 Phelsuma laticauda
4 Ctenophorus decresii
5 Aldabrachelys gigantea
6 Lampropeltis splendida
7 Elaphe taeniura
8 Graptemys pearlensis
9 Simalia amethystina
10 Pseudemoia entrecasteauxii
11 Sceloporus occidentalis
12 Omanosaura jayakari
13 Nannospalax ehrenbergi
14 Coleonyx brevis
15 Pygoscelis adeliae
16 Emoia atrocostata
17 Eutropis multifasciata
18 Sceloporus graciosus
19 Lamprolepis smaragdina
20 Draco volans
21 Papuascincus stanleyanus
22 Bufotes variabilis
23 Hyla orientalis
24 Eremias argus
25 Lissotriton helveticus
26 Calotriton arnoldi
27 Ommatotriton vittatus
28 Cerastes gasperettii
29 Eirenis decemlineatus
30 Malpolon insignitus
31 Mediodactylus amictopholis
32 Cyrtopodion scabrum
33 Natrix tessellata
34 Rana temporaria
35 Bufo bufo
36 Anaxyrus americanus
37 Triturus cristatus
38 Bombina bombina
39 Hyla versicolor
40 Bombina variegata
41 Hyla arborea
42 Gyrinophilus porphyriticus
43 Hemidactylium scutatum
44 Notophthalmus viridescens
45 Triturus marmoratus
46 Ambystoma mexicanum
47 Acris blanchardi
48 Ceratophrys ornata

1 Ambystoma opacum
2 Ceratophrys aurita
3 Diaglena spatulata
4 Agalychnis callidryas
5 Typhlonectes natans
6 Rhinella marina
7 Osteopilus septentrionalis
8 Ceratophrys calcarata
9 Nectophrynoides asperginis
10 Coturnix japonica
11 Vultur gryphus
12 Aquila chrysaetos
13 Cacatua leadbeateri
14 Sorex caecutiens
15 Crocidura russula
16 Elaphe schrenckii
17 Natrix natrix
18 Pantherophis vulpinus
19 Thamnophis ordinoides
20 Crotalus viridis
21 Clonophis kirtlandii
22 Vipera aspis
23 Elaphe climacophora
24 Pituophis catenifer
25 Thamnophis saurita
26 Lampropeltis pyromelana
27 Blanus cinereus
28 Crotalus horridus
29 Lampropeltis calligaster
30 Virginia valeriae
31 Hemachatus haemachatus
32 Pseudechis porphyriacus
33 Nerodia erythrogaster
34 Lampropeltis getula
35 Pantherophis guttatus
36 Masticophis flagellum
37 Crotalus molossus
38 Gopherus agassizii
39 Crotalus atrox
40 Ophisaurus ventralis
41 Ovophis okinavensis
42 Crotalus tigris
43 Leioheterodon madagascariensis
44 Acrantophis dumerili
45 Eryx johnii
46 Dendroaspis angusticeps
47 Heloderma horridum
48 Dendroaspis polylepis

1 Bitis arietans
2 Naja kaouthia
3 Ophiophagus hannah
4 Gekko gecko
5 Naja nigricollis
6 Naja melanoleuca
7 Tupinambis teguixin
8 Morelia viridis
9 Oedura marmorata
10 Hydrodynastes gigas
11 Epicrates cenchria
12 Melanosuchus niger
13 Chilabothrus angulifer
14 Bungarus caeruleus
15 Python sebae
16 Cerastes cerastes
17 Loxocemus bicolor
18 Crocodylus porosus
19 Candoia bibroni
20 Naja naja
21 Varanus exanthematicus
22 Sula granti
23 Boophis occidentalis
24 Mantella cowanii
25 Mantella madagascariensis
26 Mantella aurantiaca
27 Mantella pulchra
28 Mantella crocea
29 Mantella nigricans
30 Mantella laevigata
31 Mantella expectata
32 Mantella viridis
33 Mantidactylus pauliani
34 Boophis williamsi
35 Anolis limifrons
36 Pholidoscelis exsul
37 Pogona vitticeps
38 Darevskia unisexualis
39 Darevskia dahli
40 Darevskia valentini
41 Darevskia armeniaca
42 Darevskia raddei
43 Eremias strauchi
44 Darevskia rostombekowi
45 Darevskia portschinskii
46 Darevskia uzzelli
47 Darevskia sapphirina
48 Rhinella rubescens

1 Rhinella schneideri
2 Stenella coeruleoalba
3 Speleomantes ambrosii
4 Salamandrina terdigitata
5 Iberolacerta aurelioi
6 Iberolacerta martinezricai
7 Anaxyrus quercicus
8 Naultinus elegans
9 Liopholis guthega
10 Sceloporus cyanostictus
11 Tropicolotes nubicus
12 Callorhinus ursinus
13 Phaeognathus hubrichti
14 Oligosoma homalonotum
15 Epidalea calamita
16 Gallotia simonyi
17 Trachylepis buettneri
18 Trachylepis maculilabris
19 Acrocephalus sechellensis
20 Uma inornata
21 Thamnophis cyrtopsis
22 Lithobates sylvaticus
23 Sceloporus cowlesi
24 Aspidoscelis neomexicanus
25 Aspidoscelis uniparens
26 Dixonius hangseesom
27 Toropuku stephensi
28 Eublepharis macularius
29 Scincella lateralis
30 Heterodon simus
31 Gygis alba
32 Oceanodroma homochroa
33 Alligator sinensis
34 Lissotriton vulgaris
35 Varanus spenceri
36 Pagodroma nivea
37 Fulmarus glacialis
38 Anatololacerta danfordi
39 Acanthodactylus harranensis
40 Lepus arcticus
41 Ammospermophilus nelsoni
42 Rhacodactylus auriculatus
43 Contia tenuis
44 Polysticta stelleri
45 Bulweria bulwerii
46 Anous minutus
47 Anous stolidus
48 Junco hyemalis

1 *Chen rossii*
2
3 *Spizella breweri*
4
5 *Anolis mariarum*
6
7 *Lyciasalamandra luschani*
8
9 *Chalcides lanzai*
10
11 *Darevskia praticola*
12
13 *Takydromus tachydromoides*
14
15 *Algyroides moreoticus*
16
17 *Nucras lalandii*
18
19 *Timon lepidus*
20
21 *Testudo horsfieldii*
22
23 *Chelonoidis chilensis*
24
25 *Chelonoidis niger*
26
27 *Centrochelys sulcata*
28
29 *Necturus maculosus*
30
31 *Phymaturus punae*
32
33 *Phymaturus tenebrosus*
34
35 *Phymaturus antofagastensis*
36
37 *Anomaloglossus verbeeksnyderorum*
38
39 *Mauremys rivulata*
40
41 *Incilius mazatlanensis*
42
43 *Anaxyrus retiformis*
44
45 *Alces alces*
46
47 *Psammobates geometricus*
48
49 *Chersina angulata*
50
51 *Psammobates tentorius*
52
53 *Trionyx triunguis*
54
55 *Vijayachelys silvatica*
56
57 *Meroles squamulosus*
58
59 *Panaspis wahlbergi*
60
Uromastyx aegyptia
Vipera latastei
Salvator merianae
Paleosuchus trigonatus
Crocodylus mindorensis
Gavialis gangeticus
Thamnophis elegans
Brachyteles arachnoides
Propithecus verreauxi
Brachyteles hypoxanthus
Papio cynocephalus
Gorilla beringei
Nestor notabilis
Cyanoramphus auriceps
Cyanoramphus novaezelandiae
Theristicus melanopis
Platalea leucorodia
Plegadis ridgwayi

1 *Platycercus eximius*
2 *Ciconia boyciana*
3 *Platycercus elegans*
4 *Cyanoliseus patagonus*
5 *Geronticus calvus*
6 *Cacatua tenuirostris*
7 *Purpureicephalus spurius*
8 *Glossopsitta concinna*
9 *Psephotus haematonotus*
10 *Polytelis swainsonii*
11 *Rhynchopsitta pachyrhyncha*
12 *Neophema pulchella*
13 *Psilopsiagon aymara*
14 *Glossopsitta porphyrocephala*
15 *Neophema splendida*
16 *Psittrichas fulgidus*
17 *Ciconia maguari*
18 *Northiella haematogaster*
19 *Forpus xanthops*
20 *Phimosus infuscatus*
21 *Charmosyna papou*
22 *Alisterus scapularis*
23 *Amazona aestiva*
24 *Psittaculirostris desmarestii*
25 *Poicephalus rueppellii*
26 *Trichoglossus johnstoniae*
27 *Threskiornis aethiopicus*
28 *Plegadis chihi*
29 *Neopsephotus bourkii*
30 *Lorius domicella*
31 *Psittaculirostris edwardsii*
32 *Melopsittacus undulatus*
33 *Psittacula alexandri*
34 *Amazona rhodocorytha*
35 *Brotogeris tirica*
36 *Eudocimus albus*
37 *Forpus cyanopygius*
38 *Coracopsis vasa*
39 *Ciconia abdimii*
40 *Plegadis falcinellus*
41 *Primolius maracana*
42 *Prosopeia splendens*
43 *Vini peruviana*
44 *Pionopsitta pileata*
45 *Platalea flavipes*
46 *Trichoglossus ornatus*
47 *Prosopeia personata*
48 *Chalcopsitta atra*

1 Platalea minor
2 Vini australis
3 Aprosmictus erythropterus
4 Lorius lory
5 Mycteria ibis
6 Nymphicus hollandicus
7 Diopsittaca nobilis
8 Ciconia nigra
9 Pyrrhura leucotis
10 Cacatua galerita
11 Pyrrhura perlata
12 Forpus passerinus
13 Ciconia episcopus
14 Chalcopsitta scintillata
15 Platalea alba
16 Psittacula eupatria
17 Graydidascalus brachyurus
18 Triclaria malachitacea
19 Myiopsitta monachus
20 Loriculus vernalis
21 Leptoptilos dubius
22 Pionus maximiliani
23 Coracopsis nigra
24 Ara ambiguus
25 Eos squamata
26 Ara severus
27 Amazona finschi
28 Eos histrio
29 Amazona autumnalis
30 Eos bornea
31 Ephippiorhynchus asiaticus
32 Mycteria americana
33 Threskiornis melanocephalus
34 Aratinga auricapillus
35 Eudocimus ruber
36 Eos cyanogenia
37 Bostrychia hagedash
38 Eos reticulata
39 Threskiornis spinicollis
40 Guaruba guarouba
41 Anodorhynchus hyacinthinus
42 Platycercus venustus
43 Mycteria cinerea
44 Amazona ochrocephala
45 Trichoglossus euteles
46 Pionites leucogaster
47 Leptoptilos javanicus
48 Amazona albifrons

1 Mycteria leucocephala
2 Pionus menstruus
3 Ara chloropterus
4 Theristicus caudatus
5 Eclectus roratus
6 Lorius garrulus
7 Poicephalus senegalus
8 Tanygnathus sumatranus
9 Anastomus oscitans
10 Psittacara holochlorus
11 Ara militaris
12 Pseudibis papillosa
13 Geronticus eremita
14 Ephippiorhynchus senegalensis
15 Calyptorhynchus banksii
16 Jabiru mycteria
17 Leptoptilos crumeniferus
18 Bostrychia carunculata
19 Threskiornis molucca
20 Nipponia nippon
21 Cacatua goffiniana
22 Cacatua sulphurea
23 Cacatua sanguinea
24 Cacatua ducorpsii
25 Cacatua ophthalmica
26 Cacatua alba
27 Cacatua pastinator
28 Cacatua moluccensis
29 Forpus coelestis
30 Loriculus galgulus
31 Loriculus philippensis
32 Agapornis lilianae
33 Bolborhynchus orbytnesius
34 Neophema chrysostoma
35 Psephotus dissimilis
36 Agapornis taranta
37 Brotogeris sanctithomae
38 Psitteuteles iris
39 Psephotus varius
40 Brotogeris chiriri
41 Brotogeris pyrrhoptera
42 Brotogeris versicolurus
43 Aratinga canicularis
44 Polytelis alexandrae
45 Psittaculirostris salvadorii
46 Nandayus nenday
47 Poicephalus cryptoxanthus
48 Pionites melanocephalus

1 Pseudeos fuscata
2 Barnardius zonarius
3 Aratinga erythrogenys
4 Polytelis anthopeplus
5 Aratinga acuticaudata
6 Enicognathus leptorhynchus
7 Cyanopsitta spixii
8 Callocephalon fimbriatum
9 Poicephalus gulielmi
10 Psittacus erithacus
11 Poicephalus robustus
12 Amazona festiva
13 Ara rubrogenys
14 Calyptorhynchus baudinii
15 Amazona guildingii
16 Calyptorhynchus funereus
17 Ara glaucogularis
18 Probosciger aterrimus
19 Anodorhynchus leari
20 Ara macao
21 Lophosaurus spinipes
22 Anomalopus verreauxii
23 Lophosaurus boydii
24 Nephruerus amya
25 Concinnia queenslandiae
26 Eremitascincus richardsonii
27 Cyrtodactylus mcdonaldii
28 Cyrtodactylus tuberculatus
29 Eremitascincus pardalis
30 Egernia striolata
31 Gehyra oceanica
32 Hylarana erythraea
33 Ctenophorus fionni
34 Underwoodisaurus milii
35 Ctenophorus nuchalis
36 Chlamydosaurus kingii
37 Pseudothecadactylus lindneri
38 Varanus tristis
39 Desmognathus monticola
40 Darevskia parvula
41 Darevskia clarkorum
42 Rana italica
43 Acanthodactylus erythrurus
44 Diomedea exulans
45 Coturnix chinensis
46 Puffinus griseus
47 Pseudacris illinoensis
48 Liolaemus multicolor

1
2 Phymaturus spurcus
3 Liolaemus irregularis
4 Phymaturus aguanegra
5 Phymaturus zapalensis
6 Phelsuma rosagularis
7 Hyla sarda
8 Argenteohyla siemersi
9 Selasphorus platycercus
10 Aegolius acadicus
11 Psammmodromus hispanicus
12 Tetrao urogallus
13 Aegypius monachus
14 Milvus milvus
15 Apteryx australis
16 Strix occidentalis
17 Oxyura australis
18 Parabuteo unicinctus
19 Columba livia
20 Phoenicopterus roseus
21 Anas fulvigula
22 Harpyopsis novaeguineae
23 Aquila audax
24 Aquila nipalensis
25 Dromaius novaehollandiae
26 Gallus gallus
27 Anhinga anhinga
28 Aquila fasciata
29 Crax globulosa
30 Crax rubra
31 Gyps fulvus
32 Aquila heliaca
33 Anhinga melanogaster
34 Macrocephalon maleo
35 Gypaetus barbatus
36 Serinus canaria
37 Neophron percnopterus
38 Haliaeetus albicilla
39 Sarcoramphus papa
40 Cygnus buccinator
41 Bucorvus leadbeateri
42 Mitu tuberosum
43 Cyanocorax coeruleus
44 Fringilla coelebs
45 Sturnella neglecta
46 Struthio camelus
47 Tinamus solitarius
48 Hemorrhois nummifer
49 Ovophis monticola

1 Pseudocordylus microlepidotus
2 Ctenotus labillardieri
3 Acontias meleagris
4 Hemorrhois hippocrepis
5 Hemiergis decresiensis
6 Hyalosaurus koellikeri
7 Thamnophis proximus
8 Podarcis filfolensis
9 Lygophis anomalus
10 Nebulifera robusta
11 Trimorphodon tau
12 Crotalus pusillus
13 Dasypeltis atra
14 Ungaliophis continentalis
15 Leptodeira annulata
16 Thrasops jacksonii
17 Salvadora mexicana
18 Gerrhosaurus nigrolineatus
19 Ophiomorus tridactylus
20 Epicrates maurus
21 Xenochrophis piscator
22 Sibon nebulatus
23 Drymobius margaritiferus
24 Hypnale nepa
25 Platycephs ventromaculatus
26 Chironius carinatus
27 Anolis lineatopus
28 Lyriocephalus scutatus
29 Platycephs florulentus
30 Sphaerodactylus notatus
31 Cerastes vipera
32 Philodryas viridissima
33 Bitis rhinoceros
34 Trimeresurus purpureomaculatus
35 Psammophis sibilans
36 Varanus mitchelli
37 Eurycea wilderae
38 Ambystoma tigrinum
39 Ambystoma ordinarium
40 Siren lacertina
41 Smilisca sordida
42 Smilisca fodiens
43 Phrynoidis aspera
44 Falcipennis canadensis
45 Calcarius pictus
46 Dendragapus obscurus
47 Larus glaucescens
48 Diomedea epomophora

1 Nycticorax nycticorax
2 Bubulcus ibis
3 Aechmophorus occidentalis
4 Meleagris gallopavo
5 Pernis apivorus
6 Perdix perdix
7 Larus delawarensis
8 Gymnogyps californianus
9 Gavia arctica
10 Thalassarche chlororhynchos
11 Lamprolaima rhami
12 Synthliboramphus hypoleucus
13 Circaetus gallicus
14 Cardellina rubrifrons
15 Pterodroma leucoptera
16 Lophoictinia isura
17 Rostrhamus sociabilis
18 Morus serrator
19 Phoebeastria irrorata
20 Procellaria parkinsoni
21 Elanus caeruleus
22 Buteogallus anthracinus
23 Circus pygargus
24 Circus macrourus
25 Sula sula
26 Butastur indicus
27 Gelochelidon nilotica
28 Lonchura striata
29 Seiurus noveboracensis
30 Pica nuttalli
31 Kaupifalco monogrammicus
32 Hieraaetus morphnoides
33 Aquila pomarina
34 Haematopus palliatus
35 Lagopus leucura
36 Passerina cyanea
37 Ammodramus caudacutus
38 Ammodramus maritimus
39 Loxia leucoptera
40 Dolichonyx oryzivorus
41 Euphagus carolinus
42 Mimus polyglottos
43 Dendroica kirtlandii
44 Catharus fuscescens
45 Oceanodroma leucorhoa
46 Otus flammeolus
47 Physeter macrocephalus
48 Hyperoodon ampullatus

1 Lagenorhynchus acutus
2 Phocoenoides dalli
3 Pipistrellus subflavus
4 Balaenoptera musculus
5 Rhinolophus ferrumequinum
6 Myotis thysanodes
7 Steno bredanensis
8 Balaenoptera borealis
9 Myotis grisescens
10 Globicephala macrorhynchus
11 Lasionycteris noctivagans
12 Stenella attenuata
13 Peponocephala electra
14 Balaenoptera edeni
15 Perimyotis subflavus
16 Gloydius brevicaudus
17 Dolichophis jugularis
18 Pangshura tecta
19 Nilssonia gangetica
20 Lampropeltis nigra
21 Lepus americanus
22 Macrovipera schweizeri
23 Protobothrops elegans
24 Simalia kinghorni
25 Thamnophis hammondi
26 Batagur dhongoka
27 Chelodina oblonga
28 Acanthochelys spixii
29 Cyclanorbis senegalensis
30 Indotestudo travancorica
31 Mesoclemmys nasuta
32 Pangshura tentoria
33 Pelusios niger
34 Rhinoclemmys nasuta
35 Trachemys scripta
36 Pelusios rhodesianus
37 Gallotia galloti
38 Gallotia bravoana
39 Desmognathus ochrophaeus
40 Nimbaphrynoides occidentalis
41 Varanus griseus
42 Zamenis scalaris
43 Malpolon monspessulanus
44 Aspidoscelis scalaris
45 Acanthodactylus pardalis
46 Mesalina olivieri
47 Loxopholis guianense
48 Psammophilus dorsalis

1 *Micrurus nigrocinctus*
2 *Lissolepis coventryi*
3 *Bellatorias major*
4 *Liopholis modesta*
5 *Egernia stokesii*
6 *Rana kukunoris*
7 *Rana chensinensis*
8 *Rana coreana*
9 *Sclerophrys pardalis*
10 *Phoeniconaias minor*
11 *Pelophylax caralitanus*
12 *Pelophylax bedriagae*
13 *Phrynocephalus persicus*
14 *Mediodactylus orientalis*
15 *Acanthodactylus dumerilii*
16 *Sterna paradisaea*
17 *Phalacrocorax pelagicus*
18 *Bucephala islandica*
19 *Aythya affinis*
20 *Phalacrocorax brasilianus*
21 *Coragyps atratus*
22 *Oxyura jamaicensis*
23 *Aythya marila*
24 *Asio otus*
25 *Baeolophus bicolor*
26 *Baeolophus wollweberi*
27 *Coccyzus erythrophthalmus*
28 *Actitis macularius*
29 *Pterodroma alba*
30 *Poecile carolinensis*
31 *Coccyzus americanus*
32 *Empidonax oberholseri*
33 *Calidris mauri*
34 *Leptotila verreauxi*
35 *Progne subis*
36 *Colaptes auratus*
37 *Pelecanus erythrorhynchos*
38 *Rallus longirostris*
39 *Charadrius vociferus*
40 *Poecile atricapillus*
41 *Callipepla gambelii*
42 *Anas cyanoptera*
43 *Anas laysanensis*
44 *Anas americana*
45 *Dendrocygna autumnalis*
46 *Chaetura pelagica*
47 *Charadrius melodus*
48 *Phalaropus tricolor*

1 Streptopelia chinensis
2 Tympanuchus pallidicinctus
3 Perisoreus canadensis
4 Nucifraga columbiana
5 Corvus ossifragus
6 Stelgidopteryx ruficollis
7 Poecile gambeli
8 Empidonax traillii
9 Tyrannus verticalis
10 Butorides virescens
11 Egretta tricolor
12 Egretta caerulea
13 Botaurus lentiginosus
14 Egretta alba
15 Phalacrocorax penicillatus
16 Phalacrocorax harrisi
17 Abronia graminea
18 Macrotus waterhousii
19 Casuarius casuarius
20 Lampropeltis holbrooki
21 Ploceus cucullatus
22 Psammodromus algirus
23 Desmognathus imitator
24 Desmognathus orestes
25 Desmognathus carolinensis
26 Eurycea nana
27 Terrapene ornata
28 Rana draytonii
29 Podarcis gaigeae
30 Aspidoscelis exsanguis
31 Celestus costatus
32 Diploglossus monotropis
33 Celestus warreni
34 Oligosoma whitakeri
35 Woodworthia maculata
36 Hoplodactylus duvaucelii
37 Oligosoma maccanni
38 Oligosoma otagense
39 Oligosoma grande
40 Naultinus gemmeus
41 Bolitoglossa dofleini
42 Leptodactylus fallax
43 Cryptomys mechowii
44 Ascaphus truei
45 Eurycea quadridigitata
46 Lithobates septentrionalis
47 Anaxyrus hemiophrys
48 Lithobates clamitans

1 Lithobates pipiens
2 Anaxyrus canorus
3 Plethodon cinereus
4 Rana aurora
5 Spea intermontana
6 Hyla chrysoscelis
7 Cryptobranchus alleganiensis
8 Ambystoma maculatum
9 Ambystoma texanum
10 Pseudotriton montanus
11 Pelophylax nigromaculatus
12 Gastrophryne carolinensis
13 Amphiuma means
14 Pyxicephalus adspersus
15 Anaxyrus terrestris
16 Dendrobates auratus
17 Storeria occipitomaculata
18 Opheodrys vernalis
19 Naultinus rudis
20 Thamnophis couchii
21 Gloydus blomhoffii
22 Lampropeltis triangulum
23 Elaphe quadrivirgata
24 Lycodon rufozonatus
25 Eryx tataricus
26 Pseudopus apodus
27 Testudo hermanni
28 Dactylocnemis pacificus
29 Montivipera xanthina
30 Hemorrhois ravergieri
31 Pantherophis obsoletus
32 Macrovipera lebetina
33 Aspidoscelis sexlineatus
34 Crotalus willardi
35 Cordylus cordylus
36 Crotalus ravus
37 Smaug giganteus
38 Christinus marmoratus
39 Crotalus pricei
40 Eryx jaculus
41 Mixcoatlus melanurus
42 Ophryacus undulatus
43 Pituophis melanoleucus
44 Xantusia henshawi
45 Haldea striatula
46 Agkistrodon piscivorus
47 Crotalus lepidus
48 Chelodina longicollis

1 *Naja nivea*
2
3 *Salvadora hexalepis*
4 *Bungarus multicinctus*
5 *Nerodia taxispilota*
6 *Bothriechis aurifer*
7 *Aspidelaps lubricus*
8 *Cerrophidion godmani*
9 *Bogertophis subocularis*
10 *Myrrophis chinensis*
11 *Chondrodactylus angulifer*
12 *Atropoides nummifer*
13 *Micrurus fulvius*
14 *Crotalus mitchellii*
15 *Cyclodomorphus gerrardii*
16 *Simalia boeleni*
17 *Bothriechis lateralis*
18 *Crotalus adamanteus*
19 *Platysaurus guttatus*
20 *Elapsoidea sundevallii*
21 *Trimorphodon biscutatus*
22 *Acanthophis antarcticus*
23 *Bothrops alternatus*
24 *Coleonyx variegatus*
25 *Pseudocerastes persicus*
26 *Atropoides picadoi*
27 *Salvator rufescens*
28 *Micruroides euryxanthus*
29 *Smaug warreni*
30 *Agama impalearis*
31 *Crotalus ruber*
32 *Psammophis subtaeniatus*
33 *Protobothrops flavoviridis*
34 *Boiga trigonata*
35 *Bothriechis rowleyi*
36 *Aspidelaps scutatus*
37 *Atractaspis bibronii*
38 *Telescopus semiannulatus*
39 *Trimeresurus albolabris*
40 *Causus rhombeatus*
41 *Bothrops neuwiedi*
42 *Varanus gouldii*
43 *Platysaurus imperator*
44 *Ctenosaura palearis*
45 *Sauromalus hispidus*
46 *Trimeresurus popeiorum*
47 *Limaformosa capensis*
48 *Senticolis triaspis*
49 *Sceloporus serrifer*

1 *Crotalus enyo*
2
3 *Phelsuma cepediana*
4 *Sanzinia madagascariensis*
5 *Dasypeltis scabra*
6 *Echis carinatus*
7 *Clelia clelia*
8 *Chilomeniscus stramineus*
9
10 *Python curtus*
11 *Crotalus durissus*
12 *Bungarus fasciatus*
13 *Dendroaspis jamesoni*
14 *Sauromalus varius*
15 *Crotalus basiliscus*
16 *Varanus giganteus*
17 *Dasypeltis medici*
18 *Spalerosophis diadema*
19 *Broadleysaurus major*
20 *Calotes versicolor*
21 *Uromacer oxyrhynchus*
22 *Chilabothrus striatus*
23 *Bothrochilus boa*
24 *Oxybelis aeneus*
25 *Chilabothrus fordii*
26 *Toxicodryas blandingii*
27 *Corytophanes cristatus*
28 *Bothrops atrox*
29 *Gonatodes albogularis*
30 *Drymarchon corais*
31 *Spilotes pullatus*
32 *Laemactis longipes*
33 *Leptophis mexicanus*
34 *Ameiva ameiva*
35 *Iguana iguana*
36 *Crotalus catalinensis*
37 *Agkistrodon bilineatus*
38 *Varanus timorensis*
39 *Daboia russelii*
40 *Lachesis muta*
41 *Oxyuranus scutellatus*
42 *Anolis roquet*
43 *Bothrops lanceolatus*
44 *Tiliqua gigas*
45 *Chilabothrus exsul*
46 *Coleonyx elegans*
47 *Cyclura nubila*
48 *Pseudelaphe flavirufa*
49 *Eryx conicus*
50 *Bothrochilus albertisii*

1 *Naja pallida*
2 *Naja sputatrix*
3 *Basiliscus plumifrons*
4 *Boiga cynodon*
5 *Naja samarensis*
6 *Tomistoma schlegelii*
7 *Hydrosaurus pustulatus*
8 *Chilabothrus subflavus*
9 *Crocodylus palustris*
10 *Naja haje*
11 *Leiolepis belliana*
12 *Echis coloratus*
13 *Dendroaspis viridis*
14 *Varanus indicus*
15 *Pelusios castaneus*
16 *Trimeresurus gramineus*
17 *Chilabothrus inornatus*
18 *Eunectes deschauenseei*
19 *Liasis fuscus*
20 *Bothrops caribbaeus*
21 *Varanus mertensi*
22 *Chilabothrus chrysogaster*
23 *Phelsuma sundbergi*
24 *Rhamphiophis oxyrhynchus*
25 *Phelsuma astriata*
26 *Arctocephalus gazella*
27 *Lacerta viridis*
28 *Tarentola mauritanica*
29 *Farancia abacura*
30 *Thamnophis marcianus*
31 *Matobosaurus validus*
32 *Heteronotia binoei*
33 *Ptyas mucosa*
34 *Acrantophis madagascariensis*
35 *Boaedon fuliginosus*
36 *Lepidophyma flavimaculatum*
37 *Coelognathus helena*
38 *Dracaena guianensis*
39 *Anolis bimaculatus*
40 *Ctenosaura bakeri*
41 *Heterodon nasicus*
42 *Eunectes notaeus*
43 *Candoia carinata*
44 *Basiliscus vittatus*
45 *Malayopython reticulatus*
46 *Hemitheconyx caudicinctus*
47 *Thamnophis radix*
48 *Glyptemys insculpta*

1 *Emys orbicularis*
2
3 *Thamnophis butleri*
4
5 *Sistrurus catenatus*
6
7 *Apalone spinifera*
8
9 *Mauremys japonica*
10
11 *Homopus areolatus*
12
13 *Pseudemys concinna*
14
15 *Graptemys barbouri*
16
17 *Cuora flavomarginata*
18
19 *Graptemys nigrinoda*
20
21 *Sternotherus carinatus*
22
23 *Rhinocheilus lecontei*
24
25 *Graptemys oculifera*
26
27 *Phrynosoma hillebrandi*
28
29 *Mauremys mutica*
30
31 *Mauremys nigricans*
32
33 *Mauremys sinensis*
34
35 *Cuora trifasciata*
36
37 *Lichanura trivirgata*
38
39 *Graptemys caglei*
40
41 *Palea steindachneri*
42
43 *Platysternon megacephalum*
44
45 *Pelusios subniger*
46
47 *Malacochersus tornieri*
48
49 *Chamaeleo dilepis*
50
51 *Caiman latirostris*
52
53 *Indotestudo forstenii*
54
55 *Phrynosoma macleayi*
56
57 *Pelomedusa subrufa*
58
59 *Hypsiglena torquata*
60
61 *Platemys platycephala*
62
63 *Bothrops asper*
64
65 *Manouria emys*
66
67 *Mecistops cataphractus*
68
69 *Claudius angustatus*
70
71 *Chelonoidis denticulatus*
72
73 *Kinosternon scorpioides*
74
75 *Osteolaemus tetraspis*
76
77 *Dermatemys mawii*
78
79 *Chelonoidis carbonarius*
80
81 *Podocnemis expansa*
82
83 *Chelus fimbriata*
84
85 *Cyclanoides dentata*
86
87 *Cuora amboinensis*
88
89 *Mauremys annamensis*
90
91 *Hardella thurjii*
92
93 *Geoclemys hamiltonii*
94
95 *Podocnemis erythrocephala*

1 *Crocodylus rhombifer*
2 *Anolis cristatellus*
3 *Pangshura smithii*
4 *Melanochelys trijuga*
5 *Lissemys punctata*
6 *Crocodylus siamensis*
7 *Carettochelys insculpta*
8 *Batagur affinis*
9 *Mesoclemmys dahli*
10 *Heosemys grandis*
11 *Malayemys subtrijuga*
12 *Heosemys annandalii*
13 *Geochelone elegans*
14 *Crocodylus novaeguineae*
15 *Cnemidophorus murinus*
16 *Holbrookia maculata*
17 *Crotaphytus collaris*
18 *Aspidoscelis tigris*
19 *Sceloporus magister*
20 *Elgaria kingii*
21 *Phrynosoma cornutum*
22 *Sceloporus scalaris*
23 *Phrynosoma modestum*
24 *Cophosaurus texanus*
25 *Aspidoscelis tessellatus*
26 *Hemidactylus frenatus*
27 *Phacochoerus aethiopicus*
28 *Myodes rutilus*
29 *Geocrinia alba*
30 *Geocrinia vitellina*
31 *Eulamprus tympanum*
32 *Eulamprus leuraensis*
33 *Phelsuma inexpectata*
34 *Rhinella arenarum*
35 *Furcifer labordi*
36 *Zamenis longissimus*
37 *Chaetodipus formosus*
38 *Austrelaps superbus*
39 *Austrelaps ramsayi*
40 *Hoplocephalus stephensii*
41 *Tropidechis carinatus*
42 *Pseudonaja textilis*
43 *Denisonia devisi*
44 *Suta suta*
45 *Oxyuranus microlepidotus*
46 *Dendrelaphis punctulatus*
47 *Pseudonaja guttata*
48 *Pseudoferania polylepis*

1 *Notechis scutatus*
2
3 *Phymaturus palluma*
4
5 *Triturus dobrogicus*
6
7 *Scincus scincus*
8
9 *Coluber constrictor*
10
11 *Lampropeltis zonata*
12
13 *Agkistrodon contortrix*
14
15 *Emys blandingii*
16
17 *Chrysemys picta*
18
19 *Glyptemys muhlenbergii*
20
21 *Chelydra serpentina*
22
23 *Clemmys guttata*
24
25 *Graptemys geographica*
26
27 *Apalone mutica*
28
29 *Graptemys pseudogeographica*
30
31 *Graptemys ouachitensis*
32
33 *Testudo graeca*
34
35 *Kinosternon flavescens*
36
37 *Macrochelys temminckii*
38
39 *Kinosternon subrubrum*
40
41 *Graptemys pulchra*
42
43 *Malaclemys terrapin*
44
45 *Deirochelys reticularia*
46
47 *Kinosternon sonoriense*
48
49 *Kinosternon baurii*
50
51 *Gopherus polyphemus*
52
53 *Pseudemys nelsoni*
54
55 *Stigmochelys pardalis*
56
57 *Pseudemys peninsularis*
58
59 *Trachemys stejnegeri*
60
 Lepidochelys olivacea
 Eretmochelys imbricata
 Caretta caretta
 Chelonia mydas
 Dermochelys coriacea
 Actinemys marmorata
 Sternotherus minor
 Kinosternon stejnegeri
 Pseudemys alabamensis
 Pelodiscus sinensis
 Terrapene carolina
 Podarcis tauricus
 Podarcis muralis
 Rana iberica
 Pelophylax saharicus
 Pelodytes punctatus
 Crotalus oreganus
 Neurergus kaiseri

1 Barbarophryne brongersmai
2 Xantusia riversiana
3 Eurycea spelaea
4 Uta stansburiana
5 Myuchelys bellii
6 Coronella girondica
7 Telescopus fallax
8 Macroprotodon cucullatus
9 Syrmaeus reevesii
10 Aletris lathami
11 Cercartetus caudatus
12 Sceloporus variabilis
13 Anolis humilis
14 Anolis cupreus
15 Anolis tropidolepis
16 Ophisaurus attenuatus
17 Lepidophyma smithii
18 Pelecanus crispus
19 Pyrrhocorax pyrrhocorax
20 Aptenodytes patagonicus
21 Caracara plancus
22 Anser anser
23 Grus japonensis
24 Geranoaetus melanoleucus
25 Gallirallus australis
26 Pelecanus onocrotalus
27 Otis tarda
28 Phasianus colchicus
29 Ardea coccyz
30 Casuaris bennetti
31 Corvus coronoides
32 Grus monacha
33 Leucosarcia melanoleuca
34 Cereopsis novaehollandiae
35 Acridotheres cristatellus
36 Plectropterus gambensis
37 Eunymphicus cornutus
38 Eolophus roseicapilla
39 Tauraco leucotis
40 Poicephalus meyeri
41 Columbina inca
42 Gypohierax angolensis
43 Momotus mexicanus
44 Agapornis pullarius
45 Harpia harpyja
46 Psittacula krameri
47 Ara ararauna
48 Merops bullockoides

1 Ceratogymna atrata
2 Pavo cristatus
3 Caracara cheriway
4 Tanygnathus megalorhynchus
5 Aquila rapax
6 Coracias benghalensis
7 Deroptyus accipitrinus
8 Amazona amazonica
9 Amazona auropalliata
10 Geopelia striata
11 Turdoides striata
12 Streptopelia decaocto
13 Bubalornis albirostris
14 Poicephalus rufiventris
15 Cinnerys asiaticus
16 Gyps africanus
17 Muscicapa striata
18 Aquila adalberti
19 Alopochen aegyptiaca
20 Buceros bicornis
21 Casuarii unappendiculatus
22 Larus pacificus
23 Alektoris rufa
24 Grus leucogeranus
25 Grus rubicunda
26 Struthio cinerea
27 Corcorax melanorhamphos
28 Corvus cornix
29 Rupicola rupicola
30 Leiothrix lutea
31 Oriolus xanthornus
32 Sphecotheres viridis
33 Paradisaea apoda
34 Lamprolaima hildebrandti
35 Lamprolaima caudatus
36 Sylvia borin
37 Cyanerpes caeruleus
38 Ardea goliath
39 Balaeniceps rex
40 Asaphus montanus
41 Ambystoma jeffersonianum
42 Kaloula borealis
43 Rana kunyensis
44 Leiopelma hochstetteri
45 Leiopelma pakeka
46 Leiopelma archeyi
47 Leiopelma hamiltoni
48 Lithobates sphenoccephalus

1 Guibemantis punctatus
2 Pleurodeles nebulosus
3 Ambystoma flavipiperatum
4 Lithobates sevosus
5 Pseudis platensis
6 Incilius nebulifer
7 Pseudacris nigrita
8 Ameerega hahneli
9 Allobates femoralis
10 Orcinus orca
11 Notophthalmus perstriatus
12 Hierophis viridiflavus
13 Podarcis erhardii
14 Ablepharus kitaibelii
15 Salamandra atra
16 Sclerophrys pentoni
17 Branta bernicla
18 Pluvialis apricaria
19 Pluvialis squatarola
20 Stercorarius parasiticus
21 Motacilla flava
22 Rissa tridactyla
23 Tringa erythropus
24 Lagopus lagopus
25 Lymnocyrtus minimus
26 Anser brachyrhynchus
27 Cygnus columbianus
28 Perisoreus infaustus
29 Calidris maritima
30 Fratercula arctica
31 Mergellus albellus
32 Calidris alpina
33 Somateria mollissima
34 Anas acuta
35 Dryocopus martius
36 Cepphus grylle
37 Branta leucopsis
38 Limosa limosa
39 Larus fuscus
40 Mergus serrator
41 Buteo lagopus
42 Strix nebulosa
43 Poecile cinctus
44 Phalacrocorax carbo
45 Podiceps cristatus
46 Surnia ulula
47 Larus canus
48 Dendrocopos major

1 *Calidris alba*
2 *Alca torda*
3 *Clangula hyemalis*
4 *Anas crecca*
5 *Falco columbarius*
6 *Pyrhacorax graculus*
7 *Larus marinus*
8 *Numenius arquata*
9 *Dendrocopos leucotos*
10 *Accipiter gentilis*
11 *Acrocephalus schoenobaenus*
12 *Falco tinnunculus*
13 *Petronia petronia*
14 *Scolopax rusticola*
15 *Anthus petrosus*
16 *Catharacta skua*
17 *Puffinus puffinus*
18 *Saxicola rubetra*
19 *Morus bassanus*
20 *Calidris ferruginea*
21 *Aegithalos caudatus*
22 *Rallus aquaticus*
23 *Tadorna tadorna*
24 *Mergus merganser*
25 *Anthus pratensis*
26 *Anser fabalis*
27 *Fulica atra*
28 *Cecropis daurica*
29 *Coturnix coturnix*
30 *Aythya fuligula*
31 *Columba palumbus*
32 *Emberiza citrinella*
33 *Columba oenas*
34 *Circus aeruginosus*
35 *Tringa totanus*
36 *Turdus merula*
37 *Ixobrychus minutus*
38 *Tringa glareola*
39 *Bombycilla garrulus*
40 *Hydrocoloeus minutus*
41 *Strix uralensis*
42 *Merops apiaster*
43 *Emberiza hortulana*
44 *Sitta europaea*
45 *Phoenicurus phoenicurus*
46 *Luscinia megarhynchos*
47 *Picus viridis*
48 *Coccothraustes coccothraustes*

1 Tringa stagnatilis
2 Glaucidium passerinum
3 Certhia familiaris
4 Cygnus cygnus
5 Acrocephalus melanopogon
6 Apus apus
7 Accipiter nisus
8 Dendrocopos syriacus
9 Acrocephalus dumetorum
10 Sturnus vulgaris
11 Strix aluco
12 Alauda arvensis
13 Buteo buteo
14 Calidris temminckii
15 Larus michahellis
16 Acrocephalus scirpaceus
17 Actitis hypoleucos
18 Circus cyaneus
19 Calonectris diomedea
20 Athene noctua
21 Charadrius alexandrinus
22 Ardea purpurea
23 Sylvia melanocephala
24 Galerida cristata
25 Otus scops
26 Anthus trivialis
27 Anthus cervinus
28 Vanellus vanellus
29 Ardea cinerea
30 Tachybaptus ruficollis
31 Aythya ferina
32 Phylloscopus sibilatrix
33 Gallinago gallinago
34 Acrocephalus arundinaceus
35 Falco eleonora
36 Pycnonotus xanthopygos
37 Tringa nebularia
38 Alcedo atthis
39 Chlidonias niger
40 Himantopus himantopus
41 Gallinula chloropus
42 Egretta garzetta
43 Sylvia atricapilla
44 Riparia riparia
45 Acrocephalus stentoreus
46 Sterna hirundo
47 Hippolais polyglotta
48 Xenus cinereus

1
2 *Emberiza schoeniclus*
3 *Recurvirostra avosetta*
4 *Phylloscopus collybita*
5 *Vanellus spinosus*
6 *Calidris minuta*
7 *Coracias garrulus*
8 *Botaurus stellaris*
9 *Charadrius dubius*
10 *Cuculus canorus*
11 *Haematopus ostralegus*
12 *Charadrius hiaticula*
13 *Burhinus oedicephalus*
14 *Falco naumanni*
15 *Caprimulgus europaeus*
16 *Falco vespertinus*
17 *Ciconia ciconia*
18 *Iduna pallida*
19 *Phoenicurus ochruros*
20 *Phylloscopus trochilus*
21 *Passer montanus*
22 *Carduelis flammea*
23 *Luscinia svecica*
24 *Carduelis spinus*
25 *Pica pica*
26 *Anas querquedula*
27 *Anas penelope*
28 *Melanitta nigra*
29 *Netta rufina*
30 *Melanitta fusca*
31 *Caprimulgus ruficollis*
32 *Uria aalge*
33 *Charadrius morinellus*
34 *Sterna albifrons*
35 *Ichthyophaga melanocephala*
36 *Chroicocephalus genei*
37 *Ichthyophaga atricapilla*
38 *Sterna caspia*
39 *Limicola falcinellus*
40 *Tringa ochropus*
41 *Philomachus pugnax*
42 *Streptopelia turtur*
43 *Ceryle rudis*
44 *Halcyon smyrnensis*
45 *Tetrastes bonasia*
46 *Tetrao tetrix*
47 *Hippolais icterina*
48 *Cinclus cinclus*
49 *Nucifraga caryocatactes*
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1 Corvus monedula
2 Corvus frugilegus
3 Corvus corone
4 Emberiza aureola
5 Miliaria calandra
6 Carduelis cannabina
7 Carduelis chloris
8 Delichon urbica
9 Lanius collurio
10 Lanius senator
11 Turdoides squamiceps
12 Locustella naevia
13 Locustella luscinioides
14 Locustella fluviatilis
15 Motacilla cinerea
16 Motacilla alba
17 Saxicola torquata
18 Ficedula albicollis
19 Erithacus rubecula
20 Erythropygia galactotes
21 Oenanthe oenanthe
22 Parus caeruleus
23 Parus cristatus
24 Poecile montanus
25 Poecile palustris
26 Parus major
27 Prunella modularis
28 Remiz pendulinus
29 Sylvia communis
30 Sylvia nisoria
31 Turdus philomelos
32 Turdus pilaris
33 Turdus torquatus
34 Turdus viscivorus
35 Dendrocopos minor
36 Picoides tridactylus
37 Podiceps nigricollis
38 Phalacrocorax aristotelis
39 Corvus corax
40 Falco cherrug
41 Oenanthe hispanica
42 Elseyia irwini
43 Cyclura rileyi
44 Aspidoscelis marmoratus
45 Sceloporus jarrovi
46 Molossus molossus
47 Eptesicus nilssoni
48 Vespertilio murinus

1 *Myotis nattereri*
2 *Rhinolophus euryale*
3 *Rhinolophus hipposideros*
4 *Plecotus austriacus*
5 *Myotis myotis*
6 *Eptesicus serotinus*
7 *Pipistrellus pipistrellus*
8 *Myotis bechsteini*
9 *Podarcis bocagei*
10 *Iberolacerta monticola*
11 *Urosaurus graciosus*
12 *Hylobates muelleri*
13 *Balaena mysticetus*
14 *Gambelia sila*
15 *Gopherus berlandieri*
16 *Astrochelys yniphora*
17 *Litoria spenceri*
18 *Plethodon jordani*
19 *Craugastor augusti*
20 *Scinax fuscovarius*
21 *Trachylepis spilogaster*
22 *Alytes dickhilleni*
23 *Carphophis amoenus*
24 *Paleosuchus palpebrosus*
25 *Bellatorias frerei*
26 *Aprasia striolata*
27 *Delma inornata*
28 *Oligosoma lichenigera*
29 *Pygopus nigriceps*
30 *Egernia saxatilis*
31 *Cyclodomorphus michaeli*
32 *Anomalopus swansoni*
33 *Strophurus ciliaris*
34 *Egernia kingii*
35 *Intellagama lesueurii*
36 *Ctenotus regius*
37 *Rhynchoedura ornata*
38 *Ctenotus leonhardii*
39 *Diplodactylus conspicillatus*
40 *Ptyodactylus guttatus*
41 *Morethia boulengeri*
42 *Diplodactylus tessellatus*
43 *Ctenosaura hemilopha*
44 *Galemys pyrenaicus*
45 *Balaenoptera acutorostrata*
46 *Heterohyrax brucei*
47 *Catagonus wagneri*
48 *Hylochoerus meinertzhageni*

1 Cephalopachus bancanus
2 Apodemus agrarius
3 Boehmantis microtypanum
4 Rana latastei
5 Scaphiophryne gottlebei
6 Boophis tsilomaro
7 Pelobates varaldii
8 Anguis veronensis
9 Chalcides chalcides
10 Pelophylax ridibundus
11 Darevskia rudis
12 Darevskia bithynica
13 Apathya cappadocica
14 Iranolacerta brandtii
15 Liolaemus pictus
16 Eurycea sosorum
17 Plethodon teyahalee
18 Epipedobates anthonyi
19 Epipedobates boulengeri
20 Mantella betsileo
21 Rhombophryne pygmaea
22 Eleutherodactylus monensis
23 Hyperolius nitidulus
24 Sceloporus undulatus
25 Natrix maura
26 Plethodon metcalfi
27 Gorilla gorilla
28 Sapajus apella
29 Plestiodon obsoletus
30 Lacerta strigata
31 Podarcis siculus
32 Phelsuma lineata
33 Liolaemus quilmes
34 Phodopus campbelli
35 Eubalaena glacialis
36 Anomaloglossus beebei
37 Tropidophorus laotus
38 Nerodia sipedon
39 Thamnophis sirtalis
40 Heterodon platirhinos
41 Naultinus manukanus
42 Naultinus stellatus
43 Terrapene coahuila
44 Astrochelys radiata
45 Tiliqua nigrolutea
46 Epibator nigrofasciolatum
47 Rhyacotriton olympicus
48 Mustela erminea

1 Vulpes lagopus
2 Dicrostonyx groenlandicus
3 Gulo gulo
4 Rangifer tarandus
5 Canis lupus
6 Mustela nivalis
7 Peromyscus maniculatus
8 Canis latrans
9 Zapus hudsonius
10 Lutra lutra
11 Meriones unguiculatus
12 Myotis lucifugus
13 Taxidea taxus
14 Microtus agrestis
15 Lasiopodomys brandtii
16 Ochotona princeps
17 Sorex araneus
18 Marmota monax
19 Phodopus sungorus
20 Lemmus lemmus
21 Tamias striatus
22 Eptesicus fuscus
23 Capreolus capreolus
24 Oreamnos americanus
25 Enhydra lutris
26 Neomys fodiens
27 Mustela putorius
28 Castor canadensis
29 Ursus arctos
30 Vulpes velox
31 Sciurus carolinensis
32 Condylura cristata
33 Microtus arvalis
34 Microtus ochrogaster
35 Chaetophractus villosus
36 Mus musculus
37 Reithrodon auritus
38 Blarina brevicauda
39 Erinaceus europaeus
40 Galea musteloides
41 Lepus timidus
42 Peromyscus leucopus
43 Rattus norvegicus
44 Plecotus auritus
45 Burramys parvus
46 Mephitis mephitis
47 Phyllostomus hastatus
48 Dipodomys ordii

1 Perognathus parvus
2 Cricetus cricetus
3 Ailurus fulgens
4 Ursus americanus
5 Antilocapra americana
6 Lagidium viscacia
7 Chaetophractus vellerosus
8 Puma concolor
9 Crocidura suaveolens
10 Platyrrhinus lineatus
11 Crocidura flavescens
12 Myocastor coypus
13 Spermophilus citellus
14 Ornithorhynchus anatinus
15 Lynx rufus
16 Apodemus flavicollis
17 Hemiechinus auritus
18 Geomys bursarius
19 Cynomys ludovicianus
20 Didelphis virginiana
21 Dasyurus viverrinus
22 Perameles gunnii
23 Apodemus sylvaticus
24 Sarcophilus harrisii
25 Thomomys bottae
26 Ammospermophilus leucurus
27 Cervus elaphus
28 Vulpes macrotis
29 Microtus guentheri
30 Zaedyus pichi
31 Desmodus rotundus
32 Micromys minutus
33 Cercartetus nanus
34 Nyctereutes procyonoides
35 Potorous tridactylus
36 Perognathus longimembris
37 Dipodomys heermanni
38 Martes martes
39 Sylvilagus audubonii
40 Spalacopus cyanus
41 Dasyurus maculatus
42 Hystrix africaeaustralis
43 Peromyscus californicus
44 Phyllostomus discolor
45 Cryptotis parva
46 Antrozous pallidus
47 Phascolarctos cinereus
48 Antechinus stuartii

1 *Didelphis marsupialis*
2 *Pseudocheirus peregrinus*
3 *Isoodon obesulus*
4 *Macrotis lagotis*
5 *Mystromys albicaudatus*
6 *Antechinus swainsonii*
7 *Chinchilla lanigera*
8 *Phascogale tapoatafa*
9 *Myrmecobius fasciatus*
10 *Lutreolina crassicaudata*
11 *Myosorex varius*
12 *Meles meles*
13 *Genetta tigrina*
14 *Crociodura leucodon*
15 *Bettongia penicillata*
16 *Dasyurus geoffroii*
17 *Lagostomus maximus*
18 *Gerbilliscus afra*
19 *Tolypeutes matacus*
20 *Octodon degus*
21 *Mesocricetus auratus*
22 *Sturnira lilium*
23 *Rattus fuscipes*
24 *Leopardus wiedii*
25 *Peromyscus truei*
26 *Lasiorninus latifrons*
27 *Tamandua tetradactyla*
28 *Euphractus sexcinctus*
29 *Macropus eugenii*
30 *Sminthopsis crassicaudata*
31 *Procyon cancrivorus*
32 *Ochrotomys nuttalli*
33 *Microtus pinetorum*
34 *Chaetodipus fallax*
35 *Antechinus flavipes*
36 *Glossophaga soricina*
37 *Nasua nasua*
38 *Setonix brachyurus*
39 *Jaculus orientalis*
40 *Dipodomys merriami*
41 *Odocoileus virginianus*
42 *Myrmecophaga tridactyla*
43 *Baiomys taylori*
44 *Macroscelides proboscideus*
45 *Macrotus californicus*
46 *Diphylla ecaudata*
47 *Dasypus novemcinctus*
48 *Rattus rattus*

1 Dipodomys deserti
2 Cerdocyon thous
3 Dasypsecta azarae
4 Chironectes minimus
5 Lasiurus cinereus
6 Macropus rufus
7 Sigmodon hispidus
8 Microgale talazaci
9 Myotis velifer
10 Pteropus poliocephalus
11 Paraechinus aethiopicus
12 Fossa fossana
13 Rattus lutreolus
14 Canis mesomelas
15 Pecari tajacu
16 Microgale dobsoni
17 Onychomys torridus
18 Myotis nigricans
19 Mus minutoides
20 Hyaena hyaena
21 Pedetes capensis
22 Elephantulus rozeti
23 Gerbillus perpallidus
24 Hydromys chrysogaster
25 Sus scrofa
26 Miniopterus schreibersi
27 Suricata suricatta
28 Monodelphis domestica
29 Macropus robustus
30 Tupaia belangeri
31 Planigale tenuirostris
32 Phalanger gymnotis
33 Antechinomys laniger
34 Desmodillus auricularis
35 Perameles nasuta
36 Setifer setosus
37 Tenrec ecaudatus
38 Caluromys derbianus
39 Graphiurus murinus
40 Madoqua kirkii
41 Isoodon macrourus
42 Neotoma lepida
43 Coendou prehensilis
44 Notomys alexis
45 Dasycercus cristicauda
46 Neotoma albigula
47 Myotis yumanensis
48 Echinops telfairi

1 Pteropus rodricensis
2 Ovis canadensis
3 Myotis vivesi
4 Vulpes rueppellii
5 Peromyscus polionotus
6 Podomys floridanus
7 Cheirogaleus medius
8 Funisciurus anerythrus
9 Acinonyx jubatus
10 Peromyscus crinitus
11 Potos flavus
12 Spilogale putorius
13 Raphicerus campestris
14 Trichosurus vulpecula
15 Alouatta palliata
16 Philander opossum
17 Carollia perspicillata
18 Arctogalidia trivirgata
19 Suncus murinus
20 Acomys cahirinus
21 Papio hamadryas
22 Dasyuroides byrnei
23 Colobus guereza
24 Peromyscus eremicus
25 Aotus trivirgatus
26 Cricetomys gambianus
27 Leopardus pardalis
28 Dobsonia moluccensis
29 Leontopithecus rosalia
30 Geocapromys brownii
31 Dasyprocta leporina
32 Arctictis binturong
33 Cuniculus paca
34 Noctilio leporinus
35 Saccostomus campestris
36 Elephantulus intufi
37 Callimico goeldii
38 Dendrolagus matschiei
39 Procyon lotor
40 Proechimys semispinosus
41 Artibeus jamaicensis
42 Loris tardigradus
43 Otolemur crassicaudatus
44 Priodontes maximus
45 Galago moholi
46 Procavia capensis
47 Connochaetes taurinus
48 Gerbillus gerbillus

1 Rhabdomys pumilio
2 Atelerix albiventris
3 Heliosciurus rufobrachium
4 Tragulus javanicus
5 Arctocebus calabarensis
6 Pteropus vampyrus
7 Leptailurus serval
8 Dasyurus hallucatus
9 Eulemur fulvus
10 Capromys pilorides
11 Erythrocebus patas
12 Cynopterus brachyotis
13 Perodicticus potto
14 Myoprocta acouchy
15 Heterocephalus glaber
16 Pseudantechinus macdonnellensis
17 Panthera tigris
18 Saccoteryx bilineata
19 Echymipera rufescens
20 Nasua narica
21 Otolemur garnettii
22 Vulpes vulpes
23 Tatera indica
24 Cercopithecus mitis
25 Macaca mulatta
26 Saguinus geoffroyi
27 Vulpes zerda
28 Pteropus scapulatus
29 Bassariscus sumichrasti
30 Hydrochoerus hydrochaeris
31 Elephantulus rufescens
32 Cannomys badius
33 Herpestes javanicus
34 Elephas maximus
35 Conilurus penicillatus
36 Gerbillus pyramidum
37 Kerodon rupestris
38 Marmosa robinsoni
39 Philantomba monticola
40 Lagorchestes conspicillatus
41 Macroderma gigas
42 Tupaia glis
43 Lycaon pictus
44 Metachirus nudicaudatus
45 Choloepus hoffmanni
46 Panthera leo
47 Nycticebus coucang
48 Pteropus pumilus

1 Kobus ellipsiprymnus
2 Saimiri sciureus
3 Panthera onca
4 Callithrix jacchus
5 Planigale maculata
6 Leptonycteris curasoae
7 Trichomys apereoides
8 Tachyglossus aculeatus
9 Melursus ursinus
10 Equus asinus
11 Orycteropus afer
12 Pteropus hypomelanus
13 Sekeetamys calurus
14 Jaculus jaculus
15 Sminthopsis macroura
16 Pteropus giganteus
17 Oryx leucoryx
18 Proteles cristata
19 Tamias minimus
20 Callithrix pygmaea
21 Cryptomys damarensis
22 Urogale everetti
23 Cavia porcellus
24 Xerus inauris
25 Galerella sanguinea
26 Herpailurus yagouaroundi
27 Lama glama
28 Taurotragus oryx
29 Camelus dromedarius
30 Lampropholis guichenoti
31 Ctenotus taeniolatus
32 Ctenophorus maculosus
33 Ctenophorus ornatus
34 Taricha rivularis
35 Lissotriton boscai
36 Leiocephalus barahonensis
37 Leiocephalus schreibersii
38 Tropidophis haetianus
39 Aristelliger lar
40 Anolis chlorocyanus
41 Anolis semilineatus
42 Cyclura cornuta
43 Anolis smallwoodi
44 Tretanorhinus variabilis
45 Anolis allisoni
46 Anolis equestris
47 Anolis cuvieri
48 Leiocephalus carinatus

1 *Tropidophis greenwayi*
2 *Anolis leachii*
3 *Tropidophis canus*
4 *Anolis garmani*
5 *Anolis gundlachi*
6 *Iguana delicatissima*
7 *Cyclura carinata*
8 *Tropidophis caymanensis*
9 *Anolis oculatus*
10 *Cnemidophorus vanzoi*
11 *Chilabothrus monensis*
12 *Batrachoseps attenuatus*
13 *Uta palmeri*
14 *Oligosoma lineoocellatum*
15 *Oligosoma kokowai*
16 *Philoria frosti*
17 *Philoria kundagungan*
18 *Taeniopygia guttata*
19 *Crocodilurus amazonicus*
20 *Graptemys flavimaculata*
21 *Elaphe quatuorlineata*
22 *Bitis worthingtoni*
23 *Crotalus totonacus*
24 *Pseudoeurycea brunnata*
25 *Charina bottae*
26 *Laemactes serratus*
27 *Rana sauteri*
28 *Bombina maxima*
29 *Eutropis longicaudata*
30 *Sceloporus merriami*
31 *Tragelaphus buxtoni*
32 *Pachydactylus acuminatus*
33 *Rhoptropus bradfieldi*
34 *Rhoptropus boultoni*
35 *Lygodactylus picturatus*
36 *Pachydactylus weberi*
37 *Bassiana duperreyi*
38 *Phyllurus platurus*
39 *Meroles anchietae*
40 *Pleurodema thaul*
41 *Kinosternon hirtipes*
42 *Cyclura cychlura*
43 *Canis familiaris*
44 *Bradypodion pumilum*
45 *Lygodactylus capensis*
46 *Trachylepis varia*
47 *Xenosaurus grandis*
48 *Melanophryniscus moreirae*

1 Podarcis pityusensis
2 Lacerta bilineata
3 Podarcis hispanicus
4 Podarcis tiliguerta
5 Gallotia caesaris
6 Gallotia stehlini
7 Chioninia coctei
8 Scelarcis perspicillata
9 Teira dugesii
10 Varecia variegata
11 Capra nubiana
12 Tapirus terrestris
13 Hylobates lar
14 Cercopithecus wolfi
15 Sceloporus tristichus
16 Xantusia arizonae
17 Sceloporus arenicolus
18 Dendrohyrax dorsalis
19 Passerculus sandwichensis
20 Icterus spurius
21 Hynobius leechii
22 Asaccus barani
23 Hemidactylus turcicus
24 Japalura kumaonensis
25 Sitana schleichi
26 Sylvirana nigrovittata
27 Glandirana rugosa
28 Pelophylax porosus
29 Rana pseudodalmatina
30 Varanus flavescens
31 Varanus albigularis
32 Hesperoedura reticulata
33 Corallus caninus
34 Gehyra variegata
35 Calcarius lapponicus
36 Pipilo erythrophthalmus
37 Chondestes grammacus
38 Junco phaeonotus
39 Sporophila torqueola
40 Amphisipiza bilineata
41 Melospiza melodia
42 Carpodacus mexicanus
43 Carpodacus cassinii
44 Himantopus sanguinea
45 Zonotrichia querula
46 Melospiza lincolnii
47 Pipilo chlorurus
48 Zonotrichia atricapilla

1 Plectrophenax hyperboreus
2 Pipilo fuscus
3 Pipilo aberti
4 Carduelis psaltria
5 Icterus cucullatus
6 Icterus parisorum
7 Icterus pectoralis
8 Euphagus cyanocephalus
9 Quiscalus mexicanus
10 Calidris minutilla
11 Eremophila alpestris
12 Fulica americana
13 Egretta thula
14 Calidris himantopus
15 Patagioenas fasciata
16 Limnodromus griseus
17 Zosterops japonicus
18 Buteo platypterus
19 Aix sponsa
20 Sternula antillarum
21 Columbina passerina
22 Patagioenas leucocephala
23 Poocetes gramineus
24 Calypte anna
25 Aythya collaris
26 Cyanocitta stelleri
27 Hemignathus virens
28 Molothrus ater
29 Vermivora luciae
30 Dendroica fusca
31 Myioborus pictus
32 Wilsonia canadensis
33 Dendroica caerulescens
34 Thryomanes bewickii
35 Campptostoma imberbe
36 Empidonax minimus
37 Pyrocephalus rubinus
38 Sayornis nigricans
39 Sitta carolinensis
40 Sitta pusilla
41 Parula americana
42 Dendroica palmarum
43 Lanius ludovicianus
44 Toxostoma lecontei
45 Toxostoma rufum
46 Toxostoma curvirostre
47 Toxostoma redivivum
48 Dendroica discolor

1 Vermivora peregrina
2 Vermivora chrysoptera
3 Dendroica pensylvanica
4 Oporornis philadelphia
5 Icteria virens
6 Polioptila caerulea
7 Regulus calendula
8 Sitta pygmaea
9 Sitta canadensis
10 Chamaea fasciata
11 Catharus minimus
12 Vireo gilvus
13 Vireo solitarius
14 Vireo flavifrons
15 Anthus rubescens
16 Auriparus flaviceps
17 Monodon monoceros
18 Discoglossus pictus
19 Anolis nebulosus
20 Paralaudakia stoliczkana
21 Ophisops elegans
22 Micryletta steinegeri
23 Microhyla ornata
24 Darevskia derjugini
25 Hynobius tokyoensis
26 Bufo japonicus
27 Limnonectes macrodon
28 Strauchbufo raddei
29 Tylototriton verrucosus
30 Mauremys caspica
31 Odorrana swinhoana
32 Gerrhonotus rhombifer
33 Physignathus cocincinus
34 Ambystoma talpoideum
35 Crinia signifera
36 Varanus komodoensis
37 Furcifer minor
38 Furcifer pardalis
39 Furcifer oustaleti
40 Furcifer verrucosus
41 Trioceros cristatus
42 Sphaerodactylus vincenti
43 Rana arvalis
44 Bufo stejnegeri
45 Hynobius yangi
46 Hynobius quelpaertensis
47 Aneides lugubris
48 Leptodactylus pentadactylus

1 Kinosternon leucostomum
2 Rhinoclemmys pulcherrima
3 Guibemantis bicalcaratus
4 Sylvirana guentheri
5 Teratoscincus roborowskii
6 Hyla annectans
7 Rhacophorus omeimontis
8 Amolops mantzorum
9 Rana pretiosa
10 Tropidolaemus wagleri
11 Chioglossa lusitanica
12 Microhyla heymonsi
13 Hylarana latouchii
14 Bufo bankorensis
15 Atelopus lozanoi
16 Atelopus peruensis
17 Atelopus chiriquiensis
18 Atelopus zeteki
19 Atelopus limosus
20 Rana omeimontis
21 Lacerta agilis
22 Leptodactylus latrans
23 Pelophylax pleuraden
24 Phrynocephalus vlangalii
25 Lacerta schreiberi
26 Aplodontia rufa
27 Megaptera novaeangliae
28 Eschrichtius robustus
29 Hyemoschus aquaticus
30 Kogia breviceps
31 Polypedates maculatus
32 Triturus carnifex
33 Liopholis multiscutata
34 Liopholis inornata
35 Carlia rubrigularis
36 Carlia storri
37 Carlia rostralis
38 Dispholidus typus
39 Dipsina multimaculata
40 Pseudaspis cana
41 Ceratophrys cranwelli
42 Physalaemus fernandezae
43 Tropidurus hispidus
44 Formicivora acutirostris
45 Diaemus youngi
46 Alytes obstetricans
47 Alytes cisternasii
48 Pan troglodytes

1 Hydromedusa maximiliani
2 Rana japonica
3 Plethodon kentucki
4 Rana muscosa
5 Acrochordus granulatus
6 Tribolonotus ponceleti
7 Boiga irregularis
8 Ctenophorus mirrityana
9 Carduelis tristis
10 Thomomys talpoides
11 Berardius bairdii
12 Xenopus laevis
13 Trioceros hoehnelii
14 Trioceros montium
15 Gambelia wislizenii
16 Talpa europaea
17 Ctenophorus caudicinctus
18 Varanus panoptes
19 Varanus olivaceus
20 Varanus rudicollis
21 Varanus cumingi
22 Varanus dumerilii
23 Varanus pilbarensis
24 Varanus melinus
25 Varanus boehmei
26 Varanus caerulivirens
27 Varanus spinulosus
28 Varanus scalaris
29 Varanus storri
30 Varanus beccarii
31 Varanus similis
32 Varanus glauerti
33 Varanus kingorum
34 Plestiodon reynoldsi
35 Cyclopes didactylus
36 Caiman crocodilus
37 Salamandra lanzai
38 Rankinia diemensis
39 Eunectes murinus
40 Atheris squamigera
41 Hynobius kimurae
42 Anolis gemmosus
43 Hyla andersonii
44 Gallotia intermedia
45 Upupa epops
46 Carduelis carduelis
47 Passer hispaniolensis
48 Acrocephalus palustris

1 Fringilla montifringilla
2 Oriolus oriolus
3 Ficedula hypoleuca
4 Parus ater
5 Regulus regulus
6 Apus melba
7 Larus cachinnans
8 Garrulus glandarius
9 Emberiza cirrus
10 Carduelis flavirostris
11 Carpodacus erythrurus
12 Pyrrhula pyrrhula
13 Luscinia luscinia
14 Turdus iliacus
15 Jynx torquilla
16 Dendrocopos medius
17 Serinus serinus
18 Serinus citrinella
19 Zosterops lateralis
20 Sericornis frontalis
21 Malurus cyaneus
22 Phrynosoma douglasii
23 Calotriton asper
24 Mixophyes fleayi
25 Litoria chloris
26 Litoria pearsoniana
27 Litoria lesueurii
28 Dendroica virens
29 Woodworthia brunnea
30 Oligosoma chloronoton
31 Pudu puda
32 Delma impar
33 Phelsuma robertmertensi
34 Phrynosoma orbiculare
35 Rhea americana
36 Trioceros affinis
37 Chamaeleo chamaeleon
38 Furcifer lateralis
39 Trioceros jacksonii
40 Trioceros melleri
41 Brookesia ebenau
42 Rieppeleon kerstenii
43 Brookesia stumpffi
44 Furcifer polleni
45 Lacerta trilineata
46 Andrias japonicus
47 Bubo bubo
48 Ellobius talpinus

1 Saiga tatarica
2 Papio ursinus
3 Balaenoptera physalus
4 Eubalaena australis
5 Mesocricetus brandti
6 Blarina hylophaga
7 Dipodomys microps
8 Petauroides volans
9 Lepilemur mustelinus
10 Haplonycteris fischeri
11 Ziphius cavirostris
12 Mesoplodon europaeus
13 Rhyacotriton variegatus
14 Tylototriton shanjing
15 Larus argentatus
16 Phrynobatrachus calcaratus
17 Phrynobatrachus plicatus
18 Somateria spectabilis
19 Sceloporus grammicus
20 Agkistrodon taylori
21 Boa constrictor
22 Pleurodema cordobae
23 Pleurodema kriegi
24 Boana cordobae
25 Sitana ponticeriana
26 Hemidactylus brookii
27 Euphlyctis cyanophlyctis
28 Triturus pygmaeus
29 Paralaudakia caucasia
30 Streptopelia risoria
31 Phrynosoma asio
32 Rana luteiventris
33 Pelophylax perezii
34 Fulmarus glacialis
35 Aspidoscelis laredoensis
36 Uromastyx nigriventris
37 Ctenotus lanceolatus
38 Ctenotus australis
39 Scaphiopus holbrookii
40 Egernia rugosa
41 Alligator mississippiensis
42 Arizona elegans
43 Ambystoma gracile
44 Desmognathus fuscus
45 Lepilemur leucopus
46 Zootoca vivipara
47 Atlantolacerta andreanskyi
48 Liopholis whitii

1 Amalosia lesueurii
2 Ouroborus cataphractus
3 Anolis carolinensis
4 Dipsosaurus dorsalis
5 Ctenosaura pectinata
6 Pseudobranchius striatus
7 Cryptomys anelli
8 Menetia greyii
9 Sceloporus olivaceus
10 Moloch horridus
11 Homonota darwinii
12 Phymaturus patagonicus
13 Rana chiricahuensis
14 Propithecus diadema
15 Macropus giganteus
16 Bubalus mindorensis
17 Diplodactylus galeatus
18 Oedura castelnaui
19 Oedura filicipoda
20 Oedura coggeri
21 Rana dalmatina
22 Oceanites oceanus
23 Odontophrynus barrioi
24 Nothobachia ablephara
25 Quelea quelea
26 Ctenotus schomburgkii
27 Ctenotus strauschii
28 Lucasium stenodactylum
29 Leptodactylus bufonius
30 Coronella austriaca
31 Anolis stratulus
32 Sphaerodactylus pimentae
33 Sphaerodactylus argus
34 Sphaerodactylus nicholsi
35 Sphaerodactylus nigropunctatus
36 Sphaerodactylus townsendi
37 Sphaerodactylus savagei
38 Sphaerodactylus roosevelti
39 Salamandra atra
40 Crotalus cerastes
41 Cordylus tropidosternum
42 Xantusia vigilis
43 Equus caballus
44 Phoenicopterus chilensis
45 Lophodytes cucullatus
46 Chrysolophus amherstiae
47 Dacelo novaeguineae
48 Chrysolophus pictus

1 Eudypsula minor
2 Larosterna inca
3 Colius striatus
4 Vanellus armatus
5 Ramphastos toco
6 Coracias caudatus
7 Momotus momota
8 Caloenas nicobarica
9 Balearica regulorum
10 Grus antigone
11 Erythrura gouldiae
12 Taricha granulosa
13 Natator depressus
14 Apteryx owenii
15 Tympanocryptis pinguicollis
16 Ctenophorus pictus
17 Arenaria interpres
18 Phalaropus lobatus
19 Calidris canutus
20 Limosa lapponica
21 Panurus biarmicus
22 Numenius phaeopus
23 Gavia stellata
24 Hydrobates pelagicus
25 Falco subbuteo
26 Sylvia curruca
27 Lullula arborea
28 Aix galericulata
29 Anas clypeata
30 Cettia cetti
31 Troglodytes troglodytes
32 Dendroica pinus
33 Sceloporus bicanthalis
34 Pedioplanis lineoocellata
35 Anolis porcatus
36 Phrynocephalus guttatus
37 Lygodactylus gutturalis
38 Oryctolagus cuniculus
39 Crocodylus niloticus
40 Crocodylus intermedius
41 Crocodylus suchus
42 Pelobates syriacus
43 Pelobates fuscus
44 Cercocebus atys
45 Ambystoma macrodactylum
46 Elgaria coerulea
47 Plestiodon septentrionalis
48 Apteryx haastii

1 Gloydus halys
2 Oligosoma inconspicuum
3 Montivipera raddei
4 Oligosoma aeneum
5 Algyroides nigropunctatus
6 Masticophis taeniatus
7 Pseudocordylus spinosus
8 Callopistes maculatus
9 Phelsuma barbouri
10 Oligosoma macgregori
11 Mauremys reevesii
12 Oligosoma moco
13 Oligosoma ornatum
14 Chamaesaura aenea
15 Crotalus triseriatus
16 Crotalus stephensi
17 Nadzikambia mlanjensis
18 Plestiodon chinensis
19 Ninurta coeruleopunctatus
20 Hemicordylus capensis
21 Cuora aurocapitata
22 Anniella pulchra
23 Gerrhosaurus typicus
24 Lampropeltis californiae
25 Mauremys leprosa
26 Plestiodon inexpectatus
27 Cordylus vittifer
28 Sphenomorphus indicus
29 Namazonurus peersi
30 Crotalus polystictus
31 Chrysemys dorsalis
32 Tarentola boettgeri
33 Saurodactylus mauritanicus
34 Trachylepis capensis
35 Tetradactylus africanus
36 Smaug vandami
37 Anolis petersii
38 Bitis atropos
39 Platysaurus capensis
40 Smaug breyeri
41 Tiliqua occipitalis
42 Diporiphora nobbi
43 Trachylepis sulcata
44 Chamaesaura macrolepis
45 Kinosternon integrum
46 Chamaeleo namaquensis
47 Smaug regius
48 Hydromedusa tectifera

1 Gopherus flavomarginatus
2 Shinisaurus crocodilurus
3 Plestiodon tetragrammus
4 Trachylepis sparsa
5 Monopeltis capensis
6 Psammobates oculiferus
7 Cordylus jonesii
8 Callopistes flavipunctatus
9 Mesaspis moreletii
10 Sacalia bealei
11 Gerrhosaurus multilineatus
12 Ophisaurus compressus
13 Trachemys taylori
14 Chelonoidis darwini
15 Scelotes limpopoensis
16 Chelonoidis porteri
17 Trachemys ornata
18 Terrapene nelsoni
19 Basiliscus galeritus
20 Sceloporus utiformis
21 Mochlus sundevalli
22 Trachylepis binotata
23 Cyrtodactylus marmoratus
24 Chalcides ocellatus
25 Hemidactylus tanganicus
26 Rhinoclemmys rubida
27 Kinosternon herrerae
28 Pelusios gabonensis
29 Staurotypus salvinii
30 Pogona minor
31 Phelsuma serraticauda
32 Myuchelys latisternum
33 Calabaria reinhardtii
34 Holcosus undulatus
35 Lygodactylus keniensis
36 Kinixys erosa
37 Trachemys decorata
38 Sphaerodactylus cinereus
39 Indotestudo elongata
40 Lepidophyma tuxtlae
41 Ctenosaura clarki
42 Staurotypus triporcatus
43 Kinixys homeana
44 Anolis biporcatus
45 Pelochelys bibroni
46 Kinixys belliana
47 Phelsuma dubia
48 Podocnemis unifilis

1 Chelodina novaeguineae
2 Zonosaurus laticaudatus
3 Elseya novaeguineae
4 Rhinoclemmys areolata
5 Amyda cartilaginea
6 Heosemys spinosa
7 Ptychozoon horsfieldii
8 Trachylepis brevicollis
9 Podocnemis sextuberculata
10 Notochelys platynota
11 Calloselasma rhodostoma
12 Pristurus rupestris
13 Trachemys grayi
14 Batagur baska
15 Siebenrockiella crassicollis
16 Trachylepis sechellensis
17 Gekko petricolus
18 Varanus kordensis
19 Elseya dentata
20 Cnemidophorus arubensis
21 Pelusios adansonii
22 Scincopus fasciatus
23 Naultinus punctatus
24 Hydrophis platurus
25 Fejervarya limnocharis
26 Teratoscincus scincus
27 Lissolepis luctuosa
28 Plestiodon laticeps
29 Pachydactylus geitje
30 Abronia mixteca
31 Pachydactylus maculatus
32 Trogonophis wiegmanni
33 Karusasaurus polyzonus
34 Sceloporus poinsettii
35 Pachydactylus purcelli
36 Chondrodactylus bibronii
37 Trachylepis occidentalis
38 Rhadinaea flavilata
39 Gerrhosaurus flavigularis
40 Pachydactylus bicolor
41 Homopholis walbergii
42 Kinyongia fischeri
43 Trachylepis hoeschi
44 Phelsuma guentheri
45 Agama etoshae
46 Uma notata
47 Xenopeltis unicolor
48 Acanthophis pyrrhus

1 Varanus salvator
2 Acanthophis laevis
3 Ctenosaura similis
4 Oplurus cyclurus
5 Phyllodactylus tuberculosus
6 Varanus prasinus
7 Hydrosaurus amboinensis
8 Gekko vittatus
9 Corucia zebrata
10 Anolis allogus
11 Atractaspis engaddensis
12 Lanthanotus borneensis
13 Liasis olivaceus
14 Ptyodactylus ragazzii
15 Agama hartmanni
16 Liasis mackloti
17 Brachylophus vitiensis
18 Ambystoma laterale
19 Paradactylodon mustersi
20 Hynobius retardatus
21 Lissotriton montandoni
22 Rhinella spinulosa
23 Telmatobius culeus
24 Plethodon vehiculum
25 Ambystoma mavortium
26 Plethodon elongatus
27 Plethodon dunni
28 Hyla japonica
29 Onychodactylus japonicus
30 Gastrotheca riobambae
31 Plethodon welleri
32 Litoria ewingii
33 Hydromantes italicus
34 Plethodon yonahlossee
35 Desmognathus welteri
36 Pseudotriton ruber
37 Rhacophorus schlegelii
38 Hynobius boulengeri
39 Dicamptodon ensatus
40 Ambystoma annulatum
41 Taricha torosa
42 Acris crepitans
43 Eurycea lucifuga
44 Gyrinophilus palleucus
45 Anaxyrus woodhousii
46 Pleurodeles waltl
47 Desmognathus aeneus
48 Xenopus gilli

1 Ambystoma rosaceum
2 Xenopus wittei
3 Tomopterna delalandii
4 Hyliola cadaverina
5 Ambystoma mabeei
6 Rana heckscheri
7 Paramesotriton chinensis
8 Cynops orientalis
9 Sclerophrys mauritanica
10 Siren intermedia
11 Leptodactylus mystacinus
12 Litoria peronii
13 Hyla gratiosa
14 Hyla cinerea
15 Pleurodeles poireti
16 Xenopus vestitus
17 Hyla femoralis
18 Anaxyrus speciosus
19 Hyla squirella
20 Xenopus clivii
21 Xenopus borealis
22 Megophrys montana
23 Oophaga speciosa
24 Rana grylio
25 Anaxyrus debilis
26 Eurycea rathbuni
27 Litoria fallax
28 Agalychnis annae
29 Hoplobatrachus rugulosus
30 Lepidobatrachus llanensis
31 Hyperolius marmoratus
32 Ptychadena oxyrhynchus
33 Phrynomantis bifasciatus
34 Atelopus varius
35 Anotheca spinosa
36 Ptychadena mascareniensis
37 Osteopilus vastus
38 Phrynobatrachus natalensis
39 Paramesotriton hongkongensis
40 Sylvirana cubitalis
41 Dermophis mexicanus
42 Hypsiboas pellucens
43 Pachymedusa dacnicolor
44 Trachycephalus jordani
45 Bolitoglossa mexicana
46 Kassina senegalensis
47 Scinax quinquefasciatus
48 Hypsiboas crepitans

1 *Smilisca baudinii*
2 *Litoria caerulea*
3 *Polypedates leucomystax*
4 *Xenopus muelleri*
5 *Arthroleptis poecilonotus*
6 *Smilisca phaeota*
7 *Sclerophrys regularis*
8 *Kaloula pulchra*
9 *Pipa pipa*
10 *Incilius valliceps*
11 *Incilius coniferus*
12 *Agalychnis spurrelli*
13 *Hypsiboas rosenbergi*
14 *Rhacophorus malabaricus*
15 *Trachycephalus typhonius*
16 *Trachycephalus venulosus*
17 *Pseudis paradoxa*
18 *Rhaebo blombergi*
19 *Oophaga histrionica*
20 *Odorrana hosii*
21 *Peltophryne pectocephala*
22 *Incilius luetkenii*
23 *Rhaebo guttatus*
24 *Scinax ruber*
25 *Rhinophrynus dorsalis*
26 *Typhlonectes compressicauda*
27 *Ingerophrynus parvus*
28 *Phyllomedusa bicolor*
29 *Engystomops pustulosus*
30 *Dendropsophus microcephalus*
31 *Tripurion petasatus*
32 *Ichthyophis kohtaoensis*
33 *Hoplobatrachus occipitalis*
34 *Xenopus tropicalis*
35 *Sclerophrys dodsoni*
36 *Peltophryne lemur*
37 *Oligosoma polychroma*
38 *Woodworthia chrysosiretica*
39 *Bradypodion thamnobates*
40 *Trachemys dorbigni*
41 *Apalone ferox*
42 *Agama aculeata*
43 *Chelonoidis vicina*
44 *Emydura macquarii*
45 *Goniurosaurus kuroiwae*
46 *Trioceros ellioti*
47 *Leiopisma telfairii*
48 *Pelusios sinuatus*

1 Mesoclemmys gibba
2 Plica plica
3 Uranoscodon superciliosus
4 Egernia hosmeri
5 Acanthosaura armata
6 Trachylepis quinquetaeniata
7 Liolaemus leopardinus
8 Holcosus quadrilineatus
9 Anolis laeviventris
10 Aspidoscelis deppii
11 Pseudacris maculata
12 Varanus bengalensis
13 Spheniscus magellanicus
14 Plethodon glutinosus
15 Pelophylax chosrenicus
16 Eublepharis turcomenicus
17 Diplometopon zarudnyi
18 Blanus strauchi
19 Rana esculenta
20 Crotalus scutulatus
21 Tarsius spectrum
22 Phrynosoma hernandesi
23 Aspidites melanocephalus
24 Lithobates catesbeianus
25 Hyperolius discodactylus
26 Hyperolius rwandae
27 Hyperolius lateralis
28 Hyperolius kivuensis
29 Hyperolius glandicolor
30 Cophixalus ornatus
31 Hyperolius viridiflavus
32 Hoplobatrachus tigerinus
33 Fejervarya cancrivora
34 Hyperolius castaneus
35 Hyperolius cinnamomeiventris
36 Rhinella achalensis
37 Pristidactylus achalensis
38 Onychodactylus fischeri
39 Phrynocephalus versicolor
40 Phrynocephalus strauchi
41 Phrynocephalus interscapularis
42 Amphibolurus muricatus
43 Amphibolurus norrisi
44 Nephruroides stellatus
45 Ctenopus atlas
46 Melanerpes erythrocephalus
47 Anolis luteogularis
48 Desmognathus auriculatus

1 *Anaxyrus houstonensis*
2 *Cyclodomorphus casuarinae*
3 *Regina septemvittata*
4 *Sternotherus odoratus*
5 *Amphisbaena alba*
6 *Naja atra*
7 *Plethodon neomexicanus*
8 *Rhyacotriton cascadae*
9 *Plethodon punctatus*
10 *Plethodon ouachitae*
11 *Plethodon caddoensis*
12 *Micrablepharus atticolus*
13 *Ranodon sibiricus*
14 *Onychodactylus koreanus*
15 *Salamandrella keyserlingii*
16 *Tylototriton kweichowensis*
17 *Cynops pyrrhogaster*
18 *Euproctus montanus*
19 *Hynobius nebulosus*
20 *Hynobius dunni*
21 *Speleomantes genei*
22 *Hynobius yiwuensis*
23 *Cynops ensicauda*
24 *Myuchelys georgesi*
25 *Myuchelys purvisi*
26 *Orcaella brevirostris*
27 *Crocodylus moreletii*
28 *Reithrodontomys humulis*
29 *Lithobates virgatipes*
30 *Branta canadensis*
31 *Turdus migratorius*
32 *Megascops asio*
33 *Corvus brachyrhynchos*
34 *Cathartes aura*
35 *Falco peregrinus*
36 *Asio flammeus*
37 *Fregata magnificens*
38 *Agelaius phoeniceus*
39 *Passer domesticus*
40 *Bonasa umbellus*
41 *Tympanuchus phasianellus*
42 *Xanthocephalus xanthocephalus*
43 *Catharus ustulatus*
44 *Milvus migrans*
45 *Ensatina eschscholtzii*
46 *Desmognathus quadramaculatus*
47 *Bolitoglossa subpalmata*
48 *Plestiodon skiltonianus*

1 Phrynosoma platyrhinos
2 Sylvilagus floridanus
3 Podiceps grisegena
4 Anaxyrus cognatus
5 Anaxyrus punctatus
6 Bufo gargarizans
7 Aotus azarai
8 Uroplatus sikorae
9 Ctenophorus fordii
10 Alsophylax pipiens
11 Phrynocephalus helioscopus
12 Phrynocephalus mystaceus
13 Ceratophrys stolzmanni
14 Oplurus cuvieri
15 Uromastyx dispar
16 Callisaurus draconoides
17 Mertensiella caucasica
18 Laudakia tuberculata
19 Darevskia saxicola
20 Dalmatolacerta oxycephala
21 Trapelus sanguinolentus
22 Podarcis melisellensis
23 Liolaemus nitidus
24 Podarcis lilfordi
25 Ablepharus rueppellii
26 Trapelus agilis
27 Ophiomorus latastii
28 Mesalina bahaeldini
29 Laudakia nupta
30 Ptenopus garrulus
31 Sceloporus orcutti
32 Trapelus savignii
33 Platysaurus intermedius
34 Agama mwanzae
35 Acanthocercus atricollis
36 Gerrhosaurus skoogi
37 Pachydactylus vanzyli
38 Agama rueppelli
39 Mesalina rubropunctata
40 Lerista bipes
41 Uromastyx ornata
42 Trapelus mutabilis
43 Varanus nebulosus
44 Acanthodactylus scutellatus
45 Teratoscincus microlepis
46 Stenodactylus petrii
47 Tarentola annularis
48 Tropiocolotes nattereri

1 Eumeces algeriensis
2 Agama planiceps
3 Ptychozoon kuhli
4 Stenodactylus doriae
5 Ptyodactylus puiseuxi
6 Stenodactylus sthenodactylus
7 Paralaudakia lehmanni
8 Elaphe sauromates
9 Montivipera bornmuelleri
10 Montivipera latifii
11 Xerotyphlops vermicularis
12 Platyceps collaris
13 Platyceps karelini
14 Eirenis rothii
15 Telescopus hoogstraali
16 Daboia palaestinae
17 Chalcides guentheri
18 Platyceps rhodorachis
19 Eirenis coronelloides
20 Bitis caudalis
21 Pseudocerastes fieldi
22 Walterinnesia aegyptia
23 Pachydactylus wahlbergii
24 Trapelus agnetae
25 Psammophis aegyptius
26 Causus resimus
27 Platyceps elegantissimus
28 Psammophis schokari
29 Telescopus dhara
30 Mesalina guttulata
31 Echis pyramidum
32 Pseudotrapelus sinaitus
33 Echis leucogaster
34 Stellagama stellio
35 Pogona barbata
36 Acanthodactylus beershebensis
37 Pachydactylus rangei
38 Agama lionotus
39 Agama caudospinosa
40 Chalcides sepsoides
41 Bunopus blanfordii
42 Eumeces schneideri
43 Heloderma suspectum
44 Grus grus
45 Anas platyrhynchos
46 Aegolius funereus
47 Falco sparverius
48 Tympanuchus cupido

1 Callipepla californica
2 Lampornis clemenciae
3 Sula nebouxii
4 Platalea ajaja
5 Zenaida asiatica
6 Anthus spinoletta
7 Cygnus olor
8 Hirundo rustica
9 Sayornis phoebe
10 Icterus galbula
11 Sterna sandvicensis
12 Himantopus mexicanus
13 Centrocerus urophasianus
14 Passerina ciris
15 Pheucticus ludovicianus
16 Carduelis pinus
17 Coccythraustes vespertinus
18 Lanius excubitor
19 Piranga ludoviciana
20 Thraupis episcopus
21 Turdus grayi
22 Dyscophus antongilii
23 Dyscophus guineti
24 Mantidactylus zipperi
25 Boophis reticulatus
26 Boophis anjanaharibeensis
27 Mantidactylus femoralis
28 Gephyromantis redimitus
29 Mantidactylus betsileanus
30 Boophis axelmeieri
31 Boophis roseipalmatus
32 Mantidactylus grandidieri
33 Gephyromantis luteus
34 Boophis tephraeomystax
35 Boophis englaenderi
36 Calumma parsonii
37 Desmognathus ocoee
38 Urosaurus ornatus
39 Scaphiopus couchii
40 Dinarolacerta mosorensis
41 Aptenodytes forsteri
42 Phelsuma guimbeui
43 Oligosoma suteri
44 Sphenodon punctatus
45 Oligosoma alani
46 Ambystoma californiense
47 Leiolepis guttata
48 Falco punctatus

1 Terathopius ecaudatus
2 Darevskia brauneri
3 Pelophylax epeiroticus
4 Crocodylus johnsoni
5 Eremias suphani
6 Acanthodactylus boskianus
7 Phoenicolacerta laevis
8 Diporiphora winneckeii
9 Larus ridibundus
10 Hyla intermedia
11 Ptenochirus jagori
12 Varecia rubra
13 Solenodon cubanus
14 Acrochordus arafurae
15 Proteus anguinus
16 Lepidothyris fernandi
17 Aspidoscelis rodecki
18 Tiliqua rugosa
19 Carinascincus ocellatus
20 Salamandra infraimmaculata
21 Anas rubripes
22 Aphelocoma ultramarina
23 Falco berigora
24 Emberiza melanocephala
25 Egretta rufescens
26 Onychoprion anaethetus
27 Fregata andrewsi
28 Anas strepera
29 Bycanistes subcylindricus
30 Larus hyperboreus
31 Dendroica chrysoparia
32 Oceanodroma castro
33 Puffinus tenuirostris
34 Puffinus carneipes
35 Hoplocephalus bungaroides
36 Pusa hispida
37 Ovibos moschatus
38 Ochotona hyperborea
39 Pseudois nayaur
40 Ursus maritimus
41 Lontra canadensis
42 Delphinapterus leucas
43 Bos grunniens
44 Ovis dalli
45 Glaucomys sabrinus
46 Tamiasciurus hudsonicus
47 Equus kiang
48 Ovis ammon

1 Phocoena phocoena
2 Martes zibellina
3 Pteromys volans
4 Erethizon dorsatus
5 Marmota caligata
6 Capra sibirica
7 Bison bison
8 Pusa sibirica
9 Lynx lynx
10 Alticola semicanus
11 Lagurus lagurus
12 Martes americana
13 Capra cylindricornis
14 Erinaceus amurensis
15 Budorcas taxicolor
16 Capra ibex
17 Macaca thibetana
18 Procapra gutturosa
19 Arvicola terrestris
20 Capra caucasica
21 Allactaga sibirica
22 Mustela eversmanii
23 Apodemus peninsulae
24 Leopardus geoffroyi
25 Eliomys quercinus
26 Hemitragus jemlahicus
27 Naemorhedus baileyi
28 Naemorhedus caudatus
29 Lynx canadensis
30 Gazella subgutturosa
31 Rupicapra rupicapra
32 Vicugna vicugna
33 Phodopus roborovskii
34 Poliocitellus franklinii
35 Callospermophilus lateralis
36 Conepatus chinga
37 Sylvilagus nuttallii
38 Macaca assamensis
39 Onychomys leucogaster
40 Allactaga major
41 Capra falconeri
42 Halichoerus grypus
43 Marmota flaviventris
44 Lama guanicoe
45 Marmota vancouverensis
46 Ictidomys tridecemlineatus
47 Meriones persicus
48 Marmota marmota

1 *Martes pennanti*
2
3 *Neovison vison*
4 *Globicephala melas*
5 *Apodemus speciosus*
6 *Bison bonasus*
7 *Meriones meridianus*
8 *Spermophilus pygmaeus*
9 *Phoca vitulina*
10 *Dama dama*
11 *Arctocephalus australis*
12 *Monodelphis adusta*
13 *Eumetopias jubatus*
14 *Urocyon cinereoargenteus*
15 *Camelus bactrianus*
16 *Ailuropoda melanoleuca*
17 *Vormela peregusna*
18 *Mustela frenata*
19 *Naemorhedus goral*
20 *Lycalopex culpaeus*
21 *Lycalopex griseus*
22 *Mus spicilegus*
23 *Rhombomys opimus*
24 *Tremarctos ornatus*
25 *Meriones vinogradovi*
26 *Odocoileus hemionus*
27 *Tursiops truncatus*
28 *Damaliscus pygargus*
29 *Meriones libycus*
30 *Martes foina*
31 *Sylvilagus transitionalis*
32 *Mustela sibirica*
33 *Thylogale billardieri*
34 *Mystacina tuberculata*
35 *Mustela nigripes*
36 *Mustela lutreola*
37 *Capricornis crispus*
38 *Muscardinus avellanarius*
39 *Pseudomys fumeus*
40 *Gymnobelideus leadbeateri*
41 *Apodemus argenteus*
42 *Glaucomys volans*
43 *Dryomys nitedula*
44 *Dolichotis patagonum*
45 *Sciurus vulgaris*
46 *Lepus europaeus*
47 *Vulpes corsac*
48 *Galictis cuja*
49 *Muntiacus reevesi*

1 Abrocoma bennettii
2 Petaurista leucogenys
3 Potorous longipes
4 Antechinus agilis
5 Glirulus japonicus
6 Tapirus pinchaque
7 Allactaga elater
8 Connochaetes gnou
9 Pseudorca crassidens
10 Hystrix indica
11 Macropus rufogriseus
12 Vombatus ursinus
13 Saimiri boliviensis
14 Paguma larvata
15 Lepus californicus
16 Cricetulus barabensis
17 Mellivora capensis
18 Elaphurus davidianus
19 Hydropotes inermis
20 Myoxus glis
21 Bassariscus astutus
22 Pseudomys shortridgei
23 Lepus brachyurus
24 Thylogale thetis
25 Petaurista alborufus
26 Marmosops noctivagus
27 Aotus lemurinus
28 Petrogale penicillata
29 Phascogale calura
30 Reithrodontomys megalotis
31 Parantechinus apicalis
32 Ursus thibetanus
33 Grampus griseus
34 Ozotoceros bezoarticus
35 Dipodomys spectabilis
36 Cervus nippon
37 Mogera wogura
38 Peromyscus guatemalensis
39 Callosciurus erythraeus
40 Neophoca cinerea
41 Viverra zibetha
42 Elaphodus cephalophus
43 Lycalopex gymnocercus
44 Macropus parma
45 Sminthopsis griseoventer
46 Cryptomys hottentotus
47 Pachyuromys duprasi
48 Calomyscus bailwardi

1 *Petaurus norfolcensis*
2 *Leopardus colocolo*
3 *Tayassu pecari*
4 *Paraechinus hypomelas*
5 *Notomys mitchellii*
6 *Lipotes vexillifer*
7 *Petrogale xanthopus*
8 *Macaca fuscata*
9 *Equus zebra*
10 *Cavia tschudii*
11 *Gazella cuvieri*
12 *Lagenorhynchus obliquidens*
13 *Leporillus conditor*
14 *Zalophus californianus*
15 *Dendrolagus goodfellowi*
16 *Dendromus mesomelas*
17 *Hystrix cristata*
18 *Macropus fuliginosus*
19 *Macaca sylvanus*
20 *Lemniscomys barbarus*
21 *Acrobates pygmaeus*
22 *Eira barbara*
23 *Rousettus lanosus*
24 *Gazella gazella*
25 *Cuniculus taczanowskii*
26 *Melogale moschata*
27 *Prionailurus bengalensis*
28 *Canis aureus*
29 *Pteronura brasiliensis*
30 *Cuon alpinus*
31 *Wallabia bicolor*
32 *Petaurus australis*
33 *Georychus capensis*
34 *Felis nigripes*
35 *Eulemur rubriventer*
36 *Dendrolagus dorianus*
37 *Peroryctes raffrayana*
38 *Cercopithecus neglectus*
39 *Cynictis penicillata*
40 *Proechimys breviceuda*
41 *Saguinus fuscicollis*
42 *Graphiurus platyops*
43 *Oreotragus oreotragus*
44 *Eliomys melanurus*
45 *Trachypithecus francoisi*
46 *Cheirogaleus major*
47 *Hemibelideus lemuroides*
48 *Antidorcas marsupialis*

1 Cercopithecus ascanius
2 Cavia aperea
3 Ammospermophilus harrisii
4 Arctocephalus pusillus
5 Pteropus niger
6 Dinomys branickii
7 Damaliscus lunatus
8 Oryx dammah
9 Macaca arctoides
10 Acomys cilicicus
11 Suncus etruscus
12 Hystrix brachyura
13 Perognathus amplus
14 Neotoma floridana
15 Hemicentetes semispinosus
16 Ctenodactylus gundi
17 Chrysocyon brachyurus
18 Oryx gazella
19 Erinaceus concolor
20 Psammomys obesus
21 Cephalophus silvicultor
22 Zyzomys pedunculatus
23 Allactaga euphratica
24 Anoura geoffroyi
25 Redunca fulvorufula
26 Eudorcas thomsonii
27 Gerbillus campestris
28 Diceros bicornis
29 Cephalophus weynsi
30 Dendrolagus ursinus
31 Atilax paludinosus
32 Nycticeius balstoni
33 Cercopithecus nictitans
34 Lemniscomys striatus
35 Thylogale stigmatica
36 Otocyon megalotis
37 Canis adustus
38 Onychogalea fraenata
39 Trachypithecus pileatus
40 Capra hircus
41 Chlorocebus aethiops
42 Cephalophus nigrifrons
43 Cercopithecus hamlyni
44 Pteropus livingstonii
45 Aepyceros melampus
46 Bubalus quarlesi
47 Acomys wilsoni
48 Ictonyx striatus

1 *Cricetomys emini*
2 *Rusa alfredi*
3 *Sciurus granatensis*
4 *Lycalopex sechurae*
5 *Miopithecus talapoin*
6 *Perameles bougainville*
7 *Trachypithecus johnii*
8 *Redunca arundinum*
9 *Hippotragus niger*
10 *Lagorchestes hirsutus*
11 *Okapia johnstoni*
12 *Speothos venaticus*
13 *Bassaricyon alleni*
14 *Pseudomys australis*
15 *Mazama americana*
16 *Ammotragus lervia*
17 *Aepyprymnus rufescens*
18 *Paradoxurus hermaphroditus*
19 *Eulemur mongoz*
20 *Cryptoprocta ferox*
21 *Bubalus depressicornis*
22 *Dicerorhinus sumatrensis*
23 *Meriones crassus*
24 *Phloeomys pallidus*
25 *Callithrix kuhlii*
26 *Gazella leptoceros*
27 *Lagothrix lagotricha*
28 *Alcelaphus buselaphus*
29 *Pygathrix nemaeus*
30 *Tylomys nudicaudus*
31 *Kobus leche*
32 *Ateles fusciceps*
33 *Crocota crocuta*
34 *Dasypus septemcinctus*
35 *Cephalophus natalensis*
36 *Solenodon paradoxus*
37 *Ceratotherium simum*
38 *Otospermophilus variegatus*
39 *Cercocebus agilis*
40 *Cynopterus sphinx*
41 *Bdeogale nigripes*
42 *Atherurus africanus*
43 *Daubentonia madagascariensis*
44 *Pan paniscus*
45 *Rhinoceros unicornis*
46 *Aonyx cinereus*
47 *Pteropus dasymallus*
48 *Phaner furcifer*

1 Allenopithecus nigroviridis
2 Ateles belzebuth
3 Petaurus breviceps
4 Rusa unicolor
5 Lemur catta
6 Cercopithecus cephus
7 Cercopithecus mona
8 Nyctomys sumichrasti
9 Lasiurhinus krefftii
10 Crateromys heaneyi
11 Cephalophus dorsalis
12 Caracal caracal
13 Hylobates moloch
14 Macaca maura
15 Callithrix penicillata
16 Ateles geoffroyi
17 Dendromus melanotis
18 Macaca silenus
19 Trachypithecus phayrei
20 Alouatta caraya
21 Dorcopsulus macleayi
22 Felis silvestris
23 Leopardus tigrinus
24 Aonyx capensis
25 Tragelaphus strepsiceros
26 Conepatus leuconotus
27 Sciurus niger
28 Ratufa bicolor
29 Hippotragus equinus
30 Galidia elegans
31 Dendrohyrax arboreus
32 Mesembriomys gouldii
33 Syncerus caffer
34 Litocranius walleri
35 Aotus vociferans
36 Pogonomys macrourus
37 Spilocus maculatus
38 Lophiomys imhausi
39 Hoplomys gymnurus
40 Mandrillus sphinx
41 Nanger granti
42 Dasypus mexicana
43 Pteropus pselaphon
44 Rucervus duvaucelii
45 Gazella dorcas
46 Marmosa murina
47 Cephalophus jentinki
48 Civettictis civetta

1 *Alouatta seniculus*
2 *Gracilinanus agilis*
3 *Axis porcinus*
4 *Eulemur coronatus*
5 *Dasyprocta fuliginosa*
6 *Tamandua mexicana*
7 *Didelphis aurita*
8 *Monodelphis brevicaudata*
9 *Ourebia ourebi*
10 *Sciurus aureogaster*
11 *Neofelis nebulosa*
12 *Callicebus donacophilus*
13 *Dactylopsila trivirgata*
14 *Xerospermophilus tereticaudus*
15 *Eulemur macaco*
16 *Atelocynus microtis*
17 *Sminthopsis youngsoni*
18 *Ateles marginatus*
19 *Ateles chamek*
20 *Cacajao calvus*
21 *Hapalemur griseus*
22 *Praomys tullbergi*
23 *Bos javanicus*
24 *Genetta maculata*
25 *Pithecia pithecia*
26 *Sundasciurus hippurus*
27 *Chiropotes albinasus*
28 *Callicebus moloch*
29 *Propithecus tattersalli*
30 *Callicebus cupreus*
31 *Equus grevyi*
32 *Hylobates agilis*
33 *Dorcopsis muelleri*
34 *Sus verrucosus*
35 *Felis margarita*
36 *Sylvilagus palustris*
37 *Cercocebus torquatus*
38 *Tadarida brasiliensis*
39 *Tragelaphus imberbis*
40 *Ateles paniscus*
41 *Leontopithecus chrysomelas*
42 *Babyrousa babyrussa*
43 *Lophocebus albigena*
44 *Carlito syrichta*
45 *Viverra zangha*
46 *Rousettus leschenaulti*
47 *Prionailurus rubiginosus*
48 *Thylogale brunii*

1 Felis chaus
2 Panthera pardus
3 Gerbillus nanus
4 Callithrix geoffroyi
5 Kobus kob
6 Arctonyx collaris
7 Microcebus murinus
8 Nycticebus pygmaeus
9 Potamochoerus porcus
10 Mandrillus leucophaeus
11 Tetracerus quadricornis
12 Hydricis maculicollis
13 Hypogeomys antimena
14 Isoodon auratus
15 Pongo pygmaeus
16 Ratufa indica
17 Semnopithecus entellus
18 Cephalophus niger
19 Philantomba maxwellii
20 Rucervus eldii
21 Trachypithecus obscurus
22 Pseudomys chapmani
23 Hippopotamus amphibius
24 Cercopithecus erythrogaster
25 Nandinia binotata
26 Profelis aurata
27 Axis axis
28 Antilope cervicapra
29 Tragelaphus scriptus
30 Callosciurus notatus
31 Arvicanthus niloticus
32 Lycalopex vetulus
33 Cercopithecus diana
34 Cercopithecus campbelli
35 Galea spixii
36 Herpestes urva
37 Cercopithecus petaurista
38 Prionailurus viverrinus
39 Dendrolagus inustus
40 Boselaphus tragocamelus
41 Galictis vittata
42 Macropus bernardus
43 Neotragus pygmaeus
44 Madoqua guentheri
45 Gazella spekei
46 Funisciurus pyrrhopus
47 Equus quagga
48 Loxodonta africana

1 Neophocaena phocaenoides
2 Rhynchocyon chrysopygus
3 Presbytis melalophos
4 Hemigalus derbyanus
5 Sylvicapra grimmia
6 Herpestes smithii
7 Hylobates klossii
8 Colobus angolensis
9 Mungos mungo
10 Grammomys dolichurus
11 Plagiodontia aedium
12 Genetta genetta
13 Sciurus variegatoides
14 Caluromys philander
15 Cebus albifrons
16 Axis kuhlii
17 Dasyprocta ruatanica
18 Tragelaphus spekii
19 Bassaricyon gabbii
20 Sminthopsis virginiae
21 Macaca radiata
22 Giraffa camelopardalis
23 Nasalis larvatus
24 Chiropodomys gliroides
25 Mazama gouazoubira
26 Capricornis sumatraensis
27 Macaca nemestrina
28 Macaca nigra
29 Millardia gleadowi
30 Helarctos malayanus
31 Crossarchus obscurus
32 Tupaia tana
33 Hylobates pileatus
34 Petrogale brachyotis
35 Cephalophus rufilatus
36 Macropus antilopinus
37 Macaca ochreata
38 Dasyprocta punctata
39 Tupaia minor
40 Kobus megaceros
41 Sundasciurus lowii
42 Equus hemionus
43 Helogale parvula
44 Callosciurus finlaysonii
45 Rusa timorensis
46 Muntiacus muntjak
47 Inia geoffrensis
48 Dugong dugon

1 Choloepus didactylus
2 Thryonomys swinderianus
3 Tragulus napu
4 Onychogalea unguifera
5 Dorcopsis luctuosa
6 Galagoides demidoff
7 Sundasciurus tenuis
8 Chiropotes satanas
9 Trachypithecus auratus
10 Epomophorus wahlbergi
11 Callosciurus caniceps
12 Macaca tonkeana
13 Trachypithecus cristatus
14 Martes flavigula
15 Phacochoerus africanus
16 Colobus polykomos
17 Callosciurus prevostii
18 Pteropus alecto
19 Epomophorus gambianus
20 Moschiola meminna
21 Antechinus bellus
22 Prionailurus planiceps
23 Macaca sinica
24 Sus barbatus
25 Axis calamianensis
26 Macropus agilis
27 Catopuma temminckii
28 Trachypithecus vetulus
29 Phloeomys cumingi
30 Mesembriomys macrurus
31 Galago senegalensis
32 Macaca fascicularis
33 Petrogale concinna
34 Pteropus lylei
35 Herpestes vitticollis
36 Herpestes edwardsi
37 Dasyprocta prymnolopha
38 Addax nasomaculatus
39 Vulpes pallida
40 Nanger dama
41 Xerus erythropus
42 Ichneumia albicauda
43 Eidolon helvum
44 Eudorcas rufifrons
45 Nanger soemmerringii
46 Clethrionomys glareolus
47 Aethomys namaquensis
48 Xerospermophilus mohavensis

1 Saguinus oedipus
2 Zaglossus bruijni
3 Trichechus inunguis
4 Neotragus moschatus
5 Hemitragus hylocrius
6 Ovis aries
7 Tragelaphus angasii
8 Tragelaphus eurycerus
9 Taurotragus derbianus
10 Bubalus bubalis
11 Bos frontalis
12 Vicugna pacos
13 Przewalskium albirostre
14 Hexaprotodon liberiensis
15 Sus salvanius
16 Felis manul
17 Uncia uncia
18 Galerella pulverulenta
19 Hyaena brunnea
20 Otaria flavescens
21 Viverra civettina
22 Acrocodia indica
23 Tapirella bairdii
24 Lagothrix lagothricha
25 Callithrix argentata
26 Callithrix humeralifera
27 Saguinus leucopus
28 Saguinus bicolor
29 Saguinus labiatus
30 Saguinus imperator
31 Saguinus nigricollis
32 Leontocebus nigricollis
33 Saguinus mystax
34 Saguinus midas
35 Cebus olivaceus
36 Cebus apella
37 Cebus capucinus
38 Semnopithecus vetulus
39 Cercopithecus pogonias
40 Cercopithecus lhoesti
41 Cercopithecus preussi
42 Pygathrix roxellana
43 Theropithecus gelada
44 Microcebus coquereli
45 Hylobates leucogenys
46 Hylobates concolor
47 Hylobates hoolock
48 Hylobates syndactylus

1 Hapalemur simus
2 Pithecia monachus
3 Dasyprocta cristata
4 Sphiggurus mexicanus
5 Pseudomys laborifex
6 Tatera valida
7 Zyzomys palatilis
8 Tamias dorsalis
9 Tamias townsendii
10 Tamias sibiricus
11 Ctenomys talarum
12 Pelophylax plancyi
13 Homonota horrida
14 Homonota fasciata
15 Homonota whitii
16 Homonota underwoodi
17 Garthia gaudichaudii
18 Uvidicolus sphyrurus
19 Tarentola delalandii
20 Pachydactylus namaquensis
21 Phyllodactylus microphyllus
22 Diplodactylus vittatus
23 Phyllodactylus reissii
24 Pachydactylus capensis
25 Phelsuma quadriocellata
26 Ptyodactylus oudrii
27 Afroedura africana
28 Lucasium damaeum
29 Afroedura transvaalica
30 Rhacodactylus leachianus
31 Oedura monilis
32 Tarentola fascicularis
33 Hemidactylus bouvieri
34 Bavayia cyclura
35 Saltuarius cornutus
36 Hemidactylus garnotii
37 Strophurus elderi
38 Uroplatus alluaudi
39 Tarentola gigas
40 Hemidactylus mabouia
41 Nephruerus asper
42 Gehyra australis
43 Gehyra mutilata
44 Geckolepis typica
45 Chondrodactylus laevigatus
46 Thecadactylus rapicauda
47 Gekko monarchus
48 Gekko smithii

1 *Blaesodactylus boivini*
2
3 *Tropicolotes steudneri*
4
5 *Ailuronyx seychellensis*
6
7 *Hemidactylus flaviviridis*
8
9 *Phyllodactylus pulcher*
10
11 *Mniarogekko chahoua*
12
13 *Chondrodactylus fitzsimonsi*
14
15 *Ptyodactylus hasselquistii*
16
17 *Correlophus ciliatus*
18
19 *Spheniscus demersus*
20
21 *Cercocebus galeritus*
22
23 *Tropidurus torquatus*
24
25 *Amblyrhynchus cristatus*
26
27 *Myotis evotis*
28
29 *Myotis volans*
30
31 *Myotis leibii*
32
33 *Myotis keenii*
34
35 *Myotis dasycneme*
36
37 *Pipistrellus nathusii*
38
39 *Myotis mystacinus*
40
41 *Myotis sodalis*
42
43 *Barbastella barbastellus*
44
45 *Myotis emarginatus*
46
47 *Nyctalus leisleri*
48
49 *Tadarida teniotis*
50
51 *Myotis blythii*
52
53 *Pipistrellus kuhlii*
54
55 *Nycticeius humeralis*
56
57 *Megaderma lyra*
58
59 *Nyctalus noctula*
60
 Rousettus aegyptiacus
 Hipposideros fulvus
 Myotis brandti
 Myotis daubentoni
 Plecotus townsendii
 Saara asmussi
 Uromastyx acanthinura
 Uromastyx benti
 Uromastyx ocellata
 Lepus townsendii
 Tiliqua scincoides
 Anguis fragilis
 Oedura tryoni
 Ctenophorus isolepis
 Egernia cunninghami
 Alectoris chukar
 Tarsipes rostratus
 Heosemys depressa

1 Nanorana parkeri
2 Euphlyctis hexadactylus
3 Duttaphrynus melanostictus
4 Anatololacerta anatolica
5 Parvilacerta parva
6 Neurergus strauchii
7 Amolops lifanensis
8 Darevskia bendimahiensis
9 Platycercus icterotis
10 Psittinus cyanurus
11 Psittacula cyanocephala
12 Trichoglossus haematodus
13 Cacatua haematuropygia
14 Agapornis fischeri
15 Psittacula calthropae
16 Calyptorhynchus lathami
17 Nestor meridionalis
18 Bolborhynchus lineola
19 Agapornis roseicollis
20 Platycercus adscitus
21 Aratinga solstitialis
22 Alisterus amboinensis
23 Psittacara leucophthalmus
24 Amazona leucocephala
25 Amazona ventralis
26 Alipiopsitta xanthops
27 Amazona barbadensis
28 Amazona vittata
29 Amazona viridigenalis
30 Psittacula derbiana
31 Amazona arausiaca
32 Amazona farinosa
33 Amazona versicolor
34 Bufo tibetanus
35 Bufo minshanicus
36 Nanorana ventripunctata
37 Hyla tsinlingensis
38 Amolops chunganensis
39 Rana chaochiaoensis
40 Rhacophorus dugritei
41 Kaloula rugifera
42 Rhacophorus chenfui
43 Kaloula verrucosa
44 Nanorana yunnanensis
45 Odorrana margaretae
46 Paa boulengeri
47 Odorrana nanjiangensis
48 Pelophylax hubeiensis

- 1 Brachytarsophrys chuannanensis
- 2 Polypedates megacephalus
- 3 Rhacophorus dennysi
- 4 Phrynocephalus theobaldi
- 5 Gerrhonotus parvus
- 6 Batrachuperus tibetanus
- 7 Rana cascadae
- 8 Ichthyosaura alpestris
- 9 Rana sakuraii
- 10 Litoria raniformis
- 11 Pseudacris crucifer
- 12 Nanorana quadranus
- 13 Odorrana grahami
- 14 Nanorana taihangnica
- 15 Mantella baroni
- 16 Mixophyes fasciolatus
- 17 Mantella bernhardi
- 18 Incilius alvarius
- 19 Hylarana taipehensis
- 20 Tylototriton zieglerei
- 21 Carlia bicarinata

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30 *** Number of individuals count for each species when longevity were estimated.**

Class	Order	Family
Reptilia	Squamata (serpentes)	Boidae
Reptilia	Squamata	Varanidae
Mammalia	Sirenia	Trichechidae
Amphibia	Urodela	Plethodontidae
Reptilia	Squamata	Diplodactylidae
Reptilia	Crocodylia	Alligatoridae
Amphibia	Urodela	Ambystomatidae
Amphibia	Anura	Conrauidae
Reptilia	Testudines	Trionychidae
Aves	Struthioniformes	Rheidae
Reptilia	Squamata	Chamaeleonidae
Reptilia	Squamata	Lacertidae
Reptilia	Squamata (serpentes)	Viperidae
Reptilia	Squamata	Scincidae
Reptilia	Squamata	Chamaeleonidae
Reptilia	Squamata	Diplodactylidae
Reptilia	Squamata	Lacertidae
Reptilia	Squamata (serpentes)	Boidae
Amphibia	Anura	Hylidae
Amphibia	Anura	Dendrobatidae
Amphibia	Anura	Dendrobatidae
Reptilia	Squamata (serpentes)	Colubridae
Amphibia	Anura	Ceratophryidae
Reptilia	Squamata	Chamaeleonidae
Reptilia	Testudines	Trionychidae
Reptilia	Testudines	Geoemydidae
Amphibia	Urodela	Plethodontidae
Reptilia	Squamata (serpentes)	Colubridae
Amphibia	Anura	Ranidae
Amphibia	Anura	Dendrobatidae
Reptilia	Testudines	Kinosternidae
Reptilia	Squamata	Phrynosomatidae
Amphibia	Anura	Microhylidae
Reptilia	Squamata (serpentes)	Viperidae
Reptilia	Squamata	Chamaeleonidae
Aves	Bucerotiformes	Phoeniculidae
Reptilia	Squamata	Iguanidae
Reptilia	Squamata	Gekkonidae
Reptilia	Squamata	Lacertidae
Aves	Piciformes	Picidae
Amphibia	Urodela	Salamandridae
Amphibia	Urodela	Cryptobranchidae
Reptilia	Squamata	Leiocephalidae
Reptilia	Squamata	Agamidae
Reptilia	Testudines	Chelidae
Reptilia	Testudines	Testudinidae
Reptilia	Squamata	Diplodactylidae

1			
2	Reptilia	Squamata	Gekkonidae
3	Reptilia	Squamata	Iguanidae
4	Amphibia	Anura	Dendrobatidae
5	Amphibia	Anura	Dendrobatidae
6	Amphibia	Anura	Dendrobatidae
7	Amphibia	Anura	Dendrobatidae
8	Amphibia	Anura	Dendrobatidae
9	Reptilia	Squamata	Gekkonidae
10	Reptilia	Squamata (serpentes)	Pythonidae
11	Mammalia	Rodentia	Cricetidae
12	Reptilia	Squamata	Chamaeleonidae
13	Reptilia	Squamata (serpentes)	Lamprophiidae
14	Aves	Passeriformes	Cardinalidae
15	Reptilia	Squamata	Varanidae
16	Reptilia	Squamata	Gekkonidae
17	Reptilia	Squamata	Scincidae
18	Reptilia	Squamata (serpentes)	Colubridae
19	Reptilia	Squamata (serpentes)	Colubridae
20	Reptilia	Squamata (serpentes)	Colubridae
21	Reptilia	Squamata	Phrynosomatidae
22	Reptilia	Squamata	Gekkonidae
23	Reptilia	Squamata (serpentes)	Viperidae
24	Reptilia	Squamata (serpentes)	Colubridae
25	Reptilia	Squamata (serpentes)	Colubridae
26	Reptilia	Squamata (serpentes)	Boidae
27	Reptilia	Squamata	Gekkonidae
28	Reptilia	Squamata (serpentes)	Homalopsidae
29	Reptilia	Squamata	Agamidae
30	Reptilia	Squamata (serpentes)	Colubridae
31	Reptilia	Squamata (serpentes)	Acrochordidae
32	Reptilia	Squamata (serpentes)	Colubridae
33	Reptilia	Squamata	Gekkonidae
34	Reptilia	Squamata (serpentes)	Pythonidae
35	Amphibia	Gymnophiona	Dermophiidae
36	Reptilia	Squamata	Diplodactylidae
37	Reptilia	Squamata (serpentes)	Boidae
38	Amphibia	Anura	Pipidae
39	Reptilia	Squamata (serpentes)	Viperidae
40	Aves	Accipitriformes	Accipitridae
41	Aves	Charadriiformes	Charadriidae
42	Aves	Apodiformes	Trochilidae
43	Aves	Apterygiformes	Apterygidae
44	Amphibia	Anura	Pelobatidae
45	Amphibia	Anura	Bufonidae
46	Amphibia	Anura	Bufonidae
47	Amphibia	Urodela	Plethodontidae
48	Amphibia	Anura	Bufonidae
49	Amphibia	Urodela	Plethodontidae
50	Amphibia	Anura	Alytidae

1			
2	Amphibia	Anura	Eleutherodactylidae
3	Amphibia	Anura	Phrynobatrachidae
4	Amphibia	Anura	Ptychadenidae
5	Amphibia	Anura	Hylidae
6	Amphibia	Anura	Bufonidae
7	Amphibia	Anura	Bufonidae
8	Amphibia	Anura	Eleutherodactylidae
9	Amphibia	Anura	
10	Amphibia	Urodela	Plethodontidae
11	Amphibia	Urodela	Plethodontidae
12	Amphibia	Urodela	Plethodontidae
13	Amphibia	Urodela	Proteidae
14	Amphibia	Urodela	Salamandridae
15	Amphibia	Anura	Ranidae
16	Amphibia	Anura	Ranidae
17	Amphibia	Anura	Ranidae
18	Amphibia	Anura	Ranidae
19	Amphibia	Anura	Pelobatidae
20	Amphibia	Anura	Bombinatorina
21	Amphibia	Urodela	Plethodontidae
22	Amphibia	Urodela	Salamandridae
23	Amphibia	Urodela	Salamandridae
24	Mammalia	Primates	Atelidae
25	Reptilia	Squamata (serpentes)	Pythonidae
26	Reptilia	Squamata	Corytophanidae
27	Amphibia	Anura	Bombinatoridae
28	Reptilia	Squamata (serpentes)	Viperidae
29	Reptilia	Squamata (serpentes)	Viperidae
30	Amphibia	Anura	Ceratophryidae
31	Reptilia	Squamata (serpentes)	Boidae
32	Reptilia	Crocodylia	Crocodylidae
33	Reptilia	Squamata	Iguanidae
34	Amphibia	Anura	Dendrobatidae
35	Reptilia	Squamata (serpentes)	Colubridae
36	Amphibia	Urodela	Plethodontidae
37	Amphibia	Anura	Hylidae
38	Reptilia	Squamata (serpentes)	Viperidae
39	Reptilia	Testudines	Cheloniidae
40	Reptilia	Squamata	Dactyloidae
41	Amphibia	Anura	Dendrobatidae
42	Reptilia	Squamata	Gekkonidae
43	Reptilia	Squamata	Scincidae
44	Amphibia	Urodela	Plethodontidae
45	Amphibia	Urodela	Plethodontidae
46	Aves	Gruiformes	Rallidae
47	Amphibia	Anura	Hylidae
48	Reptilia	Testudines	Emydidae
49	Reptilia	Squamata (serpentes)	Pythonidae
50	Reptilia	Squamata	Iguanidae

1			
2	Reptilia	Squamata (serpentes)	Colubridae
3	Aves	Psittaciformes	Psittacidae
4	Reptilia	Squamata (serpentes)	Colubridae
5	Reptilia	Squamata	Varanidae
6	Reptilia	Squamata (serpentes)	Viperidae
7	Aves	Charadriiformes	Laridae
8	Aves	Charadriiformes	Charadriidae
9	Aves	Falconiformes	Falconidae
10	Aves	Passeriformes	Corvidae
11	Aves	Passeriformes	Fringillidae
12	Aves	Strigiformes	Tytonidae
13	Aves	Galliformes	Phasianidae
14	Aves	Galliformes	Odontophoridae
15	Aves	Pelecaniformes	Pelecanidae
16	Aves	Galliformes	Phasianidae
17	Aves	Passeriformes	Fringillidae
18	Aves	Accipitriformes	Accipitridae
19	Aves	Anseriformes	Anatidae
20	Aves	Caprimulgiformes	Caprimulgidae
21	Aves	Caprimulgiformes	Caprimulgidae
22	Aves	Charadriiformes	Haematopodidae
23	Aves	Passeriformes	Corvidae
24	Aves	Passeriformes	Corvidae
25	Aves	Passeriformes	Emberizidae
26	Aves	Passeriformes	Fringillidae
27	Aves	Passeriformes	Fringillidae
28	Aves	Passeriformes	Fringillidae
29	Aves	Passeriformes	Fringillidae
30	Aves	Passeriformes	Muscicapidae
31	Aves	Passeriformes	Parulidae
32	Aves	Passeriformes	Poliophtilidae
33	Aves	Passeriformes	Pycnonotidae
34	Aves	Strigiformes	Strigidae
35	Aves	Anseriformes	Anatidae
36	Aves	Passeriformes	Corvidae
37	Aves	Gruiformes	Gruidae
38	Aves	Strigiformes	Strigidae
39	Aves	Psittaciformes	Psittacidae
40	Aves	Cuculiformes	Cuculidae
41	Aves	Strigiformes	Strigidae
42	Aves	Passeriformes	Cardinalidae
43	Aves	Passeriformes	Corvidae
44	Aves	Passeriformes	Fringillidae
45	Aves	Passeriformes	Fringillidae
46	Aves	Passeriformes	Passerellidae
47	Reptilia	Squamata (serpentes)	Colubridae
48	Reptilia	Squamata (serpentes)	Elapidae
49	Reptilia	Squamata	Phrynosomatidae

1			
2	Reptilia	Squamata (serpentes)	Pythonidae
3	Amphibia	Urodela	Salamandridae
4	Reptilia	Squamata	Iguanidae
5	Reptilia	Squamata (serpentes)	Colubridae
6	Amphibia	Anura	Hylidae
7	Reptilia	Squamata (serpentes)	Colubridae
8	Amphibia	Anura	Scaphiopodidae
9	Reptilia	Squamata	Gekkonidae
10	Reptilia	Testudines	Testudinidae
11	Reptilia	Testudines	Emydidae
12	Reptilia	Testudines	Chelidae
13	Reptilia	Squamata	Eublepharidae
14	Reptilia	Squamata	Phrynosomatidae
15	Reptilia	Squamata	Agamidae
16	Reptilia	Squamata	Gekkonidae
17	Reptilia	Squamata (serpentes)	Elapidae
18	Reptilia	Squamata (serpentes)	Viperidae
19	Aves	Accipitriformes	Accipitridae
20	Reptilia	Squamata	Phrynosomatidae
21	Reptilia	Squamata	Chamaeleonidae
22	Reptilia	Squamata	Phrynosomatidae
23	Reptilia	Testudines	Testudinidae
24	Reptilia	Squamata (serpentes)	Viperidae
25	Reptilia	Squamata	Iguanidae
26	Amphibia	Anura	Hylidae
27	Mammalia	Rodentia	Sciuridae
28	Amphibia	Anura	Dendrobatidae
29	Amphibia	Anura	Dendrobatidae
30	Reptilia	Squamata	Gekkonidae
31	Amphibia	Anura	Dendrobatidae
32	Reptilia	Squamata	Varanidae
33	Aves	Psittaciformes	Psittacidae
34	Reptilia	Squamata	Anguidae
35	Reptilia	Testudines	Geoemydidae
36	Reptilia	Squamata (serpentes)	Pythonidae
37	Aves	Charadriiformes	Stercorariidae
38	Aves	Anseriformes	Anatidae
39	Aves	Procellariiformes	Procellariidae
40	Aves	Anseriformes	Anatidae
41	Aves	Procellariiformes	Diomedidae
42	Aves	Procellariiformes	Procellariidae
43	Aves	Charadriiformes	Charadriidae
44	Aves	Passeriformes	Emberizidae
45	Aves	Anseriformes	Anatidae
46	Aves	Gaviiformes	Gaviidae
47	Aves	Charadriiformes	Scolopacidae
48	Aves	Anseriformes	Anatidae
49	Aves	Charadriiformes	Scolopacidae

1			
2	Aves	Passeriformes	Paridae
3	Aves	Charadriiformes	Alcidae
4	Aves	Falconiformes	Falconidae
5	Aves	Charadriiformes	Alcidae
6	Aves	Charadriiformes	Alcidae
7	Aves	Anseriformes	Anatidae
8	Aves	Charadriiformes	Alcidae
9	Aves	Charadriiformes	Laridae
10	Aves	Charadriiformes	Alcidae
11	Aves	Anseriformes	Anatidae
12	Aves	Charadriiformes	Alcidae
13	Aves	Piciformes	Picidae
14	Aves	Strigiformes	Strigidae
15	Aves	Anseriformes	Anatidae
16	Aves	Charadriiformes	Scolopacidae
17	Aves	Passeriformes	Paridae
18	Aves	Strigiformes	Strigidae
19	Aves	Suliformes	Phalacrocoracidae
20	Aves	Charadriiformes	Alcidae
21	Aves	Passeriformes	Turdidae
22	Aves	Passeriformes	Corvidae
23	Aves	Charadriiformes	Charadriidae
24	Aves	Piciformes	Picidae
25	Aves	Accipitriformes	Accipitridae
26	Aves	Caprimulgiformes	Caprimulgidae
27	Aves	Charadriiformes	Laridae
28	Aves	Passeriformes	Icteridae
29	Aves	Passeriformes	Monarchidae
30	Aves	Accipitriformes	Accipitridae
31	Aves	Passeriformes	Paridae
32	Aves	Passeriformes	Emberizidae
33	Aves	Falconiformes	Falconidae
34	Aves	Apodiformes	Trochilidae
35	Aves	Passeriformes	Tyrannidae
36	Aves	Piciformes	Picidae
37	Aves	Anseriformes	Anatidae
38	Aves	Suliformes	Fregatidae
39	Aves	Piciformes	Picidae
40	Aves	Passeriformes	Emberizidae
41	Aves	Charadriiformes	Scolopacidae
42	Aves	Accipitriformes	Accipitridae
43	Aves	Charadriiformes	Laridae
44	Aves	Charadriiformes	Scolopacidae
45	Aves	Apodiformes	Apodidae
46	Aves	Anseriformes	Anatidae
47	Aves	Columbiformes	Columbidae
48	Aves	Charadriiformes	Laridae
49	Aves	Passeriformes	Corvidae

1			
2	Aves	Accipitriformes	Accipitridae
3	Aves	Passeriformes	Turdidae
4	Aves	Passeriformes	Tyrannidae
5	Aves	Apodiformes	Trochilidae
6	Aves	Apodiformes	Trochilidae
7	Aves	Apodiformes	Apodidae
8	Aves	Apodiformes	Trochilidae
9	Aves	Charadriiformes	Laridae
10	Aves	Apodiformes	Trochilidae
11	Aves	Procellariiformes	Procellariidae
12	Aves	Passeriformes	Tyrannidae
13	Aves	Passeriformes	Emberizidae
14	Aves	Charadriiformes	Laridae
15	Aves	Accipitriformes	Accipitridae
16	Aves	Accipitriformes	Accipitridae
17	Aves	Charadriiformes	Laridae
18	Aves	Passeriformes	Corvidae
19	Aves	Charadriiformes	Laridae
20	Aves	Suliformes	Sulidae
21	Aves	Passeriformes	Emberizidae
22	Aves	Procellariiformes	Procellariidae
23	Aves	Pelecaniformes	Ardeidae
24	Aves	Coraciiformes	Todidae
25	Aves	Passeriformes	Parulidae
26	Aves	Passeriformes	Turdidae
27	Aves	Coraciiformes	Alcedinidae
28	Aves	Passeriformes	Hirundinidae
29	Aves	Charadriiformes	Laridae
30	Aves	Charadriiformes	Scolopacidae
31	Aves	Charadriiformes	Scolopacidae
32	Aves	Suliformes	Sulidae
33	Aves	Accipitriformes	Pandionidae
34	Aves	Strigiformes	Strigidae
35	Aves	Charadriiformes	Scolopacidae
36	Aves	Suliformes	Fregatidae
37	Aves	Passeriformes	Tyrannidae
38	Aves	Passeriformes	Cardinalidae
39	Aves	Passeriformes	Icteridae
40	Aves	Phaethontiformes	Phaethontidae
41	Aves	Charadriiformes	Laridae
42	Aves	Apodiformes	Trochilidae
43	Aves	Passeriformes	Icteridae
44	Aves	Passeriformes	Bombycillidae
45	Aves	Passeriformes	Parulidae
46	Aves	Passeriformes	Aegithalidae
47	Aves	Passeriformes	Parulidae
48	Aves	Passeriformes	Parulidae
49	Aves	Passeriformes	Emberizidae

1			
2	Aves	Passeriformes	Parulidae
3	Aves	Passeriformes	Parulidae
4	Aves	Passeriformes	Parulidae
5	Aves	Passeriformes	Parulidae
6	Aves	Passeriformes	Parulidae
7	Aves	Passeriformes	Troglodytidae
8	Aves	Passeriformes	Emberizidae
9	Aves	Passeriformes	Tyrannidae
10	Aves	Passeriformes	Coerebidae
11	Aves	Passeriformes	Emberizidae
12	Aves	Passeriformes	Emberizidae
13	Aves	Passeriformes	Emberizidae
14	Aves	Passeriformes	Tyrannidae
15	Aves	Piciformes	Picidae
16	Aves	Passeriformes	Turdidae
17	Aves	Accipitriformes	Accipitridae
18	Aves	Accipitriformes	Accipitridae
19	Aves	Accipitriformes	Accipitridae
20	Aves	Anseriformes	Anatidae
21	Aves	Anseriformes	Anatidae
22	Aves	Anseriformes	Anatidae
23	Aves	Anseriformes	Anatidae
24	Aves	Apodiformes	Trochilidae
25	Aves	Apodiformes	Trochilidae
26	Aves	Apodiformes	Trochilidae
27	Aves	Charadriiformes	Alcidae
28	Aves	Charadriiformes	Laridae
29	Aves	Charadriiformes	Laridae
30	Aves	Charadriiformes	Laridae
31	Aves	Charadriiformes	Laridae
32	Aves	Charadriiformes	Laridae
33	Aves	Charadriiformes	Laridae
34	Aves	Charadriiformes	Laridae
35	Aves	Charadriiformes	Stercorariidae
36	Aves	Charadriiformes	Stercorariidae
37	Aves	Cuculiformes	Cuculidae
38	Aves	Galliformes	Cracidae
39	Aves	Gruiformes	Gruidae
40	Aves	Passeriformes	Cardinalidae
41	Aves	Passeriformes	Cardinalidae
42	Aves	Passeriformes	Cardinalidae
43	Aves	Passeriformes	Cinclidae
44	Aves	Passeriformes	Corvidae
45	Aves	Passeriformes	Emberizidae
46	Aves	Passeriformes	Emberizidae
47	Aves	Passeriformes	Emberizidae
48	Aves	Passeriformes	Emberizidae
49	Aves	Passeriformes	Emberizidae
50	Aves	Passeriformes	Emberizidae
51	Aves	Passeriformes	Emberizidae
52	Aves	Passeriformes	Emberizidae
53	Aves	Passeriformes	Emberizidae
54	Aves	Passeriformes	Emberizidae
55	Aves	Passeriformes	Emberizidae
56	Aves	Passeriformes	Emberizidae
57	Aves	Passeriformes	Emberizidae
58	Aves	Passeriformes	Emberizidae
59	Aves	Passeriformes	Emberizidae
60	Aves	Passeriformes	Emberizidae
	Aves	Passeriformes	Emberizidae

1			
2	Aves	Passeriformes	Fringillidae
3	Aves	Passeriformes	Fringillidae
4	Aves	Passeriformes	Fringillidae
5	Aves	Passeriformes	Fringillidae
6	Aves	Passeriformes	Fringillidae
7	Aves	Passeriformes	Fringillidae
8	Aves	Passeriformes	Fringillidae
9	Aves	Passeriformes	Fringillidae
10	Aves	Passeriformes	Fringillidae
11	Aves	Passeriformes	Fringillidae
12	Aves	Passeriformes	Hirundinidae
13	Aves	Passeriformes	Hirundinidae
14	Aves	Passeriformes	Hirundinidae
15	Aves	Passeriformes	Hirundinidae
16	Aves	Passeriformes	Hirundinidae
17	Aves	Passeriformes	Icteridae
18	Aves	Passeriformes	Icteridae
19	Aves	Passeriformes	Icteridae
20	Aves	Passeriformes	Icteridae
21	Aves	Passeriformes	Icteridae
22	Aves	Passeriformes	Mimidae
23	Aves	Passeriformes	Mimidae
24	Aves	Passeriformes	Mimidae
25	Aves	Passeriformes	Mimidae
26	Aves	Passeriformes	Mimidae
27	Aves	Passeriformes	Mimidae
28	Aves	Passeriformes	Paridae
29	Aves	Passeriformes	Parulidae
30	Aves	Passeriformes	Parulidae
31	Aves	Passeriformes	Parulidae
32	Aves	Passeriformes	Parulidae
33	Aves	Passeriformes	Parulidae
34	Aves	Passeriformes	Parulidae
35	Aves	Passeriformes	Parulidae
36	Aves	Passeriformes	Parulidae
37	Aves	Passeriformes	Parulidae
38	Aves	Passeriformes	Parulidae
39	Aves	Passeriformes	Parulidae
40	Aves	Passeriformes	Parulidae
41	Aves	Passeriformes	Parulidae
42	Aves	Passeriformes	Parulidae
43	Aves	Passeriformes	Parulidae
44	Aves	Passeriformes	Parulidae
45	Aves	Passeriformes	Parulidae
46	Aves	Passeriformes	Parulidae
47	Aves	Passeriformes	Parulidae
48	Aves	Passeriformes	Parulidae
49	Aves	Passeriformes	Parulidae
50	Aves	Passeriformes	Parulidae
51	Aves	Passeriformes	Regulidae
52	Aves	Passeriformes	Thraupidae
53	Aves	Passeriformes	Thraupidae
54	Aves	Passeriformes	Thraupidae
55	Aves	Passeriformes	Thraupidae
56	Aves	Passeriformes	Troglodytidae
57	Aves	Passeriformes	Troglodytidae
58	Aves	Passeriformes	Turdidae
59	Aves	Passeriformes	Turdidae
60	Aves	Passeriformes	Turdidae
	Aves	Passeriformes	Turdidae

1			
2	Aves	Passeriformes	Turdidae
3	Aves	Passeriformes	Tyrannidae
4	Aves	Passeriformes	Tyrannidae
5	Aves	Passeriformes	Tyrannidae
6	Aves	Passeriformes	Tyrannidae
7	Aves	Passeriformes	Tyrannidae
8	Aves	Passeriformes	Tyrannidae
9	Aves	Passeriformes	Tyrannidae
10	Aves	Passeriformes	Tyrannidae
11	Aves	Passeriformes	Tyrannidae
12	Aves	Passeriformes	Vireonidae
13	Aves	Passeriformes	Vireonidae
14	Aves	Passeriformes	Vireonidae
15	Aves	Passeriformes	Vireonidae
16	Aves	Passeriformes	Vireonidae
17	Aves	Passeriformes	Vireonidae
18	Aves	Passeriformes	Vireonidae
19	Aves	Passeriformes	Vireonidae
20	Aves	Passeriformes	Vireonidae
21	Aves	Phaethontiformes	Phaethontidae
22	Aves	Piciformes	Picidae
23	Aves	Piciformes	Picidae
24	Aves	Piciformes	Picidae
25	Aves	Piciformes	Picidae
26	Aves	Piciformes	Picidae
27	Aves	Piciformes	Picidae
28	Aves	Procellariiformes	Diomedidae
29	Aves	Procellariiformes	Diomedidae
30	Aves	Procellariiformes	Hydrobatidae
31	Aves	Procellariiformes	Procellariidae
32	Aves	Procellariiformes	Procellariidae
33	Aves	Procellariiformes	Procellariidae
34	Reptilia	Squamata	Agamidae
35	Reptilia	Squamata	Diplodactylidae
36	Reptilia	Testudines	Testudinidae
37	Reptilia	Squamata (serpentes)	Colubridae
38	Reptilia	Testudines	Geoemydidae
39	Reptilia	Testudines	Geoemydidae
40	Reptilia	Testudines	Geoemydidae
41	Aves	Procellariiformes	Diomedidae
42	Aves	Passeriformes	Fringillidae
43	Mammalia	Artiodactyla	Bovidae
44	Reptilia	Squamata	Varanidae
45	Reptilia	Squamata (serpentes)	Colubridae
46	Reptilia	Squamata (serpentes)	Colubridae
47	Aves	Gruiformes	Gruidae
48	Aves	Eurypygiformes	Eurypygidae
49	Aves	Eurypygiformes	Eurypygidae
50	Aves	Anseriformes	Anatidae
51	Aves	Strigiformes	Strigidae
52	Aves	Galliformes	Phasianidae
53	Aves	Gruiformes	Gruidae
54	Aves	Gruiformes	Gruidae
55	Aves	Passeriformes	Sturnidae
56	Reptilia	Squamata	Iguanidae
57	Amphibia	Urodela	Amphiumidae
58	Amphibia	Anura	Cycloramphidae
59	Amphibia	Anura	Cycloramphidae
60	Amphibia	Anura	Bufonidae
	Amphibia	Urodela	Salamandridae

1			
2	Reptilia	Squamata	Sphaerodactylidae
3	Reptilia	Squamata	Varanidae
4	Reptilia	Squamata	Gekkonidae
5	Reptilia	Squamata	Agamidae
6	Reptilia	Squamata	Agamidae
7	Reptilia	Testudines	Testudinidae
8	Reptilia	Squamata (serpentes)	Colubridae
9	Reptilia	Squamata (serpentes)	Colubridae
10	Reptilia	Testudines	Emydidae
11	Reptilia	Testudines	Emydidae
12	Reptilia	Squamata (serpentes)	Pythonidae
13	Reptilia	Squamata	Scincidae
14	Reptilia	Squamata	Phrynosomatidae
15	Reptilia	Squamata	Lacertidae
16	Reptilia	Squamata	Lacertidae
17	Mammalia	Rodentia	Muridae
18	Reptilia	Squamata	Eublepharidae
19	Aves	Sphenisciformes	Spheniscidae
20	Aves	Sphenisciformes	Spheniscidae
21	Reptilia	Squamata	Scincidae
22	Reptilia	Squamata	Scincidae
23	Reptilia	Squamata	Phrynosomatidae
24	Reptilia	Squamata	Scincidae
25	Reptilia	Squamata	Scincidae
26	Reptilia	Squamata	Agamidae
27	Reptilia	Squamata	Scincidae
28	Amphibia	Anura	Bufonidae
29	Amphibia	Anura	Hylidae
30	Amphibia	Anura	Hylidae
31	Reptilia	Squamata	Lacertidae
32	Amphibia	Urodela	Salamandridae
33	Amphibia	Urodela	Salamandridae
34	Amphibia	Urodela	Salamandridae
35	Amphibia	Urodela	Salamandridae
36	Reptilia	Squamata (serpentes)	Viperidae
37	Reptilia	Squamata (serpentes)	Colubridae
38	Reptilia	Squamata (serpentes)	Lamprophiidae
39	Reptilia	Squamata (serpentes)	Lamprophiidae
40	Reptilia	Squamata	Gekkonidae
41	Reptilia	Squamata	Gekkonidae
42	Reptilia	Squamata (serpentes)	Colubridae
43	Amphibia	Anura	Ranidae
44	Amphibia	Anura	Bufonidae
45	Amphibia	Anura	Bufonidae
46	Amphibia	Anura	Bufonidae
47	Amphibia	Urodela	Salamandridae
48	Amphibia	Anura	Bombinatoridae
49	Amphibia	Anura	Bombinatoridae
50	Amphibia	Anura	Hylidae
51	Amphibia	Anura	Bombinatoridae
52	Amphibia	Anura	Hylidae
53	Amphibia	Anura	Hylidae
54	Amphibia	Urodela	Plethodontidae
55	Amphibia	Urodela	Plethodontidae
56	Amphibia	Urodela	Salamandridae
57	Amphibia	Urodela	Salamandridae
58	Amphibia	Urodela	Salamandridae
59	Amphibia	Urodela	Ambystomatidae
60	Amphibia	Anura	Hylidae
	Amphibia	Anura	Ceratophryidae

1			
2	Amphibia	Urodela	Ambystomatidae
3	Amphibia	Anura	Ceratophryidae
4	Amphibia	Anura	Hylidae
5	Amphibia	Anura	Hylidae
6	Amphibia	Anura	Hylidae
7	Amphibia	Gymnophiona	Typhlonectidae
8	Amphibia	Anura	Bufonidae
9	Amphibia	Anura	Hylidae
10	Amphibia	Anura	Ceratophryidae
11	Amphibia	Anura	Bufonidae
12	Amphibia	Anura	Bufonidae
13	Aves	Galliformes	Phasianidae
14	Aves	Accipitriformes	Cathartidae
15	Aves	Accipitriformes	Accipitridae
16	Aves	Accipitriformes	Accipitridae
17	Aves	Psittaciformes	Cacatuidae
18	Mammalia	Soricomorpha	Soricidae
19	Mammalia	Soricomorpha	Soricidae
20	Mammalia	Soricomorpha	Soricidae
21	Reptilia	Squamata (serpentes)	Colubridae
22	Reptilia	Squamata (serpentes)	Colubridae
23	Reptilia	Squamata (serpentes)	Colubridae
24	Reptilia	Squamata (serpentes)	Colubridae
25	Reptilia	Squamata (serpentes)	Colubridae
26	Reptilia	Squamata (serpentes)	Viperidae
27	Reptilia	Squamata (serpentes)	Colubridae
28	Reptilia	Squamata (serpentes)	Viperidae
29	Reptilia	Squamata (serpentes)	Colubridae
30	Reptilia	Squamata (serpentes)	Colubridae
31	Reptilia	Squamata (serpentes)	Colubridae
32	Reptilia	Squamata (serpentes)	Colubridae
33	Reptilia	Squamata (serpentes)	Colubridae
34	Reptilia	Squamata (serpentes)	Colubridae
35	Reptilia	Squamata	Blanidae
36	Reptilia	Squamata (serpentes)	Viperidae
37	Reptilia	Squamata (serpentes)	Colubridae
38	Reptilia	Squamata (serpentes)	Colubridae
39	Reptilia	Squamata (serpentes)	Colubridae
40	Reptilia	Squamata (serpentes)	Elapidae
41	Reptilia	Squamata (serpentes)	Elapidae
42	Reptilia	Squamata (serpentes)	Colubridae
43	Reptilia	Squamata (serpentes)	Colubridae
44	Reptilia	Squamata (serpentes)	Colubridae
45	Reptilia	Squamata (serpentes)	Colubridae
46	Reptilia	Squamata (serpentes)	Colubridae
47	Reptilia	Squamata (serpentes)	Viperidae
48	Reptilia	Squamata (serpentes)	Viperidae
49	Reptilia	Testudines	Testudinidae
50	Reptilia	Squamata (serpentes)	Viperidae
51	Reptilia	Squamata	Anguidae
52	Reptilia	Squamata (serpentes)	Viperidae
53	Reptilia	Squamata (serpentes)	Viperidae
54	Reptilia	Squamata (serpentes)	Viperidae
55	Reptilia	Squamata (serpentes)	Lamprophiidae
56	Reptilia	Squamata (serpentes)	Boidae
57	Reptilia	Squamata (serpentes)	Boidae
58	Reptilia	Squamata (serpentes)	Boidae
59	Reptilia	Squamata (serpentes)	Elapidae
60	Reptilia	Squamata	Helodermatidae
	Reptilia	Squamata (serpentes)	Elapidae

1			
2	Reptilia	Squamata (serpentes)	Viperidae
3	Reptilia	Squamata (serpentes)	Elapidae
4	Reptilia	Squamata (serpentes)	Elapidae
5	Reptilia	Squamata	Gekkonidae
6	Reptilia	Squamata (serpentes)	Elapidae
7	Reptilia	Squamata (serpentes)	Elapidae
8	Reptilia	Squamata (serpentes)	Elapidae
9	Reptilia	Squamata	Teiidae
10	Reptilia	Squamata (serpentes)	Pythonidae
11	Reptilia	Squamata	Diplodactylidae
12	Reptilia	Squamata (serpentes)	Colubridae
13	Reptilia	Squamata (serpentes)	Boidae
14	Reptilia	Crocodylia	Alligatoridae
15	Reptilia	Squamata (serpentes)	Boidae
16	Reptilia	Squamata (serpentes)	Elapidae
17	Reptilia	Squamata (serpentes)	Pythonidae
18	Reptilia	Squamata (serpentes)	Viperidae
19	Reptilia	Squamata (serpentes)	Loxocemidae
20	Reptilia	Crocodylia	Crocodylidae
21	Reptilia	Squamata (serpentes)	Boidae
22	Reptilia	Squamata (serpentes)	Elapidae
23	Reptilia	Squamata	Varanidae
24	Aves	Suliformes	Sulidae
25	Amphibia	Anura	Mantellidae
26	Amphibia	Anura	Mantellidae
27	Amphibia	Anura	Mantellidae
28	Amphibia	Anura	Mantellidae
29	Amphibia	Anura	Mantellidae
30	Amphibia	Anura	Mantellidae
31	Amphibia	Anura	Mantellidae
32	Amphibia	Anura	Mantellidae
33	Amphibia	Anura	Mantellidae
34	Amphibia	Anura	Mantellidae
35	Amphibia	Anura	Mantellidae
36	Amphibia	Anura	Mantellidae
37	Amphibia	Anura	Mantellidae
38	Amphibia	Anura	Mantellidae
39	Amphibia	Anura	Mantellidae
40	Amphibia	Anura	Mantellidae
41	Amphibia	Anura	Mantellidae
42	Amphibia	Anura	Mantellidae
43	Amphibia	Anura	Mantellidae
44	Reptilia	Squamata	Dactyloidae
45	Reptilia	Squamata	Teiidae
46	Reptilia	Squamata	Agamidae
47	Reptilia	Squamata	Lacertidae
48	Reptilia	Squamata	Lacertidae
49	Reptilia	Squamata	Lacertidae
50	Reptilia	Squamata	Lacertidae
51	Reptilia	Squamata	Lacertidae
52	Reptilia	Squamata	Lacertidae
53	Reptilia	Squamata	Lacertidae
54	Reptilia	Squamata	Lacertidae
55	Reptilia	Squamata	Lacertidae
56	Reptilia	Squamata	Lacertidae
57	Reptilia	Squamata	Lacertidae
58	Reptilia	Squamata	Lacertidae
59	Reptilia	Squamata	Lacertidae
60	Reptilia	Squamata	Lacertidae
	Amphibia	Anura	Bufo

1			
2	Amphibia	Anura	Bufonidae
3	Mammalia	Cetacea	Delphinidae
4	Amphibia	Urodela	Plethodontidae
5	Amphibia	Urodela	Salamandridae
6	Reptilia	Squamata	Lacertidae
7	Reptilia	Squamata	Lacertidae
8	Amphibia	Anura	Bufonidae
9	Reptilia	Squamata	Diplodactylidae
10	Reptilia	Squamata	Scincidae
11	Reptilia	Squamata	Phrynosomatidae
12	Reptilia	Squamata	Gekkonidae
13	Mammalia	Carnivora	Otariidae
14	Amphibia	Urodela	Plethodontidae
15	Reptilia	Squamata	Scincidae
16	Amphibia	Anura	Bufonidae
17	Reptilia	Squamata	Lacertidae
18	Reptilia	Squamata	Scincidae
19	Reptilia	Squamata	Scincidae
20	Aves	Passeriformes	Acrocephalidae
21	Reptilia	Squamata	Phrynosomatidae
22	Reptilia	Squamata (serpentes)	Colubridae
23	Amphibia	Anura	Ranidae
24	Reptilia	Squamata	Phrynosomatidae
25	Reptilia	Squamata	Teiidae
26	Reptilia	Squamata	Teiidae
27	Reptilia	Squamata	Gekkonidae
28	Reptilia	Squamata	Diplodactylidae
29	Reptilia	Squamata	Eublepharidae
30	Reptilia	Squamata	Scincidae
31	Reptilia	Squamata (serpentes)	Colubridae
32	Aves	Charadriiformes	Laridae
33	Aves	Procellariiformes	Hydrobatidae
34	Reptilia	Crocodylia	Alligatoridae
35	Amphibia	Urodela	Salamandridae
36	Reptilia	Squamata	Varanidae
37	Aves	Procellariiformes	Procellariidae
38	Aves	Procellariiformes	Procellariidae
39	Reptilia	Squamata	Lacertidae
40	Reptilia	Squamata	Lacertidae
41	Mammalia	Lagomorpha	Leporidae
42	Mammalia	Rodentia	Sciuridae
43	Reptilia	Squamata	Diplodactylidae
44	Reptilia	Squamata (serpentes)	Colubridae
45	Aves	Anseriformes	Anatidae
46	Aves	Procellariiformes	Procellariidae
47	Aves	Charadriiformes	Laridae
48	Aves	Charadriiformes	Laridae
49	Aves	Passeriformes	Emberizidae

1			
2	Aves	Anseriformes	Anatidae
3	Aves	Passeriformes	Emberizidae
4	Reptilia	Squamata	Dactyloidae
5	Amphibia	Urodela	Salamandridae
6	Reptilia	Squamata	Scincidae
7	Reptilia	Squamata	Lacertidae
8	Reptilia	Squamata	Lacertidae
9	Reptilia	Squamata	Lacertidae
10	Reptilia	Squamata	Lacertidae
11	Reptilia	Squamata	Lacertidae
12	Reptilia	Squamata	Lacertidae
13	Reptilia	Squamata	Lacertidae
14	Reptilia	Testudines	Testudinidae
15	Reptilia	Testudines	Testudinidae
16	Reptilia	Testudines	Testudinidae
17	Reptilia	Testudines	Testudinidae
18	Reptilia	Testudines	Testudinidae
19	Amphibia	Urodela	Proteidae
20	Reptilia	Squamata	Liolaemidae
21	Reptilia	Squamata	Liolaemidae
22	Reptilia	Squamata	Liolaemidae
23	Reptilia	Squamata	Liolaemidae
24	Amphibia	Anura	Aromobatidae
25	Reptilia	Testudines	Geoemydidae
26	Amphibia	Anura	Bufonidae
27	Amphibia	Anura	Bufonidae
28	Amphibia	Anura	Bufonidae
29	Mammalia	Artiodactyla	Cervidae
30	Reptilia	Testudines	Testudinidae
31	Reptilia	Testudines	Testudinidae
32	Reptilia	Testudines	Testudinidae
33	Reptilia	Testudines	Testudinidae
34	Reptilia	Testudines	Trionychidae
35	Reptilia	Testudines	Geoemydidae
36	Reptilia	Squamata	Lacertidae
37	Reptilia	Squamata	Scincidae
38	Reptilia	Squamata	Agamidae
39	Reptilia	Squamata	Viperidae
40	Reptilia	Squamata (serpentes)	Teiidae
41	Reptilia	Squamata	Alligatoridae
42	Reptilia	Crocodylia	Crocodylidae
43	Reptilia	Crocodylia	Gavialidae
44	Reptilia	Crocodylia	Gavialidae
45	Reptilia	Squamata (serpentes)	Colubridae
46	Reptilia	Squamata (serpentes)	Colubridae
47	Mammalia	Primates	Cebidae
48	Mammalia	Primates	Indridae
49	Mammalia	Primates	Indridae
50	Mammalia	Primates	Atelidae
51	Mammalia	Primates	Atelidae
52	Mammalia	Primates	Cercopithecidae
53	Mammalia	Primates	Cercopithecidae
54	Mammalia	Primates	Hominidae
55	Aves	Psittaciformes	Psittacidae
56	Aves	Psittaciformes	Psittacidae
57	Aves	Psittaciformes	Psittacidae
58	Aves	Psittaciformes	Psittacidae
59	Aves	Pelecaniformes	Threskiornithidae
60	Aves	Pelecaniformes	Threskiornithidae
	Aves	Pelecaniformes	Threskiornithidae

1			
2	Aves	Psittaciformes	Psittacidae
3	Aves	Ciconiiformes	Ciconiidae
4	Aves	Psittaciformes	Psittacidae
5	Aves	Psittaciformes	Psittacidae
6	Aves	Psittaciformes	Psittacidae
7	Aves	Pelecaniformes	Threskiornithidae
8	Aves	Psittaciformes	Cacatuidae
9	Aves	Psittaciformes	Psittacidae
10	Aves	Psittaciformes	Psittacidae
11	Aves	Psittaciformes	Psittacidae
12	Aves	Psittaciformes	Psittacidae
13	Aves	Psittaciformes	Psittacidae
14	Aves	Psittaciformes	Psittacidae
15	Aves	Psittaciformes	Psittacidae
16	Aves	Psittaciformes	Psittacidae
17	Aves	Psittaciformes	Psittacidae
18	Aves	Psittaciformes	Psittacidae
19	Aves	Psittaciformes	Psittacidae
20	Aves	Psittaciformes	Psittacidae
21	Aves	Psittaciformes	Psittacidae
22	Aves	Ciconiiformes	Ciconiidae
23	Aves	Psittaciformes	Psittacidae
24	Aves	Psittaciformes	Psittacidae
25	Aves	Psittaciformes	Psittacidae
26	Aves	Pelecaniformes	Threskiornithidae
27	Aves	Psittaciformes	Psittacidae
28	Aves	Psittaciformes	Psittacidae
29	Aves	Psittaciformes	Psittacidae
30	Aves	Psittaciformes	Psittacidae
31	Aves	Psittaciformes	Psittacidae
32	Aves	Psittaciformes	Psittacidae
33	Aves	Psittaciformes	Psittacidae
34	Aves	Psittaciformes	Psittacidae
35	Aves	Pelecaniformes	Threskiornithidae
36	Aves	Pelecaniformes	Threskiornithidae
37	Aves	Psittaciformes	Psittacidae
38	Aves	Psittaciformes	Psittacidae
39	Aves	Psittaciformes	Psittacidae
40	Aves	Psittaciformes	Psittacidae
41	Aves	Psittaciformes	Psittacidae
42	Aves	Psittaciformes	Psittacidae
43	Aves	Psittaciformes	Psittacidae
44	Aves	Psittaciformes	Psittacidae
45	Aves	Psittaciformes	Psittacidae
46	Aves	Pelecaniformes	Threskiornithidae
47	Aves	Psittaciformes	Psittacidae
48	Aves	Psittaciformes	Psittacidae
49	Aves	Psittaciformes	Psittacidae
50	Aves	Ciconiiformes	Ciconiidae
51	Aves	Pelecaniformes	Threskiornithidae
52	Aves	Psittaciformes	Psittacidae
53	Aves	Psittaciformes	Psittacidae
54	Aves	Psittaciformes	Psittacidae
55	Aves	Psittaciformes	Psittacidae
56	Aves	Psittaciformes	Psittacidae
57	Aves	Pelecaniformes	Threskiornithidae
58	Aves	Psittaciformes	Psittacidae
59	Aves	Psittaciformes	Psittacidae
60	Aves	Psittaciformes	Psittacidae
	Aves	Psittaciformes	Psittacidae

1			
2	Aves	Pelecaniformes	Threskiornithidae
3	Aves	Psittaciformes	Psittacidae
4	Aves	Psittaciformes	Psittacidae
5	Aves	Psittaciformes	Psittacidae
6	Aves	Psittaciformes	Psittacidae
7	Aves	Ciconiiformes	Ciconiidae
8	Aves	Psittaciformes	Psittacidae
9	Aves	Psittaciformes	Psittacidae
10	Aves	Ciconiiformes	Ciconiidae
11	Aves	Psittaciformes	Psittacidae
12	Aves	Psittaciformes	Cacatuidae
13	Aves	Psittaciformes	Psittacidae
14	Aves	Psittaciformes	Psittacidae
15	Aves	Psittaciformes	Psittacidae
16	Aves	Ciconiiformes	Ciconiidae
17	Aves	Psittaciformes	Psittacidae
18	Aves	Psittaciformes	Psittacidae
19	Aves	Pelecaniformes	Threskiornithidae
20	Aves	Psittaciformes	Psittacidae
21	Aves	Psittaciformes	Psittacidae
22	Aves	Psittaciformes	Psittacidae
23	Aves	Psittaciformes	Psittacidae
24	Aves	Psittaciformes	Psittacidae
25	Aves	Psittaciformes	Psittacidae
26	Aves	Ciconiiformes	Ciconiidae
27	Aves	Psittaciformes	Psittacidae
28	Aves	Psittaciformes	Psittacidae
29	Aves	Psittaciformes	Psittacidae
30	Aves	Psittaciformes	Psittacidae
31	Aves	Psittaciformes	Psittacidae
32	Aves	Psittaciformes	Psittacidae
33	Aves	Psittaciformes	Psittacidae
34	Aves	Psittaciformes	Psittacidae
35	Aves	Psittaciformes	Psittacidae
36	Aves	Psittaciformes	Psittacidae
37	Aves	Psittaciformes	Psittacidae
38	Aves	Psittaciformes	Psittacidae
39	Aves	Ciconiiformes	Ciconiidae
40	Aves	Ciconiiformes	Ciconiidae
41	Aves	Pelecaniformes	Threskiornithidae
42	Aves	Psittaciformes	Psittacidae
43	Aves	Pelecaniformes	Threskiornithidae
44	Aves	Psittaciformes	Psittacidae
45	Aves	Pelecaniformes	Threskiornithidae
46	Aves	Psittaciformes	Psittacidae
47	Aves	Pelecaniformes	Threskiornithidae
48	Aves	Psittaciformes	Psittacidae
49	Aves	Pelecaniformes	Threskiornithidae
50	Aves	Psittaciformes	Psittacidae
51	Aves	Psittaciformes	Psittacidae
52	Aves	Psittaciformes	Psittacidae
53	Aves	Psittaciformes	Psittacidae
54	Aves	Ciconiiformes	Ciconiidae
55	Aves	Psittaciformes	Psittacidae
56	Aves	Psittaciformes	Psittacidae
57	Aves	Psittaciformes	Psittacidae
58	Aves	Psittaciformes	Psittacidae
59	Aves	Ciconiiformes	Ciconiidae
60	Aves	Psittaciformes	Psittacidae

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2	Aves	Ciconiiformes	Ciconiidae
3	Aves	Psittaciformes	Psittacidae
4	Aves	Psittaciformes	Psittacidae
5	Aves	Psittaciformes	Psittacidae
6	Aves	Pelecaniformes	Threskiornithidae
7	Aves	Psittaciformes	Psittacidae
8	Aves	Psittaciformes	Psittacidae
9	Aves	Psittaciformes	Psittacidae
10	Aves	Psittaciformes	Psittacidae
11	Aves	Psittaciformes	Psittacidae
12	Aves	Ciconiiformes	Ciconiidae
13	Aves	Psittaciformes	Psittacidae
14	Aves	Psittaciformes	Psittacidae
15	Aves	Psittaciformes	Psittacidae
16	Aves	Pelecaniformes	Threskiornithidae
17	Aves	Pelecaniformes	Threskiornithidae
18	Aves	Ciconiiformes	Ciconiidae
19	Aves	Psittaciformes	Psittacidae
20	Aves	Psittaciformes	Psittacidae
21	Aves	Ciconiiformes	Ciconiidae
22	Aves	Ciconiiformes	Ciconiidae
23	Aves	Pelecaniformes	Threskiornithidae
24	Aves	Pelecaniformes	Threskiornithidae
25	Aves	Pelecaniformes	Threskiornithidae
26	Aves	Pelecaniformes	Threskiornithidae
27	Aves	Psittaciformes	Cacatuidae
28	Aves	Psittaciformes	Cacatuidae
29	Aves	Psittaciformes	Cacatuidae
30	Aves	Psittaciformes	Cacatuidae
31	Aves	Psittaciformes	Cacatuidae
32	Aves	Psittaciformes	Cacatuidae
33	Aves	Psittaciformes	Cacatuidae
34	Aves	Psittaciformes	Cacatuidae
35	Aves	Psittaciformes	Cacatuidae
36	Aves	Psittaciformes	Cacatuidae
37	Aves	Psittaciformes	Psittacidae
38	Aves	Psittaciformes	Psittacidae
39	Aves	Psittaciformes	Psittacidae
40	Aves	Psittaciformes	Psittacidae
41	Aves	Psittaciformes	Psittacidae
42	Aves	Psittaciformes	Psittacidae
43	Aves	Psittaciformes	Psittacidae
44	Aves	Psittaciformes	Psittacidae
45	Aves	Psittaciformes	Psittacidae
46	Aves	Psittaciformes	Psittacidae
47	Aves	Psittaciformes	Psittacidae
48	Aves	Psittaciformes	Psittacidae
49	Aves	Psittaciformes	Psittacidae
50	Aves	Psittaciformes	Psittacidae
51	Aves	Psittaciformes	Psittacidae
52	Aves	Psittaciformes	Psittacidae
53	Aves	Psittaciformes	Psittacidae
54	Aves	Psittaciformes	Psittacidae
55	Aves	Psittaciformes	Psittacidae
56	Aves	Psittaciformes	Psittacidae
57	Aves	Psittaciformes	Psittacidae
58	Aves	Psittaciformes	Psittacidae
59	Aves	Psittaciformes	Psittacidae
60	Aves	Psittaciformes	Psittacidae
	Aves	Psittaciformes	Psittacidae

1			
2	Aves	Psittaciformes	Psittacidae
3	Aves	Psittaciformes	Psittacidae
4	Aves	Psittaciformes	Psittacidae
5	Aves	Psittaciformes	Psittacidae
6	Aves	Psittaciformes	Psittacidae
7	Aves	Psittaciformes	Psittacidae
8	Aves	Psittaciformes	Psittacidae
9	Aves	Psittaciformes	Psittacidae
10	Aves	Psittaciformes	Psittacidae
11	Aves	Psittaciformes	Psittacidae
12	Aves	Psittaciformes	Psittacidae
13	Aves	Psittaciformes	Psittacidae
14	Aves	Psittaciformes	Psittacidae
15	Aves	Psittaciformes	Psittacidae
16	Aves	Psittaciformes	Psittacidae
17	Aves	Psittaciformes	Psittacidae
18	Aves	Psittaciformes	Psittacidae
19	Aves	Psittaciformes	Psittacidae
20	Aves	Psittaciformes	Psittacidae
21	Aves	Psittaciformes	Psittacidae
22	Aves	Psittaciformes	Psittacidae
23	Aves	Psittaciformes	Psittacidae
24	Aves	Psittaciformes	Psittacidae
25	Aves	Psittaciformes	Psittacidae
26	Aves	Psittaciformes	Psittacidae
27	Reptilia	Squamata	Agamidae
28	Reptilia	Squamata	Scincidae
29	Reptilia	Squamata	Agamidae
30	Reptilia	Squamata	Carphodactylidae
31	Reptilia	Squamata	Scincidae
32	Reptilia	Squamata	Scincidae
33	Reptilia	Squamata	Gekkonidae
34	Reptilia	Squamata	Gekkonidae
35	Reptilia	Squamata	Scincidae
36	Reptilia	Squamata	Scincidae
37	Reptilia	Squamata	Gekkonidae
38	Reptilia	Squamata	Gekkonidae
39	Reptilia	Squamata	Gekkonidae
40	Reptilia	Squamata	Gekkonidae
41	Amphibia	Anura	Ranidae
42	Reptilia	Squamata	Agamidae
43	Reptilia	Squamata	Carphodactylidae
44	Reptilia	Squamata	Agamidae
45	Reptilia	Squamata	Agamidae
46	Reptilia	Squamata	Diplodactylidae
47	Reptilia	Squamata	Varanidae
48	Reptilia	Squamata	Plethodontidae
49	Reptilia	Squamata	Lacertidae
50	Reptilia	Squamata	Lacertidae
51	Amphibia	Anura	Ranidae
52	Reptilia	Squamata	Lacertidae
53	Reptilia	Squamata	Lacertidae
54	Reptilia	Squamata	Lacertidae
55	Aves	Procellariiformes	Diomedidae
56	Aves	Galliformes	Phasianidae
57	Aves	Procellariiformes	Procellariidae
58	Amphibia	Anura	Hylidae
59	Reptilia	Squamata	Liolaemidae
60			

1			
2	Reptilia	Squamata	Liolaemidae
3	Reptilia	Squamata	Liolaemidae
4	Reptilia	Squamata	Liolaemidae
5	Reptilia	Squamata	Liolaemidae
6	Reptilia	Squamata	Liolaemidae
7	Reptilia	Squamata	Gekkonidae
8	Amphibia	Anura	Hylidae
9	Amphibia	Anura	Hylidae
10			
11	Aves	Apodiformes	Trochilidae
12	Aves	Strigiformes	Strigidae
13	Reptilia	Squamata	Lacertidae
14	Aves	Galliformes	Phasianidae
15	Aves	Accipitriformes	Accipitridae
16	Aves	Accipitriformes	Accipitridae
17	Aves	Accipitriformes	Accipitridae
18	Aves	Apterygiformes	Apterygidae
19	Aves	Strigiformes	Strigidae
20	Aves	Anseriformes	Anatidae
21	Aves	Accipitriformes	Accipitridae
22	Aves	Columbiformes	Columbidae
23	Aves	Phoenicopteriformes	Phoenicopteridae
24	Aves	Anseriformes	Anatidae
25	Aves	Accipitriformes	Accipitridae
26	Aves	Accipitriformes	Accipitridae
27	Aves	Accipitriformes	Accipitridae
28	Aves	Accipitriformes	Accipitridae
29	Aves	Casuariiformes	Dromaiidae
30	Aves	Galliformes	Phasianidae
31	Aves	Suliformes	Anhingidae
32	Aves	Accipitriformes	Accipitridae
33	Aves	Galliformes	Cracidae
34	Aves	Galliformes	Cracidae
35	Aves	Accipitriformes	Accipitridae
36	Aves	Accipitriformes	Accipitridae
37	Aves	Suliformes	Anhingidae
38	Aves	Galliformes	Megapodiidae
39	Aves	Accipitriformes	Accipitridae
40	Aves	Passeriformes	Fringillidae
41	Aves	Accipitriformes	Accipitridae
42	Aves	Accipitriformes	Accipitridae
43	Aves	Accipitriformes	Accipitridae
44	Aves	Accipitriformes	Cathartidae
45	Aves	Anseriformes	Anatidae
46	Aves	Bucerotiformes	Bucorvidae
47	Aves	Galliformes	Cracidae
48	Aves	Passeriformes	Corvidae
49	Aves	Passeriformes	Fringillidae
50	Aves	Passeriformes	Icteridae
51	Aves	Struthioniformes	Struthionidae
52	Aves	Tinamiformes	Tinamidae
53	Reptilia	Squamata (serpentes)	Colubridae
54	Reptilia	Squamata (serpentes)	Viperidae

1			
2	Reptilia	Squamata	Cordylidae
3	Reptilia	Squamata	Scincidae
4	Reptilia	Squamata	Scincidae
5	Reptilia	Squamata (serpentes)	Colubridae
6	Reptilia	Squamata	Scincidae
7	Reptilia	Squamata	Anguidae
8	Reptilia	Squamata (serpentes)	Colubridae
9	Reptilia	Squamata	Lacertidae
10	Reptilia	Squamata (serpentes)	Colubridae
11	Reptilia	Squamata	Diplodactylidae
12	Reptilia	Squamata (serpentes)	Colubridae
13	Reptilia	Squamata (serpentes)	Viperidae
14	Reptilia	Squamata (serpentes)	Colubridae
15	Reptilia	Squamata (serpentes)	Boidae
16	Reptilia	Squamata (serpentes)	Colubridae
17	Reptilia	Squamata (serpentes)	Colubridae
18	Reptilia	Squamata (serpentes)	Colubridae
19	Reptilia	Squamata	Gerrhosauridae
20	Reptilia	Squamata	Scincidae
21	Reptilia	Squamata (serpentes)	Boidae
22	Reptilia	Squamata (serpentes)	Colubridae
23	Reptilia	Squamata (serpentes)	Colubridae
24	Reptilia	Squamata (serpentes)	Colubridae
25	Reptilia	Squamata (serpentes)	Viperidae
26	Reptilia	Squamata (serpentes)	Colubridae
27	Reptilia	Squamata (serpentes)	Colubridae
28	Reptilia	Squamata (serpentes)	Colubridae
29	Reptilia	Squamata (serpentes)	Colubridae
30	Reptilia	Squamata (serpentes)	Colubridae
31	Reptilia	Squamata (serpentes)	Colubridae
32	Reptilia	Squamata (serpentes)	Colubridae
33	Reptilia	Squamata (serpentes)	Colubridae
34	Reptilia	Squamata	Dactyloidae
35	Reptilia	Squamata	Agamidae
36	Reptilia	Squamata (serpentes)	Colubridae
37	Reptilia	Squamata	Sphaerodactylidae
38	Reptilia	Squamata (serpentes)	Viperidae
39	Reptilia	Squamata (serpentes)	Colubridae
40	Reptilia	Squamata (serpentes)	Viperidae
41	Reptilia	Squamata (serpentes)	Viperidae
42	Reptilia	Squamata (serpentes)	Lamprophiidae
43	Reptilia	Squamata	Varanidae
44	Amphibia	Urodela	Plethodontidae
45	Amphibia	Urodela	Ambystomatidae
46	Amphibia	Urodela	Ambystomatidae
47	Amphibia	Urodela	Sirenidae
48	Amphibia	Anura	Hylidae
49	Amphibia	Anura	Hylidae
50	Amphibia	Anura	Bufonidae
51	Aves	Galliformes	Phasianidae
52	Aves	Passeriformes	Emberizidae
53	Aves	Galliformes	Phasianidae
54	Aves	Charadriiformes	Laridae
55	Aves	Procellariiformes	Diomedidae

1			
2	Aves	Pelecaniformes	Ardeidae
3	Aves	Pelecaniformes	Ardeidae
4	Aves	Podicipediformes	Podicipedidae
5	Aves	Galliformes	Phasianidae
6	Aves	Accipitriformes	Accipitridae
7	Aves	Galliformes	Phasianidae
8	Aves	Charadriiformes	Laridae
9	Aves	Accipitriformes	Cathartidae
10	Aves	Gaviiformes	Gaviidae
11	Aves	Procellariiformes	Diomedeiidae
12	Aves	Apodiformes	Trochilidae
13	Aves	Charadriiformes	Alcidae
14	Aves	Accipitriformes	Accipitridae
15	Aves	Passeriformes	Parulidae
16	Aves	Procellariiformes	Procellariidae
17	Aves	Accipitriformes	Accipitridae
18	Aves	Accipitriformes	Accipitridae
19	Aves	Accipitriformes	Accipitridae
20	Aves	Suliformes	Sulidae
21	Aves	Procellariiformes	Diomedeiidae
22	Aves	Procellariiformes	Procellariidae
23	Aves	Accipitriformes	Accipitridae
24	Aves	Accipitriformes	Accipitridae
25	Aves	Accipitriformes	Accipitridae
26	Aves	Accipitriformes	Accipitridae
27	Aves	Accipitriformes	Accipitridae
28	Aves	Suliformes	Sulidae
29	Aves	Accipitriformes	Accipitridae
30	Aves	Charadriiformes	Laridae
31	Aves	Passeriformes	Estrildidae
32	Aves	Passeriformes	Parulidae
33	Aves	Passeriformes	Corvidae
34	Aves	Accipitriformes	Accipitridae
35	Aves	Accipitriformes	Accipitridae
36	Aves	Accipitriformes	Accipitridae
37	Aves	Accipitriformes	Accipitridae
38	Aves	Charadriiformes	Haematopodidae
39	Aves	Galliformes	Phasianidae
40	Aves	Passeriformes	Cardinalidae
41	Aves	Passeriformes	Emberizidae
42	Aves	Passeriformes	Emberizidae
43	Aves	Passeriformes	Fringillidae
44	Aves	Passeriformes	Icteridae
45	Aves	Passeriformes	Icteridae
46	Aves	Passeriformes	Mimidae
47	Aves	Passeriformes	Parulidae
48	Aves	Passeriformes	Turdidae
49	Aves	Procellariiformes	Hydrobatidae
50	Aves	Strigiformes	Strigidae
51	Mammalia	Cetacea	Physeteridae
52	Mammalia	Cetacea	Hyperoodontidae

1			
2	Mammalia	Cetacea	Delphinidae
3	Mammalia	Cetacea	Phocoenidae
4	Mammalia	Chiroptera	Vespertilionidae
5	Mammalia	Cetacea	Balaenopteridae
6	Mammalia	Cetacea	Balaenopteridae
7	Mammalia	Chiroptera	Rhinolophidae
8	Mammalia	Chiroptera	Vespertilionidae
9	Mammalia	Cetacea	Delphinidae
10	Mammalia	Cetacea	Balaenopteridae
11	Mammalia	Cetacea	Balaenopteridae
12	Mammalia	Chiroptera	Vespertilionidae
13	Mammalia	Cetacea	Delphinidae
14	Mammalia	Chiroptera	Vespertilionidae
15	Mammalia	Cetacea	Delphinidae
16	Mammalia	Cetacea	Delphinidae
17	Mammalia	Cetacea	Delphinidae
18	Mammalia	Cetacea	Balaenopteridae
19	Mammalia	Chiroptera	Vespertilionidae
20	Mammalia	Chiroptera	Vespertilionidae
21	Reptilia	Squamata (serpentes)	Viperidae
22	Reptilia	Squamata (serpentes)	Colubridae
23	Reptilia	Testudines	Geoemydidae
24	Reptilia	Testudines	Trionychidae
25	Reptilia	Squamata (serpentes)	Colubridae
26	Mammalia	Lagomorpha	Leporidae
27	Reptilia	Squamata (serpentes)	Viperidae
28	Reptilia	Squamata (serpentes)	Viperidae
29	Reptilia	Squamata (serpentes)	Pythonidae
30	Reptilia	Squamata (serpentes)	Colubridae
31	Reptilia	Testudines	Geoemydidae
32	Reptilia	Testudines	Chelidae
33	Reptilia	Testudines	Chelidae
34	Reptilia	Testudines	Chelidae
35	Reptilia	Testudines	Trionychidae
36	Reptilia	Testudines	Testudinidae
37	Reptilia	Testudines	Chelidae
38	Reptilia	Testudines	Geoemydidae
39	Reptilia	Testudines	Pelomedusidae
40	Reptilia	Testudines	Geoemydidae
41	Reptilia	Testudines	Emydidae
42	Reptilia	Testudines	Pelomedusidae
43	Reptilia	Squamata	Lacertidae
44	Reptilia	Squamata	Lacertidae
45	Amphibia	Urodela	Plethodontidae
46	Amphibia	Anura	Bufonidae
47	Reptilia	Squamata	Varanidae
48	Reptilia	Squamata (serpentes)	Colubridae
49	Reptilia	Squamata (serpentes)	Lamprophiidae
50	Reptilia	Squamata	Teiidae
51	Reptilia	Squamata	Lacertidae
52	Reptilia	Squamata	Lacertidae
53	Reptilia	Squamata	Gymnophthalmidae
54	Reptilia	Squamata	Agamidae

1			
2	Reptilia	Squamata (serpentes)	Elapidae
3	Reptilia	Squamata	Scincidae
4	Reptilia	Squamata	Scincidae
5	Reptilia	Squamata	Scincidae
6	Reptilia	Squamata	Scincidae
7	Reptilia	Squamata	Scincidae
8	Amphibia	Anura	Ranidae
9	Amphibia	Anura	Ranidae
10	Amphibia	Anura	Ranidae
11	Amphibia	Anura	Ranidae
12	Amphibia	Anura	Bufonidae
13	Aves	Phoenicopteriformes	Phoenicopteridae
14	Amphibia	Anura	Ranidae
15	Amphibia	Anura	Ranidae
16	Amphibia	Anura	Ranidae
17	Reptilia	Squamata	Agamidae
18	Reptilia	Squamata	Gekkonidae
19	Reptilia	Squamata	Lacertidae
20			
21	Aves	Charadriiformes	Laridae
22	Aves	Suliformes	Phalacrocoracidae
23	Aves	Anseriformes	Anatidae
24	Aves	Anseriformes	Anatidae
25	Aves	Suliformes	Phalacrocoracidae
26	Aves	Accipitriformes	Cathartidae
27	Aves	Anseriformes	Anatidae
28	Aves	Anseriformes	Anatidae
29	Aves	Anseriformes	Anatidae
30	Aves	Strigiformes	Strigidae
31	Aves	Passeriformes	Paridae
32	Aves	Passeriformes	Paridae
33	Aves	Cuculiformes	Cuculidae
34	Aves	Charadriiformes	Scolopacidae
35	Aves	Procellariiformes	Procellariidae
36	Aves	Passeriformes	Paridae
37	Aves	Cuculiformes	Cuculidae
38	Aves	Passeriformes	Tyrannidae
39	Aves	Charadriiformes	Scolopacidae
40	Aves	Columbiformes	Columbidae
41	Aves	Passeriformes	Hirundinidae
42	Aves	Piciformes	Picidae
43	Aves	Pelecaniformes	Pelecanidae
44	Aves	Gruiformes	Rallidae
45	Aves	Charadriiformes	Charadriidae
46	Aves	Passeriformes	Paridae
47	Aves	Galliformes	Odontophoridae
48	Aves	Anseriformes	Anatidae
49	Aves	Anseriformes	Anatidae
50	Aves	Anseriformes	Anatidae
51	Aves	Anseriformes	Anatidae
52	Aves	Apodiformes	Apodidae
53	Aves	Charadriiformes	Charadriidae
54	Aves	Charadriiformes	Scolopacidae

1			
2	Aves	Columbiformes	Columbidae
3	Aves	Galliformes	Phasianidae
4	Aves	Passeriformes	Corvidae
5	Aves	Passeriformes	Corvidae
6	Aves	Passeriformes	Corvidae
7	Aves	Passeriformes	Corvidae
8	Aves	Passeriformes	Hirundinidae
9	Aves	Passeriformes	Paridae
10	Aves	Passeriformes	Tyrannidae
11	Aves	Passeriformes	Tyrannidae
12	Aves	Passeriformes	Tyrannidae
13	Aves	Pelecaniformes	Ardeidae
14	Aves	Pelecaniformes	Ardeidae
15	Aves	Pelecaniformes	Ardeidae
16	Aves	Pelecaniformes	Ardeidae
17	Aves	Pelecaniformes	Ardeidae
18	Aves	Pelecaniformes	Ardeidae
19	Aves	Suliformes	Phalacrocoracidae
20	Aves	Suliformes	Phalacrocoracidae
21	Aves	Suliformes	Phalacrocoracidae
22	Reptilia	Squamata	Anguidae
23	Mammalia	Chiroptera	Phyllostomidae
24	Aves	Casuariiformes	Casuariidae
25	Aves	Casuariiformes	Casuariidae
26	Reptilia	Squamata (serpentes)	Colubridae
27	Aves	Passeriformes	Ploceidae
28	Reptilia	Squamata	Lacertidae
29	Amphibia	Urodela	Plethodontidae
30	Amphibia	Urodela	Plethodontidae
31	Amphibia	Urodela	Plethodontidae
32	Amphibia	Urodela	Plethodontidae
33	Amphibia	Urodela	Plethodontidae
34	Amphibia	Urodela	Plethodontidae
35	Reptilia	Testudines	Emydidae
36	Amphibia	Anura	Ranidae
37	Reptilia	Squamata	Lacertidae
38	Reptilia	Squamata	Teiidae
39	Reptilia	Squamata	Teiidae
40	Reptilia	Squamata	Diploglossidae
41	Reptilia	Squamata	Diploglossidae
42	Reptilia	Squamata	Diploglossidae
43	Reptilia	Squamata	Diploglossidae
44	Reptilia	Squamata	Scincidae
45	Reptilia	Squamata	Diplodactylidae
46	Reptilia	Squamata	Diplodactylidae
47	Reptilia	Squamata	Scincidae
48	Reptilia	Squamata	Scincidae
49	Reptilia	Squamata	Scincidae
50	Reptilia	Squamata	Scincidae
51	Reptilia	Squamata	Diplodactylidae
52	Amphibia	Urodela	Plethodontidae
53	Amphibia	Anura	Leptodactylidae
54	Amphibia	Anura	Leptodactylidae
55	Mammalia	Rodentia	Bathyergidae
56	Amphibia	Anura	Ascaphidae
57	Amphibia	Urodela	Plethodontidae
58	Amphibia	Anura	Ranidae
59	Amphibia	Anura	Bufonidae
60	Amphibia	Anura	Ranidae

1			
2	Amphibia	Anura	Ranidae
3	Amphibia	Anura	Bufonidae
4	Amphibia	Urodela	Plethodontidae
5	Amphibia	Anura	Ranidae
6	Amphibia	Anura	Scaphiopodidae
7	Amphibia	Anura	Hylidae
8	Amphibia	Urodela	Cryptobranchidae
9	Amphibia	Urodela	Ambystomatidae
10	Amphibia	Urodela	Ambystomatidae
11	Amphibia	Urodela	Plethodontidae
12	Amphibia	Anura	Ranidae
13	Amphibia	Anura	Microhylidae
14	Amphibia	Urodela	Amphiumidae
15	Amphibia	Anura	Pyxicephalidae
16	Amphibia	Anura	Bufonidae
17	Amphibia	Anura	Dendrobatidae
18	Reptilia	Squamata (serpentes)	Colubridae
19	Reptilia	Squamata (serpentes)	Colubridae
20	Reptilia	Squamata	Diplodactylidae
21	Reptilia	Squamata (serpentes)	Colubridae
22	Reptilia	Squamata (serpentes)	Viperidae
23	Reptilia	Squamata (serpentes)	Colubridae
24	Reptilia	Squamata (serpentes)	Colubridae
25	Reptilia	Squamata (serpentes)	Colubridae
26	Reptilia	Squamata (serpentes)	Boidae
27	Reptilia	Squamata	Anguidae
28	Reptilia	Testudines	Testudinidae
29	Reptilia	Squamata	Diplodactylidae
30	Reptilia	Squamata (serpentes)	Viperidae
31	Reptilia	Squamata (serpentes)	Colubridae
32	Reptilia	Squamata (serpentes)	Colubridae
33	Reptilia	Squamata (serpentes)	Viperidae
34	Reptilia	Squamata	Teiidae
35	Reptilia	Squamata (serpentes)	Viperidae
36	Reptilia	Squamata	Cordylidae
37	Reptilia	Squamata (serpentes)	Viperidae
38	Reptilia	Squamata	Cordylidae
39	Reptilia	Squamata	Gekkonidae
40	Reptilia	Squamata (serpentes)	Viperidae
41	Reptilia	Squamata (serpentes)	Boidae
42	Reptilia	Squamata (serpentes)	Viperidae
43	Reptilia	Squamata (serpentes)	Viperidae
44	Reptilia	Squamata (serpentes)	Colubridae
45	Reptilia	Squamata	Xantusiidae
46	Reptilia	Squamata (serpentes)	Colubridae
47	Reptilia	Squamata (serpentes)	Viperidae
48	Reptilia	Squamata (serpentes)	Viperidae
49	Reptilia	Testudines	Chelidae

1			
2	Reptilia	Squamata (serpentes)	Elapidae
3	Reptilia	Squamata (serpentes)	Colubridae
4	Reptilia	Squamata (serpentes)	Elapidae
5	Reptilia	Squamata (serpentes)	Colubridae
6	Reptilia	Squamata (serpentes)	Viperidae
7	Reptilia	Squamata (serpentes)	Elapidae
8	Reptilia	Squamata (serpentes)	Viperidae
9	Reptilia	Squamata (serpentes)	Colubridae
10	Reptilia	Squamata (serpentes)	Homalopsidae
11	Reptilia	Squamata	Gekkonidae
12	Reptilia	Squamata (serpentes)	Viperidae
13	Reptilia	Squamata (serpentes)	Elapidae
14	Reptilia	Squamata (serpentes)	Viperidae
15	Reptilia	Squamata	Scincidae
16	Reptilia	Squamata (serpentes)	Pythonidae
17	Reptilia	Squamata (serpentes)	Viperidae
18	Reptilia	Squamata (serpentes)	Viperidae
19	Reptilia	Squamata	Cordylidae
20	Reptilia	Squamata (serpentes)	Elapidae
21	Reptilia	Squamata (serpentes)	Colubridae
22	Reptilia	Squamata (serpentes)	Elapidae
23	Reptilia	Squamata (serpentes)	Viperidae
24	Reptilia	Squamata	Eublepharidae
25	Reptilia	Squamata (serpentes)	Viperidae
26	Reptilia	Squamata (serpentes)	Viperidae
27	Reptilia	Squamata	Teiidae
28	Reptilia	Squamata (serpentes)	Elapidae
29	Reptilia	Squamata	Cordylidae
30	Reptilia	Squamata	Agamidae
31	Reptilia	Squamata (serpentes)	Viperidae
32	Reptilia	Squamata (serpentes)	Lamprophiidae
33	Reptilia	Squamata (serpentes)	Viperidae
34	Reptilia	Squamata (serpentes)	Colubridae
35	Reptilia	Squamata (serpentes)	Viperidae
36	Reptilia	Squamata (serpentes)	Elapidae
37	Reptilia	Squamata (serpentes)	Lamprophiidae
38	Reptilia	Squamata (serpentes)	Colubridae
39	Reptilia	Squamata (serpentes)	Viperidae
40	Reptilia	Squamata (serpentes)	Viperidae
41	Reptilia	Squamata (serpentes)	Viperidae
42	Reptilia	Squamata	Varanidae
43	Reptilia	Squamata	Cordylidae
44	Reptilia	Squamata	Iguanidae
45	Reptilia	Squamata	Iguanidae
46	Reptilia	Squamata (serpentes)	Viperidae
47	Reptilia	Squamata (serpentes)	Lamprophiidae
48	Reptilia	Squamata (serpentes)	Colubridae
49	Reptilia	Squamata (serpentes)	Phrynosomatidae
50	Reptilia	Squamata	
51	Reptilia	Squamata	
52	Reptilia	Squamata	
53	Reptilia	Squamata	
54	Reptilia	Squamata	
55	Reptilia	Squamata	
56	Reptilia	Squamata	
57	Reptilia	Squamata	
58	Reptilia	Squamata	
59	Reptilia	Squamata	
60	Reptilia	Squamata	

1			
2	Reptilia	Squamata (serpentes)	Viperidae
3	Reptilia	Squamata	Gekkonidae
4	Reptilia	Squamata (serpentes)	Boidae
5	Reptilia	Squamata (serpentes)	Colubridae
6	Reptilia	Squamata (serpentes)	Viperidae
7	Reptilia	Squamata (serpentes)	Colubridae
8	Reptilia	Squamata (serpentes)	Colubridae
9	Reptilia	Squamata (serpentes)	Pythonidae
10	Reptilia	Squamata (serpentes)	Viperidae
11	Reptilia	Squamata (serpentes)	Elapidae
12	Reptilia	Squamata (serpentes)	Elapidae
13	Reptilia	Squamata	Iguanidae
14	Reptilia	Squamata (serpentes)	Viperidae
15	Reptilia	Squamata	Varanidae
16	Reptilia	Squamata (serpentes)	Colubridae
17	Reptilia	Squamata (serpentes)	Colubridae
18	Reptilia	Squamata	Gerrhosauridae
19	Reptilia	Squamata	Agamidae
20	Reptilia	Squamata (serpentes)	Colubridae
21	Reptilia	Squamata (serpentes)	Boidae
22	Reptilia	Squamata (serpentes)	Pythonidae
23	Reptilia	Squamata (serpentes)	Colubridae
24	Reptilia	Squamata (serpentes)	Boidae
25	Reptilia	Squamata (serpentes)	Colubridae
26	Reptilia	Squamata	Corytophanidae
27	Reptilia	Squamata (serpentes)	Viperidae
28	Reptilia	Squamata	Sphaerodactylidae
29	Reptilia	Squamata (serpentes)	Colubridae
30	Reptilia	Squamata (serpentes)	Colubridae
31	Reptilia	Squamata	Corytophanidae
32	Reptilia	Squamata (serpentes)	Colubridae
33	Reptilia	Squamata	Teiidae
34	Reptilia	Squamata	Iguanidae
35	Reptilia	Squamata (serpentes)	Viperidae
36	Reptilia	Squamata (serpentes)	Viperidae
37	Reptilia	Squamata	Varanidae
38	Reptilia	Squamata (serpentes)	Viperidae
39	Reptilia	Squamata (serpentes)	Viperidae
40	Reptilia	Squamata (serpentes)	Elapidae
41	Reptilia	Squamata	Dactyloidae
42	Reptilia	Squamata (serpentes)	Viperidae
43	Reptilia	Squamata	Scincidae
44	Reptilia	Squamata (serpentes)	Boidae
45	Reptilia	Squamata	Eublepharidae
46	Reptilia	Squamata	Iguanidae
47	Reptilia	Squamata (serpentes)	Colubridae
48	Reptilia	Squamata (serpentes)	Boidae
49	Reptilia	Squamata (serpentes)	Pythonidae
50	Reptilia	Squamata (serpentes)	
51	Reptilia	Squamata (serpentes)	
52	Reptilia	Squamata	
53	Reptilia	Squamata (serpentes)	
54	Reptilia	Squamata (serpentes)	
55	Reptilia	Squamata (serpentes)	
56	Reptilia	Squamata	
57	Reptilia	Squamata	
58	Reptilia	Squamata (serpentes)	
59	Reptilia	Squamata (serpentes)	
60	Reptilia	Squamata (serpentes)	

1			
2	Reptilia	Squamata (serpentes)	Elapidae
3	Reptilia	Squamata (serpentes)	Elapidae
4	Reptilia	Squamata	Corytophanidae
5	Reptilia	Squamata (serpentes)	Colubridae
6	Reptilia	Squamata (serpentes)	Elapidae
7	Reptilia	Crocodylia	Crocodylidae
8	Reptilia	Squamata	Agamidae
9	Reptilia	Squamata (serpentes)	Boidae
10	Reptilia	Crocodylia	Crocodylidae
11	Reptilia	Squamata (serpentes)	Elapidae
12	Reptilia	Squamata	Agamidae
13	Reptilia	Squamata (serpentes)	Viperidae
14	Reptilia	Squamata (serpentes)	Elapidae
15	Reptilia	Squamata	Varanidae
16	Reptilia	Testudines	Pelomedusidae
17	Reptilia	Squamata (serpentes)	Viperidae
18	Reptilia	Squamata (serpentes)	Boidae
19	Reptilia	Squamata (serpentes)	Boidae
20	Reptilia	Squamata (serpentes)	Pythonidae
21	Reptilia	Squamata (serpentes)	Viperidae
22	Reptilia	Squamata	Varanidae
23	Reptilia	Squamata (serpentes)	Boidae
24	Reptilia	Squamata	Gekkonidae
25	Reptilia	Squamata (serpentes)	Lamprophiidae
26	Reptilia	Squamata	Gekkonidae
27	Mammalia	Carnivora	Otariidae
28	Reptilia	Squamata	Lacertidae
29	Reptilia	Squamata	Phyllodactylidae
30	Reptilia	Squamata (serpentes)	Colubridae
31	Reptilia	Squamata (serpentes)	Colubridae
32	Reptilia	Squamata	Gerrhosauridae
33	Reptilia	Squamata	Gekkonidae
34	Reptilia	Squamata (serpentes)	Colubridae
35	Reptilia	Squamata (serpentes)	Boidae
36	Reptilia	Squamata (serpentes)	Lamprophiidae
37	Reptilia	Squamata	Xantusiidae
38	Reptilia	Squamata (serpentes)	Colubridae
39	Reptilia	Squamata	Teiidae
40	Reptilia	Squamata	Dactyloidae
41	Reptilia	Squamata	Iguanidae
42	Reptilia	Squamata (serpentes)	Colubridae
43	Reptilia	Squamata (serpentes)	Boidae
44	Reptilia	Squamata (serpentes)	Boidae
45	Reptilia	Squamata	Corytophanidae
46	Reptilia	Squamata (serpentes)	Pythonidae
47	Reptilia	Squamata	Eublepharidae
48	Reptilia	Squamata (serpentes)	Colubridae
49	Reptilia	Testudines	Emydidae

1			
2	Reptilia	Testudines	Emydidae
3	Reptilia	Squamata (serpentes)	Colubridae
4	Reptilia	Squamata (serpentes)	Viperidae
5	Reptilia	Testudines	Trionychidae
6	Reptilia	Testudines	Geoemydidae
7	Reptilia	Testudines	Testudinidae
8	Reptilia	Testudines	Emydidae
9	Reptilia	Testudines	Emydidae
10	Reptilia	Testudines	Geoemydidae
11	Reptilia	Testudines	Emydidae
12	Reptilia	Testudines	Geoemydidae
13	Reptilia	Testudines	Emydidae
14	Reptilia	Testudines	Kinosternidae
15	Reptilia	Squamata (serpentes)	Colubridae
16	Reptilia	Testudines	Emydidae
17	Reptilia	Testudines	Chelidae
18	Reptilia	Testudines	Geoemydidae
19	Reptilia	Testudines	Geoemydidae
20	Reptilia	Testudines	Geoemydidae
21	Reptilia	Testudines	Geoemydidae
22	Reptilia	Testudines	Geoemydidae
23	Reptilia	Testudines	Geoemydidae
24	Reptilia	Squamata (serpentes)	Boidae
25	Reptilia	Testudines	Emydidae
26	Reptilia	Testudines	Trionychidae
27	Reptilia	Testudines	Platysternidae
28	Reptilia	Testudines	Pelomedusidae
29	Reptilia	Testudines	Testudinidae
30	Reptilia	Squamata	Chamaeleonidae
31	Reptilia	Crocodylia	Alligatoridae
32	Reptilia	Testudines	Testudinidae
33	Reptilia	Testudines	Chelidae
34	Reptilia	Testudines	Pelomedusidae
35	Reptilia	Squamata (serpentes)	Colubridae
36	Reptilia	Testudines	Chelidae
37	Reptilia	Squamata (serpentes)	Viperidae
38	Reptilia	Testudines	Testudinidae
39	Reptilia	Crocodylia	Crocodylidae
40	Reptilia	Testudines	Kinosternidae
41	Reptilia	Testudines	Testudinidae
42	Reptilia	Testudines	Kinosternidae
43	Reptilia	Crocodylia	Crocodylidae
44	Reptilia	Testudines	Dermatemydidae
45	Reptilia	Testudines	Testudinidae
46	Reptilia	Testudines	Podocnemididae
47	Reptilia	Testudines	Chelidae
48	Reptilia	Testudines	Geoemydidae
49	Reptilia	Testudines	Geoemydidae
50	Reptilia	Testudines	Geoemydidae
51	Reptilia	Testudines	Geoemydidae
52	Reptilia	Testudines	Geoemydidae
53	Reptilia	Testudines	Podocnemididae
54	Reptilia	Testudines	
55	Reptilia	Testudines	
56	Reptilia	Testudines	
57	Reptilia	Testudines	
58	Reptilia	Testudines	
59	Reptilia	Testudines	
60	Reptilia	Testudines	

1			
2	Reptilia	Crocodylia	Crocodylidae
3	Reptilia	Squamata	Dactyloidae
4	Reptilia	Testudines	Geoemydidae
5	Reptilia	Testudines	Geoemydidae
6	Reptilia	Testudines	Trionychidae
7	Reptilia	Crocodylia	Crocodylidae
8	Reptilia	Testudines	Carettochelyidae
9	Reptilia	Testudines	Geoemydidae
10	Reptilia	Testudines	Chelidae
11	Reptilia	Testudines	Geoemydidae
12	Reptilia	Testudines	Geoemydidae
13	Reptilia	Testudines	Geoemydidae
14	Reptilia	Testudines	Geoemydidae
15	Reptilia	Testudines	Testudinidae
16	Reptilia	Crocodylia	Crocodylidae
17	Reptilia	Squamata	Teiidae
18	Reptilia	Squamata	Phrynosomatidae
19	Reptilia	Squamata	Crotaphytidae
20	Reptilia	Squamata	Teiidae
21	Reptilia	Squamata	Phrynosomatidae
22	Reptilia	Squamata	Anguidae
23	Reptilia	Squamata	Phrynosomatidae
24	Reptilia	Squamata	Phrynosomatidae
25	Reptilia	Squamata	Phrynosomatidae
26	Reptilia	Squamata	Phrynosomatidae
27	Reptilia	Squamata	Teiidae
28	Reptilia	Squamata	Gekkonidae
29	Reptilia	Squamata	Suidae
30	Mammalia	Artiodactyla	Cricetidae
31	Mammalia	Rodentia	Myobatrachidae
32	Amphibia	Anura	Myobatrachidae
33	Amphibia	Anura	Scincidae
34	Reptilia	Squamata	Scincidae
35	Reptilia	Squamata	Gekkonidae
36	Reptilia	Squamata	Gekkonidae
37	Amphibia	Anura	Bufonidae
38	Reptilia	squamata	Chamaeleonidae
39	Reptilia	Squamata (serpentes)	Colubridae
40	Mammalia	Rodentia	Heteromyidae
41	Reptilia	Squamata (serpentes)	Elapidae
42	Reptilia	Squamata (serpentes)	Elapidae
43	Reptilia	Squamata (serpentes)	Elapidae
44	Reptilia	Squamata (serpentes)	Elapidae
45	Reptilia	Squamata (serpentes)	Elapidae
46	Reptilia	Squamata (serpentes)	Elapidae
47	Reptilia	Squamata (serpentes)	Elapidae
48	Reptilia	Squamata (serpentes)	Elapidae
49	Reptilia	Squamata (serpentes)	Colubridae
50	Reptilia	Squamata (serpentes)	Elapidae
51	Reptilia	Squamata (serpentes)	Homalopsidae
52	Reptilia	Squamata (serpentes)	
53	Reptilia	Squamata (serpentes)	
54	Reptilia	Squamata (serpentes)	
55	Reptilia	Squamata (serpentes)	
56	Reptilia	Squamata (serpentes)	
57	Reptilia	Squamata (serpentes)	
58	Reptilia	Squamata (serpentes)	
59	Reptilia	Squamata (serpentes)	
60	Reptilia	Squamata (serpentes)	

1			
2	Reptilia	Squamata (serpentes)	Elapidae
3	Reptilia	Squamata	Liolaemidae
4	Amphibia	Urodela	Salamandridae
5	Reptilia	Squamata	Scincidae
6	Reptilia	Squamata (serpentes)	Colubridae
7	Reptilia	Squamata (serpentes)	Colubridae
8	Reptilia	Squamata (serpentes)	Viperidae
9	Reptilia	Testudines	Emydidae
10	Reptilia	Testudines	Emydidae
11	Reptilia	Testudines	Emydidae
12	Reptilia	Testudines	Chelydridae
13	Reptilia	Testudines	Emydidae
14	Reptilia	Testudines	Emydidae
15	Reptilia	Testudines	Trionychidae
16	Reptilia	Testudines	Emydidae
17	Reptilia	Testudines	Emydidae
18	Reptilia	Testudines	Testudinidae
19	Reptilia	Testudines	Kinosternidae
20	Reptilia	Testudines	Chelydridae
21	Reptilia	Testudines	Kinosternidae
22	Reptilia	Testudines	Emydidae
23	Reptilia	Testudines	Emydidae
24	Reptilia	Testudines	Emydidae
25	Reptilia	Testudines	Kinosternidae
26	Reptilia	Testudines	Kinosternidae
27	Reptilia	Testudines	Testudinidae
28	Reptilia	Testudines	Emydidae
29	Reptilia	Testudines	Emydidae
30	Reptilia	Testudines	Emydidae
31	Reptilia	Testudines	Kinosternidae
32	Reptilia	Testudines	Kinosternidae
33	Reptilia	Testudines	Testudinidae
34	Reptilia	Testudines	Emydidae
35	Reptilia	Testudines	Testudinidae
36	Reptilia	Testudines	Emydidae
37	Reptilia	Testudines	Emydidae
38	Reptilia	Testudines	Cheloniidae
39	Reptilia	Testudines	Cheloniidae
40	Reptilia	Testudines	Cheloniidae
41	Reptilia	Testudines	Cheloniidae
42	Reptilia	Testudines	Cheloniidae
43	Reptilia	Testudines	Cheloniidae
44	Reptilia	Testudines	Dermochelyidae
45	Reptilia	Testudines	Emydidae
46	Reptilia	Testudines	Kinosternidae
47	Reptilia	Testudines	Kinosternidae
48	Reptilia	Testudines	Emydidae
49	Reptilia	Testudines	Trionychidae
50	Reptilia	Testudines	Emydidae
51	Reptilia	Testudines	Emydidae
52	Reptilia	Squamata	Lacertidae
53	Reptilia	Squamata	Lacertidae
54	Amphibia	Anura	Ranidae
55	Amphibia	Anura	Ranidae
56	Amphibia	Anura	Pelobatidae
57	Reptilia	Squamata (serpentes)	Viperidae
58	Amphibia	Urodela	Salamandridae

1			
2	Amphibia	Anura	Bufonidae
3	Reptilia	Squamata	Xantusiidae
4	Amphibia	Urodela	Plethodontidae
5	Reptilia	Squamata	Phrynosomatidae
6	Reptilia	Testudines	Chelidae
7	Reptilia	Squamata (serpentes)	Colubridae
8	Reptilia	Squamata (serpentes)	Colubridae
9	Reptilia	Squamata (serpentes)	Colubridae
10	Reptilia	Squamata (serpentes)	Colubridae
11	Aves	Galliformes	Phasianidae
12	Aves	Galliformes	Megapodiidae
13	Mammalia	Diprotodontia	Burramyidae
14	Reptilia	Squamata	Phrynosomatidae
15	Reptilia	Squamata	Dactyloidae
16	Reptilia	Squamata	Dactyloidae
17	Reptilia	Squamata	Dactyloidae
18	Reptilia	Squamata	Anguidae
19	Reptilia	Squamata	Xantusiidae
20	Aves	Pelecaniformes	Pelecanidae
21	Aves	Passeriformes	Corvidae
22	Aves	Sphenisciformes	Spheniscidae
23	Aves	Falconiformes	Falconidae
24	Aves	Anseriformes	Anatidae
25	Aves	Gruiformes	Gruidae
26	Aves	Accipitriformes	Accipitridae
27	Aves	Gruiformes	Rallidae
28	Aves	Pelecaniformes	Pelecanidae
29	Aves	Otidiformes	Otididae
30	Aves	Galliformes	Phasianidae
31	Aves	Pelecaniformes	Ardeidae
32	Aves	Casuariiformes	Casuariidae
33	Aves	Passeriformes	Corvidae
34	Aves	Gruiformes	Gruidae
35	Aves	Columbiformes	Columbidae
36	Aves	Anseriformes	Anatidae
37	Aves	Passeriformes	Sturnidae
38	Aves	Anseriformes	Anatidae
39	Aves	Psittaciformes	Psittacidae
40	Aves	Psittaciformes	Psittacidae
41	Aves	Musophagiformes	Musophagidae
42	Aves	Psittaciformes	Psittacidae
43	Aves	Columbiformes	Columbidae
44	Aves	Accipitriformes	Accipitridae
45	Aves	Coraciiformes	Momotidae
46	Aves	Psittaciformes	Psittacidae
47	Aves	Accipitriformes	Accipitridae
48	Aves	Psittaciformes	Psittacidae
49	Aves	Psittaciformes	Psittacidae
50	Aves	Psittaciformes	Psittacidae
51	Aves	Psittaciformes	Psittacidae
52	Aves	Psittaciformes	Psittacidae
53	Aves	Psittaciformes	Psittacidae
54	Aves	Psittaciformes	Psittacidae
55	Aves	Psittaciformes	Psittacidae
56	Aves	Psittaciformes	Psittacidae
57	Aves	Psittaciformes	Psittacidae
58	Aves	Psittaciformes	Psittacidae
59	Aves	Psittaciformes	Psittacidae
60	Aves	Psittaciformes	Psittacidae
	Aves	Coraciiformes	Meropidae

1			
2	Aves	Bucerotiformes	Bucerotidae
3	Aves	Galliformes	Phasianidae
4	Aves	Falconiformes	Falconidae
5	Aves	Psittaciformes	Psittacidae
6	Aves	Psittaciformes	Psittacidae
7	Aves	Accipitriformes	Accipitridae
8	Aves	Coraciiformes	Coraciidae
9	Aves	Psittaciformes	Psittacidae
10	Aves	Psittaciformes	Psittacidae
11	Aves	Psittaciformes	Psittacidae
12	Aves	Psittaciformes	Psittacidae
13	Aves	Columbiformes	Columbidae
14	Aves	Passeriformes	Leiothrichidae
15	Aves	Columbiformes	Columbidae
16	Aves	Passeriformes	Ploceidae
17	Aves	Psittaciformes	Psittacidae
18	Aves	Passeriformes	Nectariniidae
19	Aves	Accipitriformes	Accipitridae
20	Aves	Passeriformes	Muscicapidae
21	Aves	Accipitriformes	Accipitridae
22	Aves	Anseriformes	Anatidae
23	Aves	Bucerotiformes	Bucerotidae
24	Aves	Casuariiformes	Casuariidae
25	Aves	Charadriiformes	Laridae
26	Aves	Galliformes	Phasianidae
27	Aves	Gruiformes	Gruidae
28	Aves	Gruiformes	Gruidae
29	Aves	Passeriformes	Corcoracidae
30	Aves	Passeriformes	Corcoracidae
31	Aves	Passeriformes	Corvidae
32	Aves	Passeriformes	Cotingidae
33	Aves	Passeriformes	Leiothrichidae
34	Aves	Passeriformes	Oriolidae
35	Aves	Passeriformes	Oriolidae
36	Aves	Passeriformes	Paradisaeidae
37	Aves	Passeriformes	Sturnidae
38	Aves	Passeriformes	Sturnidae
39	Aves	Passeriformes	Sylviidae
40	Aves	Passeriformes	Thraupidae
41	Aves	Pelecaniformes	Ardeidae
42	Aves	Pelecaniformes	Balaenicipitidae
43	Amphibia	Anura	Leiopelmatidae
44	Amphibia	Urodela	Ambystomatidae
45	Amphibia	Anura	Microhylidae
46	Amphibia	Anura	Ranidae
47	Amphibia	Anura	Leiopelmatidae
48	Amphibia	Anura	Leiopelmatidae
49	Amphibia	Anura	Leiopelmatidae
50	Amphibia	Anura	Leiopelmatidae
51	Amphibia	Anura	Ranidae

1			
2	Amphibia	Anura	Mantellidae
3	Amphibia	Urodela	Salamandridae
4	Amphibia	Urodela	Ambystomatidae
5	Amphibia	Anura	Ranidae
6	Amphibia	Anura	Hylidae
7	Amphibia	Anura	Bufonidae
8	Amphibia	Anura	Hylidae
9	Amphibia	Anura	Dendrobatidae
10	Amphibia	Anura	Aromobatidae
11	Amphibia	Anura	Delphinidae
12	Mammalia	Cetacea	Salamandridae
13	Amphibia	Urodela	Colubridae
14	Reptilia	Squamata (serpentes)	Lacertidae
15	Reptilia	Squamata	Scincidae
16	Reptilia	Squamata	Salamandridae
17	Amphibia	Urodela	Bufonidae
18	Amphibia	Anura	Anatidae
19	Aves	Anseriformes	Charadriidae
20	Aves	Charadriiformes	Charadriidae
21	Aves	Charadriiformes	Charadriidae
22	Aves	Charadriiformes	Stercorariidae
23	Aves	Passeriformes	Motacillidae
24	Aves	Charadriiformes	Laridae
25	Aves	Charadriiformes	Scolopacidae
26	Aves	Galliformes	Phasianidae
27	Aves	Charadriiformes	Scolopacidae
28	Aves	Anseriformes	Anatidae
29	Aves	Anseriformes	Anatidae
30	Aves	Anseriformes	Anatidae
31	Aves	Passeriformes	Corvidae
32	Aves	Charadriiformes	Scolopacidae
33	Aves	Charadriiformes	Alcidae
34	Aves	Anseriformes	Anatidae
35	Aves	Charadriiformes	Scolopacidae
36	Aves	Anseriformes	Anatidae
37	Aves	Anseriformes	Anatidae
38	Aves	Piciformes	Picidae
39	Aves	Charadriiformes	Alcidae
40	Aves	Anseriformes	Anatidae
41	Aves	Charadriiformes	Scolopacidae
42	Aves	Anseriformes	Anatidae
43	Aves	Anseriformes	Anatidae
44	Aves	Piciformes	Picidae
45	Aves	Charadriiformes	Alcidae
46	Aves	Anseriformes	Anatidae
47	Aves	Charadriiformes	Scolopacidae
48	Aves	Charadriiformes	Laridae
49	Aves	Charadriiformes	Laridae
50	Aves	Anseriformes	Anatidae
51	Aves	Accipitriformes	Accipitridae
52	Aves	Strigiformes	Strigidae
53	Aves	Passeriformes	Paridae
54	Aves	Suliformes	Phalacrocoracidae
55	Aves	Podicipediformes	Podicipedidae
56	Aves	Strigiformes	Strigidae
57	Aves	Charadriiformes	Laridae
58	Aves	Piciformes	Picidae
59			
60			

1			
2	Aves	Charadriiformes	Scolopacidae
3	Aves	Charadriiformes	Alcidae
4	Aves	Anseriformes	Anatidae
5	Aves	Anseriformes	Anatidae
6	Aves	Falconiformes	Falconidae
7	Aves	Passeriformes	Corvidae
8	Aves	Charadriiformes	Laridae
9	Aves	Charadriiformes	Scolopacidae
10	Aves	Piciformes	Picidae
11	Aves	Accipitriformes	Accipitridae
12	Aves	Passeriformes	Acrocephalidae
13	Aves	Falconiformes	Falconidae
14	Aves	Passeriformes	Passeridae
15	Aves	Charadriiformes	Scolopacidae
16	Aves	Passeriformes	Motacillidae
17	Aves	Charadriiformes	Stercorariidae
18	Aves	Procellariiformes	Procellariidae
19	Aves	Passeriformes	Muscicapidae
20	Aves	Suliformes	Sulidae
21	Aves	Charadriiformes	Scolopacidae
22	Aves	Passeriformes	Aegithalidae
23	Aves	Gruiformes	Rallidae
24	Aves	Anseriformes	Anatidae
25	Aves	Anseriformes	Anatidae
26	Aves	Passeriformes	Motacillidae
27	Aves	Anseriformes	Anatidae
28	Aves	Gruiformes	Rallidae
29	Aves	Passeriformes	Hirundinidae
30	Aves	Galliformes	Phasianidae
31	Aves	Anseriformes	Anatidae
32	Aves	Columbiformes	Columbidae
33	Aves	Passeriformes	Emberizidae
34	Aves	Columbiformes	Columbidae
35	Aves	Accipitriformes	Accipitridae
36	Aves	Charadriiformes	Scolopacidae
37	Aves	Passeriformes	Turdidae
38	Aves	Pelecaniformes	Ardeidae
39	Aves	Charadriiformes	Scolopacidae
40	Aves	Passeriformes	Bombycillidae
41	Aves	Charadriiformes	Laridae
42	Aves	Strigiformes	Strigidae
43	Aves	Coraciiformes	Meropidae
44	Aves	Passeriformes	Emberizidae
45	Aves	Passeriformes	Sittidae
46	Aves	Passeriformes	Muscicapidae
47	Aves	Passeriformes	Muscicapidae
48	Aves	Piciformes	Picidae
49	Aves	Passeriformes	Fringillidae
50	Aves	Passeriformes	
51	Aves	Passeriformes	
52	Aves	Passeriformes	
53	Aves	Passeriformes	
54	Aves	Passeriformes	
55	Aves	Passeriformes	
56	Aves	Passeriformes	
57	Aves	Passeriformes	
58	Aves	Passeriformes	
59	Aves	Passeriformes	
60	Aves	Passeriformes	

1			
2	Aves	Charadriiformes	Scolopacidae
3	Aves	Strigiformes	Strigidae
4	Aves	Passeriformes	Certhiidae
5	Aves	Anseriformes	Anatidae
6	Aves	Passeriformes	Acrocephalidae
7	Aves	Apodiformes	Apodidae
8	Aves	Accipitriformes	Accipitridae
9	Aves	Piciformes	Picidae
10	Aves	Passeriformes	Acrocephalidae
11	Aves	Passeriformes	Sturnidae
12	Aves	Strigiformes	Strigidae
13	Aves	Passeriformes	Alaudidae
14	Aves	Accipitriformes	Accipitridae
15	Aves	Charadriiformes	Scolopacidae
16	Aves	Charadriiformes	Laridae
17	Aves	Passeriformes	Acrocephalidae
18	Aves	Charadriiformes	Scolopacidae
19	Aves	Accipitriformes	Accipitridae
20	Aves	Procellariiformes	Procellariidae
21	Aves	Strigiformes	Strigidae
22	Aves	Charadriiformes	Charadriidae
23	Aves	Pelecaniformes	Ardeidae
24	Aves	Passeriformes	Sylviidae
25	Aves	Passeriformes	Alaudidae
26	Aves	Strigiformes	Strigidae
27	Aves	Passeriformes	Motacillidae
28	Aves	Passeriformes	Motacillidae
29	Aves	Charadriiformes	Charadriidae
30	Aves	Pelecaniformes	Ardeidae
31	Aves	Podicipediformes	Podicipedidae
32	Aves	Anseriformes	Anatidae
33	Aves	Passeriformes	Phylloscopidae
34	Aves	Charadriiformes	Scolopacidae
35	Aves	Passeriformes	Acrocephalidae
36	Aves	Falconiformes	Falconidae
37	Aves	Passeriformes	Pycnonotidae
38	Aves	Charadriiformes	Scolopacidae
39	Aves	Coraciiformes	Alcedinidae
40	Aves	Charadriiformes	Laridae
41	Aves	Charadriiformes	Recurvirostridae
42	Aves	Gruiformes	Rallidae
43	Aves	Pelecaniformes	Ardeidae
44	Aves	Passeriformes	Sylviidae
45	Aves	Passeriformes	Hirundinidae
46	Aves	Passeriformes	Acrocephalidae
47	Aves	Charadriiformes	Laridae
48	Aves	Passeriformes	Acrocephalidae
49	Aves	Charadriiformes	Scolopacidae
50	Aves	Charadriiformes	Scolopacidae
51	Aves	Charadriiformes	Scolopacidae
52	Aves	Charadriiformes	Scolopacidae
53	Aves	Charadriiformes	Scolopacidae
54	Aves	Charadriiformes	Scolopacidae
55	Aves	Charadriiformes	Scolopacidae
56	Aves	Charadriiformes	Scolopacidae
57	Aves	Charadriiformes	Scolopacidae
58	Aves	Charadriiformes	Scolopacidae
59	Aves	Charadriiformes	Scolopacidae
60	Aves	Charadriiformes	Scolopacidae

1			
2	Aves	Passeriformes	Emberizidae
3	Aves	Charadriiformes	Recurvirostridae
4	Aves	Passeriformes	Phylloscopidae
5	Aves	Charadriiformes	Charadriidae
6	Aves	Charadriiformes	Scolopacidae
7	Aves	Charadriiformes	Scolopacidae
8	Aves	Coraciiformes	Coraciidae
9	Aves	Pelecaniformes	Ardeidae
10	Aves	Charadriiformes	Charadriidae
11	Aves	Cuculiformes	Cuculidae
12	Aves	Charadriiformes	Haematopodidae
13	Aves	Charadriiformes	Charadriidae
14	Aves	Charadriiformes	Burhinidae
15	Aves	Falconiformes	Falconidae
16	Aves	Caprimulgiformes	Caprimulgidae
17	Aves	Falconiformes	Falconidae
18	Aves	Caprimulgiformes	Caprimulgidae
19	Aves	Falconiformes	Falconidae
20	Aves	Ciconiiformes	Ciconiidae
21	Aves	Passeriformes	Acrocephalidae
22	Aves	Passeriformes	Muscicapidae
23	Aves	Passeriformes	Phylloscopidae
24	Aves	Passeriformes	Passeridae
25	Aves	Passeriformes	Fringillidae
26	Aves	Passeriformes	Muscicapidae
27	Aves	Passeriformes	Fringillidae
28	Aves	Passeriformes	Corvidae
29	Aves	Anseriformes	Anatidae
30	Aves	Anseriformes	Anatidae
31	Aves	Anseriformes	Anatidae
32	Aves	Anseriformes	Anatidae
33	Aves	Anseriformes	Anatidae
34	Aves	Anseriformes	Anatidae
35	Aves	Anseriformes	Anatidae
36	Aves	Caprimulgiformes	Caprimulgidae
37	Aves	Charadriiformes	Alcidae
38	Aves	Charadriiformes	Charadriidae
39	Aves	Charadriiformes	Laridae
40	Aves	Charadriiformes	Laridae
41	Aves	Charadriiformes	Laridae
42	Aves	Charadriiformes	Laridae
43	Aves	Charadriiformes	Laridae
44	Aves	Charadriiformes	Laridae
45	Aves	Charadriiformes	Laridae
46	Aves	Charadriiformes	Laridae
47	Aves	Charadriiformes	Laridae
48	Aves	Charadriiformes	Scolopacidae
49	Aves	Charadriiformes	Scolopacidae
50	Aves	Charadriiformes	Scolopacidae
51	Aves	Charadriiformes	Scolopacidae
52	Aves	Columbiformes	Columbidae
53	Aves	Coraciiformes	Alcedinidae
54	Aves	Coraciiformes	Alcedinidae
55	Aves	Galliformes	Phasianidae
56	Aves	Galliformes	Phasianidae
57	Aves	Galliformes	Phasianidae
58	Aves	Passeriformes	Acrocephalidae
59	Aves	Passeriformes	Cinclidae
60	Aves	Passeriformes	Corvidae

1			
2	Aves	Passeriformes	Corvidae
3	Aves	Passeriformes	Corvidae
4	Aves	Passeriformes	Corvidae
5	Aves	Passeriformes	Emberizidae
6	Aves	Passeriformes	Emberizidae
7	Aves	Passeriformes	Emberizidae
8	Aves	Passeriformes	Fringillidae
9	Aves	Passeriformes	Fringillidae
10	Aves	Passeriformes	Hirundinidae
11	Aves	Passeriformes	Laniidae
12	Aves	Passeriformes	Laniidae
13	Aves	Passeriformes	Laniidae
14	Aves	Passeriformes	Leiothrichidae
15	Aves	Passeriformes	Locustellidae
16	Aves	Passeriformes	Locustellidae
17	Aves	Passeriformes	Locustellidae
18	Aves	Passeriformes	Locustellidae
19	Aves	Passeriformes	Motacillidae
20	Aves	Passeriformes	Motacillidae
21	Aves	Passeriformes	Motacillidae
22	Aves	Passeriformes	Muscicapidae
23	Aves	Passeriformes	Muscicapidae
24	Aves	Passeriformes	Muscicapidae
25	Aves	Passeriformes	Muscicapidae
26	Aves	Passeriformes	Muscicapidae
27	Aves	Passeriformes	Muscicapidae
28	Aves	Passeriformes	Paridae
29	Aves	Passeriformes	Paridae
30	Aves	Passeriformes	Paridae
31	Aves	Passeriformes	Paridae
32	Aves	Passeriformes	Paridae
33	Aves	Passeriformes	Paridae
34	Aves	Passeriformes	Paridae
35	Aves	Passeriformes	Prunellidae
36	Aves	Passeriformes	Remizidae
37	Aves	Passeriformes	Sylviidae
38	Aves	Passeriformes	Sylviidae
39	Aves	Passeriformes	Sylviidae
40	Aves	Passeriformes	Turdidae
41	Aves	Passeriformes	Turdidae
42	Aves	Passeriformes	Turdidae
43	Aves	Passeriformes	Turdidae
44	Aves	Passeriformes	Turdidae
45	Aves	Piciformes	Picidae
46	Aves	Piciformes	Picidae
47	Aves	Podicipediformes	Podicipedidae
48	Aves	Suliformes	Phalacrocoracidae
49	Aves	Passeriformes	Corvidae
50	Aves	Falconiformes	Falconidae
51	Aves	Passeriformes	Muscicapidae
52	Aves	Passeriformes	Muscicapidae
53	Reptilia	Testudines	Chelidae
54	Reptilia	Squamata	Iguanidae
55	Reptilia	Squamata	Teiidae
56	Reptilia	Squamata	Phrynosomatidae
57	Reptilia	Squamata	Phrynosomatidae
58	Mammalia	Chiroptera	Molossidae
59	Mammalia	Chiroptera	Vespertilionidae
60	Mammalia	Chiroptera	Vespertilionidae

1			
2	Mammalia	Chiroptera	Vespertilionidae
3	Mammalia	Chiroptera	Rhinolophidae
4	Mammalia	Chiroptera	Rhinolophidae
5	Mammalia	Chiroptera	Vespertilionidae
6	Mammalia	Chiroptera	Vespertilionidae
7	Mammalia	Chiroptera	Vespertilionidae
8	Mammalia	Chiroptera	Vespertilionidae
9	Mammalia	Chiroptera	Vespertilionidae
10	Mammalia	Chiroptera	Vespertilionidae
11	Mammalia	Chiroptera	Vespertilionidae
12	Reptilia	Squamata	Lacertidae
13	Reptilia	Squamata	Lacertidae
14	Reptilia	Squamata	Phrynosomatidae
15	Mammalia	Primates	Hylobatidae
16	Mammalia	Cetacea	Balaenidae
17	Reptilia	Squamata	Crotaphytidae
18	Reptilia	Testudines	Testudinidae
19	Reptilia	Testudines	Testudinidae
20	Reptilia	Testudines	Testudinidae
21	Amphibia	Anura	Hylidae
22	Amphibia	Urodela	Plethodontidae
23	Amphibia	Anura	Craugastoridae
24	Amphibia	Anura	Hylidae
25	Reptilia	Squamata	Scincidae
26	Amphibia	Anura	Alytidae
27	Reptilia	Squamata (serpentes)	Colubridae
28	Reptilia	Crocodylia	Alligatoridae
29	Reptilia	Squamata	Scincidae
30	Reptilia	Squamata	Pygopodidae
31	Reptilia	Squamata	Pygopodidae
32	Reptilia	Squamata	Scincidae
33	Reptilia	Squamata	Pygopodidae
34	Reptilia	Squamata	Scincidae
35	Reptilia	Squamata	Pygopodidae
36	Reptilia	Squamata	Scincidae
37	Reptilia	Squamata	Scincidae
38	Reptilia	Squamata	Scincidae
39	Reptilia	Squamata	Scincidae
40	Reptilia	Squamata	Scincidae
41	Reptilia	Squamata	Scincidae
42	Reptilia	Squamata	Diplodactylidae
43	Reptilia	Squamata	Scincidae
44	Reptilia	Squamata	Agamidae
45	Reptilia	Squamata	Scincidae
46	Reptilia	Squamata	Diplodactylidae
47	Reptilia	Squamata	Scincidae
48	Reptilia	Squamata	Diplodactylidae
49	Reptilia	Squamata	Scincidae
50	Reptilia	Squamata	Diplodactylidae
51	Reptilia	Squamata	Phyllodactylidae
52	Reptilia	Squamata	Scincidae
53	Reptilia	Squamata	Diplodactylidae
54	Reptilia	Squamata	Iguanidae
55	Mammalia	Eulipotyphla	Talpidae
56	Mammalia	Cetacea	Balaenopteridae
57	Mammalia	Hyracoidea	Procaviidae
58	Mammalia	Artiodactyla	Tayassuidae
59	Mammalia	Artiodactyla	Suidae
60	Mammalia	Artiodactyla	Suidae

1			
2	Mammalia	Primates	Tarsiidae
3	Mammalia	Rodentia	Muridae
4	Amphibia	Anura	Mantellidae
5	Amphibia	Anura	Ranidae
6	Amphibia	Anura	Microhylidae
7	Amphibia	Anura	Mantellidae
8	Amphibia	Anura	Pelobatidae
9	Reptilia	Squamata	Anguidae
10	Reptilia	Squamata	Scincidae
11	Amphibia	Anura	Ranidae
12	Reptilia	Squamata	Lacertidae
13	Reptilia	Squamata	Lacertidae
14	Reptilia	Squamata	Lacertidae
15	Reptilia	Squamata	Lacertidae
16	Reptilia	Squamata	Liolaemidae
17	Amphibia	Urodela	Plethodontidae
18	Amphibia	Urodela	Plethodontidae
19	Amphibia	Anura	Dendrobatidae
20	Amphibia	Anura	Dendrobatidae
21	Amphibia	Anura	Mantellidae
22	Amphibia	Anura	Microhylidae
23	Amphibia	Anura	Eleutherodactylidae
24	Amphibia	Anura	Hyperoliidae
25	Reptilia	Squamata	Phrynosomatidae
26	Reptilia	Squamata (serpentes)	Colubridae
27	Amphibia	Urodela	Plethodontidae
28	Mammalia	Primates	Hominidae
29	Mammalia	Primates	Cebidae
30	Reptilia	Squamata	Scincidae
31	Reptilia	Squamata	Lacertidae
32	Reptilia	Squamata	Lacertidae
33	Reptilia	Squamata	Gekkonidae
34	Reptilia	Squamata	Liolaemidae
35	Mammalia	Rodentia	Cricetidae
36	Mammalia	Cetacea	Balaenidae
37	Amphibia	Anura	Aromobatidae
38	Reptilia	Squamata	Scincidae
39	Reptilia	Squamata (serpentes)	Colubridae
40	Reptilia	Squamata (serpentes)	Colubridae
41	Reptilia	Squamata (serpentes)	Colubridae
42	Reptilia	Squamata	Diplodactylidae
43	Reptilia	Squamata	Diplodactylidae
44	Reptilia	Testudines	Emydidae
45	Reptilia	Testudines	Testudinidae
46	Reptilia	Squamata	Scincidae
47	Reptilia	Squamata	Scincidae
48	Amphibia	Urodela	Rhyacotritonidae
49	Mammalia	Carnivora	Mustelidae

1			
2	Mammalia	Carnivora	Canidae
3	Mammalia	Rodentia	Muridae
4	Mammalia	Carnivora	Mustelidae
5	Mammalia	Artiodactyla	Cervidae
6	Mammalia	Carnivora	Canidae
7	Mammalia	Carnivora	Mustelidae
8	Mammalia	Rodentia	Muridae
9	Mammalia	Rodentia	Muridae
10	Mammalia	Carnivora	Canidae
11	Mammalia	Rodentia	Dipodidae
12	Mammalia	Carnivora	Mustelidae
13	Mammalia	Rodentia	Muridae
14	Mammalia	Chiroptera	Vespertilionidae
15	Mammalia	Carnivora	Mustelidae
16	Mammalia	Rodentia	Muridae
17	Mammalia	Rodentia	Muridae
18	Mammalia	Rodentia	Muridae
19	Mammalia	Lagomorpha	Ochotonidae
20	Mammalia	Soricomorpha	Soricidae
21	Mammalia	Rodentia	Sciuridae
22	Mammalia	Rodentia	Muridae
23	Mammalia	Rodentia	Muridae
24	Mammalia	Rodentia	Sciuridae
25	Mammalia	Chiroptera	Vespertilionidae
26	Mammalia	Artiodactyla	Cervidae
27	Mammalia	Artiodactyla	Bovidae
28	Mammalia	Carnivora	Mustelidae
29	Mammalia	Soricomorpha	Soricidae
30	Mammalia	Carnivora	Mustelidae
31	Mammalia	Rodentia	Castoridae
32	Mammalia	Carnivora	Ursidae
33	Mammalia	Carnivora	Canidae
34	Mammalia	Rodentia	Sciuridae
35	Mammalia	Soricomorpha	Talpidae
36	Mammalia	Rodentia	Muridae
37	Mammalia	Rodentia	Muridae
38	Mammalia	Cingulata	Dasypodidae
39	Mammalia	Rodentia	Muridae
40	Mammalia	Rodentia	Muridae
41	Mammalia	Soricomorpha	Soricidae
42	Mammalia	Erinaceomorpha	Erinaceidae
43	Mammalia	Rodentia	Caviidae
44	Mammalia	Lagomorpha	Leporidae
45	Mammalia	Rodentia	Muridae
46	Mammalia	Rodentia	Muridae
47	Mammalia	Chiroptera	Vespertilionidae
48	Mammalia	Diprotodontia	Burramyidae
49	Mammalia	Carnivora	Mephitidae
50	Mammalia	Chiroptera	Phyllostomidae
51	Mammalia	Rodentia	Heteromyidae

1			
2	Mammalia	Rodentia	Heteromyidae
3	Mammalia	Rodentia	Muridae
4	Mammalia	Carnivora	Ailuridae
5	Mammalia	Carnivora	Ursidae
6	Mammalia	Artiodactyla	Antilocapridae
7	Mammalia	Rodentia	Chinchillidae
8	Mammalia	Cingulata	Dasypodidae
9	Mammalia	Carnivora	Felidae
10	Mammalia	Soricomorpha	Soricidae
11	Mammalia	Chiroptera	Phyllostomidae
12	Mammalia	Soricomorpha	Soricidae
13	Mammalia	Rodentia	Myocastoridae
14	Mammalia	Rodentia	Sciuridae
15	Mammalia	Monotremata	Ornithorhynchidae
16	Mammalia	Carnivora	Felidae
17	Mammalia	Rodentia	Muridae
18	Mammalia	Erinaceomorpha	Erinaceidae
19	Mammalia	Rodentia	Geomyidae
20	Mammalia	Rodentia	Sciuridae
21	Mammalia	Didelphimorphia	Didelphidae
22	Mammalia	Dasyuromorphia	Dasyuridae
23	Mammalia	Peramelemorphia	Peramelidae
24	Mammalia	Rodentia	Muridae
25	Mammalia	Dasyuromorphia	Dasyuridae
26	Mammalia	Rodentia	Geomyidae
27	Mammalia	Rodentia	Sciuridae
28	Mammalia	Artiodactyla	Cervidae
29	Mammalia	Carnivora	Canidae
30	Mammalia	Rodentia	Muridae
31	Mammalia	Cingulata	Dasypodidae
32	Mammalia	Chiroptera	Phyllostomidae
33	Mammalia	Rodentia	Muridae
34	Mammalia	Diprotodontia	Burramyidae
35	Mammalia	Carnivora	Canidae
36	Mammalia	Diprotodontia	Potoroidae
37	Mammalia	Rodentia	Heteromyidae
38	Mammalia	Rodentia	Heteromyidae
39	Mammalia	Carnivora	Mustelidae
40	Mammalia	Lagomorpha	Leporidae
41	Mammalia	Rodentia	Octodontidae
42	Mammalia	Dasyuromorphia	Dasyuridae
43	Mammalia	Rodentia	Hystriidae
44	Mammalia	Rodentia	Muridae
45	Mammalia	Chiroptera	Phyllostomidae
46	Mammalia	Soricomorpha	Soricidae
47	Mammalia	Chiroptera	Vespertilionidae
48	Mammalia	Diprotodontia	Phascolarctidae
49	Mammalia	Dasyuromorphia	Dasyuridae

1			
2	Mammalia	Didelphimorphia	Didelphidae
3	Mammalia	Diprotodontia	Pseudocheiridae
4	Mammalia	Peramelemorphia	Peramelidae
5	Mammalia	Peramelemorphia	Thylacomyidae
6	Mammalia	Rodentia	Muridae
7	Mammalia	Dasyuromorphia	Dasyuridae
8	Mammalia	Rodentia	Chinchillidae
9	Mammalia	Dasyuromorphia	Dasyuridae
10	Mammalia	Dasyuromorphia	Myrmecobiidae
11	Mammalia	Didelphimorphia	Didelphidae
12	Mammalia	Soricomorpha	Soricidae
13	Mammalia	Carnivora	Mustelidae
14	Mammalia	Carnivora	Viverridae
15	Mammalia	Soricomorpha	Soricidae
16	Mammalia	Diprotodontia	Potoroidae
17	Mammalia	Dasyuromorphia	Dasyuridae
18	Mammalia	Rodentia	Chinchillidae
19	Mammalia	Rodentia	Muridae
20	Mammalia	Cingulata	Dasypodidae
21	Mammalia	Rodentia	Octodontidae
22	Mammalia	Rodentia	Muridae
23	Mammalia	Chiroptera	Phyllostomidae
24	Mammalia	Rodentia	Muridae
25	Mammalia	Carnivora	Felidae
26	Mammalia	Rodentia	Muridae
27	Mammalia	Diprotodontia	Vombatidae
28	Mammalia	Pilosa	Myrmecophagidae
29	Mammalia	Cingulata	Dasypodidae
30	Mammalia	Diprotodontia	Macropodidae
31	Mammalia	Dasyuromorphia	Dasyuridae
32	Mammalia	Carnivora	Procyonidae
33	Mammalia	Rodentia	Muridae
34	Mammalia	Rodentia	Muridae
35	Mammalia	Rodentia	Heteromyidae
36	Mammalia	Dasyuromorphia	Dasyuridae
37	Mammalia	Chiroptera	Phyllostomidae
38	Mammalia	Carnivora	Procyonidae
39	Mammalia	Diprotodontia	Macropodidae
40	Mammalia	Rodentia	Dipodidae
41	Mammalia	Rodentia	Heteromyidae
42	Mammalia	Artiodactyla	Cervidae
43	Mammalia	Pilosa	Myrmecophagidae
44	Mammalia	Rodentia	Muridae
45	Mammalia	Macroscelidea	Macroscelididae
46	Mammalia	Chiroptera	Phyllostomidae
47	Mammalia	Chiroptera	Phyllostomidae
48	Mammalia	Cingulata	Dasypodidae
49	Mammalia	Rodentia	Muridae
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2	Mammalia	Rodentia	Heteromyidae
3	Mammalia	Carnivora	Canidae
4	Mammalia	Rodentia	Dasyproctidae
5	Mammalia	Didelphimorphia	Didelphidae
6	Mammalia	Chiroptera	Vespertilionidae
7	Mammalia	Diprotodontia	Macropodidae
8	Mammalia	Rodentia	Muridae
9	Mammalia	Afrosoricida	Tenrecidae
10	Mammalia	Chiroptera	Vespertilionidae
11	Mammalia	Chiroptera	Pteropodidae
12	Mammalia	Erinaceomorpha	Erinaceidae
13	Mammalia	Carnivora	Eupleridae
14	Mammalia	Rodentia	Muridae
15	Mammalia	Carnivora	Canidae
16	Mammalia	Artiodactyla	Tayassuidae
17	Mammalia	Afrosoricida	Tenrecidae
18	Mammalia	Rodentia	Muridae
19	Mammalia	Chiroptera	Vespertilionidae
20	Mammalia	Rodentia	Muridae
21	Mammalia	Carnivora	Hyaenidae
22	Mammalia	Rodentia	Pedetidae
23	Mammalia	Macroscelidea	Macroscelididae
24	Mammalia	Rodentia	Muridae
25	Mammalia	Rodentia	Muridae
26	Mammalia	Artiodactyla	Suidae
27	Mammalia	Chiroptera	Miniopteridae
28	Mammalia	Carnivora	Herpestidae
29	Mammalia	Didelphimorphia	Didelphidae
30	Mammalia	Diprotodontia	Macropodidae
31	Mammalia	Scandentia	Tupaiaidae
32	Mammalia	Dasyuromorphia	Dasyuridae
33	Mammalia	Diprotodontia	Phalangeridae
34	Mammalia	Dasyuromorphia	Dasyuridae
35	Mammalia	Rodentia	Muridae
36	Mammalia	Peramelemorphia	Peramelidae
37	Mammalia	Afrosoricida	Tenrecidae
38	Mammalia	Afrosoricida	Tenrecidae
39	Mammalia	Didelphimorphia	Didelphidae
40	Mammalia	Rodentia	Myoxidae
41	Mammalia	Artiodactyla	Bovidae
42	Mammalia	Peramelemorphia	Peramelidae
43	Mammalia	Rodentia	Muridae
44	Mammalia	Rodentia	Erethizontidae
45	Mammalia	Rodentia	Muridae
46	Mammalia	Dasyuromorphia	Dasyuridae
47	Mammalia	Rodentia	Muridae
48	Mammalia	Chiroptera	Vespertilionidae
49	Mammalia	Afrosoricida	Tenrecidae
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2	Mammalia	Chiroptera	Pteropodidae
3	Mammalia	Artiodactyla	Bovidae
4	Mammalia	Chiroptera	Vespertilionidae
5	Mammalia	Carnivora	Canidae
6	Mammalia	Rodentia	Muridae
7	Mammalia	Rodentia	Muridae
8	Mammalia	Primates	Cheirogaleidae
9	Mammalia	Rodentia	Sciuridae
10	Mammalia	Carnivora	Felidae
11	Mammalia	Rodentia	Muridae
12	Mammalia	Carnivora	Procyonidae
13	Mammalia	Carnivora	Mephitidae
14	Mammalia	Artiodactyla	Bovidae
15	Mammalia	Diprotodontia	Phalangeridae
16	Mammalia	Primates	Cebidae
17	Mammalia	Didelphimorphia	Didelphidae
18	Mammalia	Chiroptera	Phyllostomidae
19	Mammalia	Carnivora	Viverridae
20	Mammalia	Soricomorpha	Soricidae
21	Mammalia	Rodentia	Muridae
22	Mammalia	Primates	Cercopithecidae
23	Mammalia	Dasyuromorphia	Dasyuridae
24	Mammalia	Primates	Cercopithecidae
25	Mammalia	Rodentia	Muridae
26	Mammalia	Primates	Cebidae
27	Mammalia	Rodentia	Muridae
28	Mammalia	Carnivora	Felidae
29	Mammalia	Chiroptera	Pteropodidae
30	Mammalia	Primates	Callitrichidae
31	Mammalia	Rodentia	Capromyidae
32	Mammalia	Rodentia	Dasyproctidae
33	Mammalia	Carnivora	Viverridae
34	Mammalia	Rodentia	Cuniculidae
35	Mammalia	Chiroptera	Noctilionidae
36	Mammalia	Rodentia	Muridae
37	Mammalia	Macroscelidea	Macroscelididae
38	Mammalia	Primates	Callitrichidae
39	Mammalia	Diprotodontia	Macropodidae
40	Mammalia	Carnivora	Procyonidae
41	Mammalia	Rodentia	Echimyidae
42	Mammalia	Chiroptera	Phyllostomidae
43	Mammalia	Primates	Loridae
44	Mammalia	Primates	Galagonidae
45	Mammalia	Cingulata	Dasypodidae
46	Mammalia	Primates	Galagonidae
47	Mammalia	Hyracoidea	Procaviidae
48	Mammalia	Artiodactyla	Bovidae
49	Mammalia	Rodentia	Muridae
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2	Mammalia	Rodentia	Muridae
3	Mammalia	Erinaceomorpha	Erinaceidae
4	Mammalia	Rodentia	Sciuridae
5	Mammalia	Artiodactyla	Tragulidae
6	Mammalia	Primates	Loridae
7	Mammalia	Chiroptera	Pteropodidae
8	Mammalia	Carnivora	Felidae
9	Mammalia	Dasyuromorphia	Dasyuridae
10	Mammalia	Primates	Lemuridae
11	Mammalia	Rodentia	Capromyidae
12	Mammalia	Primates	Cercopithecidae
13	Mammalia	Chiroptera	Pteropodidae
14	Mammalia	Primates	Loridae
15	Mammalia	Rodentia	Dasyproctidae
16	Mammalia	Rodentia	Bathyergidae
17	Mammalia	Dasyuromorphia	Dasyuridae
18	Mammalia	Carnivora	Felidae
19	Mammalia	Chiroptera	Emballonuridae
20	Mammalia	Peramelemorphia	Peramelidae
21	Mammalia	Carnivora	Procyonidae
22	Mammalia	Primates	Galagonidae
23	Mammalia	Carnivora	Canidae
24	Mammalia	Rodentia	Muridae
25	Mammalia	Primates	Cercopithecidae
26	Mammalia	Primates	Cercopithecidae
27	Mammalia	Primates	Callitrichidae
28	Mammalia	Carnivora	Canidae
29	Mammalia	Chiroptera	Pteropodidae
30	Mammalia	Carnivora	Procyonidae
31	Mammalia	Rodentia	Caviidae
32	Mammalia	Macroscelidea	Macroscelididae
33	Mammalia	Rodentia	Muridae
34	Mammalia	Carnivora	Herpestidae
35	Mammalia	Proboscidea	Elephantidae
36	Mammalia	Rodentia	Muridae
37	Mammalia	Rodentia	Muridae
38	Mammalia	Rodentia	Caviidae
39	Mammalia	Didelphimorphia	Didelphidae
40	Mammalia	Artiodactyla	Bovidae
41	Mammalia	Diprotodontia	Macropodidae
42	Mammalia	Chiroptera	Megadermatidae
43	Mammalia	Scandentia	Tupaiaidae
44	Mammalia	Carnivora	Canidae
45	Mammalia	Didelphimorphia	Didelphidae
46	Mammalia	Pilosa	Megalonychidae
47	Mammalia	Carnivora	Felidae
48	Mammalia	Primates	Loridae
49	Mammalia	Chiroptera	Pteropodidae
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2	Mammalia	Artiodactyla	Bovidae
3	Mammalia	Primates	Cebidae
4	Mammalia	Carnivora	Felidae
5	Mammalia	Primates	Callitrichidae
6	Mammalia	Dasyuromorphia	Dasyuridae
7	Mammalia	Chiroptera	Phyllostomidae
8	Mammalia	Rodentia	Echimyidae
9	Mammalia	Monotremata	Tachyglossidae
10	Mammalia	Carnivora	Ursidae
11	Mammalia	Perissodactyla	Equidae
12	Mammalia	Tubulidentata	Orycteropodidae
13	Mammalia	Chiroptera	Pteropodidae
14	Mammalia	Rodentia	Muridae
15	Mammalia	Rodentia	Dipodidae
16	Mammalia	Dasyuromorphia	Dasyuridae
17	Mammalia	Chiroptera	Pteropodidae
18	Mammalia	Artiodactyla	Bovidae
19	Mammalia	Carnivora	Hyaenidae
20	Mammalia	Rodentia	Sciuridae
21	Mammalia	Primates	Callitrichidae
22	Mammalia	Rodentia	Bathyergidae
23	Mammalia	Scandentia	Tupaiaidae
24	Mammalia	Rodentia	Caviidae
25	Mammalia	Rodentia	Sciuridae
26	Mammalia	Carnivora	Herpestidae
27	Mammalia	Carnivora	Felidae
28	Mammalia	Artiodactyla	Camelidae
29	Mammalia	Artiodactyla	Bovidae
30	Mammalia	Artiodactyla	Camelidae
31	Reptilia	Squamata	Scincidae
32	Reptilia	Squamata	Scincidae
33	Reptilia	Squamata	Agamidae
34	Reptilia	Squamata	Agamidae
35	Amphibia	Urodela	Salamandridae
36	Amphibia	Urodela	Salamandridae
37	Reptilia	Squamata	Leiocephalidae
38	Reptilia	Squamata	Leiocephalidae
39	Reptilia	Squamata (serpentes)	Tropidophiidae
40	Reptilia	Squamata	Sphaerodactylidae
41	Reptilia	Squamata	Dactyloidae
42	Reptilia	Squamata	Dactyloidae
43	Reptilia	Squamata	Iguanidae
44	Reptilia	Squamata	Dactyloidae
45	Reptilia	Squamata (serpentes)	Colubridae
46	Reptilia	Squamata	Dactyloidae
47	Reptilia	Squamata	Dactyloidae
48	Reptilia	Squamata	Dactyloidae
49	Reptilia	Squamata	Dactyloidae
50	Reptilia	Squamata	Dactyloidae
51	Reptilia	Squamata	Leiocephalidae

1			
2	Reptilia	Squamata (serpentes)	Tropidophiidae
3	Reptilia	Squamata	Dactyloidae
4	Reptilia	Squamata (serpentes)	Tropidophiidae
5	Reptilia	Squamata	Dactyloidae
6	Reptilia	Squamata	Dactyloidae
7	Reptilia	Squamata	Dactyloidae
8	Reptilia	Squamata	Iguanidae
9	Reptilia	Squamata	Iguanidae
10	Reptilia	Squamata (serpentes)	Tropidophiidae
11	Reptilia	Squamata	Dactyloidae
12	Reptilia	Squamata	Teiidae
13	Reptilia	Squamata (serpentes)	Boidae
14	Amphibia	Urodela	Plethodontidae
15	Reptilia	Squamata	Phrynosomatidae
16	Reptilia	Squamata	Scincidae
17	Reptilia	Squamata	Scincidae
18	Amphibia	Anura	Myobatrachidae
19	Amphibia	Anura	Myobatrachidae
20	Aves	Passeriformes	Estrildidae
21	Reptilia	Squamata	Teiidae
22	Reptilia	Testudines	Emydidae
23	Reptilia	Squamata (serpentes)	Colubridae
24	Reptilia	Squamata (serpentes)	Viperidae
25	Reptilia	Squamata (serpentes)	Viperidae
26	Amphibia	Urodela	Plethodontidae
27	Reptilia	Squamata (serpentes)	Boidae
28	Reptilia	Squamata	Corytophanidae
29	Amphibia	Anura	Ranidae
30	Amphibia	Anura	Bombinatoridae
31	Reptilia	Squamata	Scincidae
32	Reptilia	Squamata	Phrynosomatidae
33	Mammalia	Artiodactyla	Bovidae
34	Reptilia	Squamata	Gekkonidae
35	Reptilia	Squamata	Gekkonidae
36	Reptilia	Squamata	Gekkonidae
37	Reptilia	Squamata	Gekkonidae
38	Reptilia	Squamata	Gekkonidae
39	Reptilia	Squamata	Scincidae
40	Reptilia	Squamata	Carphodactylidae
41	Reptilia	Squamata	Lacertidae
42	Amphibia	Anura	Leptodactylidae
43	Reptilia	Testudines	Kinosternidae
44	Reptilia	Squamata	Iguanidae
45	Mammalia	Carnivora	Canidae
46	Reptilia	Squamata	Chamaeleonidae
47	Reptilia	Squamata	Gekkonidae
48	Reptilia	Squamata	Scincidae
49	Reptilia	Squamata	Xenosauridae
50	Amphibia	Anura	Bufonidae

1			
2	Reptilia	Squamata	Lacertidae
3	Reptilia	Squamata	Lacertidae
4	Reptilia	Squamata	Lacertidae
5	Reptilia	Squamata	Lacertidae
6	Reptilia	Squamata	Lacertidae
7	Reptilia	Squamata	Lacertidae
8	Reptilia	Squamata	Lacertidae
9	Reptilia	Squamata	Scincidae
10	Reptilia	Squamata	Lacertidae
11	Reptilia	Squamata	Lacertidae
12	Reptilia	Squamata	Lacertidae
13	Mammalia	Primates	Lemuridae
14	Mammalia	Artiodactyla	Bovidae
15	Mammalia	Perissodactyla	Tapiridae
16	Mammalia	Primates	Hylobatidae
17	Mammalia	Primates	Cercopithecidae
18	Reptilia	Squamata	Phrynosomatidae
19	Reptilia	Squamata	Xantusiidae
20	Reptilia	Squamata	Phrynosomatidae
21	Mammalia	Hyracoidea	Procaviidae
22	Aves	Passeriformes	Emberizidae
23	Aves	Passeriformes	Icteridae
24	Amphibia	Urodela	Hynobiidae
25	Reptilia	Squamata	Phyllodactylidae
26	Reptilia	Squamata	Gekkonidae
27	Reptilia	Squamata	Agamidae
28	Reptilia	Squamata	Agamidae
29	Amphibia	Anura	Ranidae
30	Amphibia	Anura	Ranidae
31	Amphibia	Anura	Ranidae
32	Amphibia	Anura	Ranidae
33	Reptilia	Squamata	Varanidae
34	Reptilia	Squamata	Varanidae
35	Reptilia	Squamata	Diplodactylidae
36	Reptilia	Squamata (serpentes)	Boidae
37	Reptilia	Squamata	Gekkonidae
38	Aves	Passeriformes	Emberizidae
39	Aves	Passeriformes	Emberizidae
40	Aves	Passeriformes	Emberizidae
41	Aves	Passeriformes	Emberizidae
42	Aves	Passeriformes	Emberizidae
43	Aves	Passeriformes	Emberizidae
44	Aves	Passeriformes	Fringillidae
45	Aves	Passeriformes	Fringillidae
46	Aves	Passeriformes	Fringillidae
47	Aves	Passeriformes	Emberizidae
48	Aves	Passeriformes	Emberizidae
49	Aves	Passeriformes	Emberizidae
50	Aves	Passeriformes	Emberizidae

1			
2	Aves	Passeriformes	Emberizidae
3	Aves	Passeriformes	Emberizidae
4	Aves	Passeriformes	Emberizidae
5	Aves	Passeriformes	Fringillidae
6	Aves	Passeriformes	Icteridae
7	Aves	Passeriformes	Icteridae
8	Aves	Passeriformes	Icteridae
9	Aves	Passeriformes	Icteridae
10	Aves	Passeriformes	Icteridae
11	Aves	Passeriformes	Icteridae
12	Aves	Passeriformes	Icteridae
13	Aves	Charadriiformes	Scolopacidae
14	Aves	Passeriformes	Alaudidae
15	Aves	Gruiformes	Rallidae
16	Aves	Pelecaniformes	Ardeidae
17	Aves	Charadriiformes	Scolopacidae
18	Aves	Columbiformes	Columbidae
19	Aves	Charadriiformes	Scolopacidae
20	Aves	Passeriformes	Zosteropidae
21	Aves	Accipitriformes	Accipitridae
22	Aves	Anseriformes	Anatidae
23	Aves	Charadriiformes	Laridae
24	Aves	Columbiformes	Columbidae
25	Aves	Columbiformes	Columbidae
26	Aves	Passeriformes	Emberizidae
27	Aves	Apodiformes	Trochilidae
28	Aves	Anseriformes	Anatidae
29	Aves	Passeriformes	Corvidae
30	Aves	Passeriformes	Fringillidae
31	Aves	Passeriformes	Icteridae
32	Aves	Passeriformes	Parulidae
33	Aves	Passeriformes	Parulidae
34	Aves	Passeriformes	Parulidae
35	Aves	Passeriformes	Parulidae
36	Aves	Passeriformes	Parulidae
37	Aves	Passeriformes	Troglodytidae
38	Aves	Passeriformes	Tyrannidae
39	Aves	Passeriformes	Tyrannidae
40	Aves	Passeriformes	Tyrannidae
41	Aves	Passeriformes	Tyrannidae
42	Aves	Passeriformes	Sittidae
43	Aves	Passeriformes	Sittidae
44	Aves	Passeriformes	Parulidae
45	Aves	Passeriformes	Parulidae
46	Aves	Passeriformes	Laniidae
47	Aves	Passeriformes	Mimidae
48	Aves	Passeriformes	Mimidae
49	Aves	Passeriformes	Mimidae
50	Aves	Passeriformes	Mimidae
51	Aves	Passeriformes	Parulidae
52	Aves	Passeriformes	
53	Aves	Passeriformes	
54	Aves	Passeriformes	
55	Aves	Passeriformes	
56	Aves	Passeriformes	
57	Aves	Passeriformes	
58	Aves	Passeriformes	
59	Aves	Passeriformes	
60	Aves	Passeriformes	

1			
2	Aves	Passeriformes	Parulidae
3	Aves	Passeriformes	Parulidae
4	Aves	Passeriformes	Parulidae
5	Aves	Passeriformes	Parulidae
6	Aves	Passeriformes	Parulidae
7	Aves	Passeriformes	Parulidae
8	Aves	Passeriformes	Poliioptilidae
9	Aves	Passeriformes	Regulidae
10	Aves	Passeriformes	Sittidae
11	Aves	Passeriformes	Sittidae
12	Aves	Passeriformes	Sittidae
13	Aves	Passeriformes	Sylviidae
14	Aves	Passeriformes	Turdidae
15	Aves	Passeriformes	Vireonidae
16	Aves	Passeriformes	Vireonidae
17	Aves	Passeriformes	Vireonidae
18	Aves	Passeriformes	Vireonidae
19	Aves	Passeriformes	Motacillidae
20	Aves	Passeriformes	Remizidae
21	Aves	Passeriformes	Remizidae
22	Mammalia	Cetacea	Monodontidae
23	Amphibia	Anura	Alytidae
24	Reptilia	Squamata	Dactyloidae
25	Reptilia	Squamata	Agamidae
26	Reptilia	Squamata	Agamidae
27	Reptilia	Squamata	Lacertidae
28	Amphibia	Anura	Microhylidae
29	Amphibia	Anura	Microhylidae
30	Amphibia	Anura	Microhylidae
31	Reptilia	Squamata	Lacertidae
32	Amphibia	Urodela	Hynobiidae
33	Amphibia	Anura	Bufonidae
34	Amphibia	Anura	Bufonidae
35	Amphibia	Anura	Dicroglossidae
36	Amphibia	Anura	Bufonidae
37	Amphibia	Urodela	Salamandridae
38	Reptilia	Testudines	Geoemydidae
39	Amphibia	Anura	Ranidae
40	Amphibia	Anura	Ranidae
41	Reptilia	Squamata	Anguidae
42	Reptilia	Squamata	Agamidae
43	Amphibia	Urodela	Ambystomatidae
44	Amphibia	Anura	Myobatrachidae
45	Amphibia	Anura	Myobatrachidae
46	Reptilia	Squamata	Varanidae
47	Reptilia	Squamata	Chamaeleonidae
48	Reptilia	Squamata	Chamaeleonidae
49	Reptilia	Squamata	Chamaeleonidae
50	Reptilia	Squamata	Chamaeleonidae
51	Reptilia	Squamata	Chamaeleonidae
52	Reptilia	Squamata	Chamaeleonidae
53	Reptilia	Squamata	Chamaeleonidae
54	Reptilia	Squamata	Sphaerodactylidae
55	Amphibia	Anura	Ranidae
56	Amphibia	Anura	Bufonidae
57	Amphibia	Urodela	Hynobiidae
58	Amphibia	Urodela	Hynobiidae
59	Amphibia	Urodela	Hynobiidae
60	Amphibia	Urodela	Plethodontidae
	Amphibia	Anura	Leptodactylidae

1			
2	Reptilia	Testudines	Kinosternidae
3	Reptilia	Testudines	Geoemydidae
4	Amphibia	Anura	Mantellidae
5	Amphibia	Anura	Ranidae
6	Amphibia	Anura	Ranidae
7	Reptilia	Squamata	Sphaerodactylidae
8	Amphibia	Anura	Hylidae
9	Amphibia	Anura	Rhacophoridae
10	Amphibia	Anura	Ranidae
11	Amphibia	Anura	Ranidae
12	Amphibia	Anura	Ranidae
13	Reptilia	Squamata (serpentes)	Viperidae
14	Amphibia	Urodela	Salamandridae
15	Amphibia	Anura	Microhylidae
16	Amphibia	Anura	Ranidae
17	Amphibia	Anura	Bufonidae
18	Amphibia	Anura	Bufonidae
19	Amphibia	Anura	Bufonidae
20	Amphibia	Anura	Bufonidae
21	Amphibia	Anura	Bufonidae
22	Amphibia	Anura	Bufonidae
23	Amphibia	Anura	Bufonidae
24	Amphibia	Anura	Bufonidae
25	Amphibia	Anura	Ranidae
26	Reptilia	Squamata	Lacertidae
27	Amphibia	Anura	Leptodactylidae
28	Amphibia	Anura	Ranidae
29	Reptilia	Squamata	Agamidae
30	Reptilia	Squamata	Lacertidae
31	Mammalia	Rodentia	Aplodontiidae
32	Mammalia	Cetacea	Balaenopteridae
33	Mammalia	Cetacea	Eschrichtiidae
34	Mammalia	Artiodactyla	Tragulidae
35	Mammalia	Cetacea	Kogiidae
36	Amphibia	Anura	Rhacophoridae
37	Amphibia	Urodela	Salamandridae
38	Reptilia	Squamata	Scincidae
39	Reptilia	Squamata	Scincidae
40	Reptilia	Squamata	Scincidae
41	Reptilia	Squamata	Scincidae
42	Reptilia	Squamata	Scincidae
43	Reptilia	Squamata (serpentes)	Colubridae
44	Reptilia	Squamata (serpentes)	Lamprophiidae
45	Reptilia	Squamata (serpentes)	Lamprophiidae
46	Amphibia	Anura	Ceratophryidae
47	Amphibia	Anura	Leptodactylidae
48	Reptilia	Squamata	Tropiduridae
49	Aves	Passeriformes	Thamnophilidae
50	Mammalia	Chiroptera	Phyllostomidae
51	Amphibia	Anura	Alytidae
52	Amphibia	Anura	Alytidae
53	Mammalia	Primates	Hominidae

1			
2	Reptilia	Testudines	Chelidae
3	Amphibia	Anura	Ranidae
4	Amphibia	Urodela	Plethodontidae
5	Amphibia	Anura	Ranidae
6	Amphibia	Anura	Ranidae
7	Reptilia	Squamata (serpentes)	Acrochordidae
8	Reptilia	Squamata	Scincidae
9	Reptilia	Squamata (serpentes)	Colubridae
10	Reptilia	Squamata	Agamidae
11	Reptilia	Squamata	Agamidae
12	Aves	Passeriformes	Fringillidae
13	Mammalia	Rodentia	Geomyidae
14	Mammalia	Cetacea	Hyperoodontidae
15	Mammalia	Cetacea	Hyperoodontidae
16	Amphibia	Anura	Pipidae
17	Reptilia	Squamata	Chamaeleonidae
18	Reptilia	Squamata	Chamaeleonidae
19	Reptilia	Squamata	Crotaphytidae
20	Reptilia	Squamata	Crotaphytidae
21	Mammalia	Eulipotyphla	Talpidae
22	Reptilia	Squamata	Agamidae
23	Reptilia	Squamata	Varanidae
24	Reptilia	Squamata	Varanidae
25	Reptilia	Squamata	Varanidae
26	Reptilia	Squamata	Varanidae
27	Reptilia	Squamata	Varanidae
28	Reptilia	Squamata	Varanidae
29	Reptilia	Squamata	Varanidae
30	Reptilia	Squamata	Varanidae
31	Reptilia	Squamata	Varanidae
32	Reptilia	Squamata	Varanidae
33	Reptilia	Squamata	Varanidae
34	Reptilia	Squamata	Varanidae
35	Reptilia	Squamata	Varanidae
36	Reptilia	Squamata	Varanidae
37	Reptilia	Squamata	Varanidae
38	Reptilia	Squamata	Varanidae
39	Reptilia	Squamata	Varanidae
40	Reptilia	Squamata	Varanidae
41	Reptilia	Squamata	Varanidae
42	Reptilia	Squamata	Varanidae
43	Reptilia	Squamata	Scincidae
44	Reptilia	Squamata	Scincidae
45	Mammalia	Pilosa	Cyclopedidae
46	Reptilia	Crocodylia	Alligatoridae
47	Amphibia	Urodela	Salamandridae
48	Reptilia	Squamata	Agamidae
49	Reptilia	Squamata	Agamidae
50	Reptilia	Squamata (serpentes)	Boidae
51	Reptilia	Squamata (serpentes)	Viperidae
52	Amphibia	Urodela	Hynobiidae
53	Reptilia	Squamata	Dactyloidae
54	Reptilia	Squamata	Dactyloidae
55	Amphibia	Anura	Hylidae
56	Reptilia	Squamata	Lacertidae
57	Aves	Bucerotiformes	Upupidae
58	Aves	Bucerotiformes	Upupidae
59	Aves	Passeriformes	Fringillidae
60	Aves	Passeriformes	Passeridae
	Aves	Passeriformes	Acrocephalidae

1			
2	Aves	Passeriformes	Fringillidae
3	Aves	Passeriformes	Oriolidae
4	Aves	Passeriformes	Muscicapidae
5	Aves	Passeriformes	Paridae
6	Aves	Passeriformes	Regulidae
7	Aves	Apodiformes	Apodidae
8	Aves	Charadriiformes	Laridae
9	Aves	Passeriformes	Corvidae
10	Aves	Passeriformes	Emberizidae
11	Aves	Passeriformes	Fringillidae
12	Aves	Passeriformes	Fringillidae
13	Aves	Passeriformes	Fringillidae
14	Aves	Passeriformes	Muscicapidae
15	Aves	Passeriformes	Turdidae
16	Aves	Piciformes	Picidae
17	Aves	Piciformes	Picidae
18	Aves	Passeriformes	Fringillidae
19	Aves	Passeriformes	Fringillidae
20	Aves	Passeriformes	Zosteropidae
21	Aves	Passeriformes	Acanthizidae
22	Aves	Passeriformes	Maluridae
23	Reptilia	Squamata	Phrynosomatidae
24	Amphibia	Urodela	Salamandridae
25	Amphibia	Anura	Myobatrachidae
26	Amphibia	Anura	Hylidae
27	Amphibia	Anura	Hylidae
28	Amphibia	Anura	Hylidae
29	Aves	Passeriformes	Parulidae
30	Reptilia	Squamata	Diplodactylidae
31	Reptilia	Squamata	Scincidae
32	Mammalia	Artiodactyla	Cervidae
33	Reptilia	Squamata	Pygopodidae
34	Reptilia	Squamata	Gekkonidae
35	Reptilia	Squamata	Phrynosomatidae
36	Aves	Struthioniformes	Rheidae
37	Reptilia	Squamata	Chamaeleonidae
38	Reptilia	Squamata	Chamaeleonidae
39	Reptilia	Squamata	Chamaeleonidae
40	Reptilia	Squamata	Chamaeleonidae
41	Reptilia	Squamata	Chamaeleonidae
42	Reptilia	Squamata	Chamaeleonidae
43	Reptilia	Squamata	Chamaeleonidae
44	Reptilia	Squamata	Chamaeleonidae
45	Reptilia	Squamata	Chamaeleonidae
46	Reptilia	Squamata	Chamaeleonidae
47	Reptilia	Squamata	Lacertidae
48	Amphibia	Urodela	Cryptobranchidae
49	Aves	Strigiformes	Strigidae
50	Mammalia	Rodentia	Cricetidae

1			
2	Mammalia	Artiodactyla	Bovidae
3	Mammalia	Primates	Cercopithecidae
4	Mammalia	Cetacea	Balaenopteridae
5	Mammalia	Cetacea	Balaenidae
6	Mammalia	Rodentia	Muridae
7	Mammalia	Soricomorpha	Soricidae
8	Mammalia	Rodentia	Heteromyidae
9	Mammalia	Diprotodontia	Pseudocheiridae
10	Mammalia	Primates	Lepilemuridae
11	Mammalia	Chiroptera	Pteropodidae
12	Mammalia	Cetacea	Hyperoodontidae
13	Mammalia	Cetacea	Hyperoodontidae
14	Amphibia	Urodela	Rhyacotritonidae
15	Amphibia	Urodela	Salamandridae
16	Aves	Charadriiformes	Laridae
17	Amphibia	Anura	Phrynobatrachidae
18	Amphibia	Anura	Phrynobatrachidae
19	Aves	Anseriformes	Anatidae
20	Reptilia	Squamata	Phrynosomatidae
21	Reptilia	Squamata (serpentes)	Viperidae
22	Reptilia	Squamata (serpentes)	Boidae
23	Amphibia	Anura	Leptodactylidae
24	Amphibia	Anura	Leptodactylidae
25	Amphibia	Anura	Hylidae
26	Reptilia	Squamata	Agamidae
27	Reptilia	Squamata	Gekkonidae
28	Amphibia	Anura	Dicroglossidae
29	Amphibia	Urodela	Salamandridae
30	Reptilia	Squamata	Agamidae
31	Aves	Columbiformes	Columbidae
32	Reptilia	Squamata	Phrynosomatidae
33	Amphibia	Anura	Ranidae
34	Amphibia	Anura	Ranidae
35	Aves	Procellariiformes	Procellariidae
36	Reptilia	Squamata	Teiidae
37	Reptilia	Squamata	Agamidae
38	Reptilia	Squamata	Scincidae
39	Reptilia	Squamata	Scincidae
40	Amphibia	Anura	Scaphiopodidae
41	Reptilia	Squamata	Scincidae
42	Reptilia	Crocodylia	Alligatoridae
43	Reptilia	Squamata (serpentes)	Colubridae
44	Amphibia	Urodela	Ambystomatidae
45	Amphibia	Urodela	Plethodontidae
46	Mammalia	Primates	Lepilemuridae
47	Reptilia	Squamata	Lacertidae
48	Reptilia	Squamata	Lacertidae
49	Reptilia	Squamata	Scincidae
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1			
2	Reptilia	Squamata	Diplodactylidae
3	Reptilia	Squamata	Cordylidae
4	Reptilia	Squamata	Dactyloidae
5	Reptilia	Squamata	Iguanidae
6	Reptilia	Squamata	Iguanidae
7	Reptilia	Squamata	Iguanidae
8	Amphibia	Urodela	Sirenidae
9	Mammalia	Rodentia	Bathyergidae
10			
11	Reptilia	Squamata	Scincidae
12	Reptilia	Squamata	Phrynosomatidae
13	Reptilia	Squamata	Agamidae
14	Reptilia	Squamata	Phyllodactylidae
15	Reptilia	Squamata	Liolaemidae
16	Reptilia	Squamata	Liolaemidae
17	Amphibia	Anura	Ranidae
18	Mammalia	Primates	Indriidae
19	Mammalia	Diprotodontia	Macropodidae
20	Mammalia	Artiodactyla	Bovidae
21	Mammalia	Artiodactyla	Bovidae
22	Reptilia	Squamata	Diplodactylidae
23	Reptilia	Squamata	Diplodactylidae
24	Reptilia	Squamata	Diplodactylidae
25	Reptilia	Squamata	Diplodactylidae
26	Reptilia	Squamata	Diplodactylidae
27	Amphibia	Anura	Ranidae
28	Aves	Procellariiformes	Oceanitidae
29	Amphibia	Anura	Odontophrynidae
30	Amphibia	Anura	Odontophrynidae
31	Reptilia	Squamata	Gymnophthalmidae
32	Aves	Passeriformes	Ploceidae
33	Reptilia	Squamata	Scincidae
34	Reptilia	Squamata	Scincidae
35	Reptilia	Squamata	Scincidae
36	Reptilia	Squamata	Diplodactylidae
37	Amphibia	Anura	Leptodactylidae
38	Reptilia	Squamata (serpentes)	Colubridae
39	Reptilia	Squamata	Dactyloidae
40	Reptilia	Squamata	Dactyloidae
41	Reptilia	Squamata	Sphaerodactylidae
42	Reptilia	Squamata	Sphaerodactylidae
43	Reptilia	Squamata	Sphaerodactylidae
44	Reptilia	Squamata	Sphaerodactylidae
45	Reptilia	Squamata	Sphaerodactylidae
46	Reptilia	Squamata	Sphaerodactylidae
47	Reptilia	Squamata	Sphaerodactylidae
48	Reptilia	Squamata	Sphaerodactylidae
49	Reptilia	Squamata	Sphaerodactylidae
50	Amphibia	Urodela	Salamandridae
51	Reptilia	Squamata (serpentes)	Viperidae
52	Reptilia	Squamata	Cordylidae
53	Reptilia	Squamata	Xantusiidae
54	Reptilia	Squamata	Xantusiidae
55	Mammalia	Perissodactyla	Equidae
56	Aves	Phoenicopteriformes	Phoenicopteridae
57	Aves	Anseriformes	Anatidae
58	Aves	Galliformes	Phasianidae
59	Aves	Galliformes	Phasianidae
60	Aves	Coraciiformes	Alcedinidae
	Aves	Galliformes	Phasianidae

1			
2	Aves	Sphenisciformes	Spheniscidae
3	Aves	Charadriiformes	Laridae
4	Aves	Coliiformes	Coliidae
5	Aves	Charadriiformes	Charadriidae
6	Aves	Piciformes	Ramphastidae
7	Aves	Coraciiformes	Coraciidae
8	Aves	Coraciiformes	Momotidae
9	Aves	Columbiformes	Columbidae
10	Aves	Gruiformes	Gruidae
11	Aves	Gruiformes	Gruidae
12	Aves	Passeriformes	Estrildidae
13	Amphibia	Urodela	Salamandridae
14	Reptilia	Testudines	Cheloniidae
15	Aves	Apterygiformes	Apterygidae
16	Reptilia	Squamata	Agamidae
17	Reptilia	Squamata	Agamidae
18	Aves	Charadriiformes	Scolopacidae
19	Aves	Charadriiformes	Scolopacidae
20	Aves	Charadriiformes	Scolopacidae
21	Aves	Charadriiformes	Scolopacidae
22	Aves	Passeriformes	Panuridae
23	Aves	Charadriiformes	Scolopacidae
24	Aves	Gaviiformes	Gaviidae
25	Aves	Procellariiformes	Hydrobatidae
26	Aves	Falconiformes	Falconidae
27	Aves	Passeriformes	Sylviidae
28	Aves	Passeriformes	Alaudidae
29	Aves	Anseriformes	Anatidae
30	Aves	Anseriformes	Anatidae
31	Aves	Passeriformes	Cettiidae
32	Aves	Passeriformes	Troglodytidae
33	Aves	Passeriformes	Parulidae
34	Reptilia	Squamata	Phrynosomatidae
35	Reptilia	Squamata	Lacertidae
36	Reptilia	Squamata	Dactyloidae
37	Reptilia	Squamata	Agamidae
38	Reptilia	Squamata	Gekkonidae
39	Mammalia	Lagomorpha	Leporidae
40	Reptilia	Crocodylia	Crocodylidae
41	Reptilia	Crocodylia	Crocodylidae
42	Reptilia	Crocodylia	Crocodylidae
43	Amphibia	Anura	Pelobatidae
44	Amphibia	Anura	Pelobatidae
45	Mammalia	Primates	Cercopithecidae
46	Amphibia	Urodela	Ambystomatidae
47	Reptilia	Squamata	Anguidae
48	Reptilia	Squamata	Scincidae
49	Aves	Apterygiformes	Apterygidae

1			
2	Reptilia	Squamata (serpentes)	Viperidae
3	Reptilia	Squamata	Scincidae
4	Reptilia	Squamata (serpentes)	Viperidae
5	Reptilia	Squamata	Scincidae
6	Reptilia	Squamata	Lacertidae
7	Reptilia	Squamata (serpentes)	Colubridae
8	Reptilia	Squamata	Cordylidae
9	Reptilia	Squamata	Teiidae
10	Reptilia	Squamata	Gekkonidae
11	Reptilia	Squamata	Scincidae
12	Reptilia	Testudines	Geoemydidae
13	Reptilia	Squamata	Scincidae
14	Reptilia	Squamata	Scincidae
15	Reptilia	Squamata	Cordylidae
16	Reptilia	Squamata (serpentes)	Viperidae
17	Reptilia	Squamata (serpentes)	Viperidae
18	Reptilia	Squamata	Chamaeleonidae
19	Reptilia	Squamata	Scincidae
20	Reptilia	Squamata	Cordylidae
21	Reptilia	Squamata	Cordylidae
22	Reptilia	Testudines	Geoemydidae
23	Reptilia	Squamata	Anniellidae
24	Reptilia	Squamata	Gerrhosauridae
25	Reptilia	Squamata (serpentes)	Colubridae
26	Reptilia	Testudines	Geoemydidae
27	Reptilia	Squamata	Scincidae
28	Reptilia	Squamata	Cordylidae
29	Reptilia	Squamata	Scincidae
30	Reptilia	Squamata	Cordylidae
31	Reptilia	Squamata (serpentes)	Viperidae
32	Reptilia	Testudines	Emydidae
33	Reptilia	Squamata	Phyllodactylidae
34	Reptilia	Squamata	Sphaerodactylidae
35	Reptilia	Squamata	Scincidae
36	Reptilia	Squamata	Gerrhosauridae
37	Reptilia	Squamata	Cordylidae
38	Reptilia	Squamata	Dactyloidae
39	Reptilia	Squamata (serpentes)	Viperidae
40	Reptilia	Squamata	Cordylidae
41	Reptilia	Squamata	Cordylidae
42	Reptilia	Squamata	Scincidae
43	Reptilia	Squamata	Agamidae
44	Reptilia	Squamata	Scincidae
45	Reptilia	Squamata	Cordylidae
46	Reptilia	Testudines	Kinosternidae
47	Reptilia	Squamata	Chamaeleonidae
48	Reptilia	Squamata	Cordylidae
49	Reptilia	Testudines	Chelidae

1			
2	Reptilia	Testudines	Testudinidae
3	Reptilia	Squamata	Shinisauridae
4	Reptilia	Squamata	Scincidae
5	Reptilia	Squamata	Scincidae
6	Reptilia	Squamata	Scincidae
7	Reptilia	Squamata	Amphisbaenidae
8	Reptilia	Testudines	Testudinidae
9	Reptilia	Squamata	Cordylidae
10	Reptilia	Squamata	Teiidae
11	Reptilia	Squamata	Anguidae
12	Reptilia	Squamata	Anguidae
13	Reptilia	Testudines	Geoemydidae
14	Reptilia	Squamata	Gerrhosauridae
15	Reptilia	Squamata	Anguidae
16	Reptilia	Squamata	Anguidae
17	Reptilia	Testudines	Emydidae
18	Reptilia	Testudines	Testudinidae
19	Reptilia	Squamata	Scincidae
20	Reptilia	Squamata	Scincidae
21	Reptilia	Testudines	Testudinidae
22	Reptilia	Testudines	Emydidae
23	Reptilia	Testudines	Emydidae
24	Reptilia	Testudines	Emydidae
25	Reptilia	Squamata	Corytophanidae
26	Reptilia	Squamata	Phrynosomatidae
27	Reptilia	Squamata	Scincidae
28	Reptilia	Squamata	Scincidae
29	Reptilia	Squamata	Scincidae
30	Reptilia	Squamata	Gekkonidae
31	Reptilia	Squamata	Scincidae
32	Reptilia	Squamata	Gekkonidae
33	Reptilia	Squamata	Gekkonidae
34	Reptilia	Testudines	Geoemydidae
35	Reptilia	Testudines	Kinosternidae
36	Reptilia	Testudines	Pelomedusidae
37	Reptilia	Testudines	Kinosternidae
38	Reptilia	Testudines	Kinosternidae
39	Reptilia	Squamata	Agamidae
40	Reptilia	Squamata	Gekkonidae
41	Reptilia	Squamata	Gekkonidae
42	Reptilia	Testudines	Chelidae
43	Reptilia	Squamata (serpentes)	Boidae
44	Reptilia	Squamata	Teiidae
45	Reptilia	Squamata	Gekkonidae
46	Reptilia	Squamata	Gekkonidae
47	Reptilia	Testudines	Testudinidae
48	Reptilia	Testudines	Emydidae
49	Reptilia	Squamata	Sphaerodactylidae
50	Reptilia	Testudines	Testudinidae
51	Reptilia	Squamata	Xantusiidae
52	Reptilia	Squamata	Iguanidae
53	Reptilia	Squamata	Iguanidae
54	Reptilia	Testudines	Kinosternidae
55	Reptilia	Testudines	Testudinidae
56	Reptilia	Squamata	Dactyloidae
57	Reptilia	Squamata	Dactyloidae
58	Reptilia	Testudines	Trionychidae
59	Reptilia	Testudines	Testudinidae
60	Reptilia	Squamata	Gekkonidae
	Reptilia	Testudines	Podocnemididae

1			
2	Reptilia	Testudines	Chelidae
3	Reptilia	Squamata	Gerrhosauridae
4	Reptilia	Testudines	Chelidae
5	Reptilia	Testudines	Geoemydidae
6	Reptilia	Testudines	Trionychidae
7	Reptilia	Testudines	Geoemydidae
8	Reptilia	Squamata	Gekkonidae
9	Reptilia	Squamata	Scincidae
10	Reptilia	Testudines	Podocnemididae
11	Reptilia	Testudines	Geoemydidae
12	Reptilia	Squamata (serpentes)	Viperidae
13	Reptilia	Squamata	Sphaerodactylidae
14	Reptilia	Testudines	Emydidae
15	Reptilia	Testudines	Geoemydidae
16	Reptilia	Testudines	Geoemydidae
17	Reptilia	Squamata	Scincidae
18	Reptilia	Squamata	Gekkonidae
19	Reptilia	Squamata	Varanidae
20	Reptilia	Testudines	Chelidae
21	Reptilia	Squamata	Teiidae
22	Reptilia	Testudines	Pelomedusidae
23	Reptilia	Squamata	Scincidae
24	Reptilia	Squamata	Diplodactylidae
25	Reptilia	Squamata (serpentes)	Elapidae
26	Amphibia	Anura	Dicroglossidae
27	Reptilia	Squamata	Sphaerodactylidae
28	Reptilia	Squamata	Scincidae
29	Reptilia	Squamata	Scincidae
30	Reptilia	Squamata	Gekkonidae
31	Reptilia	Squamata	Anguidae
32	Reptilia	Squamata	Gekkonidae
33	Reptilia	Squamata	Trogonophidae
34	Reptilia	Squamata	Cordylidae
35	Reptilia	Squamata	Phrynosomatidae
36	Reptilia	Squamata	Gekkonidae
37	Reptilia	Squamata	Gekkonidae
38	Reptilia	Squamata	Scincidae
39	Reptilia	Squamata (serpentes)	Colubridae
40	Reptilia	Squamata	Gerrhosauridae
41	Reptilia	Squamata	Gekkonidae
42	Reptilia	Squamata	Gekkonidae
43	Reptilia	Squamata	Chamaeleonidae
44	Reptilia	Squamata	Scincidae
45	Reptilia	Squamata	Gekkonidae
46	Reptilia	Squamata	Agamidae
47	Reptilia	Squamata	Phrynosomatidae
48	Reptilia	Squamata (serpentes)	Xenopeltidae
49	Reptilia	Squamata (serpentes)	Elapidae

1			
2	Reptilia	Squamata	Varanidae
3	Reptilia	Squamata (serpentes)	Elapidae
4	Reptilia	Squamata	Iguanidae
5	Reptilia	Squamata	Opluridae
6	Reptilia	Squamata	Phyllodactylidae
7	Reptilia	Squamata	Varanidae
8	Reptilia	Squamata	Agamidae
9	Reptilia	Squamata	Gekkonidae
10	Reptilia	Squamata	Scincidae
11	Reptilia	Squamata	Dactyloidae
12	Reptilia	Squamata (serpentes)	Lamprophiidae
13	Reptilia	Squamata	Lanthanotidae
14	Reptilia	Squamata (serpentes)	Pythonidae
15	Reptilia	Squamata	Phyllodactylidae
16	Reptilia	Squamata	Agamidae
17	Reptilia	Squamata (serpentes)	Pythonidae
18	Reptilia	Squamata	Iguanidae
19	Amphibia	Urodela	Ambystomatidae
20	Amphibia	Urodela	Hynobiidae
21	Amphibia	Urodela	Hynobiidae
22	Amphibia	Urodela	Salamandridae
23	Amphibia	Anura	Bufonidae
24	Amphibia	Anura	Telmatobiidae
25	Amphibia	Urodela	Plethodontidae
26	Amphibia	Urodela	Ambystomatidae
27	Amphibia	Urodela	Plethodontidae
28	Amphibia	Urodela	Plethodontidae
29	Amphibia	Anura	Hylidae
30	Amphibia	Urodela	Hynobiidae
31	Amphibia	Anura	Hemiphractidae
32	Amphibia	Urodela	Plethodontidae
33	Amphibia	Anura	Hylidae
34	Amphibia	Urodela	Plethodontidae
35	Amphibia	Urodela	Plethodontidae
36	Amphibia	Urodela	Plethodontidae
37	Amphibia	Anura	Rhacophoridae
38	Amphibia	Urodela	Hynobiidae
39	Amphibia	Urodela	Dicamptodontidae
40	Amphibia	Urodela	Ambystomatidae
41	Amphibia	Urodela	Salamandridae
42	Amphibia	Anura	Hylidae
43	Amphibia	Urodela	Plethodontidae
44	Amphibia	Urodela	Plethodontidae
45	Amphibia	Urodela	Plethodontidae
46	Amphibia	Urodela	Plethodontidae
47	Amphibia	Anura	Rhacophoridae
48	Amphibia	Urodela	Hynobiidae
49	Amphibia	Urodela	Dicamptodontidae
50	Amphibia	Urodela	Ambystomatidae
51	Amphibia	Urodela	Salamandridae
52	Amphibia	Anura	Hylidae
53	Amphibia	Urodela	Plethodontidae
54	Amphibia	Urodela	Plethodontidae
55	Amphibia	Anura	Bufonidae
56	Amphibia	Urodela	Salamandridae
57	Amphibia	Urodela	Plethodontidae
58	Amphibia	Anura	Pipidae
59	Amphibia	Urodela	
60	Amphibia	Anura	

1			
2	Amphibia	Urodela	Ambystomatidae
3	Amphibia	Anura	Pipidae
4	Amphibia	Anura	Pyxicephalidae
5	Amphibia	Anura	Hylidae
6	Amphibia	Anura	Hylidae
7	Amphibia	Urodela	Ambystomatidae
8	Amphibia	Anura	Ranidae
9	Amphibia	Urodela	Salamandridae
10	Amphibia	Urodela	Salamandridae
11	Amphibia	Anura	Bufonidae
12	Amphibia	Anura	Bufonidae
13	Amphibia	Urodela	Sirenidae
14	Amphibia	Anura	Leptodactylidae
15	Amphibia	Anura	Hylidae
16	Amphibia	Anura	Hylidae
17	Amphibia	Anura	Hylidae
18	Amphibia	Anura	Hylidae
19	Amphibia	Urodela	Salamandridae
20	Amphibia	Anura	Pipidae
21	Amphibia	Anura	Hylidae
22	Amphibia	Anura	Bufonidae
23	Amphibia	Anura	Hylidae
24	Amphibia	Anura	Pipidae
25	Amphibia	Anura	Pipidae
26	Amphibia	Anura	Megophryidae
27	Amphibia	Anura	Dendrobatidae
28	Amphibia	Anura	Ranidae
29	Amphibia	Anura	Bufonidae
30	Amphibia	Urodela	Plethodontidae
31	Amphibia	Anura	Hylidae
32	Amphibia	Anura	Hylidae
33	Amphibia	Anura	Dicroglossidae
34	Amphibia	Anura	Ceratophryidae
35	Amphibia	Anura	Hyperoliidae
36	Amphibia	Anura	Ptychadenidae
37	Amphibia	Anura	Microhylidae
38	Amphibia	Anura	Bufonidae
39	Amphibia	Anura	Hylidae
40	Amphibia	Anura	Ptychadenidae
41	Amphibia	Anura	Hylidae
42	Amphibia	Anura	Phrynobatrachidae
43	Amphibia	Urodela	Salamandridae
44	Amphibia	Anura	Ranidae
45	Amphibia	Gymnophiona	Dermophiidae
46	Amphibia	Anura	Hylidae
47	Amphibia	Anura	Hylidae
48	Amphibia	Anura	Hylidae
49	Amphibia	Urodela	Plethodontidae
50	Amphibia	Anura	Hyperoliidae
51	Amphibia	Anura	Hylidae
52	Amphibia	Anura	Hylidae

1			
2	Amphibia	Anura	Hylidae
3	Amphibia	Anura	Hylidae
4	Amphibia	Anura	Rhacophoridae
5	Amphibia	Anura	Pipidae
6	Amphibia	Anura	Pipidae
7	Amphibia	Anura	Arthroleptidae
8	Amphibia	Anura	Hylidae
9	Amphibia	Anura	Bufonidae
10	Amphibia	Anura	Microhylidae
11	Amphibia	Anura	Pipidae
12	Amphibia	Anura	Pipidae
13	Amphibia	Anura	Bufonidae
14	Amphibia	Anura	Bufonidae
15	Amphibia	Anura	Bufonidae
16	Amphibia	Anura	Hylidae
17	Amphibia	Anura	Hylidae
18	Amphibia	Anura	Rhacophoridae
19	Amphibia	Anura	Hylidae
20	Amphibia	Anura	Hylidae
21	Amphibia	Anura	Hylidae
22	Amphibia	Anura	Hylidae
23	Amphibia	Anura	Bufonidae
24	Amphibia	Anura	Dendrobatidae
25	Amphibia	Anura	Ranidae
26	Amphibia	Anura	Bufonidae
27	Amphibia	Anura	Bufonidae
28	Amphibia	Anura	Bufonidae
29	Amphibia	Anura	Bufonidae
30	Amphibia	Anura	Bufonidae
31	Amphibia	Anura	Hylidae
32	Amphibia	Anura	Rhinophrynidae
33	Amphibia	Gymnophiona	Typhlonectidae
34	Amphibia	Anura	Bufonidae
35	Amphibia	Anura	Hylidae
36	Amphibia	Anura	Leptodactylidae
37	Amphibia	Anura	Hylidae
38	Amphibia	Anura	Hylidae
39	Amphibia	Anura	Hylidae
40	Amphibia	Anura	Hylidae
41	Amphibia	Gymnophiona	Ichthyophiidae
42	Amphibia	Anura	Dicroglossidae
43	Amphibia	Anura	Pipidae
44	Amphibia	Anura	Pipidae
45	Amphibia	Anura	Bufonidae
46	Amphibia	Anura	Bufonidae
47	Reptilia	Squamata	Scincidae
48	Reptilia	Squamata	Diplodactylidae
49	Reptilia	Squamata	Chamaeleonidae
50	Reptilia	Squamata	Chamaeleonidae
51	Reptilia	Testudines	Emydidae
52	Reptilia	Testudines	Trionychidae
53	Reptilia	Squamata	Agamidae
54	Reptilia	Testudines	Testudinidae
55	Reptilia	Testudines	Chelidae
56	Reptilia	Squamata	Eublepharidae
57	Reptilia	Squamata	Chamaeleonidae
58	Reptilia	Squamata	Scincidae
59	Reptilia	Squamata	Pelomedusidae
60	Reptilia	Testudines	

1			
2	Reptilia	Testudines	Chelidae
3	Reptilia	Squamata	Tropiduridae
4	Reptilia	Squamata	Tropiduridae
5	Reptilia	Squamata	Scincidae
6	Reptilia	Squamata	Agamidae
7	Reptilia	Squamata	Scincidae
8	Reptilia	Squamata	Liolaemidae
9	Reptilia	Squamata	Teiidae
10	Reptilia	Squamata	Dactyloidae
11	Reptilia	Squamata	Teiidae
12	Reptilia	Squamata	Hylidae
13	Amphibia	Anura	Varanidae
14	Reptilia	Squamata	Spheniscidae
15	Aves	Sphenisciformes	Plethodontidae
16	Reptilia	Squamata	Ranidae
17	Amphibia	Urodela	Eublepharidae
18	Amphibia	Anura	Trogonophidae
19	Amphibia	Anura	Blanidae
20	Reptilia	Squamata	Ranidae
21	Reptilia	Squamata	Viperidae
22	Reptilia	Squamata	Tarsiidae
23	Reptilia	Squamata	Phrynosomatidae
24	Amphibia	Anura	Pythonidae
25	Reptilia	Squamata (serpentes)	Ranidae
26	Mammalia	Primates	Hyperoliidae
27	Reptilia	Squamata	Hyperoliidae
28	Reptilia	Squamata (serpentes)	Hyperoliidae
29	Amphibia	Anura	Hyperoliidae
30	Amphibia	Anura	Hyperoliidae
31	Amphibia	Anura	Hyperoliidae
32	Amphibia	Anura	Hyperoliidae
33	Amphibia	Anura	Hyperoliidae
34	Amphibia	Anura	Microhylidae
35	Amphibia	Anura	Hyperoliidae
36	Amphibia	Anura	Dicroglossidae
37	Amphibia	Anura	Dicroglossidae
38	Amphibia	Anura	Hyperoliidae
39	Amphibia	Anura	Hyperoliidae
40	Amphibia	Anura	Hyperoliidae
41	Amphibia	Anura	Hyperoliidae
42	Amphibia	Anura	Hyperoliidae
43	Amphibia	Anura	Hyperoliidae
44	Amphibia	Anura	Hyperoliidae
45	Amphibia	Anura	Hyperoliidae
46	Amphibia	Anura	Hyperoliidae
47	Reptilia	Squamata	Leiosauridae
48	Amphibia	Urodela	Hynobiidae
49	Reptilia	Squamata	Agamidae
50	Reptilia	Squamata	Agamidae
51	Reptilia	Squamata	Agamidae
52	Reptilia	Squamata	Agamidae
53	Reptilia	Squamata	Agamidae
54	Reptilia	Squamata	Agamidae
55	Reptilia	Squamata	Agamidae
56	Reptilia	Squamata	Carphodactylidae
57	Reptilia	Squamata	Scincidae
58	Reptilia	Squamata	Picidae
59	Aves	Piciformes	Dactyloidae
60	Reptilia	Squamata	Plethodontidae
	Amphibia	Urodela	Plethodontidae

1			
2	Amphibia	Anura	Bufonidae
3	Reptilia	Squamata	Scincidae
4	Reptilia	Squamata (serpentes)	Colubridae
5	Reptilia	Testudines	Kinosternidae
6	Reptilia	Squamata	Amphisbaenidae
7	Reptilia	Squamata (serpentes)	Elapidae
8	Amphibia	Urodela	Plethodontidae
9	Amphibia	Urodela	Rhyacotritonidae
10	Amphibia	Urodela	Plethodontidae
11	Amphibia	Urodela	Plethodontidae
12	Amphibia	Urodela	Plethodontidae
13	Amphibia	Urodela	Plethodontidae
14	Amphibia	Urodela	Plethodontidae
15	Reptilia	Squamata	Gymnophthalmidae
16	Amphibia	Urodela	Hynobiidae
17	Amphibia	Urodela	Hynobiidae
18	Amphibia	Urodela	Salamandridae
19	Amphibia	Urodela	Salamandridae
20	Amphibia	Urodela	Salamandridae
21	Amphibia	Urodela	Salamandridae
22	Amphibia	Urodela	Salamandridae
23	Amphibia	Urodela	Hynobiidae
24	Amphibia	Urodela	Hynobiidae
25	Amphibia	Urodela	Plethodontidae
26	Amphibia	Urodela	Hynobiidae
27	Amphibia	Urodela	Plethodontidae
28	Amphibia	Urodela	Hynobiidae
29	Amphibia	Urodela	Salamandridae
30	Reptilia	Testudines	Chelidae
31	Reptilia	Testudines	Chelidae
32	Mammalia	Cetacea	Delphinidae
33	Reptilia	Crocodylia	Crocodylidae
34	Mammalia	Rodentia	Cricetidae
35	Amphibia	Anura	Ranidae
36	Aves	Anseriformes	Anatidae
37	Aves	Passeriformes	Turdidae
38	Aves	Strigiformes	Strigidae
39	Aves	Passeriformes	Corvidae
40	Aves	Accipitriformes	Cathartidae
41	Aves	Falconiformes	Falconidae
42	Aves	Strigiformes	Strigidae
43	Aves	Suliformes	Fregatidae
44	Aves	Passeriformes	Icteridae
45	Aves	Passeriformes	Passeridae
46	Aves	Galliformes	Phasianidae
47	Aves	Galliformes	Phasianidae
48	Aves	Passeriformes	Icteridae
49	Aves	Passeriformes	Turdidae
50	Aves	Accipitriformes	Accipitridae
51	Amphibia	Urodela	Plethodontidae
52	Amphibia	Urodela	Plethodontidae
53	Amphibia	Urodela	Plethodontidae
54	Reptilia	Squamata	Scincidae

1			
2	Reptilia	Squamata	Phrynosomatidae
3	Mammalia	Lagomorpha	Leporidae
4	Aves	Podicipediformes	Podicipedidae
5	Amphibia	Anura	Bufonidae
6	Amphibia	Anura	Bufonidae
7	Amphibia	Anura	Bufonidae
8	Amphibia	Anura	Bufonidae
9	Mammalia	Primates	Cebidae
10			
11	Reptilia	Squamata	Gekkonidae
12	Reptilia	Squamata	Agamidae
13	Reptilia	Squamata	Gekkonidae
14	Reptilia	Squamata	Agamidae
15	Reptilia	Squamata	Agamidae
16	Reptilia	Squamata	Agamidae
17	Amphibia	Anura	Ceratophryidae
18	Reptilia	Squamata	Opluridae
19	Reptilia	Squamata	Agamidae
20	Reptilia	Squamata	Phrynosomatidae
21	Reptilia	Squamata	Phrynosomatidae
22	Amphibia	Urodela	Salamandridae
23	Reptilia	Squamata	Agamidae
24	Reptilia	Squamata	Lacertidae
25	Reptilia	Squamata	Lacertidae
26	Reptilia	Squamata	Lacertidae
27	Reptilia	Squamata	Agamidae
28	Reptilia	Squamata	Lacertidae
29	Reptilia	Squamata	Liolaemidae
30	Reptilia	Squamata	Lacertidae
31	Reptilia	Squamata	Scincidae
32	Reptilia	Squamata	Agamidae
33	Reptilia	Squamata	Agamidae
34	Reptilia	Squamata	Scincidae
35	Reptilia	Squamata	Lacertidae
36	Reptilia	Squamata	Agamidae
37	Reptilia	Squamata	Agamidae
38	Reptilia	Squamata	Gekkonidae
39	Reptilia	Squamata	Phrynosomatidae
40	Reptilia	Squamata	Agamidae
41	Reptilia	Squamata	Cordylidae
42	Reptilia	Squamata	Agamidae
43	Reptilia	Squamata	Agamidae
44	Reptilia	Squamata	Agamidae
45	Reptilia	Squamata	Gerrhosauridae
46	Reptilia	Squamata	Gekkonidae
47	Reptilia	Squamata	Agamidae
48	Reptilia	Squamata	Lacertidae
49	Reptilia	Squamata	Scincidae
50	Reptilia	Squamata	Agamidae
51	Reptilia	Squamata	Agamidae
52	Reptilia	Squamata	Varanidae
53	Reptilia	Squamata	Lacertidae
54	Reptilia	Squamata	Sphaerodactylidae
55	Reptilia	Squamata	Gekkonidae
56	Reptilia	Squamata	Phyllodactylidae
57	Reptilia	Squamata	Gekkonidae
58	Reptilia	Squamata	
59	Reptilia	Squamata	
60	Reptilia	Squamata	

1			
2	Reptilia	Squamata	Scincidae
3	Reptilia	Squamata	Agamidae
4	Reptilia	Squamata	Gekkonidae
5	Reptilia	Squamata	Gekkonidae
6	Reptilia	Squamata	Gekkonidae
7	Reptilia	Squamata	Phyllodactylidae
8	Reptilia	Squamata	Gekkonidae
9	Reptilia	Squamata	Agamidae
10	Reptilia	Squamata (serpentes)	Colubridae
11	Reptilia	Squamata (serpentes)	Viperidae
12	Reptilia	Squamata (serpentes)	Viperidae
13	Reptilia	Squamata (serpentes)	Viperidae
14	Reptilia	Squamata (serpentes)	Typhlopidae
15	Reptilia	Squamata (serpentes)	Colubridae
16	Reptilia	Squamata (serpentes)	Colubridae
17	Reptilia	Squamata (serpentes)	Colubridae
18	Reptilia	Squamata (serpentes)	Colubridae
19	Reptilia	Squamata (serpentes)	Colubridae
20	Reptilia	Squamata (serpentes)	Colubridae
21	Reptilia	Squamata (serpentes)	Viperidae
22	Reptilia	Squamata	Scincidae
23	Reptilia	Squamata (serpentes)	Colubridae
24	Reptilia	Squamata (serpentes)	Colubridae
25	Reptilia	Squamata (serpentes)	Viperidae
26	Reptilia	Squamata (serpentes)	Viperidae
27	Reptilia	Squamata (serpentes)	Viperidae
28	Reptilia	Squamata (serpentes)	Elapidae
29	Reptilia	Squamata	Gekkonidae
30	Reptilia	Squamata	Agamidae
31	Reptilia	Squamata (serpentes)	Lamprophiidae
32	Reptilia	Squamata (serpentes)	Viperidae
33	Reptilia	Squamata (serpentes)	Colubridae
34	Reptilia	Squamata (serpentes)	Lamprophiidae
35	Reptilia	Squamata (serpentes)	Colubridae
36	Reptilia	Squamata	Lacertidae
37	Reptilia	Squamata (serpentes)	Viperidae
38	Reptilia	Squamata	Agamidae
39	Reptilia	Squamata (serpentes)	Viperidae
40	Reptilia	Squamata	Agamidae
41	Reptilia	Squamata	Agamidae
42	Reptilia	Squamata	Lacertidae
43	Reptilia	Squamata	Gekkonidae
44	Reptilia	Squamata	Agamidae
45	Reptilia	Squamata	Agamidae
46	Reptilia	Squamata	Scincidae
47	Reptilia	Squamata	Gekkonidae
48	Reptilia	Squamata	Scincidae
49	Reptilia	Squamata	Helodermatidae
50	Aves	Gruiformes	Gruidae
51	Aves	Anseriformes	Anatidae
52	Aves	Strigiformes	Strigidae
53	Aves	Falconiformes	Falconidae
54	Aves	Galliformes	Phasianidae

1			
2	Aves	Galliformes	Odontophoridae
3	Aves	Apodiformes	Trochilidae
4	Aves	Suliformes	Sulidae
5	Aves	Pelecaniformes	Threskiornithidae
6	Aves	Columbiformes	Columbidae
7	Aves	Passeriformes	Motacillidae
8	Aves	Anseriformes	Anatidae
9	Aves	Passeriformes	Hirundinidae
10	Aves	Passeriformes	Tyrannidae
11	Aves	Passeriformes	Icteridae
12	Aves	Charadriiformes	Laridae
13	Aves	Charadriiformes	Recurvirostridae
14	Aves	Galliformes	Phasianidae
15	Aves	Passeriformes	Cardinalidae
16	Aves	Passeriformes	Cardinalidae
17	Aves	Passeriformes	Fringillidae
18	Aves	Passeriformes	Fringillidae
19	Aves	Passeriformes	Laniidae
20	Aves	Passeriformes	Thraupidae
21	Aves	Passeriformes	Thraupidae
22	Aves	Passeriformes	Turdidae
23	Amphibia	Anura	Microhylidae
24	Amphibia	Anura	Microhylidae
25	Amphibia	Anura	Mantellidae
26	Amphibia	Anura	Mantellidae
27	Amphibia	Anura	Mantellidae
28	Amphibia	Anura	Mantellidae
29	Amphibia	Anura	Mantellidae
30	Amphibia	Anura	Mantellidae
31	Amphibia	Anura	Mantellidae
32	Amphibia	Anura	Mantellidae
33	Amphibia	Anura	Mantellidae
34	Amphibia	Anura	Mantellidae
35	Amphibia	Anura	Mantellidae
36	Amphibia	Anura	Mantellidae
37	Amphibia	Anura	Mantellidae
38	Amphibia	Anura	Mantellidae
39	Amphibia	Anura	Mantellidae
40	Amphibia	Anura	Mantellidae
41	Amphibia	Anura	Mantellidae
42	Amphibia	Anura	Mantellidae
43	Amphibia	Anura	Mantellidae
44	Amphibia	Anura	Mantellidae
45	Amphibia	Anura	Mantellidae
46	Reptilia	Squamata	Chamaeleonidae
47	Amphibia	Urodela	Plethodontidae
48	Reptilia	Squamata	Phrynosomatidae
49	Amphibia	Anura	Scaphiopodidae
50	Reptilia	Squamata	Lacertidae
51	Aves	Sphenisciformes	Spheniscidae
52	Reptilia	Squamata	Gekkonidae
53	Reptilia	Squamata	Scincidae
54	Reptilia	Rhynchocephalia	Sphenodontidae
55	Reptilia	Squamata	Scincidae
56	Amphibia	Urodela	Ambystomatidae
57	Reptilia	Squamata	Agamidae
58	Aves	Falconiformes	Falconidae

1			
2	Aves	Accipitriformes	Accipitridae
3	Reptilia	Squamata	Lacertidae
4	Amphibia	Anura	Ranidae
5	Reptilia	Crocodylia	Crocodylidae
6	Reptilia	Squamata	Lacertidae
7	Reptilia	Squamata	Lacertidae
8	Reptilia	Squamata	Lacertidae
9	Reptilia	Squamata	Lacertidae
10	Reptilia	Squamata	Agamidae
11	Reptilia	Squamata	Agamidae
12	Aves	Charadriiformes	Laridae
13	Amphibia	Anura	Hylidae
14	Mammalia	Chiroptera	Pteropodidae
15	Mammalia	Primates	Lemuridae
16	Mammalia	Soricomorpha	Solenodontidae
17	Reptilia	Squamata (serpentes)	Acrochordidae
18	Reptilia	Squamata (serpentes)	Acrochordidae
19	Amphibia	Urodela	Proteidae
20	Reptilia	Squamata	Scincidae
21	Reptilia	Squamata	Scincidae
22	Reptilia	Squamata	Teiidae
23	Reptilia	Squamata	Scincidae
24	Reptilia	Squamata	Scincidae
25	Reptilia	Squamata	Scincidae
26	Amphibia	Urodela	Salamandridae
27	Aves	Anseriformes	Anatidae
28	Aves	Passeriformes	Corvidae
29	Aves	Falconiformes	Falconidae
30	Aves	Falconiformes	Falconidae
31	Aves	Passeriformes	Emberizidae
32	Aves	Pelecaniformes	Ardeidae
33	Aves	Charadriiformes	Laridae
34	Aves	Charadriiformes	Laridae
35	Aves	Suliformes	Fregatidae
36	Aves	Anseriformes	Anatidae
37	Aves	Bucerotiformes	Bucerotidae
38	Aves	Charadriiformes	Laridae
39	Aves	Charadriiformes	Laridae
40	Aves	Passeriformes	Parulidae
41	Aves	Procellariiformes	Hydrobatidae
42	Aves	Procellariiformes	Procellariidae
43	Aves	Procellariiformes	Procellariidae
44	Aves	Procellariiformes	Procellariidae
45	Reptilia	Squamata (serpentes)	Elapidae
46	Mammalia	Carnivora	Phocidae
47	Mammalia	Artiodactyla	Bovidae
48	Mammalia	Artiodactyla	Bovidae
49	Mammalia	Lagomorpha	Ochotonidae
50	Mammalia	Artiodactyla	Bovidae
51	Mammalia	Carnivora	Ursidae
52	Mammalia	Carnivora	Mustelidae
53	Mammalia	Carnivora	Mustelidae
54	Mammalia	Cetacea	Monodontidae
55	Mammalia	Artiodactyla	Bovidae
56	Mammalia	Artiodactyla	Bovidae
57	Mammalia	Rodentia	Sciuridae
58	Mammalia	Rodentia	Sciuridae
59	Mammalia	Rodentia	Sciuridae
60	Mammalia	Perissodactyla	Equidae
	Mammalia	Artiodactyla	Bovidae

1			
2	Mammalia	Cetacea	Phocoenidae
3	Mammalia	Carnivora	Mustelidae
4	Mammalia	Rodentia	Sciuridae
5	Mammalia	Rodentia	Erethizontidae
6	Mammalia	Rodentia	Sciuridae
7	Mammalia	Artiodactyla	Bovidae
8	Mammalia	Artiodactyla	Bovidae
9	Mammalia	Carnivora	Phocidae
10	Mammalia	Carnivora	Felidae
11	Mammalia	Rodentia	Cricetidae
12	Mammalia	Rodentia	Muridae
13	Mammalia	Carnivora	Mustelidae
14	Mammalia	Artiodactyla	Bovidae
15	Mammalia	Erinaceomorpha	Erinaceidae
16	Mammalia	Artiodactyla	Bovidae
17	Mammalia	Artiodactyla	Bovidae
18	Mammalia	Primates	Cercopithecidae
19	Mammalia	Artiodactyla	Bovidae
20	Mammalia	Rodentia	Muridae
21	Mammalia	Artiodactyla	Bovidae
22	Mammalia	Rodentia	Dipodidae
23	Mammalia	Carnivora	Mustelidae
24	Mammalia	Rodentia	Muridae
25	Mammalia	Carnivora	Felidae
26	Mammalia	Rodentia	Myoxidae
27	Mammalia	Artiodactyla	Bovidae
28	Mammalia	Artiodactyla	Bovidae
29	Mammalia	Artiodactyla	Bovidae
30	Mammalia	Carnivora	Felidae
31	Mammalia	Artiodactyla	Bovidae
32	Mammalia	Artiodactyla	Bovidae
33	Mammalia	Carnivora	Felidae
34	Mammalia	Artiodactyla	Bovidae
35	Mammalia	Artiodactyla	Bovidae
36	Mammalia	Carnivora	Felidae
37	Mammalia	Artiodactyla	Bovidae
38	Mammalia	Artiodactyla	Bovidae
39	Mammalia	Artiodactyla	Camelidae
40	Mammalia	Rodentia	Muridae
41	Mammalia	Rodentia	Sciuridae
42	Mammalia	Rodentia	Sciuridae
43	Mammalia	Carnivora	Mephitidae
44	Mammalia	Lagomorpha	Leporidae
45	Mammalia	Primates	Cercopithecidae
46	Mammalia	Rodentia	Muridae
47	Mammalia	Rodentia	Dipodidae
48	Mammalia	Artiodactyla	Bovidae
49	Mammalia	Carnivora	Phocidae
50	Mammalia	Rodentia	Sciuridae
51	Mammalia	Artiodactyla	Camelidae
52	Mammalia	Rodentia	Sciuridae
53	Mammalia	Rodentia	Sciuridae
54	Mammalia	Rodentia	Muridae
55	Mammalia	Rodentia	Sciuridae
56	Mammalia	Rodentia	Muridae
57	Mammalia	Rodentia	Sciuridae
58	Mammalia	Rodentia	Muridae
59	Mammalia	Rodentia	Sciuridae
60	Mammalia	Rodentia	Sciuridae

1			
2	Mammalia	Carnivora	Mustelidae
3	Mammalia	Carnivora	Mustelidae
4	Mammalia	Cetacea	Delphinidae
5	Mammalia	Rodentia	Muridae
6	Mammalia	Artiodactyla	Bovidae
7	Mammalia	Rodentia	Muridae
8	Mammalia	Rodentia	Sciuridae
9	Mammalia	Carnivora	Phocidae
10	Mammalia	Artiodactyla	Cervidae
11	Mammalia	Carnivora	Otariidae
12	Mammalia	Didelphimorphia	Didelphidae
13	Mammalia	Carnivora	Otariidae
14	Mammalia	Carnivora	Canidae
15	Mammalia	Artiodactyla	Camelidae
16	Mammalia	Carnivora	Ursidae
17	Mammalia	Carnivora	Mustelidae
18	Mammalia	Carnivora	Mustelidae
19	Mammalia	Artiodactyla	Bovidae
20	Mammalia	Carnivora	Canidae
21	Mammalia	Carnivora	Canidae
22	Mammalia	Rodentia	Muridae
23	Mammalia	Rodentia	Muridae
24	Mammalia	Carnivora	Ursidae
25	Mammalia	Rodentia	Muridae
26	Mammalia	Artiodactyla	Cervidae
27	Mammalia	Cetacea	Delphinidae
28	Mammalia	Artiodactyla	Bovidae
29	Mammalia	Rodentia	Muridae
30	Mammalia	Carnivora	Mustelidae
31	Mammalia	Lagomorpha	Leporidae
32	Mammalia	Carnivora	Mustelidae
33	Mammalia	Diprotodontia	Macropodidae
34	Mammalia	Chiroptera	Mystacinidae
35	Mammalia	Carnivora	Mustelidae
36	Mammalia	Carnivora	Mustelidae
37	Mammalia	Artiodactyla	Bovidae
38	Mammalia	Rodentia	Gliridae
39	Mammalia	Rodentia	Muridae
40	Mammalia	Diprotodontia	Petauridae
41	Mammalia	Rodentia	Muridae
42	Mammalia	Rodentia	Sciuridae
43	Mammalia	Rodentia	Myoxidae
44	Mammalia	Rodentia	Caviidae
45	Mammalia	Rodentia	Sciuridae
46	Mammalia	Lagomorpha	Leporidae
47	Mammalia	Carnivora	Canidae
48	Mammalia	Carnivora	Mustelidae
49	Mammalia	Artiodactyla	Cervidae
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1			
2	Mammalia	Rodentia	Abrocomidae
3	Mammalia	Rodentia	Sciuridae
4	Mammalia	Diprotodontia	Potoroidae
5	Mammalia	Dasyuromorphia	Dasyuridae
6	Mammalia	Rodentia	Myoxidae
7	Mammalia	Perissodactyla	Tapiridae
8	Mammalia	Rodentia	Dipodidae
9	Mammalia	Artiodactyla	Bovidae
10	Mammalia	Cetacea	Delphinidae
11	Mammalia	Rodentia	Hystriidae
12	Mammalia	Diprotodontia	Macropodidae
13	Mammalia	Diprotodontia	Vombatidae
14	Mammalia	Primates	Cebidae
15	Mammalia	Carnivora	Viverridae
16	Mammalia	Lagomorpha	Leporidae
17	Mammalia	Rodentia	Muridae
18	Mammalia	Carnivora	Mustelidae
19	Mammalia	Artiodactyla	Cervidae
20	Mammalia	Artiodactyla	Cervidae
21	Mammalia	Rodentia	Myoxidae
22	Mammalia	Carnivora	Procyonidae
23	Mammalia	Rodentia	Muridae
24	Mammalia	Lagomorpha	Leporidae
25	Mammalia	Diprotodontia	Macropodidae
26	Mammalia	Rodentia	Sciuridae
27	Mammalia	Didelphimorphia	Didelphidae
28	Mammalia	Primates	Cebidae
29	Mammalia	Diprotodontia	Macropodidae
30	Mammalia	Dasyuromorphia	Dasyuridae
31	Mammalia	Rodentia	Cricetidae
32	Mammalia	Dasyuromorphia	Dasyuridae
33	Mammalia	Carnivora	Ursidae
34	Mammalia	Cetacea	Delphinidae
35	Mammalia	Artiodactyla	Cervidae
36	Mammalia	Rodentia	Heteromyidae
37	Mammalia	Artiodactyla	Cervidae
38	Mammalia	Soricomorpha	Talpidae
39	Mammalia	Rodentia	Muridae
40	Mammalia	Rodentia	Sciuridae
41	Mammalia	Carnivora	Otariidae
42	Mammalia	Carnivora	Viverridae
43	Mammalia	Artiodactyla	Cervidae
44	Mammalia	Carnivora	Canidae
45	Mammalia	Diprotodontia	Macropodidae
46	Mammalia	Dasyuromorphia	Dasyuridae
47	Mammalia	Rodentia	Bathyergidae
48	Mammalia	Rodentia	Muridae
49	Mammalia	Rodentia	Muridae
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1			
2	Mammalia	Diprotodontia	Petauridae
3	Mammalia	Carnivora	Felidae
4	Mammalia	Artiodactyla	Tayassuidae
5	Mammalia	Erinaceomorpha	Erinaceidae
6	Mammalia	Rodentia	Muridae
7	Mammalia	Cetacea	Iniidae
8	Mammalia	Diprotodontia	Macropodidae
9	Mammalia	Primates	Cercopithecidae
10	Mammalia	Perissodactyla	Equidae
11	Mammalia	Rodentia	Caviidae
12	Mammalia	Artiodactyla	Bovidae
13	Mammalia	Cetacea	Delphinidae
14	Mammalia	Rodentia	Muridae
15	Mammalia	Carnivora	Otariidae
16	Mammalia	Diprotodontia	Macropodidae
17	Mammalia	Rodentia	Muridae
18	Mammalia	Rodentia	Hystriidae
19	Mammalia	Diprotodontia	Macropodidae
20	Mammalia	Primates	Cercopithecidae
21	Mammalia	Rodentia	Muridae
22	Mammalia	Diprotodontia	Acrobatidae
23	Mammalia	Carnivora	Mustelidae
24	Mammalia	Chiroptera	Pteropodidae
25	Mammalia	Artiodactyla	Bovidae
26	Mammalia	Rodentia	Cuniculidae
27	Mammalia	Carnivora	Mustelidae
28	Mammalia	Carnivora	Felidae
29	Mammalia	Carnivora	Canidae
30	Mammalia	Carnivora	Mustelidae
31	Mammalia	Carnivora	Canidae
32	Mammalia	Diprotodontia	Macropodidae
33	Mammalia	Diprotodontia	Petauridae
34	Mammalia	Rodentia	Bathyergidae
35	Mammalia	Carnivora	Felidae
36	Mammalia	Primates	Lemuridae
37	Mammalia	Diprotodontia	Macropodidae
38	Mammalia	Peramelemorphia	Peramelidae
39	Mammalia	Primates	Cercopithecidae
40	Mammalia	Carnivora	Herpestidae
41	Mammalia	Rodentia	Echimyidae
42	Mammalia	Primates	Callitrichidae
43	Mammalia	Rodentia	Myoxidae
44	Mammalia	Artiodactyla	Bovidae
45	Mammalia	Rodentia	Myoxidae
46	Mammalia	Primates	Cercopithecidae
47	Mammalia	Primates	Cheirogaleidae
48	Mammalia	Diprotodontia	Pseudocheiridae
49	Mammalia	Artiodactyla	Bovidae

1			
2	Mammalia	Primates	Cercopithecidae
3	Mammalia	Rodentia	Caviidae
4	Mammalia	Rodentia	Sciuridae
5	Mammalia	Carnivora	Otariidae
6	Mammalia	Chiroptera	Pteropodidae
7	Mammalia	Rodentia	Dinomyidae
8	Mammalia	Artiodactyla	Bovidae
9	Mammalia	Artiodactyla	Bovidae
10	Mammalia	Artiodactyla	Bovidae
11	Mammalia	Primates	Cercopithecidae
12	Mammalia	Rodentia	Muridae
13	Mammalia	Eulipotyphla	Soricidae
14	Mammalia	Rodentia	Hystriidae
15	Mammalia	Rodentia	Heteromyidae
16	Mammalia	Rodentia	Muridae
17	Mammalia	Rodentia	Muridae
18	Mammalia	Rodentia	Muridae
19	Mammalia	Afrosoricida	Tenrecidae
20	Mammalia	Rodentia	Ctenodactylidae
21	Mammalia	Rodentia	Ctenodactylidae
22	Mammalia	Carnivora	Canidae
23	Mammalia	Artiodactyla	Bovidae
24	Mammalia	Artiodactyla	Bovidae
25	Mammalia	Erinaceomorpha	Erinaceidae
26	Mammalia	Rodentia	Muridae
27	Mammalia	Artiodactyla	Bovidae
28	Mammalia	Rodentia	Muridae
29	Mammalia	Rodentia	Muridae
30	Mammalia	Rodentia	Dipodidae
31	Mammalia	Chiroptera	Phyllostomidae
32	Mammalia	Artiodactyla	Bovidae
33	Mammalia	Artiodactyla	Bovidae
34	Mammalia	Artiodactyla	Bovidae
35	Mammalia	Rodentia	Muridae
36	Mammalia	Perissodactyla	Rhinocerotidae
37	Mammalia	Artiodactyla	Bovidae
38	Mammalia	Diprotodontia	Macropodidae
39	Mammalia	Diprotodontia	Macropodidae
40	Mammalia	Carnivora	Herpestidae
41	Mammalia	Chiroptera	Vespertilionidae
42	Mammalia	Primates	Cercopithecidae
43	Mammalia	Rodentia	Muridae
44	Mammalia	Rodentia	Muridae
45	Mammalia	Diprotodontia	Macropodidae
46	Mammalia	Carnivora	Canidae
47	Mammalia	Carnivora	Canidae
48	Mammalia	Carnivora	Canidae
49	Mammalia	Diprotodontia	Macropodidae
50	Mammalia	Primates	Cercopithecidae
51	Mammalia	Artiodactyla	Bovidae
52	Mammalia	Primates	Cercopithecidae
53	Mammalia	Artiodactyla	Bovidae
54	Mammalia	Artiodactyla	Bovidae
55	Mammalia	Primates	Cercopithecidae
56	Mammalia	Chiroptera	Pteropodidae
57	Mammalia	Artiodactyla	Bovidae
58	Mammalia	Artiodactyla	Bovidae
59	Mammalia	Artiodactyla	Bovidae
60	Mammalia	Rodentia	Muridae
	Mammalia	Carnivora	Mustelidae

1			
2	Mammalia	Rodentia	Muridae
3	Mammalia	Artiodactyla	Cervidae
4	Mammalia	Rodentia	Sciuridae
5	Mammalia	Carnivora	Canidae
6	Mammalia	Primates	Cercopithecidae
7	Mammalia	Peramelemorphia	Peramelidae
8	Mammalia	Primates	Cercopithecidae
9	Mammalia	Artiodactyla	Bovidae
10	Mammalia	Artiodactyla	Bovidae
11	Mammalia	Diprotodontia	Macropodidae
12	Mammalia	Artiodactyla	Giraffidae
13	Mammalia	Carnivora	Canidae
14	Mammalia	Carnivora	Procyonidae
15	Mammalia	Rodentia	Muridae
16	Mammalia	Artiodactyla	Cervidae
17	Mammalia	Artiodactyla	Bovidae
18	Mammalia	Diprotodontia	Potoroidae
19	Mammalia	Carnivora	Viverridae
20	Mammalia	Primates	Lemuridae
21	Mammalia	Carnivora	Eupleridae
22	Mammalia	Artiodactyla	Bovidae
23	Mammalia	Perissodactyla	Rhinocerotidae
24	Mammalia	Rodentia	Muridae
25	Mammalia	Rodentia	Muridae
26	Mammalia	Primates	Callitrichidae
27	Mammalia	Artiodactyla	Bovidae
28	Mammalia	Primates	Cebidae
29	Mammalia	Artiodactyla	Bovidae
30	Mammalia	Primates	Cercopithecidae
31	Mammalia	Rodentia	Muridae
32	Mammalia	Artiodactyla	Bovidae
33	Mammalia	Primates	Cebidae
34	Mammalia	Carnivora	Hyaenidae
35	Mammalia	Cingulata	Dasypodidae
36	Mammalia	Artiodactyla	Bovidae
37	Mammalia	Soricomorpha	Solenodontidae
38	Mammalia	Perissodactyla	Rhinocerotidae
39	Mammalia	Rodentia	Sciuridae
40	Mammalia	Primates	Cercopithecidae
41	Mammalia	Chiroptera	Pteropodidae
42	Mammalia	Carnivora	Herpestidae
43	Mammalia	Rodentia	Hystriidae
44	Mammalia	Primates	Daubentoniidae
45	Mammalia	Primates	Hominidae
46	Mammalia	Perissodactyla	Rhinocerotidae
47	Mammalia	Carnivora	Mustelidae
48	Mammalia	Chiroptera	Pteropodidae
49	Mammalia	Primates	Cheirogaleidae
50			
51			
52			
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56			
57			
58			
59			
60			

1			
2	Mammalia	Primates	Cercopithecidae
3	Mammalia	Primates	Cebidae
4	Mammalia	Diprotodontia	Petauridae
5	Mammalia	Artiodactyla	Cervidae
6	Mammalia	Primates	Lemuridae
7	Mammalia	Primates	Cercopithecidae
8	Mammalia	Primates	Cercopithecidae
9	Mammalia	Primates	Cercopithecidae
10	Mammalia	Rodentia	Muridae
11	Mammalia	Rodentia	Muridae
12	Mammalia	Diprotodontia	Vombatidae
13	Mammalia	Rodentia	Muridae
14	Mammalia	Artiodactyla	Bovidae
15	Mammalia	Carnivora	Felidae
16	Mammalia	Primates	Hylobatidae
17	Mammalia	Primates	Cercopithecidae
18	Mammalia	Primates	Callitrichidae
19	Mammalia	Primates	Cebidae
20	Mammalia	Primates	Cebidae
21	Mammalia	Rodentia	Muridae
22	Mammalia	Primates	Cercopithecidae
23	Mammalia	Primates	Cercopithecidae
24	Mammalia	Primates	Cebidae
25	Mammalia	Primates	Cebidae
26	Mammalia	Diprotodontia	Macropodidae
27	Mammalia	Carnivora	Felidae
28	Mammalia	Carnivora	Felidae
29	Mammalia	Carnivora	Mustelidae
30	Mammalia	Artiodactyla	Bovidae
31	Mammalia	Carnivora	Mephitidae
32	Mammalia	Rodentia	Sciuridae
33	Mammalia	Rodentia	Sciuridae
34	Mammalia	Artiodactyla	Bovidae
35	Mammalia	Carnivora	Eupleridae
36	Mammalia	Hyracoidea	Procaviidae
37	Mammalia	Rodentia	Muridae
38	Mammalia	Artiodactyla	Bovidae
39	Mammalia	Artiodactyla	Bovidae
40	Mammalia	Primates	Cebidae
41	Mammalia	Rodentia	Muridae
42	Mammalia	Diprotodontia	Phalangeridae
43	Mammalia	Rodentia	Muridae
44	Mammalia	Rodentia	Echimyidae
45	Mammalia	Primates	Cercopithecidae
46	Mammalia	Artiodactyla	Bovidae
47	Mammalia	Rodentia	Dasyproctidae
48	Mammalia	Chiroptera	Pteropodidae
49	Mammalia	Artiodactyla	Cervidae
50	Mammalia	Artiodactyla	Bovidae
51	Mammalia	Didelphimorphia	Didelphidae
52	Mammalia	Artiodactyla	Bovidae
53	Mammalia	Carnivora	Viverridae

1			
2	Mammalia	Primates	Cebidae
3	Mammalia	Didelphimorphia	Didelphidae
4	Mammalia	Artiodactyla	Cervidae
5	Mammalia	Primates	Lemuridae
6	Mammalia	Primates	Lemuridae
7	Mammalia	Rodentia	Dasyproctidae
8	Mammalia	Pilosa	Myrmecophagidae
9	Mammalia	Didelphimorphia	Didelphidae
10	Mammalia	Didelphimorphia	Didelphidae
11	Mammalia	Didelphimorphia	Didelphidae
12	Mammalia	Artiodactyla	Bovidae
13	Mammalia	Rodentia	Sciuridae
14	Mammalia	Carnivora	Felidae
15	Mammalia	Carnivora	Felidae
16	Mammalia	Primates	Pitheciidae
17	Mammalia	Diprotodontia	Petauridae
18	Mammalia	Rodentia	Sciuridae
19	Mammalia	Primates	Lemuridae
20	Mammalia	Primates	Lemuridae
21	Mammalia	Carnivora	Canidae
22	Mammalia	Dasyuromorphia	Dasyuridae
23	Mammalia	Primates	Cebidae
24	Mammalia	Primates	Cebidae
25	Mammalia	Primates	Cebidae
26	Mammalia	Primates	Pitheciidae
27	Mammalia	Primates	Lemuridae
28	Mammalia	Rodentia	Muridae
29	Mammalia	Rodentia	Muridae
30	Mammalia	Artiodactyla	Bovidae
31	Mammalia	Carnivora	Viverridae
32	Mammalia	Primates	Pitheciidae
33	Mammalia	Rodentia	Sciuridae
34	Mammalia	Rodentia	Sciuridae
35	Mammalia	Primates	Pitheciidae
36	Mammalia	Primates	Pitheciidae
37	Mammalia	Primates	Pitheciidae
38	Mammalia	Primates	Indriidae
39	Mammalia	Primates	Pitheciidae
40	Mammalia	Perissodactyla	Equidae
41	Mammalia	Primates	Hylobatidae
42	Mammalia	Diprotodontia	Macropodidae
43	Mammalia	Diprotodontia	Macropodidae
44	Mammalia	Artiodactyla	Suidae
45	Mammalia	Carnivora	Felidae
46	Mammalia	Lagomorpha	Leporidae
47	Mammalia	Primates	Cercopithecidae
48	Mammalia	Chiroptera	Molossidae
49	Mammalia	Chiroptera	Molossidae
50	Mammalia	Artiodactyla	Bovidae
51	Mammalia	Primates	Cebidae
52	Mammalia	Primates	Callitrichidae
53	Mammalia	Primates	Callitrichidae
54	Mammalia	Artiodactyla	Suidae
55	Mammalia	Primates	Cercopithecidae
56	Mammalia	Primates	Tarsiidae
57	Mammalia	Carnivora	Viverridae
58	Mammalia	Carnivora	Viverridae
59	Mammalia	Chiroptera	Pteropodidae
60	Mammalia	Carnivora	Felidae
	Mammalia	Diprotodontia	Macropodidae

1			
2	Mammalia	Carnivora	Felidae
3	Mammalia	Carnivora	Felidae
4	Mammalia	Rodentia	Muridae
5	Mammalia	Primates	Callitrichidae
6	Mammalia	Artiodactyla	Bovidae
7	Mammalia	Carnivora	Mustelidae
8	Mammalia	Primates	Cheirogaleidae
9	Mammalia	Primates	Loridae
10	Mammalia	Artiodactyla	Suidae
11	Mammalia	Primates	Cercopithecidae
12	Mammalia	Artiodactyla	Bovidae
13	Mammalia	Carnivora	Mustelidae
14	Mammalia	Rodentia	Muridae
15	Mammalia	Peramelemorphia	Peramelidae
16	Mammalia	Primates	Hominidae
17	Mammalia	Rodentia	Sciuridae
18	Mammalia	Primates	Cercopithecidae
19	Mammalia	Artiodactyla	Bovidae
20	Mammalia	Artiodactyla	Bovidae
21	Mammalia	Artiodactyla	Cervidae
22	Mammalia	Primates	Cercopithecidae
23	Mammalia	Rodentia	Muridae
24	Mammalia	Artiodactyla	Hippopotamidae
25	Mammalia	Primates	Cercopithecidae
26	Mammalia	Carnivora	Nandiniidae
27	Mammalia	Carnivora	Felidae
28	Mammalia	Artiodactyla	Cervidae
29	Mammalia	Artiodactyla	Bovidae
30	Mammalia	Artiodactyla	Bovidae
31	Mammalia	Rodentia	Sciuridae
32	Mammalia	Rodentia	Muridae
33	Mammalia	Carnivora	Canidae
34	Mammalia	Primates	Cercopithecidae
35	Mammalia	Primates	Cercopithecidae
36	Mammalia	Rodentia	Caviidae
37	Mammalia	Carnivora	Herpestidae
38	Mammalia	Primates	Cercopithecidae
39	Mammalia	Carnivora	Felidae
40	Mammalia	Diprotodontia	Macropodidae
41	Mammalia	Artiodactyla	Bovidae
42	Mammalia	Carnivora	Mustelidae
43	Mammalia	Diprotodontia	Macropodidae
44	Mammalia	Artiodactyla	Bovidae
45	Mammalia	Artiodactyla	Bovidae
46	Mammalia	Artiodactyla	Bovidae
47	Mammalia	Rodentia	Sciuridae
48	Mammalia	Perissodactyla	Equidae
49	Mammalia	Proboscidea	Elephantidae

1			
2	Mammalia	Cetacea	Phocoenidae
3	Mammalia	Macroscelidea	Macroscelididae
4	Mammalia	Primates	Cercopithecidae
5	Mammalia	Carnivora	Viverridae
6	Mammalia	Artiodactyla	Bovidae
7	Mammalia	Carnivora	Herpestidae
8	Mammalia	Primates	Hylobatidae
9	Mammalia	Primates	Cercopithecidae
10	Mammalia	Carnivora	Herpestidae
11	Mammalia	Rodentia	Muridae
12	Mammalia	Rodentia	Capromyidae
13	Mammalia	Carnivora	Viverridae
14	Mammalia	Rodentia	Sciuridae
15	Mammalia	Didelphimorphia	Didelphidae
16	Mammalia	Primates	Cebidae
17	Mammalia	Artiodactyla	Cervidae
18	Mammalia	Rodentia	Dasyproctidae
19	Mammalia	Artiodactyla	Bovidae
20	Mammalia	Carnivora	Procyonidae
21	Mammalia	Dasyuromorphia	Dasyuridae
22	Mammalia	Primates	Cercopithecidae
23	Mammalia	Artiodactyla	Giraffidae
24	Mammalia	Primates	Cercopithecidae
25	Mammalia	Rodentia	Muridae
26	Mammalia	Artiodactyla	Cervidae
27	Mammalia	Artiodactyla	Bovidae
28	Mammalia	Primates	Cercopithecidae
29	Mammalia	Primates	Cercopithecidae
30	Mammalia	Rodentia	Muridae
31	Mammalia	Carnivora	Ursidae
32	Mammalia	Carnivora	Herpestidae
33	Mammalia	Scandentia	Tupaiidae
34	Mammalia	Primates	Hylobatidae
35	Mammalia	Diprotodontia	Macropodidae
36	Mammalia	Artiodactyla	Bovidae
37	Mammalia	Diprotodontia	Macropodidae
38	Mammalia	Primates	Cercopithecidae
39	Mammalia	Rodentia	Dasyproctidae
40	Mammalia	Scandentia	Tupaiidae
41	Mammalia	Artiodactyla	Bovidae
42	Mammalia	Rodentia	Sciuridae
43	Mammalia	Perissodactyla	Equidae
44	Mammalia	Carnivora	Herpestidae
45	Mammalia	Rodentia	Sciuridae
46	Mammalia	Artiodactyla	Cervidae
47	Mammalia	Artiodactyla	Cervidae
48	Mammalia	Cetacea	Iniidae
49	Mammalia	Sirenia	Dugongidae

1			
2	Mammalia	Pilosa	Megalonychidae
3	Mammalia	Rodentia	Thryonomyidae
4	Mammalia	Artiodactyla	Tragulidae
5	Mammalia	Diprotodontia	Macropodidae
6	Mammalia	Diprotodontia	Macropodidae
7	Mammalia	Primates	Galagonidae
8	Mammalia	Rodentia	Sciuridae
9	Mammalia	Primates	Pitheciidae
10	Mammalia	Primates	Cercopithecidae
11	Mammalia	Chiroptera	Pteropodidae
12	Mammalia	Rodentia	Sciuridae
13	Mammalia	Primates	Cercopithecidae
14	Mammalia	Primates	Cercopithecidae
15	Mammalia	Carnivora	Mustelidae
16	Mammalia	Artiodactyla	Suidae
17	Mammalia	Primates	Cercopithecidae
18	Mammalia	Rodentia	Sciuridae
19	Mammalia	Chiroptera	Pteropodidae
20	Mammalia	Chiroptera	Pteropodidae
21	Mammalia	Artiodactyla	Tragulidae
22	Mammalia	Dasyuromorphia	Dasyuridae
23	Mammalia	Carnivora	Felidae
24	Mammalia	Primates	Cercopithecidae
25	Mammalia	Artiodactyla	Suidae
26	Mammalia	Artiodactyla	Cervidae
27	Mammalia	Diprotodontia	Macropodidae
28	Mammalia	Carnivora	Felidae
29	Mammalia	Primates	Cercopithecidae
30	Mammalia	Rodentia	Muridae
31	Mammalia	Rodentia	Muridae
32	Mammalia	Primates	Galagonidae
33	Mammalia	Primates	Cercopithecidae
34	Mammalia	Diprotodontia	Macropodidae
35	Mammalia	Chiroptera	Pteropodidae
36	Mammalia	Carnivora	Herpestidae
37	Mammalia	Carnivora	Herpestidae
38	Mammalia	Rodentia	Dasyproctidae
39	Mammalia	Artiodactyla	Bovidae
40	Mammalia	Carnivora	Canidae
41	Mammalia	Artiodactyla	Bovidae
42	Mammalia	Rodentia	Sciuridae
43	Mammalia	Carnivora	Herpestidae
44	Mammalia	Chiroptera	Pteropodidae
45	Mammalia	Artiodactyla	Bovidae
46	Mammalia	Artiodactyla	Bovidae
47	Mammalia	Rodentia	Muridae
48	Mammalia	Rodentia	Muridae
49	Mammalia	Rodentia	Sciuridae
50	Mammalia	Rodentia	Sciuridae
51	Mammalia	Rodentia	Sciuridae
52	Mammalia	Rodentia	Sciuridae
53	Mammalia	Rodentia	Sciuridae
54	Mammalia	Rodentia	Sciuridae
55	Mammalia	Rodentia	Sciuridae
56	Mammalia	Rodentia	Sciuridae
57	Mammalia	Rodentia	Sciuridae
58	Mammalia	Rodentia	Sciuridae
59	Mammalia	Rodentia	Sciuridae
60	Mammalia	Rodentia	Sciuridae

1			
2	Mammalia	Primates	Callitrichidae
3	Mammalia	Monotremata	Tachyglossidae
4	Mammalia	Sirenia	Trichechidae
5	Mammalia	Artiodactyla	Bovidae
6	Mammalia	Artiodactyla	Bovidae
7	Mammalia	Artiodactyla	Bovidae
8	Mammalia	Artiodactyla	Bovidae
9	Mammalia	Artiodactyla	Bovidae
10	Mammalia	Artiodactyla	Bovidae
11	Mammalia	Artiodactyla	Bovidae
12	Mammalia	Artiodactyla	Bovidae
13	Mammalia	Artiodactyla	Bovidae
14	Mammalia	Artiodactyla	Bovidae
15	Mammalia	Artiodactyla	Camelidae
16	Mammalia	Artiodactyla	Cervidae
17	Mammalia	Artiodactyla	Hippopotamidae
18	Mammalia	Artiodactyla	Suidae
19	Mammalia	Artiodactyla	Suidae
20	Mammalia	Carnivora	Felidae
21	Mammalia	Carnivora	Felidae
22	Mammalia	Carnivora	Felidae
23	Mammalia	Carnivora	Herpestidae
24	Mammalia	Carnivora	Hyaenidae
25	Mammalia	Carnivora	Hyaenidae
26	Mammalia	Carnivora	Otariidae
27	Mammalia	Carnivora	Viverridae
28	Mammalia	Perissodactyla	Tapiridae
29	Mammalia	Perissodactyla	Tapiridae
30	Mammalia	Perissodactyla	Tapiridae
31	Mammalia	Primates	Atelidae
32	Mammalia	Primates	Callitrichidae
33	Mammalia	Primates	Callitrichidae
34	Mammalia	Primates	Callitrichidae
35	Mammalia	Primates	Callitrichidae
36	Mammalia	Primates	Callitrichidae
37	Mammalia	Primates	Callitrichidae
38	Mammalia	Primates	Callitrichidae
39	Mammalia	Primates	Callitrichidae
40	Mammalia	Primates	Callitrichidae
41	Mammalia	Primates	Callitrichidae
42	Mammalia	Primates	Callitrichidae
43	Mammalia	Primates	Callitrichidae
44	Mammalia	Primates	Callitrichidae
45	Mammalia	Primates	Cebidae
46	Mammalia	Primates	Cebidae
47	Mammalia	Primates	Cebidae
48	Mammalia	Primates	Cercopithecidae
49	Mammalia	Primates	Cercopithecidae
50	Mammalia	Primates	Cercopithecidae
51	Mammalia	Primates	Cercopithecidae
52	Mammalia	Primates	Cercopithecidae
53	Mammalia	Primates	Cercopithecidae
54	Mammalia	Primates	Cercopithecidae
55	Mammalia	Primates	Cercopithecidae
56	Mammalia	Primates	Cheirogaleidae
57	Mammalia	Primates	Hylobatidae
58	Mammalia	Primates	Hylobatidae
59	Mammalia	Primates	Hylobatidae
60	Mammalia	Primates	Hylobatidae
	Mammalia	Primates	Hylobatidae

1			
2	Mammalia	Primates	Lemuridae
3	Mammalia	Primates	Pitheciidae
4	Mammalia	Rodentia	Dasyproctidae
5	Mammalia	Rodentia	Erethizontidae
6	Mammalia	Rodentia	Muridae
7	Mammalia	Rodentia	Muridae
8	Mammalia	Rodentia	Muridae
9	Mammalia	Rodentia	Muridae
10	Mammalia	Rodentia	Sciuridae
11	Mammalia	Rodentia	Sciuridae
12	Mammalia	Rodentia	Sciuridae
13	Mammalia	Rodentia	Sciuridae
14	Mammalia	Rodentia	Ctenomyidae
15	Amphibia	Anura	Ranidae
16	Reptilia	Squamata	Phyllodactylidae
17	Reptilia	Squamata	Phyllodactylidae
18	Reptilia	Squamata	Phyllodactylidae
19	Reptilia	Squamata	Phyllodactylidae
20	Reptilia	Squamata	Phyllodactylidae
21	Reptilia	Squamata	Phyllodactylidae
22	Reptilia	Squamata	Phyllodactylidae
23	Reptilia	Squamata	Carphodactylidae
24	Reptilia	Squamata	Phyllodactylidae
25	Reptilia	Squamata	Gekkonidae
26	Reptilia	Squamata	Phyllodactylidae
27	Reptilia	Squamata	Diplodactylidae
28	Reptilia	Squamata	Phyllodactylidae
29	Reptilia	Squamata	Gekkonidae
30	Reptilia	Squamata	Gekkonidae
31	Reptilia	Squamata	Phyllodactylidae
32	Reptilia	Squamata	Gekkonidae
33	Reptilia	Squamata	Phyllodactylidae
34	Reptilia	Squamata	Gekkonidae
35	Reptilia	Squamata	Diplodactylidae
36	Reptilia	Squamata	Gekkonidae
37	Reptilia	Squamata	Diplodactylidae
38	Reptilia	Squamata	Diplodactylidae
39	Reptilia	Squamata	Diplodactylidae
40	Reptilia	Squamata	Phyllodactylidae
41	Reptilia	Squamata	Gekkonidae
42	Reptilia	Squamata	Diplodactylidae
43	Reptilia	Squamata	Carphodactylidae
44	Reptilia	Squamata	Gekkonidae
45	Reptilia	Squamata	Diplodactylidae
46	Reptilia	Squamata	Gekkonidae
47	Reptilia	Squamata	Diplodactylidae
48	Reptilia	Squamata	Gekkonidae
49	Reptilia	Squamata	Phyllodactylidae
50	Reptilia	Squamata	Gekkonidae
51	Reptilia	Squamata	Carphodactylidae
52	Reptilia	Squamata	Gekkonidae
53	Reptilia	Squamata	Gekkonidae
54	Reptilia	Squamata	Gekkonidae
55	Reptilia	Squamata	Gekkonidae
56	Reptilia	Squamata	Gekkonidae
57	Reptilia	Squamata	Gekkonidae
58	Reptilia	Squamata	Phyllodactylidae
59	Reptilia	Squamata	Gekkonidae
60	Reptilia	Squamata	Gekkonidae

1			
2	Reptilia	Squamata	Gekkonidae
3	Reptilia	Squamata	Gekkonidae
4	Reptilia	Squamata	Gekkonidae
5	Reptilia	Squamata	Gekkonidae
6	Reptilia	Squamata	Gekkonidae
7	Reptilia	Squamata	Phyllodactylidae
8	Reptilia	Squamata	Diplodactylidae
9	Reptilia	Squamata	Gekkonidae
10	Reptilia	Squamata	Phyllodactylidae
11	Reptilia	Squamata	Diplodactylidae
12	Reptilia	Squamata	Diplodactylidae
13	Aves	Sphenisciformes	Spheniscidae
14	Mammalia	Primates	Cercopithecidae
15	Reptilia	Squamata	Tropiduridae
16	Reptilia	Squamata	Iguanidae
17	Mammalia	Chiroptera	Vespertilionidae
18	Mammalia	Chiroptera	Vespertilionidae
19	Mammalia	Chiroptera	Vespertilionidae
20	Mammalia	Chiroptera	Vespertilionidae
21	Mammalia	Chiroptera	Vespertilionidae
22	Mammalia	Chiroptera	Vespertilionidae
23	Mammalia	Chiroptera	Vespertilionidae
24	Mammalia	Chiroptera	Vespertilionidae
25	Mammalia	Chiroptera	Vespertilionidae
26	Mammalia	Chiroptera	Vespertilionidae
27	Mammalia	Chiroptera	Vespertilionidae
28	Mammalia	Chiroptera	Vespertilionidae
29	Mammalia	Chiroptera	Vespertilionidae
30	Mammalia	Chiroptera	Vespertilionidae
31	Mammalia	Chiroptera	Vespertilionidae
32	Mammalia	Chiroptera	Molossidae
33	Mammalia	Chiroptera	Vespertilionidae
34	Mammalia	Chiroptera	Vespertilionidae
35	Mammalia	Chiroptera	Vespertilionidae
36	Mammalia	Chiroptera	Vespertilionidae
37	Mammalia	Chiroptera	Megadermatidae
38	Mammalia	Chiroptera	Vespertilionidae
39	Mammalia	Chiroptera	Pteropodidae
40	Mammalia	Chiroptera	Rhinolophidae
41	Mammalia	Chiroptera	Vespertilionidae
42	Mammalia	Chiroptera	Vespertilionidae
43	Mammalia	Chiroptera	Vespertilionidae
44	Mammalia	Chiroptera	Vespertilionidae
45	Mammalia	Chiroptera	Vespertilionidae
46	Reptilia	Squamata	Agamidae
47	Reptilia	Squamata	Agamidae
48	Reptilia	Squamata	Agamidae
49	Reptilia	Squamata	Agamidae
50	Reptilia	Squamata	Agamidae
51	Mammalia	Lagomorpha	Leporidae
52	Reptilia	Squamata	Scincidae
53	Reptilia	Squamata	Anguidae
54	Reptilia	Squamata	Diplodactylidae
55	Reptilia	Squamata	Agamidae
56	Reptilia	Squamata	Scincidae
57	Reptilia	Squamata	Scincidae
58	Aves	Galliformes	Phasianidae
59	Mammalia	Diprotodontia	Tarsipedidae
60	Reptilia	Testudines	Geoemydidae

1			
2	Amphibia	Anura	Dicroglossidae
3	Amphibia	Anura	Dicroglossidae
4	Amphibia	Anura	Bufonidae
5	Reptilia	Squamata	Lacertidae
6	Reptilia	Squamata	Lacertidae
7	Amphibia	Urodela	Salamandridae
8	Amphibia	Anura	Ranidae
9	Reptilia	Squamata	Lacertidae
10	Aves	Psittaciformes	Psittaculidae
11	Aves	Psittaciformes	Psittaculidae
12	Aves	Psittaciformes	Psittaculidae
13	Aves	Psittaciformes	Psittaculidae
14	Aves	Psittaciformes	Cacatuidae
15	Aves	Psittaciformes	Psittacidae
16	Aves	Psittaciformes	Psittaculidae
17	Aves	Psittaciformes	Cacatuidae
18	Aves	Psittaciformes	Nestoridae
19	Aves	Psittaciformes	Psittacidae
20	Aves	Psittaciformes	Psittacidae
21	Aves	Psittaciformes	Psittacidae
22	Aves	Psittaciformes	Psittacidae
23	Aves	Psittaciformes	Psittacidae
24	Aves	Psittaciformes	Psittacidae
25	Aves	Psittaciformes	Psittacidae
26	Aves	Psittaciformes	Psittacidae
27	Aves	Psittaciformes	Psittacidae
28	Aves	Psittaciformes	Psittacidae
29	Aves	Psittaciformes	Psittacidae
30	Aves	Psittaciformes	Psittacidae
31	Aves	Psittaciformes	Psittacidae
32	Aves	Psittaciformes	Psittacidae
33	Aves	Psittaciformes	Psittacidae
34	Aves	Psittaciformes	Psittacidae
35	Aves	Psittaciformes	Psittacidae
36	Aves	Psittaciformes	Psittacidae
37	Aves	Psittaciformes	Psittacidae
38	Aves	Psittaciformes	Psittacidae
39	Aves	Psittaciformes	Psittacidae
40	Aves	Psittaciformes	Psittacidae
41	Aves	Psittaciformes	Psittacidae
42	Aves	Psittaciformes	Psittacidae
43	Amphibia	Anura	Bufonidae
44	Amphibia	Anura	Bufonidae
45	Amphibia	Anura	Dicroglossidae
46	Amphibia	Anura	Hylidae
47	Amphibia	Anura	Ranidae
48	Amphibia	Anura	Ranidae
49	Amphibia	Anura	Rhacophoridae
50	Amphibia	Anura	Microhylidae
51	Amphibia	Anura	Rhacophoridae
52	Amphibia	Anura	Microhylidae
53	Amphibia	Anura	Dicroglossidae
54	Amphibia	Anura	Ranidae
55	Amphibia	Anura	Dicroglossidae
56	Amphibia	Anura	Ranidae
57	Amphibia	Anura	Ranidae
58	Amphibia	Anura	Ranidae
59	Amphibia	Anura	Ranidae
60	Amphibia	Anura	Ranidae

1			
2	Amphibia	Anura	Megophryidae
3	Amphibia	Anura	Rhacophoridae
4	Amphibia	Anura	Rhacophoridae
5	Reptilia	Squamata	Agamidae
6	Reptilia	Squamata	Anguidae
7	Amphibia	Urodela	Hynobiidae
8	Amphibia	Anura	Ranidae
9	Amphibia	Urodela	Salamandridae
10	Amphibia	Anura	Ranidae
11	Amphibia	Anura	Hylidae
12	Amphibia	Anura	Hylidae
13	Amphibia	Anura	Dicroglossidae
14	Amphibia	Anura	Ranidae
15	Amphibia	Anura	Dicroglossidae
16	Amphibia	Anura	Mantellidae
17	Amphibia	Anura	Myobatrachidae
18	Amphibia	Anura	Mantellidae
19	Amphibia	Anura	Bufonidae
20	Amphibia	Anura	Ranidae
21	Amphibia	Urodela	Salamandridae
22	Reptilia	Squamata	Scincidae
23			
24			
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	Maximum Longevity (in years)	Origin Of Data	Mean Body Mass (grams)
1			
2			
3	20	captive	1498.950381
4	12	captive	13.47291824
5	65	captive	322000
6	16	wild	22.535
7	30	captive	9.746323699
8	60	wild	31600
9	4	captive	45.72
10	15	captive	2004.183
11	10	captive	80
12	25	captive	20000
13	5	captive	38.87446497
14	5	captive	3.418221852
15	25	wild	210.2457598
16	2	captive	1.536670324
17	10	captive	33.95046095
18	25	captive	13.70324283
19	15	wild	7.165977391
20	20	captive	125.612636
21	8	captive	20.355
22	15	captive	3
23	6	NA	7
24	15	wild	20.31171846
25	20	captive	113.501
26	5	captive	35.53869551
27	30	captive	277500
28	40	captive	422.95
29	10	wild	9.594786586
30	10	captive	108.2056902
31	8	wild	19.765
32	7	captive	0.644373763
33	40	wild	113
34	10	captive	13.95098171
35	7	captive	3.32
36	12	wild	184.6015301
37	3	captive	2.704039383
38	8	wild	75.95
39	25	captive	185.0051702
40	3	wild	2.112097795
41	15	captive	35.26734921
42	20.7	wild	72.5
43	10	captive	87.726
44	80	wild	27500
45	7	captive	4.806682642
46	18	captive	923.4073717
47	50	captive	11260
48	50	captive	600
49	10	captive	4.13778418
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			

1			
2	15	captive	8.980409747
3	15	captive	408.0230584
4	20	captive	3.535
5	20	captive	3.535
6	20	captive	0.433625335
7	10	captive	9.163
8	20	captive	12.51261182
9	4.75	captive	8866.732288
10	40	captive	20.57
11	1.9	wild	131.7019271
12	10	captive	35.57661937
13	12	wild	42.6
14	28.5	captive	29.57575693
15	15	captive	23.25139249
16	15	captive	18.7778998
17	10	captive	128.2330583
18	20	captive	970.6280923
19	12	wild	649.2473563
20	21.1	captive	40.26860078
21	20	wild	20.77456716
22	6.7	captive	57.91682777
23	20	captive	52.90734122
24	20	captive	56.59297618
25	15	captive	35.11424502
26	10	captive	4.859113849
27	20	wild	183.535302
28	8	captive	90.84992294
29	22	captive	305.1752359
30	20	captive	NA
31	20	captive	649.2473563
32	15	captive	15.11057113
33	25	captive	3076.02116
34	20	captive	42.228
35	30	captive	20.18366364
36	25	captive	1530.793593
37	15	captive	4.643
38	30	captive	184.6015301
39	38	captive	3175
40	8	wild	150
41	6	wild	3.1
42	20	wild	2600
43	15	wild	33.191
44	5	wild	59.278
45	5	wild	28.992
46	32	captive	39.15
47	10	captive	892.72
48	13	wild	175.412
49	9	wild	55.39

1			
2	3	wild	5.729
3	0.6	wild	1.154
4	2	wild	27.031
5	3.5	wild	4.637
6			
7	5	captive	30.901
8	11.6	captive	78.816
9	6	wild	13.866
10			
11	4	wild	85.304
12	10	wild	54.285
13	17	wild	24.089
14	10	wild	86.907
15			
16	15	wild	153.622
17	11	wild	0.724
18	5	wild	184.732
19			
20	12	wild	9.84
21	12	wild	23.035
22	9	captive	6.691
23	16	captive	9.187
24			
25	11	wild	190.621
26	21	wild	41.53
27	12	captive	15.315
28	20	wild	8900
29			
30	25	captive	46.02339344
31	9	captive	239.3659397
32	30	captive	6.56
33	20	captive	173.3243432
34			
35	20	wild	117.8745747
36	15	captive	154.198
37	20	captive	1785.325848
38			
39	100	wild	277500
40	69	captive	4262.556769
41	20.5	captive	2.854
42	25.5	captive	524.0287481
43			
44	10	wild	49.606
45	4	wild	3.934
46	24	captive	8884.75575
47			
48	50	wild	2600
49	8	captive	3.173509825
50	17	captive	0.544
51	13.6	captive	15.03001122
52	6	wild	5.235839663
53			
54	10	wild	68.522
55	9	wild	16.237
56	9	wild	950
57	5	wild	1.097324605
58			
59	55	wild	3450
60	50	captive	503.5006088
	65	captive	196.0479395

1			
2	7	wild	7.664145412
3	60	captive	1750
4	10	wild	13.6563634
5	20	captive	4156.676762
6	25	wild	208.5784919
7	33	wild	945.5
8	10	wild	100
9	12	wild	342.5
10	15.8	wild	88.7
11	10	wild	10.4
12	34	wild	580
13	8	wild	334
14	6.4	wild	194
15	43	wild	3115.8
16	7	wild	453
17	13	wild	37.85
18	17	wild	505
19	42	wild	2150
20	15	wild	54
21	14.8	wild	115
22	16	wild	670
23	15.3	wild	114
24	25	wild	520
25	12.8	wild	47
26	9.5	wild	10
27	12	wild	24.5
28	14	wild	25.42
29	13	wild	28
30	7	wild	29.35
31	6	wild	8.625
32	8	wild	6
33	11.1	wild	27.7
34	28	captive	2042.5
35	47	captive	2681
36	20	captive	177
37	40	captive	7500
38	19	captive	205
39	30	captive	100
40	9	captive	376
41	14	captive	41
42	25	captive	42
43	26.2	captive	80.8
44	9	captive	16.65
45	12	captive	33.3
46	9.1	wild	17.1
47	20	captive	161.9823631
48	30	captive	1338.379265
49	20	wild	32.9152562

1			
2	30	captive	237.5663683
3	50	captive	106.97
4	60	wild	2481.760157
5	22	captive	475.0168703
6	15	captive	71.204
7	15	captive	475.0168703
8	12	captive	10.4
9	10	captive	94.71796654
10	100	captive	428.22
11	25	captive	812.78
12	30	captive	75000
13	15	wild	3.173997313
14	8.3	captive	17.68224743
15	8	captive	61.27208199
16	10	captive	16.79033662
17	20	wild	391.3715563
18	22	captive	383.570945
19	41	captive	6500
20	9	captive	11.48132388
21	5	captive	65.09742502
22	8	captive	29.15988981
23	100	wild	2080
24	12	captive	225.6463311
25	60	wild	1590.772327
26	10	wild	21.935
27	7	wild	354.5
28	20	captive	2.110581244
29	10	captive	8.354
30	15	captive	1.287161288
31	10	captive	0.364
32	20	captive	65.81258196
33	30	captive	215
34	15	wild	23.66837731
35	20	captive	196
36	28.3	captive	8866.732288
37	14	wild	298
38	18.3	wild	1940.1
39	25	wild	408.6
40	18	wild	1558
41	47.2	wild	3753
42	13.5	wild	3697.5
43	21.3	wild	135
44	10.3	wild	35.5
45	14.6	wild	561.25
46	24.1	wild	3405
47	9.2	wild	122
48	29.5	wild	1208.8
49	19.3	wild	27

1			
2	7	wild	10
3	15.2	wild	483.8
4	13.5	wild	1406.5
5	15	wild	120
6	15	wild	120
7	8.1	wild	96
8	18.4	wild	895.86
9	10.8	wild	289
10	27	wild	377
11	28.2	wild	544.1
12	28.2	wild	544.1
13	9.5	wild	1097.5
14	10	wild	222
15	10	wild	222
16	4.8	wild	55
17	11	wild	150
18	22.6	wild	1077.3
19	13.7	wild	336
20	13.7	wild	336
21	9.5	wild	9.8
22	24	wild	715
23	22.5	wild	1817
24	16.2	wild	184
25	16.2	wild	184
26	10.2	wild	43.3
27	14.6	wild	105
28	9.2	wild	52
29	4.9	wild	48.5
30	4.9	wild	48.5
31	20.3	wild	526.64
32	10	wild	79.3
33	33.9	wild	931.5
34	33.9	wild	931.5
35	13.2	wild	56.5
36	17.8	wild	15
37	24.9	wild	980.64
38	10.1	wild	11
39	10.1	wild	11
40	4.8	wild	32.6
41	17.2	wild	858
42	11	wild	8.1
43	8.1	wild	12.8
44	8.1	wild	12.8
45	17.2	wild	79.7
46	18.7	wild	400
47	43	wild	1400
48	7.8	wild	45
49	7.8	wild	45
50	11	wild	40.4
51	8.9	wild	141
52	19.9	wild	135
53	20.2	wild	315
54	20.2	wild	315
55	12.6	wild	270
56	16.1	wild	45
57	11.2	wild	737.1
58	11.2	wild	737.1
59	31.3	wild	119
60	24	wild	500
	15	wild	78.7

1			
2	6	wild	280
3	11.9	wild	27.5
4	11.1	wild	32.8
5	11.2	wild	3.9
6	8.9	wild	3.5
7	10	wild	31
8	6.1	wild	5
9	15.8	wild	158
10	8.8	wild	3.3
11	30.8	wild	168.6
12	11	wild	35
13	9.1	wild	17.6
14	15	wild	53
15	30.7	wild	1362
16	11.2	wild	266
17	20.9	wild	251
18	21.8	wild	534
19	36	wild	180
20	27.2	wild	1134
21	8.2	wild	22.4
22	13.1	wild	434
23	24.5	wild	1870
24	12.6	wild	5.9
25	9.9	wild	13.5
26	14.6	wild	75.3
27	5	wild	34
28	5.9	wild	15.7
29	30	wild	691
30	23.8	wild	408.6
31	20.9	wild	197.5
32	25.5	wild	1739.2
33	32	wild	1362
34	29	wild	1191.2
35	13.2	wild	130
36	27.6	wild	806
37	12.1	wild	12.6
38	10.8	wild	15.7
39	12.6	wild	94.71
40	17.6	wild	750
41	25.8	wild	131.7
42	9.1	wild	3.1
43	12.6	wild	38.4
44	8.2	wild	30
45	9	wild	8.9
46	9.1	wild	5.3
47	11.5	wild	9.5
48	6.1	wild	9.7
49	11.8	wild	12.2

1			
2	10	wild	12
3	8.1	wild	14.3
4	8.2	wild	10.6
5	11	wild	18.8
6	9	wild	9.7
8	7.8	wild	16.1
9	8.2	wild	13.9
10	8.6	wild	10.1
12	14.9	wild	21.1
13	13.3	wild	25.82
14	14.9	wild	32.1
15	11.9	wild	25.6
17	8.7	wild	26.5
18	22.4	wild	607
19	23.7	wild	1500
20	23.2	wild	420
22	12	wild	2148
23	27.5	wild	2806.65
24	7	wild	2.6
25	11.2	wild	3
27	4.1	wild	3.3
28	29	wild	964
29	25.7	wild	112
31	35.8	wild	148
32	22	wild	275.6
33	28.6	wild	373
34	23.9	wild	550
36	23.5	wild	1349
37	28.8	wild	1687
38	7.6	wild	81.9
39	8.8	wild	495.5
41	36.6	wild	3890
42	9.9	wild	15.15
43	10.2	wild	28.4
45	4.8	wild	33
46	8.1	wild	50.2
47	16.7	wild	294
48	6.9	wild	11.45
50	10.3	wild	12.5
51	6.5	wild	12.5
52	4.1	wild	14
53	7.1	wild	15.2
55	10.8	wild	16.6
56	9.1	wild	17.1
57	5.1	wild	18.8
58	3.9	wild	19.6
59	15.6	wild	32.1
60	9.6	wild	41.8

1			
2	8.8	wild	18.3
3	6.8	wild	19.25
4	8.6	wild	24
5	9.2	wild	25.5
6	9.2	wild	26.2
7	9.2	wild	26.2
8	5.9	wild	26.6
9	16.1	wild	39.5
10	9.8	wild	65.3
11	9.1	wild	14.2
12	12.1	wild	19
13	12.2	wild	20.15
14	11.8	wild	23.24
15	8.9	wild	36.62
16	12.2	wild	36.9
17	23.1	wild	111
18	13.9	wild	152.6
19	17.9	wild	34.5
20	9.5	wild	62.2
21	4.8	wild	62.7
22	7.8	wild	67.65
23	10.6	wild	98.6
24	9	wild	15.9
25	8.9	wild	7
26	10.6	wild	7
27	8	wild	7.5
28	10.2	wild	7.5
29	6.2	wild	8.2
30	10.1	wild	8.5
31	10.7	wild	8.85
32	8.6	wild	9.2
33	11	wild	9.8
34	9.1	wild	10
35	9	wild	10.4
36	12.2	wild	10.9
37	4.9	wild	11.5
38	8.1	wild	12.5
39	6.9	wild	14
40	8.1	wild	15
41	11.9	wild	22.5
42	6.3	wild	5.5
43	11.9	wild	29
44	4	wild	35.2
45	7.9	wild	40
46	9.2	wild	17.5
47	7.3	wild	38.9
48	10.8	wild	27.8
49	9	wild	29.6
50	10.5	wild	30.5

1			
2	5.6	wild	78.5
3	7	wild	10.4
4	6.9	wild	11
5	9.1	wild	13.5
6	13.6	wild	20.9
7	13.6	wild	23.4
8	11.9	wild	28.5
9	11.1	wild	39.9
10	12	wild	8.65
11	9.1	wild	10
12	13.5	wild	11.3
13	10.9	wild	12
14	9.8	wild	12
15	16.8	wild	12
16	10.2	wild	17
17	32.7	wild	593.2
18	7.8	wild	37.4
19	16.1	wild	56
20	15.9	wild	62
21	11	wild	65
22	13	wild	364
23	42.1	wild	2800
24	43.7	wild	3232
25	18	wild	45.2
26	22.8	wild	307.6
27	29	wild	337.8
28	8	captive	20.21390497
29	25	wild	10.03980745
30	50	captive	4675
31	16	captive	128.2330583
32	140	captive	530.04
33	62	wild	3150
34	6.6	wild	35.7
35	14	wild	4250
36	15	captive	4761.529269
37	21.1	captive	67.4689274
38	27	captive	2400
39	15	captive	210
40	12	captive	610
41	25	captive	770
42	15	wild	550
43	45	captive	5400
44	25	captive	95
45	25	captive	295.6396253
46	19	captive	1345.54
47	3	wild	18.60570691
48	15	wild	38.514
49	17	wild	50.096

1			
2	21	captive	1.308166434
3	22	captive	3518.326683
4	10	captive	2.769839244
5	10	captive	8.803114506
6			
7	187	captive	44300
8	20	captive	134.3149646
9	20	captive	507.3850445
10			
11	20	captive	51000
12	20	captive	13260.55386
13	6	wild	2.188879305
14	7	wild	13.41799941
15			
16	17	captive	70.09257785
17	20.2	captive	160
18	5	wild	1.091111892
19			
20	16	wild	4305
21	3.5	wild	10.04051849
22	5	captive	18.72954043
23	8	wild	6.762044184
24			
25	5	wild	14.54062077
26	3	wild	9.758817189
27	6	wild	2.669443286
28			
29	11	wild	17.885
30	8	wild	11.413
31	11	wild	4.280958673
32	18	captive	9.393
33	9	wild	25.235
34			
35	25	wild	15.315
36	20	captive	119.0216015
37	20	captive	28.01231343
38			
39	25	captive	789.0849075
40	3	captive	0.828315492
41	4	captive	2.001767494
42	14	wild	48.8436033
43			
44	27	captive	60.756
45	40	captive	47.09
46	36	captive	39.321
47	28	captive	29.317
48			
49	20	captive	2.366
50	8	wild	7.769
51	29	captive	2.366
52	22	captive	3.024
53			
54	18.6	captive	68.522
55	9	wild	7.521
56	25	captive	24.09
57	25	captive	50.096
58			
59	25	captive	155.707
60	1.5	wild	3.934
	14.8	captive	165.277

1			
2	11.4	captive	41.193
3	12.8	captive	24.854
4	12.8	captive	128.797
5	5	wild	25.343
6	20	captive	81.209
8	24.8	captive	502.414
9	12.11	captive	111.427
10	15.11	captive	24.854
11	5	captive	0.354
12	6	wild	115
13	80	captive	10500
14	48	captive	4800
15	83	captive	390
16	3	captive	5.4
17	4	captive	11.6
18	13.7	wild	385.1596287
19	20	captive	113.7295279
20	17	captive	174.2438073
21	15.8	captive	38.80377037
22	24.1	captive	402.471733
23	8.4	captive	15.78299513
24	25	captive	166.0634204
25	13.1	wild	292.7517273
26	33.8	captive	276.6452737
27	10.6	captive	32.81211577
28	22.4	captive	70.41316211
29	16	wild	4.295872999
30	52	captive	907.6228638
31	23.8	wild	103.7667013
32	9.6	wild	3.591830031
33	13	wild	252.3480772
34	11.6	captive	669.6558399
35	15	captive	125.2524863
36	33.3	captive	146.9656111
37	32.3	captive	125.2524863
38	20.2	captive	216.1570628
39	20.7	captive	400.5547493
40	100	captive	211.15
41	27	captive	1105.872418
42	14.8	captive	65.30881139
43	19	captive	91.50723365
44	15.3	wild	123.0938404
45	27.2	captive	517.5183107
46	26	wild	1133.008695
47	24.4	captive	211.4340692
48	20	captive	1038.582307
49	34.4	captive	1095.016387
50	26.2	captive	2290.032263

1			
2	15.8	captive	383.570945
3	25.4	captive	252.3480772
4	22.5	captive	3551.655715
5	23.6	captive	53.21382779
6	23.2	captive	669.6558399
7	35	captive	1338.379265
8	16.1	captive	1355.631649
9	20.6	captive	810.4798714
10	21.2	captive	18.06600561
11	16.9	captive	475.0168703
12	31	captive	1943.472402
13	40	wild	97500
14	22.6	captive	3358.455804
15	17.4	wild	252.3480772
16	30	wild	12293.95028
17	18	captive	69.34301372
18	32.8	captive	NA
19	100	wild	395000
20	16.9	captive	1530.793593
21	32.3	captive	252.3480772
22	12.7	captive	799.324286
23	21	wild	1754
24	11	wild	5.8
25	10	captive	1.07
26	4	wild	0.831
27	10.11	captive	1.007
28	5	captive	0.777
29	8	captive	0.544
30	12	captive	1.352
31	4	wild	1.07
32	4	wild	0.777
33	5	captive	1.137
34	8	wild	1.681
35	6	wild	3.698
36	1	wild	1.587409695
37	8	wild	260.5791953
38	18	wild	107.750321
39	8	wild	4.899984096
40	6	wild	4.54640363
41	9	wild	6.83288276
42	8	wild	3.737768158
43	6	wild	4.831253478
44	7	wild	5.77027267
45	6	wild	3.225099611
46	6	wild	3.318378089
47	6	wild	5.156073268
48	6	wild	4.158998161
49	3.5	wild	1.244

1			
2	15.1	captive	1013.271
3	57.5	wild	112500
4	17	wild	32.933
5	12	wild	2.999
6	17	wild	3.639818247
7	8	captive	5.149660956
8	4	wild	2.399
9	23	captive	6.088868022
10	6	wild	30.15
11	2	captive	12.70834344
12	1.6	captive	0.7
13	30	wild	136250
14	36	captive	94.026
15	20	captive	61.62278447
16	17	wild	20.629
17	45	wild	201.5629559
18	1.6	captive	5.13799878
19	2.5	captive	7.028924608
20	17	wild	15.9
21	5	wild	19.14352095
22	15	captive	47.64360792
23	5	wild	9.84
24	5	wild	8.098419895
25	4	wild	8.752552682
26	4	wild	7.097269672
27	10.2	captive	1.246760657
28	16	wild	8.437181789
29	29	captive	9.665831312
30	4	wild	1.418324844
31	18.5	captive	25.32735339
32	35.9	wild	98.1
33	31	wild	36.9
34	70	captive	298.7
35	20	captive	5.251
36	15	captive	1469.030383
37	46	wild	268
38	45	wild	795
39	13	wild	6.338238387
40	10	wild	19.5
41	7	wild	4000
42	5.7	captive	155
43	20	captive	34.24724286
44	9	wild	13.32580998
45	23	wild	907.2
46	22.9	wild	99
47	27.1	wild	110.4
48	26.2	wild	178
49	11.3	wild	19

1			
2	22.5	wild	1715
3	6.2	wild	11
4	2	wild	2.787947639
5	11	captive	50.096
6	6	captive	9.377484046
7	8.6	captive	3.379955313
8	9	captive	3.534737611
9	9.2	captive	2.414791575
10	6.7	captive	14.07020896
11	35	captive	85.87591867
12	40	captive	373.12
13	40	wild	3181
14	177	captive	175000
15	100	captive	4300
16	34	captive	212.598
17	20	wild	24.48224735
18	16	wild	25.06659981
19	20	captive	20.92355486
20	5	wild	0.979
21	50	wild	110
22	3.8	captive	70.166
23	15.3	captive	14.031
24	27	wild	442500
25	31	wild	424.8
26	32	captive	683
27	8	captive	66.5
28	50.7	captive	67.5
29	50.6	captive	230
30	1.9	wild	5.058292033
31	1.2	wild	1.92802085
32	33	wild	828.0475926
33	14	wild	91.50723365
34	20	captive	1481.274796
35	30.1	captive	21600
36	80	captive	140000
37	100	wild	205000
38	17.8	captive	40.10234447
39	40	wild	11170
40	32	wild	5000
41	41	wild	9000
42	28	wild	17500
43	44	wild	135000
44	50.53	captive	867.5
45	9.3	captive	46
46	36.45	captive	92.6
47	34.5	captive	1250
48	30.1	captive	1868
49	18	captive	584

1			
2	37.44	captive	104
3	48.1	captive	4850.5
4	26.8	captive	124.5
5	34.12	captive	278
6	15.3	captive	1150
7	43.45	captive	567
8	15.3	captive	116
9	11.5	captive	70.8
10	12.2	captive	61.4
11	15.1	captive	153
12	35.24	captive	360
13	26.54	captive	41.4
14	8.5	captive	30
15	12	captive	44
16	25.41	captive	38.6
17	27.63	captive	865
18	20.4	captive	4000
19	15.3	captive	86.2
20	10.5	captive	35
21	20	captive	559
22	11.3	captive	83
23	31.32	captive	232.5
24	49	captive	451
25	14.9	captive	117
26	34.3	captive	116
27	17.8	captive	55.2
28	37	captive	1530
29	20.4	captive	487.5
30	12.6	captive	45
31	26	captive	182
32	12	captive	105
33	21	captive	30
34	23.3	captive	147
35	44	captive	450
36	11	captive	63
37	27.6	captive	940
38	10.5	captive	33.5
39	53.9	captive	525
40	21.6	captive	1398
41	26.8	captive	431.2
42	31	captive	256
43	20.1	captive	280
44	18.4	captive	29
45	16.8	captive	119
46	28.6	captive	1747.5
47	19.4	captive	110
48	11.8	captive	322
49	17.5	captive	260

1			
2	15	captive	1228
3	37.36	captive	49.5
4	27.3	captive	136
5	30.83	captive	177
6	19.1	captive	2166.5
7	35.92	captive	90
8	22.9	captive	151
9	31.3	captive	2926
10	18.5	captive	62
11	72.95	captive	800
12	14.3	captive	87
13	11.6	captive	24
14	30.2	captive	2061
15	25.01	captive	190
16	17.9	captive	1521
17	30	captive	255
18	13.2	captive	159
19	11.9	captive	90
20	24.78	captive	81.7
21	10.1	captive	35.7
22	43	captive	9500
23	16.2	captive	293
24	37.69	captive	193.5
25	34.75	captive	1300
26	16.5	captive	110
27	39.67	captive	343
28	30.73	captive	302
29	15.2	captive	167.5
30	37.84	captive	416
31	29.48	captive	156
32	34	captive	4100
33	27	captive	2500
34	28.2	captive	1500
35	20.9	captive	130
36	33.2	captive	615
37	18.1	captive	167
38	16	captive	1238
39	27.83	captive	150
40	39.4	captive	1351.5
41	60.9	captive	250
42	54.26	captive	1330
43	19.1	captive	89.5
44	12.4	captive	27600
45	56	captive	430
46	16	captive	73.7
47	26	captive	155
48	31.1	captive	5710
49	35.24	captive	215

1			
2	28.6	captive	3180
3	20.6	captive	251
4	66.81	captive	1220
5	22	captive	1726
6			
7	40.76	captive	440
8	27.24	captive	143
9	40	captive	155
10			
11	26.3	captive	270.5
12	18	captive	5100
13	21.8	captive	138
14	54.43	captive	1134
15			
16	30	captive	64
17	32.9	captive	1202
18	30.2	captive	6162.5
19	55.26	captive	723.7
20			
21	27.4	captive	5470
22	44.7	captive	8000
23	12	captive	1000
24	33.2	captive	1806
25			
26	25.8	captive	1900
27	30.39	captive	275
28	49.7	captive	340
29			
30	46.9	captive	350
31	57.81	captive	394
32	37.95	captive	492
33	32.24	captive	570
34			
35	26.3	captive	637
36	92.55	captive	830
37	30.38	captive	26.2
38	14.3	captive	28
39			
40	10.1	captive	34.9
41	19.2	captive	37.3
42	9.2	captive	43.1
43			
44	21	captive	46.1
45	18	captive	55
46	14.6	captive	57.5
47	13.2	captive	59
48			
49	27.04	captive	60
50	11.8	captive	61.5
51	19	captive	61.6
52	11.3	captive	64
53			
54	10.3	captive	71.6
55	28.62	captive	85
56	23.9	captive	104
57	12	captive	118
58			
59	30.24	captive	128
60	32.1	captive	140
	27.07	captive	149

1			
2	13.4	captive	149
3	31.62	captive	150
4	26.2	captive	151
5	27.49	captive	170
6	31	captive	171
8	15.3	captive	193
9	32.22	captive	200
10	27.5	captive	256
11	21	captive	275
13	49.7	captive	333
14	36	captive	344
15	30.31	captive	430
16	36.21	captive	470
18	47	captive	620
19	36.58	captive	646
20	47.41	captive	678.5
22	32.79	captive	784
23	56.3	captive	841
24	43.57	captive	940
25	48.26	captive	1040
27	10	captive	36.60065308
28	7	captive	67.01683932
29	10	captive	102.7339944
30	13	captive	40.36740118
31	10	captive	5.884097717
32	10	captive	10.0041946
33	10	captive	13.86280521
34	10	captive	23.70377211
35	4	captive	5.247604888
36	15	captive	21.18378025
37	15.5	captive	9.002809293
38	4	wild	26.381
39	10	captive	7.979924486
40	18	captive	2.771536053
41	11	captive	16.47594455
42	15	captive	301.3596264
43	18	captive	19.03512002
44	12	captive	230.9830265
45	17.8	captive	24.089
46	8	wild	3.444213006
47	12	wild	5.0222944
48	6	wild	12.399
49	2.1	wild	8.7
50	50	wild	7046.7
51	5	NA	34
52	34	wild	740
53	5	wild	8.311
54	20	wild	12.75494461

1			
2	12	wild	17.81797493
3	10	wild	11.30470034
4	16	wild	269.0068593
5	15	wild	48.98818963
6			
7	7.1	captive	6.88
8	5	wild	2.628
9	5	wild	27.807
10			
11	14	wild	4.2
12	17.5	captive	117.9
13	0.916666667	captive	2.426639157
14	18	captive	2950
15			
16	39	captive	9625
17	38	captive	1080
18	35	captive	2600
19	25	captive	588.7
20			
21	16	captive	798
22	25	captive	994.26
23	35	captive	358.7
24	44	captive	2500
25			
26	20	captive	950
27	30	captive	2000
28	40	captive	3466
29	41	captive	2745.5
30			
31	16.6	captive	38925
32	30	captive	779.8
33	16.4	captive	1080
34			
35	20	captive	2000
36	20	captive	2500
37	24	captive	4133
38	41.4	captive	7436
39			
40	56	captive	3262
41	16	captive	1486.6
42	23	captive	1564
43	40	captive	5070
44			
45	24	captive	24.3
46	37	captive	2082
47	42	captive	6696.5
48	40	captive	3405
49			
50	32.5	captive	13000
51	70	captive	3767.5
52	23	captive	2813
53	36	captive	272
54			
55	29	captive	20.7
56	10	captive	85
57	50	captive	111000
58	15	captive	1390.5
59			
60	13.8	captive	58.87281801
	3.9	captive	117.8745747

1			
2	2.8	captive	34.02783085
3	2	captive	5.294842882
4	3.4	captive	81.03095399
5	6.3	captive	331.1719507
6	2.4	captive	4.026873281
7	9.4	captive	33.26713333
8	3.6	captive	44.30885395
9	2.8	captive	6.558084248
10	4.8	captive	29.02722604
11	8.1	captive	10.18869507
12	4.8	captive	31.65546471
13	5.7	captive	69.34301372
14	5.2	captive	46.7969183
15	17.7	captive	59.81117595
16	4.9	captive	92.57102044
17	5.8	captive	385.1596287
18	6.3	captive	87.66783593
19	8.3	captive	23.85549495
20	5.8	captive	10.2326691
21	27.3	captive	846.8959746
22	9	captive	38.80377037
23	4.3	captive	31.65546471
24	15	wild	97.62760055
25	7.3	captive	19.79614291
26	5.8	captive	51.11764392
27	5.4	captive	331.1719507
28	1	captive	3.554936316
29	3.5	captive	71.2977036
30	9.3	captive	13.16227049
31	1.3	captive	0.557126984
32	6	captive	7.801424837
33	4.1	captive	81.75272538
34	13.3	captive	1387.498697
35	8.9	captive	377.402726
36	10.3	captive	257.3579151
37	6.6	captive	282.2961062
38	10	wild	13.692
39	25	captive	534.243
40	2	captive	96.812
41	25	captive	1098.031
42	2.3	captive	7.379
43	5.1	captive	6.522
44	8.6	captive	179.673
45	13	wild	417.3
46	5	wild	26.65
47	14	wild	1058.5
48	32	wild	908
49	58	wild	9000

1			
2	21.1	wild	800
3	23	wild	390
4	14	wild	1475.5
5	13	wild	6050
6	29	wild	758
7	5.2	wild	492
8	31.8	wild	518.5
9	45	wild	11175
10	28	wild	2724
11	37	wild	3890
12	8	wild	7.8
13	15	wild	167
14	17.3	wild	1699.5
15	3	wild	9.8
16	20	wild	147.5
17	17	wild	585.5
18	17	wild	352.5
19	33	wild	2350
20	40	wild	3395
21	17	wild	702.5
22	6	wild	260.5
23	13.5	wild	837
24	16.3	wild	315.5
25	13.5	wild	388.5
26	23	wild	1017
27	8.5	wild	415
28	16	wild	221
29	10	wild	12.3
30	8.9	wild	16.3
31	10	wild	159
32	8.6	wild	280.5
33	8.6	wild	791
34	26.1	wild	1370
35	17	wild	565
36	15	wild	326
37	11	wild	15
38	10	wild	16.5
39	9	wild	20
40	4	captive	28.9
41	9	wild	35
42	8.8	wild	60.8
43	20	wild	53
44	9	wild	15.5
45	10.1	wild	28.8
46	36	wild	44.6
47	8.1	wild	55.5
48	77	wild	28500000
49	37	wild	6500000

1			
2	27	wild	208000
3	22	wild	120000
4	14.8	wild	7.5
5	110	wild	136000000
6	30.5	wild	22.875
7	18.3	wild	6
8	32	wild	114000
9	74	wild	20000000
10	16.5	wild	9.25
11	63	wild	2200000
12	12	wild	10
13	46	wild	112500
14	47	wild	206000
15	72	wild	16000000
16	14.8	wild	7
17	12.6	captive	51.03268459
18	10.3	captive	295.1644202
19	3.3	captive	114.0833333
20	14	captive	19000
21	13.5	captive	134.3149646
22	5	wild	1490
23	11.3	captive	117.8745747
24	10.3	captive	885.9667555
25	13.1	captive	8709.318362
26	7.8	captive	85.03603232
27	6.8	captive	70.1
28	14.1	captive	3650
29	8.2	captive	289.3
30	6.4	captive	63.1
31	11.8	captive	65.975
32	13.5	captive	54.575
33	11	captive	1184
34	14.7	captive	89.945
35	5.8	captive	55.6
36	41.3	captive	235.31
37	5.8	captive	63.1525
38	15	captive	21.53804239
39	6	wild	44.23686427
40	19.8	captive	12.628
41	5	wild	0.454
42	21	captive	961.1948159
43	23	captive	196.4645129
44	20	wild	178.1136739
45	3	wild	13.99731166
46	4	wild	5.111981173
47	5	wild	1.653512096
48	2	wild	0.752603599
49	4	wild	15.16222044

1			
2	25	captive	97.9792659
3	9	wild	13.90805707
4	23	wild	374.9235326
5	5	wild	15.12029332
6	5		
7	25	captive	106.3070262
8	8	wild	4.812
9	5	wild	32.776
10	5		
11	5	wild	3.96
12	6	wild	334.628
13	41	wild	1500
14	10	wild	7.683
15	5	wild	77.105
16	5	wild	1.937000707
17	5		
18	8	captive	1.44932469
19	1.5	wild	3.534737611
20	34	wild	100
21	17.8	wild	2041.2
22	18	wild	957.15
23	18.3	wild	787
24	12.6	wild	1550
25	25.5	wild	2270
26	13.6	wild	542
27	22.1	wild	928.5
28	27.8	wild	249.7
29	13.3	wild	21
30	6.6	wild	10.4
31	5	wild	37.5
32	12	wild	34
33	11.3	wild	259
34	10.9	wild	10.25
35	5	wild	57.8
36	9	wild	10.95
37	9.2	wild	26.19
38	8.6	wild	147.5
39	13.8	wild	45
40	12.5	wild	120
41	54	wild	6129
42	7.5	wild	308
43	10.9	wild	88
44	12.4	wild	10.4
45	7.4	wild	166
46	12.9	wild	411
47	12	wild	500
48	21.3	wild	793.8
49	8.2	wild	828
50	15	wild	22.8
51	14	wild	49
52	10	wild	57

1			
2	9.8	wild	159
3	13.5	wild	794.5
4	19.2	wild	70.3
5	17.4	wild	130
6	14.5	wild	418
7	5.9	wild	16
8	10.1	wild	11.5
9	11	wild	12.6
10	6.9	wild	40.7
11	11.6	wild	175
12	17.7	wild	309.9
13	13.9	wild	339.5
14	8.3	wild	706
15	22.8	wild	873.5
16	18	wild	2426
17	17.2	wild	3250
18	10	captive	18.4532593
19	10.4	wild	16
20	44	captive	44000
21	38.5	captive	146.9656111
22	24	captive	36.2
23	5	captive	10.77281803
24	10	wild	72.536
25	10	wild	154.198
26	10	wild	82.343
27	3.7	captive	13.027
28	40	wild	391
29	6	wild	91.667
30	5	wild	6.883857738
31	5	wild	15.19504463
32	12.4	captive	13.26103926
33	12.3	captive	121.3098977
34	10	captive	380.0416808
35	45	captive	12.7872828
36	37	wild	5.644802628
37	50	wild	32.17909021
38	8	wild	3.152814071
39	44	captive	25.80302533
40	30	captive	12.76591322
41	16	captive	6.449326894
42	12	captive	13.431
43	12	wild	186.971
44	16	captive	260
45	14	wild	5.058
46	3	wild	80.889
47	6	wild	31.947
48	13.3	captive	25.179
49	10	wild	39.073

1			
2	9	wild	60.756
3	15	wild	18.08
4	25	captive	13.259
5	15	wild	86.442
6	20	wild	13.608
7	7.8	captive	5.216
8	55	captive	2344.402
9	32	wild	181.036
10	13.8	captive	84.923
11	15.1	captive	46.101
12	15	wild	27.269
13	6.8	captive	1.771
14	27	captive	4319.211
15	45	captive	2004.183
16	10	wild	22.265
17	20.5	captive	2.446
18	4.6	captive	4.546679125
19	6.1	captive	14.58939235
20	13	captive	5.179174528
21	7.7	captive	57.53664523
22	13.8	captive	79.92149017
23	22.6	captive	43.49675774
24	16.8	captive	216.1570628
25	13.7	captive	87.66783593
26	24	captive	290.456371
27	54	captive	143.0131571
28	127	captive	1203
29	13	captive	11.77527895
30	16.4	captive	53.71783996
31	13.8	captive	249.9268065
32	33.9	captive	343.4403777
33	13.3	captive	284.3204155
34	6	captive	8.625482802
35	21.3	captive	56.14202754
36	15.7	captive	8.69787022
37	14.8	captive	79.92149017
38	24.9	captive	115.2074941
39	12.8	captive	3.723842586
40	15.7	captive	43.21273819
41	24.7	captive	55.65593489
42	17.1	captive	47.0160508
43	14.9	captive	132.7427622
44	22.4	captive	305.9152486
45	14.3	captive	3.837547353
46	7.2	captive	3.591830031
47	24.6	captive	506.1723482
48	33.6	captive	67.34434432
49	37	wild	45600

1			
2	26	captive	567.1921113
3	14.3	captive	66.43483593
4	13.7	captive	431.77988
5	6.1	captive	174.2438073
6	13.8	captive	184.6015301
7	9	captive	73.79213226
8	15.8	captive	93.94909066
9	23.9	captive	172.4607681
10	4.2	captive	203.2224298
11	10.8	captive	12.94533027
12	19.1	captive	59.72805933
13	19	captive	84.58168968
14	22	captive	448.9269641
15	12.9	captive	174.1378913
16	20.1	captive	3648.02548
17	12.5	captive	272.265029
18	22.9	captive	1431.203007
19	15.7	captive	13.44160306
20	11.6	captive	126.2619409
21	11.8	captive	128.2330583
22	9.4	captive	55.92148815
23	15.2	captive	521.1947111
24	15.2	captive	1.235241891
25	17.1	captive	208.5784919
26	13	captive	324.7948047
27	10.8	captive	1929.804621
28	17.6	captive	20.16377222
29	19.9	captive	38.90092213
30	6	captive	29.59270869
31	19.2	captive	506.1723482
32	10	wild	150.3141966
33	24.9	captive	1695.998891
34	8.2	captive	46.7969183
35	12.8	captive	481.2916922
36	13.6	captive	36.92177069
37	23.1	captive	11.33473146
38	7.6	wild	46.7969183
39	11.4	captive	353.3811944
40	10	wild	117.8745747
41	15.1	captive	148.7914129
42	18.3	captive	631.2385288
43	14	captive	25.50806204
44	10.3	captive	445.5833195
45	17.2	captive	847.252984
46	14	captive	243.6060166
47	10.9	captive	251.402907
48	19.8	captive	385.1596287
49	6.7	captive	27.83467044

1			
2	17.1	captive	84.4324722
3	9.3	captive	2.626364968
4	21.8	captive	2097.907334
5	22.1	captive	65.4098806
6	23.8	captive	50.37545952
7	11.5	captive	194.7448664
8	4	captive	6.797308364
9	27.8	captive	3076.02116
10	19.8	captive	521.1947111
11	13.2	captive	669.6558399
12	13.1	captive	1109.385155
13	11.4	captive	1010.588587
14	16	captive	1695.998891
15	19.7	captive	5585.212209
16	8.6	captive	38.80377037
17	17	captive	85.51112698
18	24	captive	193.3434535
19	5	captive	19.17171101
20	18.9	captive	725.6880521
21	22.1	captive	6584.406952
22	22.2	captive	1935.988051
23	15.2	captive	308.3893733
24	24.4	captive	71.13109972
25	12.6	captive	331.1719507
26	7.1	captive	32.07792608
27	8.5	captive	521.1947111
28	13	captive	1.502944759
29	25.9	captive	286.5317311
30	17.5	captive	2568.903863
31	15.4	captive	77.38437957
32	7.7	captive	202.2592956
33	4.7	captive	51.44601971
34	28	captive	1878.467084
35	11.8	captive	174.6530337
36	24.3	captive	117.8745747
37	14.9	captive	156.5141319
38	15	captive	521.1947111
39	31.6	captive	10428.69272
40	15.6	captive	1338.379265
41	6.8	captive	6.391617688
42	13	captive	1695.998891
43	17.3	captive	508.2752574
44	21.7	captive	350.6465435
45	11	wild	3.741206946
46	47.6	captive	2302.911104
47	16.3	captive	385.2722974
48	28.2	captive	66.41380037
49	18	captive	3625.760761

1			
2	30	wild	223.0389531
3	13.5	captive	474.5277875
4	13	captive	49.15787658
5	12	captive	727.768325
6	11.4	captive	252.3480772
7	80	wild	164300
8	15.2	captive	418.1171433
9	24.3	captive	3481.301744
10	40	wild	120000
11	22.1	captive	724.6501684
12	5.6	captive	18.34924166
13	28.3	captive	104.6717359
14	18.7	captive	970.4933932
15	17.4	captive	1016.558971
16	41	wild	534.25
17	8.4	captive	36.22384733
18	23.9	captive	1497.24178
19	23.2	captive	4873.413609
20	26.8	captive	3076.02116
21	14.4	captive	521.1947111
22	20.3	captive	1038.94727
23	14.2	captive	263.4105796
24	15.9	captive	8.848483846
25	13.3	captive	130.0643547
26	7.5	captive	2.835465864
27	25	wild	83500
28	10	wild	24.99044967
29	14	captive	4.332410642
30	19	wild	194.5543289
31	15	captive	29.47776495
32	17.2	captive	301.595276
33	13.6	captive	2.180622787
34	12	captive	649.2473563
35	28.5	wild	9572.754476
36	20	captive	31.55171642
37	11	wild	14.22841788
38	20	captive	87.66783593
39	9.3	captive	1194.999308
40	7	captive	34.80925897
41	13.8	captive	392.5715619
42	20	captive	37.30729036
43	23.6	captive	20173.63338
44	16.6	captive	111.7892316
45	9.1	captive	62.55668651
46	29.4	captive	461.2628986
47	16.2	captive	8.583811182
48	8.5	captive	30.98616401
49	60	captive	751

1			
2	120	captive	457.59
3	14	captive	19.2824594
4	20	captive	262.4791649
5	25.2	captive	275
6	16.2	captive	494.2
7	28.6	captive	289.4
8	44	captive	2992
9	31.7	captive	600
10	19.1	captive	499
11	20.3	captive	415.7
12	33.5	captive	248
13	19.8	captive	52.90734122
14	20.3	captive	545.7
15	37.4	captive	1015.09
16	22.1	captive	319.5
17	18	captive	1151.48
18	22.8	captive	403.62
19	31.9	captive	1232.64
20	31	captive	149.9611005
21	14.5	captive	125
22	41.1	captive	2580
23	27	captive	136.97
24	47	captive	596.63
25	25.9	captive	400
26	4	captive	59.74947936
27	22	captive	45600
28	32.1	captive	1651.176096
29	37.5	captive	1113
30	20.1	captive	2273
31	12.2	captive	23.01995633
32	20	captive	139.5
33	20.4	captive	1695.998891
34	19.9	captive	28500
35	56.1	captive	64.51
36	16.1	captive	200
37	35.2	captive	10955.80708
38	44.8	captive	214.26
39	69	captive	25000
40	11.3	captive	20000
41	49	captive	5680
42	25.3	captive	25800
43	35.8	captive	15000
44	14.8	captive	231.125
45	38.2	captive	866.66
46	23.9	captive	122.5
47	18	captive	94.375
48	19.2	captive	5600
49	18	captive	1189

1			
2	38.2	captive	75000
3	7	captive	5.159595097
4	13.8	captive	919
5	40	captive	760
6	17.8	captive	1149
7	21.1	captive	55000
8	38.4	captive	22500
9	21.7	captive	17900
10	27.4	captive	1500
11	29.6	captive	2866
12	14.2	captive	1405.51
13	9.3	captive	1080.38
14	24.3	captive	3800
15	24.7	captive	141000
16	5	wild	31.12500224
17	5	wild	6.129883546
18	10	captive	25.28262
19	8	wild	14.84601379
20	6	wild	30.40001316
21	15	captive	11.45349635
22	10	captive	18.18618195
23	5	wild	5.20057513
24	5	captive	6.515511284
25	6	wild	9.149963469
26	5	wild	13.1024479
27	7	captive	2.854259165
28	18.8	wild	75000
29	2	wild	30
30	6	wild	1.342
31	6	wild	0.941
32	15	wild	11.7579613
33	6	wild	6.570338285
34	7	captive	3.659735098
35	8	wild	55.498
36	1.4	captive	13.98874198
37	30	wild	331.1719507
38	7.1	captive	19
39	13	captive	317.4184694
40	11	captive	147.4815179
41	11	captive	47.57960151
42	9	captive	126.2619409
43	15	captive	669.6558399
44	26	captive	73.79213226
45	12	captive	34.49414774
46	18	captive	1338.379265
47	18	captive	196.4645129
48	12	captive	47.57960151
49	5	captive	105.0928265

1			
2	17	wild	519.6529305
3	12	captive	22.10890964
4	9	wild	70.966
5	16.11	captive	17.25837892
6	10	wild	132.7793502
7	28.8	captive	92.57102044
8	29.1	captive	188.4648358
9			
10	77	wild	1584.65
11	61	wild	371.812
12	40	captive	132.1
13	50	wild	57.8375
14	110	wild	164.5
15	20	wild	55000
16	20	wild	819
17	35.5	captive	1450
18	15	captive	15000
19	116	captive	1430
20	40	wild	391
21	80	captive	75000
22	50	wild	152.35
23	20	wild	1519
24	40	wild	400
25	24	wild	93.44
26	40	wild	340
27	49.7	captive	143
28	60	captive	2784
29	30	captive	4020
30	54.9	captive	20000
31	44	captive	74.025
32	49	captive	476.18
33	41	wild	45000
34	45	wild	80000
35	67	wild	160000
36	135	wild	166300
37	30	captive	575000
38	50	wild	282
39	23.1	captive	154.5
40	25	captive	552.75
41	10.5	captive	826.38
42	24	captive	304.5
43	138	wild	207.5
44	10	wild	6.444255687
45	16	captive	5.887792632
46	8	wild	5.639
47	6	wild	1.843
48	10	wild	6.283
49	31	captive	262.4791649
50	14	captive	102.914

1			
2	12	wild	11.046
3	32.9	wild	10.7909648
4	12	captive	19.629
5	4.8	wild	3.95330835
6	40	wild	156.605
8	16	wild	41.8983146
9	10	wild	23.01995633
10	16	wild	13.57329009
12	9.2	wild	1239
13	12.5	wild	2340
14	3.2	NA	30
15	1.5	wild	6.721090946
16	1.5	wild	1.062099306
17	1.5	wild	2.149191073
18	1.5	wild	3.095807437
19	2	wild	66.7802771
20	10	wild	17.91828413
21	5	captive	9550
22	35.3	captive	277.8
23	20.3	captive	13036.8
24	26	captive	1348
25	37.6	captive	3308.5
26	31	captive	8500
27	25.2	captive	2447.5
28	42	captive	899.3
29	13.8	captive	9520
30	51	captive	7895.5
31	28.3	captive	1094.8
32	27	captive	1937.7
33	24.4	captive	35000
34	26	captive	645
35	21.8	captive	3700
36	24	captive	429
37	16.3	captive	3980
38	28.1	captive	116.5
39	13	captive	3869
40	11.3	captive	130
41	19.7	captive	300
42	72.82	captive	265
43	12.4	captive	117.5
44	34.2	captive	50
45	13.3	captive	1600
46	27.1	captive	75.7
47	10.4	captive	43
48	18	captive	4800
49	16.8	captive	128
50	34	captive	1030
51	48.52	captive	34.8
52	7	captive	

1			
2	19.3	captive	1203.5
3	23.2	captive	4200
4	25.8	captive	1031
5	23	captive	325
6	40.3	captive	1996.1
8	8.9	captive	158
9	38.25	captive	246
10	39.02	captive	370
11	66.81	captive	515
13	14	captive	56.6
14	16.5	captive	66
15	17.9	captive	157.4
16	20	captive	61.9
17	33.4	captive	120
18	22	captive	7
19	19.7	captive	5433
20	11.8	captive	15.9
21	44.5	captive	3000
22	25.5	captive	1900
23	33.4	captive	2798.5
24	22	captive	47300
25	14.5	captive	1313.5
26	6.2	captive	528
27	36.2	captive	5931
28	33	captive	6250.5
29	25	captive	132
30	16.3	captive	364
31	16.8	captive	510
32	7	captive	195
33	15	captive	21.5
34	15.5	captive	56.3
35	18	captive	121.5
36	12.1	captive	172
37	16.9	captive	55.8
38	17.8	captive	121
39	24	captive	24.6
40	17	captive	12
41	22.9	captive	4468
42	35.7	captive	5984
43	20	captive	17.596
44	6	wild	1232.92
45	10	captive	8.725
46	5	wild	8.022
47	7	wild	10.018
48	29	captive	11.455
49	17	captive	5.058
50	23	captive	10.018
51	6	wild	305.128

1			
2	1.2	wild	1.686
3	6	wild	156.259
4	25	captive	863.809
5	6	wild	157.034
6	3	wild	14.815
7	8	wild	235.652
8	3	wild	2.27
9	3	wild	1.007
10	6	wild	4.494
11	100	wild	3987500
12	15	wild	11.76
13	33	wild	331.1719507
14	5	wild	5.947833734
15	4	wild	1.148432759
16	17	wild	44.19
17	6	wild	38.916
18	28.8	wild	1163.2
19	12.8	wild	214
20	25.6	wild	224
21	31.1	wild	445.5
22	8.8	wild	17.7
23	28.5	wild	317
24	8.6	wild	158
25	9	wild	595.875
26	12.3	wild	50.2
27	40.9	wild	2645
28	24.1	wild	6350
29	17.9	wild	84.4
30	20.8	wild	65.2
31	40.8	wild	490.5
32	10	wild	610
33	28.8	wild	52.5
34	37.8	wild	2130
35	27.4	wild	721
36	14	wild	321
37	29.9	wild	427.5
38	28.2	wild	1687
39	23.6	wild	294
40	34.9	wild	766.2
41	21.3	wild	1020.6
42	18.8	wild	980.64
43	15.9	wild	1120
44	9	wild	12.5
45	27.2	wild	3628.8
46	19.2	wild	738.7
47	16.2	wild	320
48	33.7	wild	430.6
49	12.7	wild	75.1

1			
2	18.6	wild	50
3	42	wild	726
4	22.7	wild	872
5	27.1	wild	343.8
6	12.7	wild	195
8	24.4	wild	211.5
9	29.2	wild	1658.5
10	31.8	wild	728
12	15.9	wild	117
13	22	wild	1044.2
14	11.8	wild	11.8
15	23.8	wild	184
17	7	wild	30.2
18	15.5	wild	308.3
19	10.9	wild	22.4
20	34.5	wild	1340
22	50.9	wild	434
23	6.9	wild	16.6
24	37.4	wild	2950
26	19.7	wild	58.1
27	11.1	wild	8.6
28	8.9	wild	111.5
29	24.8	wild	1152
30	14.8	wild	1445
32	8.8	wild	18.4
33	25.6	wild	3348
34	20.6	wild	734.3
36	9	wild	22.2
37	14.6	wild	96.5
38	45.2	wild	701.5
39	17.7	wild	490
40	13.2	wild	29.7
42	12.6	wild	291
43	20.1	wild	711.5
44	26.9	wild	149
46	21.8	wild	103.2
47	6.9	wild	101
48	11.6	wild	62.5
50	13.5	wild	54.5
51	20.9	wild	119
52	23.8	wild	784.5
53	5.9	wild	56.6
54	6.8	wild	19.9
56	12.9	wild	20.4
57	10.2	wild	14.6
58	10.9	wild	19.7
59	15.2	wild	176
60	12.6	wild	56.6

1			
2	7.1	wild	77.5
3	6	wild	65.5
4	8.2	wild	9.1
5	26.5	wild	9350
6	11.2	wild	10.9
7	21.1	wild	37.6
8	20.2	wild	237.5
9	10.9	wild	76.8
10	7.8	wild	11.2
11	22.9	wild	74
12	22.4	wild	520
13	10.1	wild	37.5
14	28.8	wild	1012
15	12.9	wild	23
16	19.2	wild	1075
17	14	wild	12.3
18	14.5	wild	48
19	17.1	wild	392
20	24.8	wild	535
21	11.1	wild	169
22	19	wild	37
23	25.4	wild	1065.5
24	8.3	wild	11.7
25	11.6	wild	42.9
26	6.8	wild	92
27	8.8	wild	23.4
28	4.5	wild	20.9
29	24.5	wild	218.5
30	37.5	wild	1443
31	17.5	wild	174
32	23.2	wild	823
33	10.2	wild	9.2
34	18.2	wild	131.6
35	10.1	wild	30
36	11.2	wild	390
37	8.8	wild	38.1
38	24.4	wild	187
39	21	wild	31.4
40	21	wild	60
41	10.2	wild	161
42	18.6	wild	392
43	22.3	wild	312
44	13.8	wild	16.7
45	10	wild	12.7
46	10.6	wild	24.2
47	33	wild	120
48	8.9	wild	11
49	16	wild	78.8

1			
2	12.2	wild	18.4
3	27.8	wild	304
4	8	wild	8.3
5	17	wild	188
6	14.7	wild	21.1
7	9.2	wild	146
8	11.3	wild	1324.5
9	13	wild	38.7
10	12.9	wild	111.5
11	43.3	wild	480
12	20.8	wild	64
13	17.9	wild	459
14	10.9	wild	152.5
15	11.9	wild	67
16	13.2	wild	152.5
17	39	wild	3350
18	7.9	wild	9
19	10.2	wild	16.5
20	11.8	wild	8.7
21	13.1	wild	20.5
22	12.2	wild	14.2
23	11.4	wild	17.3
24	13.5	wild	13.2
25	21.7	wild	178
26	14.7	wild	326
27	35.2	wild	660
28	16.8	wild	1052.2
29	8.8	wild	1118
30	21.4	wild	1360.8
31	13.2	wild	68.5
32	42.8	wild	992
33	11.8	wild	108.5
34	23.9	wild	31
35	22.1	wild	256
36	31.7	wild	281
37	20.9	wild	535
38	30	wild	644
39	6.8	wild	37.1
40	11.5	wild	90
41	13.9	wild	136
42	13.2	wild	132
43	3.9	wild	84.4
44	5.5	wild	91.4
45	7.2	wild	429
46	12.2	wild	1079
47	10.8	wild	13.2
48	10.6	wild	61.7
49	16.2	wild	183

1			
2	20.3	wild	246
3	22.9	wild	453.5
4	19.2	wild	472.7
5	7	wild	19.6
6			
7	10.6	wild	48.8
8	9.4	wild	19.5
9	13.6	wild	26
10	15	wild	14.5
11	10.1	wild	28.4
12	5.7	wild	36
13	13.5	wild	73.5
14	5.9	wild	13.3
15	9.8	wild	13.9
16	6.9	wild	16.1
17	8	wild	17.2
18	13.7	wild	24.1
19	8.8	wild	10.3
20	9.8	wild	12.7
21	19.3	wild	17.3
22	7	wild	20.3
23	10.1	wild	25
24	14.6	wild	10.3
25	11.6	wild	11.1
26	11.3	wild	11.1
27	11.9	wild	11.2
28	15.4	wild	17.9
29	20.8	wild	20.2
30	7	wild	9.3
31	8.9	wild	17.7
32	11.9	wild	22.5
33	17.7	wild	67.8
34	18.1	wild	106
35	9.1	wild	109
36	21.2	wild	117.5
37	9.8	wild	19.8
38	11.2	wild	65.7
39	13.1	wild	392
40	30.6	wild	1773
41	69	captive	1041.2
42	15.9	wild	966
43	4.9	wild	15.1
44	30	wild	3800
45	9.2	captive	611.9265093
46	3.6	wild	15.22437932
47	3.8	wild	15.37721103
48	5.6	wild	14
49	20	wild	13
50	14.5	wild	17.5

1			
2	23.7	wild	7.5
3	13	captive	12.75
4	29.4	wild	4.6
5	25.5	wild	12
6			
7	37.1	wild	28.55
8	21	wild	18.2
9	16.6	wild	5
10			
11	21	wild	10.5
12	7	wild	3.813137214
13	15	wild	6.926656069
14	5	wild	5.471041674
15			
16	60	captive	5765
17	211	wild	100000000
18	5	wild	30.06948874
19	60	captive	305.5
20			
21	100	captive	82.975
22	14	wild	13.613
23	30	captive	43.23
24	11	captive	24.986
25			
26	7	wild	6.711823657
27	2.2	captive	7.115920206
28	9	wild	4.108
29			
30	8.1	captive	4.32811506
31	60	captive	80.8425
32	10.8	captive	102.3812477
33			
34	2	captive	5.471614332
35	5	captive	5.173308865
36	7	captive	6.327045267
37	7	captive	9.761342408
38			
39	8	captive	23.03448163
40	11	captive	27.42732729
41	8	captive	18.05450733
42	7	captive	7.620070126
43			
44	13	wild	158.5813563
45	28	captive	309.1018454
46	4	wild	3.672993311
47	2.8	wild	2.303369169
48			
49	7	wild	5.532869935
50	3.2	wild	3.247164202
51	10.9	captive	7.608481073
52	4	wild	3.5
53			
54	3	wild	3.86
55	13	wild	538.0698723
56	5	wild	57.5
57	50	wild	7500000
58			
59	14	wild	2456.7
60	9	captive	39000
	18	captive	227500

1			
2	16.3	captive	122.5
3	4	wild	50
4	6.5	wild	23.375
5	4	wild	4.619
6	2	wild	1.771
7	11	captive	44.601
8	10	wild	15.751
9	9	wild	35.55750529
10	4	wild	36.10951811
11	11	wild	16.419
12	8	wild	7.600473886
13	6	wild	5.60357134
14	7	wild	7.789291843
15	6	wild	5.544532712
16	9	wild	5.69655075
17	6	captive	45.011
18	25	captive	751.106
19	4	wild	1.206
20	4	wild	0.658
21	3	wild	1.137
22	3.5	wild	0.124
23	6	wild	11.758
24	1	wild	3.883
25	4	captive	7.868107858
26	20	captive	55.65823289
27	32	wild	43.23
28	50	captive	139842
29	46	captive	2642.5
30	7.33	wild	23.03448163
31	7	wild	23.13023311
32	13	captive	6.19489019
33	10	captive	2.836814303
34	7	wild	4.669923837
35	3	captive	23.4
36	67	wild	23000000
37	5	wild	0.559
38	6	captive	9.063197373
39	21	captive	73.86647826
40	20	captive	47.64360792
41	15	wild	51.11764392
42	30	captive	6.937718426
43	47	captive	5.786936732
44	138	captive	362.7
45	85	captive	61.19892857
46	18	captive	369.6057591
47	10	captive	13.62835094
48	10	captive	21.572
49	12.5	captive	110.3

1			
2	16.3	captive	5200
3	3.3	captive	66
4	19.5	captive	16333.3
5	21.8	captive	101250
6	29.5	captive	26625
7	10	captive	46.9
8	8.3	captive	20.5
9	21.8	captive	13250
10	5.6	captive	18
11	18.2	captive	6750
12	6.3	captive	53.2
13	34	wild	10
14	25	captive	8000
15	4.8	captive	46
16	4.1	captive	40
17	7	captive	100
18	3.2	captive	9
19	14	captive	4000
20	3.9	captive	23.4
21	3.3	captive	70
22	9.5	captive	96
23	19	wild	23
24	17.5	captive	21666.7
25	20.8	captive	90000
26	27	captive	25850
27	3.1	captive	15
28	11.1	captive	809
29	23.4	captive	20250
30	40	captive	277500
31	15.9	captive	2400
32	23.6	captive	533
33	2.5	captive	55.3
34	4.8	captive	27.5
35	5.3	captive	40
36	25.2	captive	3000
37	4	captive	20.5
38	5.5	captive	72.2
39	2.2	captive	21.6
40	11.7	captive	750
41	3.5	captive	337.9
42	18	wild	4175
43	7.9	captive	23
44	3.8	captive	300
45	30	wild	7.8
46	12	captive	45
47	13.9	captive	3500
48	18	wild	81
49	9.9	captive	57

1			
2	5.8	captive	20.1
3	3.6	captive	506.7
4	19	captive	4325
5	34	captive	154250
6	15.5	captive	46100
7	19.5	captive	1540
8	16.2	captive	840
9	23.8	captive	63000
10	2.7	captive	7.7
11	13	captive	22
12	2.2	captive	45
13	8.5	captive	7850
14	6.7	captive	217
15	22.6	captive	1250
16	32.3	captive	8600
17	4.5	captive	29.4
18	7.6	captive	342
19	12	captive	176.7
20	11	captive	1125
21	6.6	captive	3000
22	6.8	captive	1090
23	6.1	captive	766
24	6.3	captive	23.4
25	13	captive	6500
26	6.1	captive	115.5
27	11.2	captive	105
28	31.5	captive	200000
29	15.8	captive	2500
30	3.9	captive	51.6
31	12.5	captive	1500
32	29.2	captive	33.2
33	3.8	captive	6
34	10.3	captive	40
35	16.6	captive	6500
36	14.5	captive	1430
37	8.3	captive	8
38	8.3	captive	65
39	18.2	captive	1300
40	7.8	captive	900
41	10.8	captive	98
42	6.8	captive	5500
43	23.1	captive	24000
44	5.5	captive	42
45	9	wild	43.4
46	3.5	captive	4.5
47	14.8	captive	20.8
48	22.1	captive	9300
49	5.4	captive	27.5

1			
2	4.2	captive	1530
3	10.1	captive	850
4	6.5	captive	700
5	9.6	captive	1300
6	6.3	captive	106
7	3.3	captive	41
8	17.2	captive	642.5
9	5.9	captive	193.5
10	11	captive	471.5
11	2.9	captive	370
12	2.1	captive	17.5
13	18.6	captive	13000
14	21.3	captive	1820
15	2.9	captive	11
16	18.8	captive	1500
17	6.2	captive	890
18	10.8	captive	6000
19	5.7	captive	74.8
20	36.8	captive	1500
21	14	captive	235
22	3.9	captive	105
23	12	captive	20
24	5.3	captive	130
25	24	captive	3666.7
26	5.4	captive	25
27	29.9	captive	25500
28	19	captive	4500
29	22.1	captive	4850
30	15.1	captive	6500
31	5	captive	15
32	19	captive	6270
33	8.4	captive	22
34	3.8	captive	25.5
35	8.3	captive	18.7
36	3.9	captive	45
37	11	captive	10
38	23.7	captive	4750
39	13.8	captive	3500
40	5.5	captive	134
41	9.7	captive	42
42	23	captive	87000
43	31	captive	28500
44	3.3	captive	8
45	8.7	captive	40
46	17	captive	11.6
47	8	wild	28
48	22.3	captive	5500
49	4.2	captive	200

1			
2	8.6	captive	116
3	12.7	captive	6500
4	11.8	captive	2650
5	3.1	captive	700
6	14	wild	24
8	25	captive	55000
9	5.2	captive	185
10	5.8	captive	50
12	11.3	wild	10.1
13	23.6	captive	675
14	6.3	captive	188
15	21.4	captive	1540
17	4.4	captive	115
18	16.7	captive	10250
19	31.5	captive	20200
20	5.6	captive	37.8
21	4.6	captive	22
22	7	wild	4.2
23	4.3	captive	7.2
24	25	captive	40000
25	20	captive	3500
26	7.2	captive	48
27	5.5	captive	50
28	7.3	captive	850
29	27	captive	130000
30	22	wild	13
31	20.6	captive	776
32	5.1	captive	105
33	22	captive	30000
34	11.1	captive	200
35	5.2	captive	5.3
36	18.9	captive	2400
37	3.5	captive	24
38	6.1	captive	54.5
39	5.6	captive	859
40	14.1	captive	225
41	8.7	captive	900
42	8.7	captive	330
43	6.9	captive	24
44	17.3	captive	5000
45	6.8	captive	1600
46	10.5	captive	236
47	26.6	captive	3900
48	6.4	captive	35
49	7.4	captive	115
50	9.5	captive	209
51	14	wild	6.25
52	19	captive	180

1			
2	28	captive	350
3	20.6	captive	70275
4	10	captive	25
5	14.3	captive	3200
6	5.5	captive	14
7	7.4	captive	32
8	23.2	captive	380
9	10	captive	218
10	20.5	captive	53500
11	7.7	captive	16.5
12	38.4	captive	3000
13	10.5	captive	600
14	9.3	captive	13000
15	15.9	captive	2395
16	24	captive	7000
17	4.4	captive	450
18	17	captive	15
19	16.1	captive	2250
20	3.2	captive	45.9
21	5.9	captive	45.2
22	37.5	captive	18000
23	8	captive	105
24	35	captive	9950
25	7.4	captive	25
26	30.1	captive	800
27	8.4	captive	1500
28	28.2	captive	8800
29	12.3	captive	430
30	31.6	captive	654.5
31	13.5	captive	1500
32	17.8	captive	3265
33	27	captive	12250
34	16.3	captive	9000
35	11.8	captive	50
36	4.5	captive	47.4
37	9.3	captive	52
38	22.2	captive	555
39	26.9	captive	7200
40	21	captive	6000
41	5.8	captive	500
42	19.2	captive	42.2
43	19.3	captive	238.2
44	22.7	captive	1094.5
45	15	captive	33000
46	16.6	captive	175
47	14.8	captive	3600
48	24.3	captive	164500
49	5.9	captive	30

1			
2	4.5	captive	51
3	11.4	captive	500
4	8.7	captive	326.5
5	14	captive	2850
6	13	captive	257.5
8	20.9	captive	872
9	22.4	captive	13350
10	5.9	captive	525
12	35.5	captive	3150
13	13.8	captive	4683.3
14	28.3	captive	7750
15	10.1	captive	45
16	26.8	captive	1225
18	14.8	captive	775
19	31	captive	35
20	7	captive	32.5
21	26.3	captive	119700
23	6	wild	7.9
24	3.1	captive	1250
25	26.4	captive	3750
26	18.3	captive	1300
27	21.3	captive	4131.7
28	7	captive	146.7
29	37.8	captive	9000
30	40	captive	8235
31	20.5	captive	499.3
32	16.3	captive	1250
33	15.8	captive	300
34	24	captive	900
35	15.1	captive	55000
36	7.9	captive	58
37	4.8	captive	650
38	16.6	captive	800
39	65.5	captive	3180000
40	4.5	captive	144
41	8.2	captive	37
42	12.9	captive	950
43	5	captive	75
44	15.9	captive	6250
45	8.8	captive	3000
46	22.6	captive	150
47	12.4	captive	200
48	17	captive	26500
49	3	captive	440
50	37	captive	6250
51	27	captive	175000
52	26.5	captive	890.5
53	17.2	captive	200

1			
2	30	captive	175333
3	30.2	captive	925
4	28	captive	81150
5	22.8	captive	255.2
6	5.8	captive	10
7	10.1	wild	25
8	7	captive	373.5
9	49.5	captive	3500
10	40	captive	100000
11	47	captive	164998
12	29.8	captive	60000
13	20.3	captive	450
14	7.3	captive	65
15	7.3	captive	55
16	4.9	captive	20
17	40	captive	1175
18	20.8	captive	121350
19	20	captive	10000
20	10	captive	44.1
21	18.6	captive	124
22	15.5	captive	180
23	11.5	captive	350
24	12	captive	728
25	11.5	captive	588
26	12.6	captive	500
27	18.6	captive	7000
28	28.9	captive	140000
29	26.1	captive	500000
30	40	captive	434000
31	5	wild	0.934629314
32	6	wild	5.645865485
33	3.5	wild	5.40401726
34	11	wild	12.25115139
35	30	wild	125.413
36	8	wild	9.393
37	4.8	captive	6.164696662
38	10	captive	8.710638798
39	15.4	captive	NA
40	1.9	captive	38.5513009
41	2.1	captive	5.532262668
42	3.2	captive	1.300546315
43	22.9	captive	5375.493977
44	3.9	captive	89.90771181
45	5.2	captive	46.7969183
46	1.8	captive	7.177860238
47	16.6	captive	98.66706795
48	9.3	captive	59.62445089
49	10.1	captive	23.95441838

1			
2	10.3	captive	NA
3	7	captive	34.80925897
4	16.1	captive	NA
5	10	wild	23.52128999
6	3	wild	4.011371636
7	20	captive	2624.741683
8	14	wild	546.9155601
9	25.1	wild	NA
10	1.2	wild	4.137577625
11	5.3	captive	24.03138411
12	30	wild	338.8027323
13	10	wild	21.34
14	5	wild	15.40145183
15	14	wild	9.11593295
16	8	wild	8.693152627
17	14.5	wild	12.153
18	15	wild	1.74
19	12	wild	12
20	7.8	captive	306.0556868
21	9	wild	642
22	5.2	captive	6107.27
23	6.5	captive	25.80815339
24	8.3	captive	1851.493931
25	2	wild	21.966
26	50	captive	57.36367269
27	5.2	captive	58.51661184
28	6	wild	6.951
29	14	captive	6.086
30	4.5	wild	23.62299014
31	6	wild	4.627183334
32	20	wild	225000
33	1.5	captive	1.958081018
34	6.9	captive	2.783203722
35	3.9	captive	3.954003792
36	1.1	captive	0.986262565
37	2.8	captive	1.649722454
38	7	wild	4.036741838
39	20	captive	3.930952593
40	4.1	wild	3.91
41	6	wild	8.618
42	9	wild	202.6
43	40	wild	1518.237008
44	24	captive	40000
45	3.5	captive	8.685749811
46	2.147945205	captive	0.62930431
47	1.9	wild	3.590870182
48	12.8	captive	22.97462395
49	6	wild	2.185

1			
2	18	captive	5.873360243
3	13	captive	23.60246029
4	13	captive	3.584050395
5	15	captive	5.337592211
6	12	captive	11.32862859
7	13	captive	148.8685223
8	16	wild	346.9828653
9	5	wild	3.225099611
10	16	wild	6.69867035
11	37	captive	3670
12	22.4	captive	46250
13	39.6	captive	250000
14	56	captive	6810
15	24	captive	3390
16	5	wild	9.470399046
17	10	wild	2.881329001
18	4	wild	6.236375457
19	10	captive	3000
20	18	captive	20.2
21	17.7	captive	21
22	9	wild	35.356
23	6	wild	2.251515532
24	9	wild	2.358866155
25	4	captive	7.96
26	1	wild	1.137263865
27	9	wild	3.304
28	5	wild	8.468
29	4	wild	13.273
30	5	wild	30.70752545
31	10.5	captive	752.1415217
32	16.7	captive	3539.853024
33	11	wild	4.891667597
34	20	captive	2027.155587
35	26	wild	2.443375825
36	6	wild	28.35
37	12.3	wild	39.4
38	7.8	wild	27.1
39	6.6	wild	20
40	11.7	wild	8.7
41	6	wild	13.5
42	11.3	wild	22.7
43	11.6	wild	21.4
44	7	wild	27.5
45	11	captive	13.4
46	11.7	wild	33.1
47	7.6	wild	17.35
48	7.7	wild	28.88
49	10.5	wild	31.55

1			
2	4.8	wild	42
3	12.8	wild	44.4
4	8.6	wild	46
5	5.7	wild	9.23
6	6	wild	24.3
7	6.4	wild	36.2
8	11.6	wild	46.5
9	12.5	wild	64.55
10	12.5	wild	168.7
11	16	wild	26
12	8	wild	33.5
13	22.3	wild	450.8
14	22.8	wild	314
15	11.1	wild	57.3
16	18.5	wild	315
17	13.3	wild	105
18	5.1	wild	11.25
19	18.3	wild	454
20	22.5	wild	452.8
21	24.1	wild	40
22	7.2	wild	35
23	14.4	wild	247
24	7.9	wild	25.7
25	8.5	wild	4.4
26	20.4	wild	737
27	16.1	wild	99.1
28	12	wild	13.35
29	16.9	wild	38.1
30	5.8	wild	6.6
31	8.2	wild	9
32	6.6	wild	9.75
33	8	wild	10
34	10	wild	10.2
35	8	wild	9.8
36	5.8	wild	7.4
37	8	wild	10
38	5.5	wild	12.87
39	8	wild	18.25
40	9.8	wild	20.5
41	5.8	wild	10.8
42	7	wild	7.9
43	6.6	wild	10.3
44	12.5	wild	46
45	5.7	wild	61.82
46	12.8	wild	67
47	10.8	wild	80.65
48	6.9	wild	84.4
49	10.3	wild	7

1			
2	6.4	wild	8.5
3	7.9	wild	8.8
4	6.9	wild	9
5	7.9	wild	10
6			
7	8.9	wild	26
8	4.2	wild	6.5
9	5.6	wild	6.75
10			
11	8.2	wild	10.7
12	7.5	wild	11.2
13	12.6	wild	14.7
14	7.3	wild	24.8
15			
16	13.1	wild	15
17	7.4	wild	16
18	6.1	wild	18
19	5.1	wild	20.8
20			
21	5.6	wild	6.8
22	50	wild	1250000
23	9	wild	3.407
24			
25	3	wild	1.756092843
26	10	wild	49.54129945
27	7	wild	2.557922214
28			
29	4	wild	1.007
30	4	wild	1.07
31	8	wild	3.608876421
32	21	wild	99.634
33			
34	8	wild	223.568
35	5	wild	132.777
36	10	wild	30.343
37	11	wild	65.802
38			
39	24	wild	414.288
40	11	wild	22.249
41	4	captive	29.45469998
42	18	captive	142.193408
43			
44	20	wild	31.636
45	7	wild	0.633
46	62	wild	47274.1301
47	2	captive	10.85708755
48			
49	6	captive	32.83639726
50	5	captive	397.6557398
51	4	captive	44.34679354
52			
53	2.5	captive	35.0814531
54	4	wild	0.511736617
55	11	wild	5.4
56	6	wild	16.197
57			
58	11	wild	16.977
59	10	wild	24.044
60	15	wild	17.491
	18.8	captive	463.755

1			
2	19.2	captive	279.2
3	27	captive	1232.64
4	1.2	wild	2.121
5	8.6	captive	39.073
6	6	captive	11.58400386
7	5	wild	4.825
8	8	wild	19.427
9	9	wild	27.721
10	10	wild	44.129
11	14	captive	353.3811944
12	10	captive	104.928
13	2	wild	0.726
14	1	wild	6.673
15	5	wild	62.605
16	4	wild	40.304
17	6	wild	63.158
18	4	wild	44.398
19	12	captive	5.821
20	3	wild	35.622
21	7	wild	3.922
22	15	wild	10.60448715
23	5	wild	55.39
24	3.5	wild	6.245
25	6	wild	5.42025429
26	10	wild	25.80823989
27	10	wild	1125
28	95	wild	30000000
29	77	wild	28500000
30	14	wild	10850
31	17	wild	424600
32	7	wild	12.243
33	16	wild	33.822
34	10	wild	5.732868408
35	10	wild	6.076862637
36	3.6	wild	2.430308813
37	3.3	wild	1.238797142
38	3.8	wild	3.221947563
39	8.7	captive	331.1719507
40	15	captive	7.777069017
41	20	captive	388.3534688
42	10	captive	132.777
43	6	wild	0.606
44	2	captive	24.24599778
45	16.2	wild	9.8
46	20	captive	40
47	7	wild	17.302
48	6	wild	5.797
49	76	captive	44983.5

1			
2	100	wild	94.9075
3	4	wild	2.345
4	20	captive	39.591
5	14	wild	29.423
6			
7	5	captive	NA
8	11	captive	30.36055911
9	19	captive	281.7991011
10			
11	11.5	captive	9.708971831
12	13	wild	12.8
13	6	captive	110
14	84	wild	11380000
15			
16	30.4	captive	67.31
17	4.5	captive	14.68845036
18	10	captive	17.70531141
19	9.8	wild	31.97786213
20			
21	5	wild	100
22	1.5	wild	38.8
23	22	captive	3325
24	17.6	captive	4313.891559
25	18.8	captive	744.2306681
26	20	captive	4856.454173
27	22.6	captive	818.2974157
28	8	captive	107.9693636
29			
30	10.7	captive	2780.658199
31	8	captive	462.2293553
32	11	captive	1308.169658
33	7.5	captive	635.56
34	20	captive	358.1096785
35	9.1	captive	42.82061287
36	16.8	captive	408.8239821
37	15	captive	189.1199622
38	8	captive	285.9801753
39	8	captive	26.61652357
40	10	wild	2.669443286
41	2.3	captive	266
42	60	wild	23500
43	24	wild	106.97
44	10	captive	4.468702933
45	31.8	captive	39758.95734
46	20	wild	79.92149017
47	27	wild	70.691
48	3	wild	5.327025256
49	7	captive	4.454
50	10.4	wild	64.1147614
51	11.1	wild	67.1
52	27	wild	16
53	11.2	wild	24.2
54	9.8	wild	11.5

1			
2	14.8	wild	23.2
3	14.8	wild	79
4	15	wild	13.9
5	9.5	wild	9.2
6	7	wild	5.6
7	26	wild	102.7
8	31.9	wild	1117.2
9	17.9	wild	159.7
10	6.1	wild	25.6
11	6.1	wild	15.4
12	9	wild	24
13	17.5	wild	24.4
14	8.9	wild	23.8
15	18.8	wild	61.2
16	10	wild	35
17	8	wild	59
18	8.583	wild	11.2
19	5.667	wild	12.5
20	13	wild	12.7
21	17.6	wild	13.4
22	10.4	wild	10.4
23	7.3	captive	10.44714696
24	36	wild	38.773
25	8	wild	100.857
26	6	wild	17.434
27	3	wild	6.76
28	5	wild	14.815
29	6	wild	9
30	53	wild	6.18276545
31	8	wild	21.48504354
32	18.3	captive	10000
33	20	wild	4.367837579
34	13	captive	2.81278003
35	5	wild	20.07
36	13	wild	23000
37	5	captive	6.545735411
38	6	captive	31.55771054
39	3	captive	8.700000474
40	9	wild	26.83005664
41	12	wild	399.7222201
42	5	captive	3.034986467
43	3.5	captive	5.190507253
44	4	captive	2.189033349
45	5	captive	8.428921073
46	10	captive	36.48648052
47	60	captive	19349.442
48	68	captive	2686
49	5	captive	70

1			
2	12	wild	37500
3	45	captive	23000
4	116	wild	70000000
5	70	wild	45000000
6			
7	4.4	wild	174
8	2.8	captive	14.5
9	1	captive	55
10			
11	15	captive	1250
12	12	captive	700
13	10	captive	18
14	62	wild	2701000
15	48	wild	5600000
16			
17	10	captive	10.921
18	12	captive	128.875
19	49	wild	1094
20			
21	2	captive	1.316
22	0.6	wild	6.715
23	18.9	wild	1617
24	3	wild	5.788026857
25			
26	19	wild	243.6060166
27	40.4	captive	6584.406952
28	6	wild	2.959
29			
30	5	wild	2.433
31	6	wild	10.38
32	6	wild	2.34435708
33	4	wild	2.896562387
34			
35	7	wild	28.413
36	10	wild	33.822
37	14	wild	48.02832724
38	12	wild	156
39			
40	13.8	captive	38.50926578
41	13	wild	23.235
42	6.8	captive	16.419
43			
44	51	wild	908
45	3	wild	11.095731
46	46	captive	336.0580366
47	6	wild	4.038717492
48			
49	6	wild	29.28
50	12.4	captive	21.053
51	12	wild	286.8642331
52	85	captive	160500
53			
54	25	wild	74.74462644
55	10.2	captive	181.036
56	10	wild	17.236
57	8.5	captive	544
58			
59	12	captive	4.086720527
60	17	captive	2.399560966
	13.8	captive	12.10495251

1			
2	9.5	captive	5.457633323
3	30	captive	23.37702503
4	11	captive	3.70473178
5	14.6	captive	71.47473265
6	16	captive	1095.678547
7	7	captive	36.106
8	20.6	captive	90
9	1	wild	0.460287893
10	3.8	wild	20.2499617
11	20	wild	21.07131171
12	17	wild	1.350018551
13	16	wild	27.02176393
14	10	wild	16.263
15	21	wild	6000
16	25	captive	49500
17	28	captive	240000
18	10	captive	2.704039383
19	15	captive	14.84339948
20	15	captive	21.68199349
21	15	captive	8.600164272
22	8	wild	9.033
23	10.4	captive	30
24	4	wild	14.422
25	2	captive	2.183167579
26	10	wild	17.5
27	5	wild	1.222108013
28	2.5	wild	1.916004834
29	6	wild	2.887138819
30	5	wild	9.444
31	17	wild	51.11764392
32	1.6	wild	1.719423827
33	2	captive	0.864955877
34	4	captive	0.89533673
35	4	captive	0.392538109
36	4	captive	1.58532451
37	1.58	captive	0.674605887
38	4	captive	0.89533673
39	2.3	captive	1.120408673
40	20	wild	309.154
41	27.3	captive	69.34301372
42	15	wild	8.496448866
43	10.9	captive	1.22855147
44	57	captive	300000
45	36.7	captive	2277
46	15.7	captive	634.375
47	19.6	captive	738
48	26.8	captive	305
49	13.4	captive	625

1			
2	16	wild	1105
3	26	captive	219
4	11.5	captive	51
5	18.6	captive	156
6	16.2	captive	540
7	13.7	captive	108
8	20.3	captive	133
9	20.5	captive	519
10	27.2	captive	3372
11	41.8	captive	8663
12	6	captive	12
13	18	wild	132.402
14	100	wild	70000
15	45	captive	1100
16	5	captive	6.66
17	2	wild	13.6
18	22.3	wild	136
19	12.9	wild	33.8
20	27.3	wild	135
21	34	wild	322
22	7.1	wild	13.8
23	24.2	wild	365.7
24	24	wild	1816
25	33.8	wild	25.2
26	14.9	wild	209.5
27	9	wild	11.4
28	6	wild	26.9
29	10.4	wild	570
30	22.6	wild	613
31	9.3	wild	13.3
32	7	wild	9.1
33	6	wild	11.8
34	1.3	wild	4.121026279
35	5	captive	4.412077347
36	5.25	captive	5.95121666
37	5	wild	2.57930338
38	8	captive	2.102718015
39	9	NA	2167.9
40	80	wild	478500
41	80	wild	109.925
42	80	wild	478500
43	16	wild	37.601
44	16	wild	9.138
45	26.8	captive	8600
46	10	wild	78.103
47	8	captive	13.58852953
48	7	wild	7.345035527
49	33	captive	2850

1			
2	12.3	captive	162.5090965
3	10	captive	3.581062404
4	10.7	captive	183.0708845
5	8	captive	2.113085263
6	2.3	captive	4.81828952
7	3.1	captive	224.3368963
8	1.8	captive	12.52158773
9	5	captive	61.16340678
10	5.2	captive	4.928761867
11	20	captive	18.90263638
12	24.3	captive	81.5
13	3	captive	3.871166842
14	13	captive	4.257969285
15	1.8	captive	24.5804276
16	12	captive	169.6683889
17	20.3	captive	235.4124088
18	2.1	captive	13.11414105
19	6.9	captive	20.61800478
20	3.2	captive	9.744329848
21	3.3	captive	16.73958951
22	4.3	captive	377.5
23	11.9	captive	55.69365789
24	2.4	captive	42.78328662
25	33.4	captive	125.548738
26	24.6	captive	608
27	2.3	captive	6.434416531
28	7.6	captive	3.291970266
29	6	captive	6.480803945
30	4	captive	10.80281117
31	15	captive	148.7914129
32	20.6	captive	371.812
33	6.1	captive	3.854255481
34	3.7	captive	0.557126984
35	3.5	captive	10.13720383
36	1.3	captive	7.468651219
37	7.916666667	captive	35.75480698
38	1.3	captive	27.15544109
39	8.7	captive	24.56054554
40	7.4	captive	8.838442323
41	5.916666667	captive	37.98975375
42	7.4	captive	345.7161406
43	3.2	captive	6.302213179
44	2.9	captive	5.318568324
45	1.3	captive	32.56060381
46	18.6	captive	101.095
47	1.4	captive	34.57431906
48	7.2	captive	44.32415934
49	12.4	captive	439

1			
2	15.8	captive	67500
3	11.4	captive	60.31799581
4	3.9	captive	4.156430974
5	3.8	captive	9.347985167
6	1.8	captive	18.67529785
7	6.7	captive	77.8
8	10	captive	7.479796586
9	4.3	captive	505.776848
10	2.833333333	captive	12.29732243
11	27.4	captive	336.83
12	8.3	captive	103.9226342
13	3.3	captive	35.07406867
14	8.1	captive	240
15	52	captive	63.15
16	2.3	captive	6.515741136
17	65.8	captive	87.2
18	5.4	captive	676.78
19	18.9	captive	93.485
20	4.8	captive	291.0836228
21	3.4	captive	8.864023026
22	2.5	captive	12.32874472
23	8.1	captive	31.5198344
24	3.1	captive	8.959765681
25	14	captive	21.56535655
26	3.3	captive	9.577750456
27	11.7	captive	1795.2
28	19.6	captive	486
29	15.6	captive	3668.77
30	26.4	captive	900
31	6	captive	30.92308851
32	5.2	captive	4.035008816
33	26.6	captive	548.5
34	6.9	captive	293.7342355
35	2	captive	28.46424183
36	4.7	captive	0.883667453
37	24.9	captive	9180.063252
38	9.6	captive	127.62
39	3.4	captive	0.59702663
40	14.1	captive	2551
41	4.4	captive	5.242494822
42	5.7	captive	126.8054083
43	26.4	captive	4200
44	4.5	captive	57.1175
45	3.1	captive	18.61027176
46	10.1	captive	43800
47	26.6	captive	59.525
48	4.7	captive	3.290227803
49	23.5	captive	6380

1			
2	11.1	captive	63.72
3	8.916666667	captive	84.28845229
4	15.9	captive	742.69
5	19.4	captive	930
6	7.3	captive	70.85
7	22.1	captive	90.575
8	7.7	captive	9.246358755
9	2.5	captive	23.78247308
10	14.1	captive	2300
11	18.9	captive	4364.33
12	11.1	captive	234.5133408
13	4.9	captive	0.516361093
14	13.1	captive	96.445
15	21.8	captive	16500
16	16.8	captive	940
17	3.2	captive	9.365329909
18	8.8	captive	10.57520762
19	14.3	captive	257.4202507
20	21.1	captive	66.25
21	2	captive	16.58458429
22	9.8	captive	1135
23	5.3	captive	49.12641071
24	7	captive	12.59838525
25	3.5	captive	147.4815179
26	7.8	captive	6.208
27	13	captive	9.174592271
28	18.2	captive	29.34194289
29	7.7	captive	16.84355872
30	3.6	captive	1.174061039
31	4.7	captive	22.43968382
32	3.2	captive	1.928608302
33	14	captive	3.409421412
34	11.1	captive	21.75560098
35	8	captive	33.27860611
36	1.5	captive	1.575213701
37	6.1	captive	10.48031383
38	6.9	captive	9.287448036
39	5.7	captive	7.079642294
40	11.3	captive	56.07663528
41	1.1	captive	0.883667453
42	5.9	captive	16.57849896
43	3.833333333	captive	25.60268841
44	5.3	captive	7.220388516
45	17.9	captive	33.79401923
46	2.1	captive	8.766347742
47	8.1	captive	24.69126846
48	12.1	captive	NA
49	3.5	captive	41.56497702

1			
2	15.8	captive	3724.607473
3	7.3	captive	86.1936352
4	22.5	captive	1717.952815
5	9.3	captive	28.99054806
6			
7	5	captive	7.174379011
8	15.5	captive	303.3555338
9	24.5	captive	1012.126305
10			
11	5	captive	33.42613694
12	24.3	captive	481.0611449
13	1.7	captive	2.724656051
14	14.1	wild	36.41932665
15			
16	7.9	captive	129.0097339
17	11.3	captive	5508.347909
18	10.5	captive	11.84016205
19			
20	2.1	captive	13.53139398
21	17.5	captive	3625.760761
22	9.1	captive	380.5211853
23	2.4	captive	41.193
24			
25	11	captive	143.981
26	12.11	captive	95.878
27	4	captive	25.235
28	3.4	captive	108.893
29			
30	7.7	captive	138.47
31	11.1	captive	13.474
32	12.7	captive	404.081
33	13.4	captive	39.591
34			
35	11	captive	32.157
36	8.11	captive	2.505
37	14.12	captive	100.588
38	4.9	captive	10.72
39			
40	3.1	captive	8.123
41	5	captive	4.637
42	10.7	captive	16.982
43			
44	9	captive	74.401
45	20	captive	31.016
46	20.1	captive	33.325
47	2.1	captive	4.486
48			
49	11.11	captive	126.48
50	16.11	captive	352.357
51	10	wild	204.935
52	21.9	captive	111.132
53			
54	4.11	captive	3.934
55	9.2	captive	60.002
56	18.6	captive	22.081
57	13.4	captive	72.57
58			
59	19.6	captive	265.206
60	4	captive	2.302
	9	captive	5.499

1			
2	14.5	captive	136.326
3	4.8	captive	7.583
4	11.4	captive	12.777
5	4	captive	4.637
6			
7	8.11	captive	28.091
8	3.7	captive	232.58
9	10.4	captive	89.536
10			
11	9.7	captive	8.904
12	4	captive	290.28
13	25.8	captive	336.694
14	3.8	captive	13.252
15	7.5	captive	10.738
16			
17	12.6	captive	16.977
18	6.2	captive	8.311
19	15	captive	143.371
20			
21	10	captive	7.583
22	4.5	captive	3.024
23	4.3	captive	40.968
24			
25	8.6	captive	2.158
26	4.8	captive	40.363
27	8	captive	24.726
28	6.9	captive	119.066
29			
30	3.7	captive	1.681
31	8.6	captive	116.942
32	12.5	captive	5.458
33	10.4	captive	22.535
34			
35	2.1	captive	0.904
36	2.1	captive	41.038
37	3.6	captive	203.971
38			
39	4	captive	71.204
40	4.9	captive	3.683
41	8.11	captive	13.866
42	10.4	captive	30.265
43			
44	10	captive	3.588
45	4.6	captive	33.221
46	6.7	captive	14.519
47	6.7	captive	392.092
48			
49	5	captive	2.02
50	10.3	captive	56.513
51	2	captive	48.497
52	13.9	captive	138.564
53			
54	5.11	captive	8.283
55	8.8	captive	95.74
56	10	captive	45.964
57	12.2	captive	59.422
58			
59	5.5	captive	3.391
60	3.6	captive	3.164
	4.11	captive	24.169

1			
2	6.4	captive	28.448
3	20	captive	67.861
4	6.1	captive	19.427
5	8.9	captive	28.413
6	6.5	captive	1.8
7	4.1	captive	39.318
8	6.1	captive	75.651
9	11	captive	18.516
10	8	captive	290.832
11	3.7	captive	49.887
12	4.5	captive	44.398
13	5.6	captive	20.977
14	6.1	captive	21.935
15	4.3	captive	73.79
16	10.6	captive	72.67
17	11	captive	72.67
18	11	captive	16.977
19	28.8	captive	83.391
20	9.11	captive	2.06
21	3.6	captive	47.377
22	20	captive	324.775
23	9.11	captive	75.651
24	10.1	captive	444.147
25	4.3	captive	3.771
26	2.2	captive	44.466
27	5	captive	50.438
28	3.6	captive	7.541
29	10.4	captive	104.955
30	7.5	captive	1.771
31	2.11	captive	1.712
32	7.5	captive	19.12
33	7.4	captive	18.174
34	10.11	captive	135.851
35	8.2	captive	3.538
36	3.8	captive	20.101
37	10.8	captive	85.404
38	6	captive	3.161191255
39	9	captive	6.18276545
40	2.4	captive	7.125255996
41	13.1	captive	845.3
42	36.7	captive	3326
43	2.166666667	wild	16.66147989
44	61.6	captive	3010.91
45	25.5	captive	4000
46	9.4	captive	3.76339822
47	6	captive	17.65298663
48	12.2	wild	37.93981314
49	14.7	captive	75.25

1			
2	16.9	captive	71.25458333
3	5.2	captive	50.54767009
4	4.833333333	captive	40.12116589
5	26.5	captive	57.98901946
6			
7	2.083333333	wild	41.3991249
8	4.8	captive	12.35471534
9	12	wild	9.346108638
10			
11	2	wild	9.182970684
12	2	wild	2.176338621
13	2	wild	11.6495902
14	7	wild	10.738
15			
16	22	captive	2009.370994
17	30	wild	4000
18	20.1	captive	72.406
19	7	wild	3.388
20			
21	15	captive	11.93780771
22	21	captive	4.811783061
23	23	captive	4.075664356
24	12	wild	30.061
25			
26	24	wild	277.2464614
27	12	wild	116
28	8.5	captive	14.63756091
29	30	wild	1451.357085
30			
31	16	captive	639.855
32	2	wild	3.128
33	3	wild	0.622
34	1	wild	0.536
35	3	wild	1.96
36	2	wild	1.391
37	14	wild	1.007
38	2	wild	1.352
39	7	wild	568.927
40	1	wild	18.313
41	3	wild	1.206
42	3	wild	0.622
43	11	wild	24.577
44	11	wild	29.8783283
45	18	wild	143.981
46	5	wild	2.88545566
47	2.5	wild	2.239148641
48	3	wild	2.26
49	4	captive	17.74451519
50	7	wild	15.45991701
51	8	wild	2.595951964
52	4	wild	5.286950185
53	12	wild	75
54	2.11	captive	76.46721894
55	7	captive	28.459

1			
2	4.3	wild	31.734
3	5.3	captive	26.86092454
4	19.3	captive	24.73865964
5	54.9	captive	137.9
6	15.2	captive	191.8988336
7	25.4	captive	519.6529305
8	10	captive	358.431
9	10	wild	156.917
10	15	captive	636.916
11	6	captive	504.071
12	6	captive	158.75
13	1	wild	0.996201407
14	27	captive	2572.439
15	15	captive	4.717196256
16	90	wild	31.515
17	24	captive	246.706
18	40	captive	21.73
19	7	captive	24.21029047
20	20	captive	22.26
21	20	captive	66.9822711
22	6	captive	28.81561831
23	4	captive	28.50583356
24	25	captive	27.634
25	29	wild	404.485
26	26	wild	380.185
27	30	wild	190000
28	80	captive	51900
29	2.2	wild	8.2
30	6.2	captive	11.978
31	42	wild	3200
32	17	wild	75.5
33	20.7	wild	164.1
34	20	wild	384.8
35	20.8	wild	2200
36	25	wild	840
37	21.8	wild	406
38	34	wild	1078
39	20	wild	56.7
40	23	wild	25.3
41	11	wild	532
42	7.5	wild	908
43	18	wild	75.75
44	11	wild	27.9
45	24	wild	1000
46	15	wild	24.089
47	15	wild	51.161
48	18	wild	2.356
49	8	wild	4.975771365

1			
2	8	wild	16.57920649
3	9.8	captive	1150
4	11	wild	1100
5	10.8	captive	57.875
6	11.4	captive	14.873
8	6	wild	54.788
9	30	captive	1230
10	7	captive	22.61500478
12	2	wild	2.747281632
13	3.5	wild	0.806827542
14	3	wild	3.347339383
16	6	wild	8.604799486
17	4	wild	26.76
18	21.2	captive	94.90149031
19	17	captive	167.3723973
21	8	captive	13.01160301
22	26	wild	181.389
23	7.4	captive	38.0284435
24	5.833333333	captive	5.642937483
26	3.9	captive	4.804446584
27	8.1	captive	30.26046417
28	3.9	captive	5.181200671
29	4.5	captive	16.94924129
31	13.11	captive	5.804955398
32	8.3	captive	0.684141864
33	3.1	captive	13.81377326
35	3.6	captive	15.4659174
36	4.4	captive	3.31
37	8.9	captive	72.99176983
38	7.4	captive	2.249429652
40	16.3	captive	26.34366245
41	5.5	captive	12.70851562
42	13.5	captive	10.39782315
43	4	captive	29.93430992
45	10.91666667	captive	42.33262073
46	12	captive	66.91867801
47	3.8	captive	3.11502818
48	3.2	captive	8.922093659
50	4	captive	2.646627391
51	8.3	captive	1.050341793
52	18	captive	89.83806319
53	4.9	captive	7.102971097
55	22	captive	2675.193898
56	9.3	captive	4.175218061
57	11.2	captive	6.410137312
58	13.1	captive	3.727067126
59	19.9	captive	16.97910257
60	2.8	captive	0.389157348

1			
2	28.8	captive	43.12221156
3	5.916666667	captive	20.49264678
4	6.4	captive	14.48965609
5	8.11	captive	3.977687422
6	8.3	captive	6.115599825
7	9.1	captive	2.270782598
8	4	captive	41.85967254
9			
10	13.8	captive	188.8877951
11	20.3	captive	31.20112592
12	4.3	captive	225.6463311
13	6.2	captive	3.17
14	7.5	captive	55.65823289
15	15.2	captive	68.30279239
16	9.9	captive	4.458513434
17	10	captive	47.81398975
18	12.6	captive	353.3811944
19	7	captive	25.44971451
20	4.5	captive	69.98814498
21	7	captive	5.58245231
22	7.1	captive	18.41121515
23	10.6	captive	54.05985978
24	11.3	captive	143.0831224
25	5.5	captive	3.281318278
26	2.6	captive	8.789760198
27	10.7	captive	123.9791167
28	4	captive	51.03268459
29	3.8	captive	29.21982759
30	8.9	captive	64.03920926
31	3.7	captive	72.77714203
32	4.4	captive	2.254621205
33	6.8	captive	77.7266106
34	6.2	captive	12.79023969
35	6.8	captive	69.34301372
36	10.4	captive	33.70145261
37	13	captive	123.5478776
38	4.6	captive	6.831364968
39	8.8	captive	4.643820759
40	4	captive	20.67911877
41	9.6	captive	47.81112517
42	9.7	captive	14.78786719
43	6	captive	1.556758945
44	22	captive	49.38364601
45	48	captive	568.1510022
46	43	wild	5500
47	29.1	wild	1048.1
48	15.9	wild	120
49	17	captive	117
50	5	wild	908

1			
2	9.6	wild	138
3	12	wild	7.6
4	18	wild	1530
5	28	wild	1036.97
6	25	wild	140
7	8.8	wild	21.2
8	70	captive	8300
9	16	wild	18.3
10	10.3	wild	19.7
11	14	wild	32.9
12	30.8	wild	250
13	19.1	wild	186
14	7	wild	1929.5
15	12	wild	14.75
16	24	wild	47.325
17	11	wild	12.7
18	17	wild	54.9
19	12	wild	63.5
20	15.3	wild	30
21	9.5	wild	35
22	9.6	wild	74
23	11	wild	23.375
24	10	captive	13.359
25	5	wild	1.467
26	6	wild	2.972
27	4	wild	1.321
28	6	wild	4.94
29	5	wild	2.243
30	5	wild	1.309
31	9	wild	8.882
32	8	wild	14.688
33	8	wild	26.819
34	5	wild	4.58
35	7	wild	4.074
36	4	wild	2.063
37	14	captive	139.0351067
38	16	wild	12.628
39	3	wild	4.550197384
40	13	wild	33.191
41	9	wild	6.04529904
42	50	wild	23.55
43	8	captive	4.055428507
44	12	wild	11.14248253
45	100	captive	700
46	20	wild	36.19530394
47	13	captive	189.772
48	13	captive	173.5976736
49	10	NA	169.5

1			
2	55	NA	2200
3	13	wild	5.508254589
4	5	wild	33.568
5	50	wild	55000
6	10	wild	5.028488765
7	9	wild	6.120968534
8	10	captive	6.180674434
9	6	captive	3.878062772
10	32.9	wild	306
11	20	captive	6.76
12	8	NA	79
13	37.5	captive	3601.3
14	11	captive	1000
15	10	wild	1030
16	102	captive	69.841
17	10	captive	36.64843536
18	2	wild	6.923826495
19	35	captive	366.5609194
20	12	wild	4.529716658
21	23	wild	935.201
22	26.6	wild	998.7
23	25	captive	130
24	24	captive	593.5
25	11	wild	28.4
26	22	wild	614
27	17.9	wild	133.3
28	25.6	wild	1550
29	28	wild	791
30	31.8	captive	1250
31	21.1	wild	1210
32	8	wild	10.2
33	36	wild	42
34	39.9	wild	499.4
35	30.2	wild	690
36	10.4	captive	73.79213226
37	46	captive	90000
38	27.4	captive	315000
39	9.4	captive	120
40	20.9	captive	55000
41	43.8	captive	475000
42	27	captive	9000
43	40	captive	1430000
44	26.3	captive	667000
45	19.6	captive	73100
46	14.2	captive	149
47	9.8	captive	200
48	30.1	captive	275000
49	16.8	captive	160000

1			
2	20.4	captive	52500
3	18.4	captive	1066.7
4	11.4	captive	130
5	23.4	captive	8600
6	12.1	captive	9000
7	22.3	captive	130000
8	33.5	captive	630000
9	56	captive	90000
10	23.7	captive	23000
11	3.8	captive	35
12	3.8	captive	20.3
13	17.8	captive	884
14	20.2	captive	50000
15	8	captive	800
16	21.9	captive	180000
17	20.9	captive	82500
18	27	captive	10300
19	12	captive	30000
20	2.5	captive	120
21	19.3	captive	70000
22	4.5	captive	117.5
23	9.1	captive	1350
24	4.4	captive	32.9
25	23	captive	4000
26	5.5	captive	82.5
27	21.8	captive	35200
28	19	captive	28863
29	20.3	captive	27000
30	26.8	captive	10100
31	16.3	captive	48500
32	17.6	captive	37500
33	31.6	captive	50000
34	4.8	captive	22.5
35	7.2	captive	459
36	10.4	captive	157.6
37	10	captive	3400
38	7.4	captive	760
39	31.4	captive	9100
40	5.6	captive	32.5
41	7	captive	350
42	19.1	captive	41000
43	46.6	captive	268000
44	21.2	captive	3500
45	33.7	captive	127500
46	12.1	captive	4750
47	7.9	captive	172.7
48	6	captive	100
49	17.4	captive	3500

1			
2	14.3	captive	3175
3	11.4	captive	925
4	60	captive	1060000
5	5.3	captive	44
6			
7	26.4	captive	610000
8	6.8	captive	53
9	7.1	captive	136
10			
11	47.6	captive	115000
12	21.1	captive	70000
13	30.6	captive	110000
14	4.1	captive	35
15			
16	32.8	captive	415000
17	16.2	captive	4750
18	40	captive	475000
19	36.8	captive	117500
20			
21	8.8	captive	542.5
22	8.8	captive	150.6
23	17.6	captive	31750
24	13.1	captive	13000
25			
26	10.9	captive	3990
27	3.5	captive	13
28	4.5	captive	285
29			
30	39	captive	109250
31	6.7	captive	150
32	22	captive	57000
33	51.6	captive	200000
34	23	captive	84500
35			
36	5.2	captive	100
37	18.2	captive	1700
38	9.3	captive	902.6
39			
40	8.8	captive	565
41	8.8	captive	5000
42	7.6	captive	23.5
43	9.4	captive	1021
44			
45	8.4	captive	590
46	24	captive	80000
47	5.3	captive	27.3
48	6.5	captive	70
49			
50	14.1	captive	127
51	5	captive	15
52	19	captive	65.4
53			
54	4.1	captive	26
55	14.4	captive	12500
56	14.8	captive	600
57	10.7	captive	4175
58			
59	13	captive	2700
60	10.2	captive	1000
	23.2	captive	18000

1			
2	2.3	captive	265.5
3	19.2	captive	1650
4	15.3	captive	1650
5	4.7	captive	20
6	7	captive	27
8	28.5	captive	148950
9	5.2	captive	58.7
10	21.8	captive	132250
11	62.5	captive	748000
12	27.1	captive	20000
13	15.2	captive	16200
14	30	captive	25500
15	30.3	captive	615
16	27.4	captive	4300
17	11.8	captive	4175
18	5.3	captive	27.5
19	31.3	captive	10000
20	27.5	captive	186500
21	13.9	captive	11500
22	8.7	captive	125
23	19	captive	1015
24	6	captive	64
25	13	captive	2519
26	9	captive	3800
27	21.4	captive	1700
28	4.5	captive	21
29	33.8	captive	874
30	14.3	captive	6000
31	4.7	captive	43
32	3.6	wild	12.5
33	5.5	captive	70
34	39.2	captive	103750
35	42.5	captive	425000
36	21.9	captive	32500
37	12.7	captive	145
38	26.3	captive	42000
39	3.2	captive	97
40	5.7	captive	40
41	17	captive	272
42	24.1	captive	190000
43	21.7	captive	10000
44	22.7	captive	33500
45	13.7	captive	8500
46	15.9	captive	4250
47	3.6	captive	17.5
48	11	captive	79
49	8.3	captive	40
50	9.4	captive	20.4

1			
2	14.8	captive	405
3	19.6	captive	2950
4	28.5	captive	22000
5	7	captive	292
6	5.3	captive	52
7	24	captive	84000
8	14.4	captive	6000
9	38.5	captive	8882.5
10	33.2	captive	296000
11	6.3	captive	637.5
12	17.9	captive	17500
13	46	captive	103000
14	5.3	captive	332.5
15	35.7	captive	180000
16	23.6	captive	7400
17	3.3	captive	13
18	28	captive	20000
19	23.2	captive	28250
20	29.1	captive	10875
21	4.4	captive	26.2
22	8.8	captive	13
23	22.3	captive	4500
24	18.7	captive	103
25	18.3	captive	23250
26	18.9	captive	8999.9
27	19	captive	672
28	17	captive	5000
29	18.8	captive	11000
30	17.3	captive	24000
31	16.1	captive	15750
32	16.8	captive	14625
33	15	captive	572.5
34	11.2	captive	181
35	15.6	captive	2125
36	20	captive	1765.3
37	19	captive	9581
38	3.2	captive	825
39	30.8	captive	5945
40	15.2	captive	598.5
41	6.8	captive	285
42	24.9	captive	456.5
43	7.3	captive	46.1
44	25.9	captive	12000
45	6.2	captive	122.5
46	26.3	captive	7325
47	15	captive	388.5
48	5.4	captive	1040
49	19.8	captive	39000

1			
2	31.2	captive	3705
3	6	captive	341
4	10.6	captive	126
5	32.1	captive	127551
6	19.4	captive	456.3
7	12.8	captive	12250
8	23.6	captive	110000
9	27.5	captive	177500
10	29.2	captive	9275
11	4	captive	48
12	3	wild	2.4
13	27.3	captive	8000
14	5.9	captive	11.7
15	8.6	captive	291
16	2.7	captive	116.4
17	5.8	captive	288.8
18	16.8	captive	21500
19	23.8	captive	170000
20	7	captive	719
21	3.2	captive	212
22	22.5	captive	62000
23	7.5	captive	100
24	4.2	captive	232
25	10	captive	15.2
26	15	captive	30000
27	20	captive	25000
28	7.3	captive	28.4
29	49	captive	1100000
30	15.2	captive	15000
31	20	captive	8000
32	20.8	captive	3300
33	9.7	captive	11.7
34	31	captive	5465
35	4.8	captive	42.3
36	9.7	captive	4100
37	17	captive	4150
38	13.7	captive	10250
39	7.4	captive	5500
40	25.2	captive	11450
41	20.8	captive	61000
42	30.8	captive	5620
43	17.9	captive	13900
44	28.6	captive	4425
45	15	captive	696.5
46	25.6	captive	52500
47	29.2	captive	150000
48	5.6	captive	20
49	14	captive	910

1			
2	7.4	captive	1300
3	18.5	captive	47500
4	11.5	captive	374
5	9.9	captive	4000
6			
7	30.9	captive	1384.5
8	5.8	captive	226
9	34	captive	12000
10			
11	16.8	captive	58000
12	22.2	captive	225000
13	13.2	captive	1310
14	33.5	captive	225000
15			
16	14.1	captive	6000
17	25.2	captive	1235
18	7.9	captive	65
19	17.1	captive	33000
20			
21	21.7	captive	92500
22	12.8	captive	3250
23	24.5	captive	3100
24			
25	36.2	captive	2060
26	23.1	captive	9500
27	36.1	captive	155000
28	32.8	captive	1260000
29			
30	5.6	captive	35
31	10.7	captive	1744
32	20	captive	342
33			
34	14.6	captive	48500
35	32	captive	7650
36	22.5	captive	159000
37	26	captive	9720
38			
39	5.4	captive	280
40	25.4	captive	94800
41	46	captive	7000
42	41.1	captive	63000
43			
44	16.8	captive	1470
45	15.2	captive	10000
46	12.1	captive	1000
47	45	captive	2175000
48			
49	9.8	captive	663
50	31	captive	8000
51	10	captive	75
52	15.8	captive	2000
53			
54	22.9	captive	2750
55	23.3	captive	2277.5
56	55	captive	39925
57	43.5	captive	1602330
58			
59	23	captive	3000
60	24	captive	435
	25	captive	400

1			
2	27	captive	4702.5
3	37	captive	7535
4	17.8	captive	110
5	26.4	captive	185000
6	37.3	captive	2555
7	36	captive	3585
8	30	captive	4500
9	5.7	captive	50
10	30	captive	31000
11	8.8	captive	1000
12	17.5	captive	11600
13	20.3	captive	16000
14	45	captive	6207.5
15	33	captive	5575
16	15.4	captive	307
17	47.1	captive	7267.5
18	4.2	captive	7.4
19	40	captive	7875
20	28.3	captive	8400
21	32.4	captive	5462.5
22	7.9	captive	2988
23	19	captive	5500
24	21.9	captive	2250
25	14.2	captive	23500
26	23.5	captive	217500
27	10.2	captive	1900
28	16	captive	800
29	19	captive	2000
30	25.9	captive	225000
31	26	captive	800
32	13.6	captive	3000
33	7.8	captive	900
34	29.8	captive	700000
35	17.3	captive	43500
36	22.1	captive	873
37	3.1	captive	57
38	17	captive	3500
39	7.5	captive	755
40	7	captive	504
41	46.3	captive	23000
42	19.7	captive	67000
43	13.1	captive	2700
44	16.7	captive	507
45	24.5	captive	170000
46	23.7	captive	14500
47	3.6	captive	250
48	21	captive	70000.3
49	28	captive	13666.7

1			
2	25	captive	6543.2
3	6.1	captive	22
4	22.9	captive	43000
5	27	captive	2500
6	18	captive	3500
7	16	captive	4500
8	4	captive	850
9	3.9	captive	90
10	15.9	captive	17000
11	11.5	captive	600
12	19.8	captive	19500
13	25	captive	795
14	9.6	captive	318
15	8.9	captive	163.3
16	36.2	captive	2500
17	11.9	captive	9500
18	5.3	captive	10
19	44	captive	6000
20	42.8	captive	6000
21	35.8	captive	3165
22	23.3	captive	1347.5
23	5.2	captive	30
24	27.1	captive	700000
25	20	captive	2225
26	36	captive	1480
27	14	captive	312.5
28	20	captive	2910
29	26.2	captive	804
30	20	captive	3500
31	26.4	captive	1120
32	31	captive	384000
33	49	captive	5925
34	12.4	captive	5000
35	17	captive	76000
36	13.9	captive	2750
37	7.6	captive	1233
38	46	captive	9492.5
39	12	captive	12.5
40	19.8	captive	82500
41	46	captive	7887.5
42	21.3	captive	535
43	22.9	captive	71500
44	36	captive	9317.5
45	16	captive	119.2
46	15	captive	7300
47	14	captive	108.25
48	17.9	captive	1350
49	9.4	captive	4030.18

1			
2	20	captive	10000
3	27.3	captive	53750
4	4.5	captive	26
5	17.6	captive	342
6	21.9	captive	105000
7	15.8	captive	10500
8	18.2	captive	64.8
9	17.1	captive	419
10	22	captive	88000
11	39	captive	18250
12	17.4	captive	19000
13	22.9	captive	4000
14	12.6	captive	1250
15	6.7	captive	485
16	60	captive	64475
17	20	captive	2000
18	29	captive	13516.5
19	14.8	captive	18100
20	18.3	captive	7000
21	20.5	captive	122500
22	33.9	captive	7080
23	6.8	captive	12
24	61.2	captive	3750000
25	24	captive	3250
26	21	captive	1900
27	21	captive	10650
28	20.8	captive	36000
29	23.9	captive	37500
30	15.3	captive	60000
31	14.8	captive	190
32	6.7	captive	110
33	12.6	captive	5350
34	37.3	captive	4550
35	30	captive	3600
36	4.6	captive	450
37	13.3	captive	1863.2
38	29	captive	3650
39	17.2	captive	10650
40	23.8	captive	11400
41	21.7	captive	180000
42	12.5	captive	2300
43	11.8	captive	17500
44	11.1	captive	2250
45	17.5	captive	4550
46	14	captive	20000
47	9.5	captive	271.7
48	38	captive	280000
49	65	captive	4800000

1			
2	33	captive	32500
3	11	captive	540
4	20	captive	6540
5	16	captive	2400
6			
7	15.4	captive	18500
8	17.8	captive	1702.5
9	37	captive	5900
10			
11	35.3	captive	8625
12	17.4	captive	1331.5
13	4.4	captive	60
14	15.9	captive	1267
15			
16	22.7	captive	1866.7
17	15.1	captive	485
18	8.9	captive	350
19	44	captive	2467.5
20			
21	17.8	captive	55000
22	13.7	captive	2300
23	22.6	captive	87500
24			
25	21.8	captive	1235
26	5.3	captive	34
27	30	captive	6755
28	39.5	captive	800000
29			
30	25.1	captive	14617.5
31	3.6	captive	29
32	14.8	captive	17000
33	18.5	captive	95000
34			
35	37.6	captive	7912.5
36	34	captive	7965
37	4	captive	70
38	35.9	captive	46000
39			
40	13.3	captive	790
41	11.6	captive	197.8
42	38	captive	5735
43			
44	10.1	captive	3700
45	15.2	captive	13000
46	19.8	captive	49500
47	29	captive	3950
48			
49	13.8	captive	2150
50	12.2	captive	58.6
51	21.1	captive	90000
52	11.1	captive	67
53			
54	31.6	captive	230000
55	18	captive	274.8
56	12.8	captive	278
57			
58	21.1	captive	63000
59	18.8	captive	21000
60	31.3	captive	84000
	73	captive	360000

1			
2	36.8	captive	6250
3	5.4	captive	6600
4	16.7	captive	6500
5	5.5	captive	5800
6			
7	13.9	captive	3570
8	13.4	captive	60
9	10	captive	75
10			
11	19.6	captive	2942.5
12	31.1	captive	9720
13	10.1	captive	80
14	13.7	captive	257
15			
16	28.4	captive	11950
17	28.3	captive	6185
18	16	captive	2500
19	20.9	captive	100000
20			
21	33.9	captive	9525
22	21.1	captive	400
23	19.7	captive	672.1
24			
25	7.8	captive	80
26	14.5	captive	2450
27	3.4	captive	34
28	14	captive	6750
29			
30	35	captive	4370
31	16.2	captive	102750
32	17.2	captive	40500
33	16.9	captive	16000
34			
35	23	captive	13500
36	26.1	captive	7081.8
37	13.6	captive	1750
38	7.1	captive	268.5
39			
40	17.1	captive	192.2
41	39	captive	6362.5
42	11.7	captive	1250
43			
44	20.4	captive	316.7
45	12.8	captive	2250
46	12.3	captive	1000
47	16.3	captive	2900
48			
49	28	captive	92500
50	16	captive	2800
51	19.3	captive	73000
52	10.3	captive	600
53			
54	14.8	captive	3500
55	21.8	captive	306.25
56	14.5	captive	15011
57	15.5	captive	48500
58			
59	4.9	captive	20.8
60	4.7	captive	47.6
	7.8	captive	150

1			
2	26.2	captive	445.5
3	41.2	captive	7500
4	40	captive	480000
5	13.5	captive	6500
6	17.3	captive	75000
7	22.8	captive	80000
8	18.5	captive	120000
9	21.9	captive	307500
10	20.3	captive	680000
11	34.9	captive	725000
12	26.2	captive	825000
13	25.8	captive	62000
14	21.3	captive	135000
15	43	captive	215000
16	14	captive	8000
17	15.9	captive	3500
18	21.2	captive	50000
19	11.7	captive	650
20	31.9	captive	42250
21	29	captive	207500
22	15.4	captive	12000
23	36.5	captive	250000
24	29.6	captive	300000
25	32	captive	8150
26	16.5	captive	343.2
27	15	captive	355.8
28	15.2	captive	490
29	19	captive	495.8
30	20.5	captive	501.3
31	23.7	captive	518.5
32	20.2	captive	519.2
33	20.2	captive	519.2
34	20	captive	543.5
35	21	captive	553.8
36	47	captive	2552.5
37	46	captive	2642.5
38	54.8	captive	2655
39	26.1	captive	1053.75
40	27	captive	3580
41	24.1	captive	4700
42	26	captive	5250
43	29.5	captive	14750
44	36	captive	16200
45	17.4	captive	311.2
46	44.1	captive	6000
47	46.1	captive	6852.5
48	41	captive	6875
49	43	captive	10900

1			
2	17.6	captive	1737.5
3	25	captive	1780
4	14	captive	2650
5	16.7	captive	2000
6	6.9	captive	12
7	5	captive	113
8	6.2	captive	123
9	12.6	captive	62.8
10	9.3	captive	75
11	9.6	captive	85
12	3	wild	133
13	6	wild	17.925
14	5.6	captive	2.143373937
15	5.6	captive	2.551676637
16	5.6	captive	1.089002244
17	5.6	captive	1.865819527
18	5.2	captive	0.960168476
19	10	captive	10.55
20	7	captive	3.317051438
21	1.916666667	captive	8.59514467
22	1.7	captive	2.204545965
23	3	captive	2.53510348
24	6.4	captive	5.890816168
25	8	captive	3.158240115
26	5.33	captive	1.604282393
27	3.7	captive	2.823348802
28	3.7	captive	3.471761291
29	6.8	captive	2.742642911
30	2.08	captive	3.564936509
31	30	captive	169.983815
32	14	captive	13.89715474
33	2.5	captive	3.631124277
34	4.4	captive	1.746057418
35	8	captive	3.698112052
36	2	wild	12.55286729
37	1.3	captive	3.029770248
38	4.7	captive	1.722609866
39	4	captive	8.478564933
40	5	captive	41.76563322
41	2.6	captive	4.488713339
42	10	captive	4.617194017
43	10	captive	5.684264813
44	9.3	captive	2.66890232
45	10	captive	3.201842919
46	5	captive	14.69
47	6.9	captive	23.20326157
48	8	captive	7.800789465
49	18	captive	70.8404514

1			
2	5.2	captive	35.24987632
3	3.4	captive	0.382696729
4	6.2	captive	18.5270406
5	11	captive	5.784355245
6	3.1	captive	3.371127685
7	5	captive	48.7106535
8	5	captive	11.57099065
9	14.7	captive	8.700116867
10	20	captive	23.25139249
11	27.3	wild	3135
12	21	wild	7430
13	3	wild	17.92931519
14	28	wild	2079.783592
15	22	wild	7.4
16	21	wild	7
17	12	wild	5.6
18	19	wild	7.4
19	20.5	wild	15
20	11	wild	10
21	24	wild	5.3
22	20	wild	7.7
23	23	wild	10.25
24	22.7	wild	11
25	16	wild	16
26	13	wild	35
27	33	wild	23
28	8	wild	6
29	6	wild	9.75
30	14	wild	38.6
31	12	wild	27.75
32	25	captive	125
33	13	wild	7
34	41	wild	7
35	28	wild	8.5
36	20.5	wild	14.25
37	7.5	captive	454.4016171
38	26	captive	247.5046641
39	8	captive	140.9345147
40	16	captive	76.94247812
41	8	wild	3500
42	30	captive	499.7037936
43	54	captive	38.12136031
44	22	captive	10.56722519
45	2	wild	4.997350143
46	40	captive	58.93596836
47	10.5	captive	500
48	2	wild	12
49	9	captive	711.2

1			
2	11	wild	2.366
3	14	wild	29.842
4	11	wild	22.546
5	10	wild	5.188789157
6	8	wild	3.177745001
7	16	wild	97.026
8	9	wild	21.991
9	7	wild	5.98
10	31.64	captive	63.3
11	10.2	captive	85
12	18.8	captive	66
13	37.94	captive	115.1
14	33.59	captive	288
15	32.24	captive	48.3
16	14	captive	100
17	37.72	captive	440
18	35.46	captive	452
19	6.03	wild	47
20	34.1	captive	55
21	25.03	captive	110
22	29.7	captive	110
23	29.48	captive	154
24	28.45	captive	159
25	30.83	captive	240
26	29.06	captive	250
27	24.73	captive	260
28	34.62	captive	270
29	27.23	captive	275
30	39.45	captive	320
31	28.22	captive	320
32	29.65	captive	620
33	42.9	captive	620
34	38.75	captive	750
35	5	captive	27.6818028
36	9	captive	21.93139816
37	4	captive	5.84077868
38	3	captive	6.208231451
39	8	wild	3.922172431
40	4	captive	15.00525726
41	5	captive	5.718561477
42	4	captive	5.749494751
43	4	captive	3.195881917
44	4	captive	7.393351374
45	5	captive	47.84727165
46	6	captive	64.55062058
47	5	captive	70.79221925
48	9	wild	17.05301493
49	5	captive	7.008008621

1			
2	6	captive	123.4119306
3	5	captive	6.006470024
4	8	captive	38.8562165
5	8	captive	2.885016722
6	6	captive	8.47589987
7	7.7	wild	165.032
8	7	captive	19.176
9	22	captive	16.741
10	5	wild	20.124
11	4	wild	87.096
12	5	wild	1.397
13	4	wild	69.89
14	6	wild	72.042
15	11	wild	69.89
16	3	wild	1.771
17	4.3	wild	198.416
18	3	wild	0.887
19	15.5	captive	252.727
20	4	wild	5.4
21	28	wild	9.7025
22	2	wild	1.211249745
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
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59			
60			

Body Temperature (°C)	Activity Time	Mean Annual Temperature (°C)
NA	Nocturnal	23.74848
35	Diurnal	23.54408
NA	Cathemeral	24.84865881
NA	Nocturnal	13.4902
NA	Cathemeral	10.0919
NA	Cathemeral	22.52479
NA	Diurnal	19.1695
25	Diurnal	23.8336
NA	Cathemeral	25.32085
NA	Diurnal	4.573622545
NA	Diurnal	26.56654
31.6	Diurnal	23.30734
NA	Nocturnal	21.15307
NA	Diurnal	26.03124
NA	Diurnal	24.19737
NA	Nocturnal	8.122843
33.4	Diurnal	19.2922
NA	Crepuscular	24.40754
25	Nocturnal	22.944
NA	Diurnal	24.7686
NA	Diurnal	22.353636
NA	Nocturnal	17.30969
NA	Nocturnal	23.3562
NA	Diurnal	22.63878
NA	Nocturnal	25.00416
NA	Crepuscular	24.69923
25	Nocturnal	NA
30	Cathemeral	18.21375
22	Nocturnal	11.128
NA	Diurnal	22.3884
NA	Nocturnal	16.90908
34.9	Diurnal	16.35118
NA	Nocturnal	18.8779
NA	Nocturnal	25.20209
NA	Diurnal	23.55361
39.6	Diurnal	NA
NA	Diurnal	24.92118
NA	Diurnal	24.0049
26.1	Diurnal	11.02742
NA	Diurnal	14.20483177
NA	Nocturnal	18.5848
NA	Nocturnal	15.6141
NA	Diurnal	23.81506
NA	Diurnal	24.80712
NA	Diurnal	25.2344
NA	Diurnal	21.6149
NA	Nocturnal	21.53965

1			
2	NA	Nocturnal	24.44272
3	NA	Diurnal	24.77174
4	NA	Diurnal	23.7686
5	NA	Diurnal	25.3147
6	NA	Diurnal	26.3147
7	NA	Diurnal	25.4692
8	NA	Nocturnal	26.13826
9	34	Nocturnal	25.13945
10	NA	Nocturnal	1.415856227
11	30	Diurnal	23.33779
12	NA	Nocturnal	17.35177
13	42.9	Diurnal	NA
14	37	Diurnal	23.3689
15	NA	Cathemeral	25.16503
16	34	Diurnal	23.85508
17	NA	Diurnal	23.17931
18	NA	Diurnal	20.88901
19	NA	Diurnal	23.43997
20	NA	Diurnal	22.96253
21	NA	Diurnal	22.90289
22	NA	Nocturnal	18.16414
23	NA	Diurnal	17.07167
24	NA	Nocturnal	19.67387
25	34	Nocturnal	25.94665
26	NA	Diurnal	18.92638
27	NA	Diurnal	27.24576
28	NA	Diurnal	24.86889
29	NA	Diurnal	17.37279
30	NA	Nocturnal	25.46919
31	NA	Nocturnal	25.17683
32	NA	Diurnal	22.98671
33	34	Nocturnal	22.36749
34	20	Nocturnal	24.1594
35	NA	Nocturnal	20.56285
36	NA	Nocturnal	24.16631
37	NA	Nocturnal	23.5318
38	NA	Cathemeral	10.5326
39	NA	Diurnal	NA
40	38.3	Diurnal	-16.13254942
41	NA	Diurnal	NA
42	NA	Nocturnal	14.91375092
43	NA	Nocturnal	17.036
44	NA	Diurnal	21.0024
45	NA	Diurnal	8.43135
46	25	Nocturnal	12.0525
47	NA	NA	10.8797
48	NA	Nocturnal	11.88
49	NA	Diurnal	14.2105

1			
2	NA	Nocturnal	19.5593
3	NA	Diurnal	26.7123
4	NA	Diurnal	25.9501
5	NA	Nocturnal	18.5875
6	NA	Diurnal	3.81305
7	30	Diurnal	5.5462
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5	NA	Nocturnal	NA
6	NA	Nocturnal	NA
7	NA	Nocturnal	NA
8	NA	Nocturnal	NA
9	NA	Nocturnal	NA
10	NA	Diurnal	NA
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19	NA	Nocturnal	15.75993
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21	35	Nocturnal	16.47857
22	NA	Nocturnal	16.62092
23	23	Cathemeral	17.90073
24	NA	Cathemeral	18.05252
25	23.2	Nocturnal	18.69452
26	20.9	Nocturnal	18.7932
27	22.4	Nocturnal	19.63204
28	25.4	Nocturnal	19.83519
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30	NA	Nocturnal	20.11044
31	NA	Diurnal	20.5365
32	24.2	Nocturnal	21.08562
33	NA	Nocturnal	21.27236
34	23.8	Nocturnal	21.34515
35	NA	Nocturnal	21.35188
36	NA	Nocturnal	21.58809
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38	NA	Nocturnal	22.28089
39	NA	Nocturnal	22.30496
40	27.2	Nocturnal	22.65506
41	NA	Nocturnal	22.7155
42	NA	Nocturnal	23.05949
43	29.3	Cathemeral	23.21193
44	NA	Nocturnal	23.52404
45	NA	Nocturnal	23.91263
46	NA	Nocturnal	24.0033
47	NA	Nocturnal	24.1444
48	NA	Nocturnal	24.652
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50	NA	Nocturnal	25.08658
51	NA	Nocturnal	25.26776

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4	NA	Nocturnal	25.5845
5	27.2	Cathemeral	25.7981
6	NA	Nocturnal	27.2545
7	NA	Nocturnal	21.89589
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9	30	Cathemeral	26.30491
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32	34.8	Nocturnal	26.00392151
33	NA	Nocturnal	27.72154266
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21	NA	Diurnal	22.266191
22	NA	Diurnal	25.24683
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Temperature Seasonality (°C standard deviation *100)

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470.1785

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23	726.255
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26	253.1483
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For Peer Review

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For Peer Review

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For Peer Review

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For Peer Review

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For Peer Review

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For Peer Review

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For Peer Review

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14 56.45239763
15 139.4703124
16 348.3711368
17 250.6705252
18 128.6070912
19 272.4456625
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21 58.87790637
22 318.6166711
23 242.4390998
24 250.2420669
25 259.3574367
26 350.8218834
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28 387.9503048
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30 130.5913732
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32 117.7118279
33 202.2816547
34 388.8536869
35 47.2977365
36 44.91473896
37 29.39476512
38 232.0663462
39 31.66883373
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41 113.0984269
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44 559.3168151
45 689.496816
46 69.23064418
47 87.6919211
48 295.9942636

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9	175.1014184
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14	251.9910513
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36	73.63268095
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56	42.9004631
57	45.74042437
58	
59	NA
60	480.7624484
	65.00638883

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1 374.4254694
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17 413.595647
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25 110.3336137
26 NA
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32 153.1464134
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34 143.1575468
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39 593.9676575
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46 314.6146532
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48 NA
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57	NA
58	NA
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60	NA

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2 NA
3 NA
4 NA
5 NA
6 NA
7 NA
8 NA
9 NA
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15 926.93121
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19 525.5319
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22 321.1717
23 401.5389
24 82.93321
25 515.1196
26 67.26901
27 467.867
28 230.2757
29 776.0913
30 330.3889
31 600.065
32 315.1691
33 217.9269
34 440.9556
35 606.6854
36 158.8572
37 215.9913
38 250.5061
39 268.3337
40 574.4947
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42 161.9951
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45 303.5439
46 146.2252
47 205.0085
48 201.359
49 69.4636
50 44.52049
51 80.37817

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6	78.83178
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8	201.359
9	537.968
10	220.2704
11	NA
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13	128.9393
14	168.5668
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18	435.41327
19	614.6896741
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21	353.5178361
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23	866.9233267
24	540.0060532
25	406.6513644
26	590.2940876
27	593.478992
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29	448.0984777
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32	168.3191394
33	276.2297845
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35	NA
36	NA
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38	742.4003
39	387.7268
40	348.209
41	977.3663686
42	404.6709
43	620.4971
44	424.7405
45	546.51
46	469.8578
47	NA
48	396.5724947
49	223.303

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2 710.14783
3 295.824
4 357.022
5 717.2707
6
7 819.1324
8 971.25336
9 614.323
10 869.2636
11 424.334395
12 38.28164829
13 331.5602057
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15 NA
16 NA
17 NA
18 NA
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32 NA
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34 NA
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36 NA
37 NA
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41 NA
42 NA
43 622.72137
44 838.49121
45 543.31995
46 789.52045
47 716.712
48 484.84326
49 449.32825
50 706.87488
51 723.20807
52 451.84607
53 543.31995
54 719.618
55 713.65656
56 747.70007
57 813.40851
58
59
60

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6	397.4602
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8	662.02008
9	653.87238
10	843.607
11	358.67947
12	954.2832
13	819.11041
14	514.824
15	930.26642
16	256.328
17	376.12247
18	223.608
19	661.06915
20	423.80048
21	453.43231
22	56.89466
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	Basal Metabolic Rate (ml O ₂ h ⁻¹)	Field Metabolic Rate (kJ d ⁻¹)
2	NA	NA
3	2.26	3
4	24000	NA
5	NA	NA
6	NA	NA
7	NA	NA
8	NA	NA
9	NA	NA
10	NA	NA
11	52.77342	NA
12	NA	NA
13	NA	NA
14	NA	NA
15	NA	NA
16	NA	NA
17	NA	NA
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19	NA	NA
20	NA	NA
21	NA	NA
22	NA	NA
23	NA	NA
24	NA	NA
25	1.8025	NA
26	NA	NA
27	0.208	NA
28	NA	NA
29	NA	NA
30	NA	NA
31	NA	NA
32	NA	NA
33	NA	NA
34	NA	NA
35	0.294235	NA
36	57.25099	NA
37	8.875571	NA
38	0.164	NA
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40	NA	NA
41	NA	NA
42	NA	NA
43	NA	NA
44	NA	NA
45	NA	NA
46	NA	NA
47	NA	NA
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53	NA	NA
54	NA	NA
55	NA	NA
56	NA	NA
57	NA	NA
58	NA	NA
59	NA	NA
60	NA	NA

1		
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4	NA	NA
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6	0.134	NA
7	0.787	NA
8	NA	NA
9	807.3768	NA
10	56.9	NA
11	18.2	NA
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13	67.69358	NA
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22	NA	NA
23	NA	NA
24	NA	NA
25	NA	NA
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57	0.542116	NA
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60	NA	NA

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35	NA	NA
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37	18.8	NA
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	21.83862	NA

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45	NA	NA
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55	NA	NA
56	19.2	NA
57	21.78	NA
58	24.73753	NA
59	25.4251	NA
60	28.08613	NA

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5	33.33981	NA
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8	33.6601	NA
9	35.67275	NA
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12	42.01676	NA
13	49.34107	NA
14	54.38307	NA
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17	75.62189	95
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34	2.2	5.8
35	1.802775	NA
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56	672.5604	NA
57	0.343352447	NA
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59	NA	NA
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21	10.6507	NA
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32	1.283539	NA
33	NA	NA
34	116.2	64.9
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7	21.90888	12.8
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13	NA	NA
14	192.7022	NA
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46	NA	180.301824
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56	NA	NA
57	17.9	NA
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59	NA	NA
60	NA	NA

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43	45.84	NA
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45	NA	NA
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56	17.1	81.7
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58	NA	281
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60	NA	NA

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22	NA	NA
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26	43.14	NA
27	49.56	NA
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59	NA	251.9
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26	NA	91.4
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7	75.3	NA
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59	685.3	NA
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23	0.197	NA
24	0.097	NA
25	NA	NA
26	NA	NA
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31	1.400204	NA
32	4.993188	NA
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37	9.531706	NA
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39	1.04029342	NA
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41	0.68	NA
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43	NA	NA
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45	NA	NA
46	NA	NA
47	43.84	NA
48	13.16172	5.2
49	NA	NA
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56	NA	NA
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59	1.541228	NA
60	329.8	NA

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8	186.1	NA
9	39.2	53.4
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15	9.3	29.9
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17	22806	NA
18	124.8	77.8
19	76.8	NA
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22	43.1	49.58
23	734.6637	NA
24	46.4	NA
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27	88.63667	143
28	13.2	43.6
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32	17264	NA
33	49.8	NA
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36	5256	NA
37	14127	NA
38	NA	1780
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40	369.6	1150
41	110.25	NA
42	51.2	90
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46	57.3	39.8
47	76.8	NA
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49	53.9	NA
50	360.9	NA
51	264	NA
52	2260.6	NA
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55	307.5	NA
56	11.2	27.6
57	44.75014	NA
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59	1491	NA
60	107.8	109.5
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21	1138.385	NA
22	492.3205	NA
23	561.2457	NA
24	55.9	NA
25	1672.487	NA
26	153.9	130.3
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28	16405.8	28090
29	1175.1	1180
30	80.154	NA
31	525.2687	NA
32	34.692	NA
33	21.078	NA
34	77.15424	NA
35	4010.1	NA
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37	15.9	NA
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6	212.6154	NA
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8	254.8	NA
9	135.3086	NA
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12	38.9	NA
13	2765.6	NA
14	747.1	NA
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18	2150.408	NA
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24	89.29607	NA
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26	56	NA
27	3955.048	6943.805
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32	464	NA
33	27.105	NA
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39	796.7	574
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49	177	NA

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7	5521.7	NA
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12	112.5	NA
13	906.26	NA
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15	3898.6	NA
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19	4.8	NA
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24	65	NA
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26	16625	NA
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35	109.4861	NA
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11	27.1	39.9
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13	299.52	NA
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49	42.471	NA

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11	767.2851	NA
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21	1186.6	NA
22	558.2	NA
23	1445.7	2396
24	75.5	NA
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26	2273	NA
27	234	NA
28	538.3	NA
29	250.9	NA
30	633.6	NA
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18	NA	NA
19	NA	NA
20	NA	NA
21	NA	NA
22	NA	NA
23	NA	NA
24	NA	NA
25	NA	NA
26	NA	NA
27	NA	NA
28	NA	NA
29	NA	NA
30	NA	NA
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32	NA	NA
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53	NA	NA
54	NA	NA
55	NA	NA
56	NA	NA
57	NA	NA
58	NA	NA
59	NA	NA
60	NA	NA

1		
2	NA	NA
3	NA	NA
4	NA	NA
5	NA	NA
6	NA	NA
7	NA	NA
8	NA	NA
9	NA	NA
10	NA	NA
11	NA	NA
12	NA	NA
13	NA	NA
14	0.605223	NA
15	NA	NA
16	NA	NA
17	NA	NA
18	NA	NA
19	NA	NA
20	NA	NA
21	NA	NA
22	NA	NA
23	73.28244	NA
24	NA	NA
25	NA	NA
26	NA	NA
27	NA	NA
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
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41		
42		
43		
44		
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48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		

Foraging Strategy	Sample size (individuals count)*
NA	55
Active	NA
NA	100
NA	2
NA	100
Sit and Wait	114
NA	316
NA	2
Sit and Wait	1
NA	NA
NA	1
NA	1
Sit and Wait	4
Active	NA
NA	1
NA	NA
Sit and Wait	42
NA	55
NA	1
NA	NA
NA	NA
NA	55
NA	1
NA	1
NA	NA
NA	NA
NA	NA
Active	1
NA	1
NA	NA
Active	NA
Active	NA
NA	28
NA	2
NA	NA
NA	NA
NA	100
NA	NA
Active	17
NA	100
NA	2
NA	2
Sit and Wait	1
NA	1
Active	NA
Active	NA
NA	NA

1		
2	NA	1
3	NA	NA
4	NA	1
5	NA	1
6		
7	NA	1
8	NA	350
9	NA	NA
10	NA	500
11	NA	NA
12	NA	NA
13	NA	NA
14	NA	NA
15	NA	100
16	Active	1
17	NA	NA
18	Active	1
19	NA	2
20	NA	2
21	NA	2
22	Sit and Wait	1
23	Sit and Wait	NA
24	Mixed	100
25	Active	100
26	NA	100
27	Sit and Wait	NA
28	NA	NA
29	Sit and Wait	100
30	NA	NA
31	NA	NA
32	Sit and Wait	100
33	NA	NA
34	NA	NA
35	NA	55
36	NA	100
37	NA	100
38	NA	100
39	NA	23
40	NA	NA
41	NA	1
42	NA	1
43	Sit and Wait	100
44	NA	100
45	NA	NA
46	NA	100
47	NA	NA
48	NA	60
49	NA	NA
50	NA	264
51	NA	341
52	NA	49
53	NA	1
54	NA	NA
55		
56		
57		
58		
59		
60		

1		
2	NA	255
3	NA	NA
4	NA	NA
5	NA	78
6	NA	NA
7	NA	1
8	NA	1
9	NA	1
10	NA	1
11	NA	1
12	NA	1
13	NA	1
14	NA	200
15	NA	74
16	NA	155
17	NA	127
18	NA	149
19	NA	172
20	NA	75
21	NA	42
22	NA	101
23	NA	44
24	NA	592
25	NA	NA
26	NA	1
27	Sit and Wait	2
28	NA	8
29	NA	100
30	Sit and Wait	55
31	NA	43
32	NA	100
33	Sit and Wait	100
34	NA	1
35	NA	3
36	NA	7
37	NA	1
38	NA	1
39	Sit and Wait	NA
40	Active	69
41	Sit and Wait	1
42	NA	3
43	Sit and Wait	500
44	Active	2
45	NA	1
46	NA	1
47	NA	1
48	NA	NA
49	Active	78
50	Mixed	500
51	Sit and Wait	55

1		
2	Active	10
3	NA	10
4	Active	NA
5	Active	100
6	Mixed	100
7	NA	100
8	NA	100
9	NA	100
10	NA	100
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51	NA	10
52	NA	10
53	NA	10
54	NA	10
55	NA	10
56	NA	10
57	NA	100
58	Active	55
59	NA	55
60	NA	3

1		
2	Sit and Wait	100
3	NA	215
4	NA	NA
5	NA	55
6	NA	68
7	NA	1
8	NA	NA
9	Active	2
10	Active	500
11	NA	NA
12	NA	NA
13	NA	1
14	Mixed	1
15	NA	1
16	NA	2
17	NA	55
18	Sit and Wait	100
19	NA	10
20	Sit and Wait	NA
21	Active	NA
22	Mixed	NA
23	Active	NA
24	Sit and Wait	100
25	NA	55
26	NA	112
27	NA	NA
28	NA	3
29	NA	NA
30	Sit and Wait	NA
31	NA	NA
32	Sit and Wait	1
33	NA	93
34	Mixed	55
35	Active	NA
36	Sit and Wait	4
37	NA	100
38	NA	100
39	NA	100
40	NA	100
41	NA	100
42	NA	100
43	NA	10
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55	NA	100
56	NA	100
57	NA	100
58	NA	100
59	NA	100
60	NA	100

1		
2	NA	10
3	NA	100
4	NA	100
5	NA	100
6	NA	100
7	NA	100
8	NA	100
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55	NA	100
56	NA	10
57	NA	100
58	NA	100
59	NA	100
60	NA	100

For Peer Review

1		
2	NA	10
3	NA	100
4	NA	100
5	NA	100
6	NA	100
7	NA	10
8	NA	100
9	NA	100
10	NA	10
11	NA	100
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60	NA	100

1		
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56	NA	100
57	NA	100
58	NA	100
59	NA	100
60	NA	100
	NA	100

1		
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3	NA	100
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56	NA	10
57	NA	100
58	NA	100
59	NA	100
60	NA	100

1		
2	NA	100
3	NA	100
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5	NA	100
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7	NA	100
8	NA	100
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10	NA	10
11	NA	100
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25	NA	100
26	NA	10
27	NA	100
28	NA	100
29	NA	100
30	NA	10
31	NA	NA
32	NA	100
33	Sit and Wait	22
34	NA	55
35	Active	NA
36	Active	1
37	NA	NA
38	NA	100
39	NA	10
40	NA	NA
41	Sit and Wait	155
42	Mixed	2
43	NA	100
44	NA	100
45	NA	100
46	NA	100
47	NA	100
48	NA	100
49	NA	100
50	NA	100
51	NA	100
52	NA	100
53	NA	100
54	NA	100
55	NA	NA
56	NA	2
57	NA	92
58	NA	501
59	NA	53

1		
2	NA	NA
3	Active	100
4	NA	100
5	NA	4
6	Active	1
7	Active	3
8	Active	3
9	NA	5
10	Active	NA
11	Active	NA
12	NA	100
13	Active	NA
14	Sit and Wait	NA
15	Mixed	1
16	NA	10
17	Active	1
18	Active	1
19	NA	1
20	Active	6
21	Active	1
22	Sit and Wait	NA
23	Active	NA
24	Sit and Wait	40
25	NA	628
26	NA	109
27	NA	41
28	NA	117
29	NA	371
30	NA	163
31	NA	91
32	Sit and Wait	36
33	NA	5
34	NA	5
35	NA	4
36	Mixed	1
37	Sit and Wait	1
38	NA	1122
39	NA	1208
40	NA	300
41	NA	88
42	NA	192
43	NA	1
44	NA	1
45	NA	154
46	NA	555
47	NA	2
48	NA	173
49	NA	155
50	NA	5
51	NA	21
52	NA	62

1		
2	NA	4
3	NA	1
4	NA	NA
5	NA	3
6	NA	2
7	NA	6
8	NA	88
9	NA	4
10	NA	61
11	NA	100
12	NA	100
13	NA	100
14	NA	100
15	NA	10
16	NA	10
17	NA	55
18	Active	100
19	Active	100
20	Active	10
21	Mixed	100
22	Active	55
23	Mixed	100
24	NA	55
25	Active	100
26	Active	55
27	Active	100
28	NA	55
29	Sit and Wait	81
30	Active	55
31	NA	55
32	NA	55
33	NA	100
34	Active	100
35	Active	500
36	Active	10
37	Active	1
38	Mixed	100
39	Active	100
40	Mixed	100
41	NA	55
42	NA	10
43	Mixed	55
44	Active	100
45	NA	8
46	Sit and Wait	55
47	Sit and Wait	100
48	Active	100
49	Active	55

1		
2	Sit and Wait	100
3	NA	55
4	Active	10
5	Mixed	500
6	NA	55
7	NA	55
8	NA	55
9	Active	100
10	NA	500
11	Sit and Wait	55
12	NA	100
13	Sit and Wait	500
14	Sit and Wait	7
15	NA	55
16	NA	10
17	Sit and Wait	100
18	Sit and Wait	55
19	NA	100
20	Sit and Wait	100
21	NA	55
22	NA	100
23	NA	100
24	NA	55
25	NA	100
26	Active	100
27	NA	100
28	NA	99
29	NA	1
30	NA	10
31	NA	25
32	NA	25
33	NA	14
34	NA	10
35	NA	10
36	NA	10
37	NA	69
38	NA	40
39	NA	NA
40	NA	6
41	Sit and Wait	50
42	Active	71
43	Mixed	1
44	NA	112
45	NA	NA
46	NA	28
47	NA	76
48	NA	NA
49	NA	18
50	NA	3
51	NA	NA
52	NA	52
53	NA	15
54	NA	247

1		
2	NA	317
3	NA	100
4	NA	NA
5	NA	NA
6	NA	222
7	NA	535
8	NA	39
9	NA	55
10	NA	32
11	NA	33
12	Sit and Wait	NA
13	NA	NA
14	NA	92
15	NA	89
16	NA	272
17	NA	55
18	Active	12
19	Active	NA
20	NA	100
21	Sit and Wait	NA
22	Mixed	10
23	NA	50
24	NA	2470
25	Active	61
26	Active	12
27	NA	NA
28	NA	NA
29	Sit and Wait	500
30	Active	1
31	NA	10
32	NA	100
33	NA	10
34	Sit and Wait	6
35	NA	18
36	Active	1
37	NA	100
38	NA	100
39	NA	NA
40	Active	20
41	NA	NA
42	NA	NA
43	NA	NA
44	Active	NA
45	NA	100
46	NA	10
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57	NA	100
58	NA	100
59	NA	100
60	NA	100

1		
2	NA	100
3	NA	100
4	NA	27
5	NA	86
6	NA	NA
7	NA	NA
8	NA	NA
9	Active	347
10	NA	1
11	Active	1
12	NA	100
13	Active	NA
14	Active	NA
15	Active	100
16	Active	500
17	NA	240
18	NA	21
19	NA	NA
20	Active	28
21	NA	NA
22	NA	16
23	NA	NA
24	NA	2
25	NA	NA
26	Active	113
27	Active	1
28	NA	1
29	Sit and Wait	5
30	NA	1
31	Sit and Wait	NA
32	Active	NA
33	NA	100
34	Sit and Wait	55
35	Active	NA
36	Sit and Wait	2
37	Sit and Wait	NA
38	Sit and Wait	1065
39	Active	10
40	NA	100
41	NA	100
42	NA	404
43	NA	100
44	NA	248
45	NA	100
46	NA	100
47	NA	100
48	NA	100
49	NA	100
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58	NA	100
59	NA	100
60	NA	100

1		
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3	NA	100
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57	NA	10
58	NA	100
59	NA	10
60	NA	10

For Peer Review

1		
2	NA	100
3	NA	100
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5	NA	100
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9	NA	10
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	NA	100

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55	NA	100
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60	NA	10

1		
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18	NA	10
19	NA	10
20	NA	100
21	NA	100
22	NA	100
23	NA	100
24	NA	10
25	NA	100
26	Sit and Wait	1
27	NA	NA
28	Sit and Wait	1
29	NA	1
30	Sit and Wait	11
31	Active	NA
32	NA	NA
33	NA	NA
34	NA	NA
35	NA	NA
36	Sit and Wait	1
37	Sit and Wait	55
38	NA	8147
39	NA	120
40	Mixed	55
41	Sit and Wait	NA
42	Sit and Wait	100
43	NA	NA
44	Mixed	1
45	NA	195
46	NA	92
47	NA	89
48	NA	101
49	Mixed	251
50	NA	100
51	NA	100
52	NA	100
53	NA	100
54	NA	40
55	NA	NA

1		
2	NA	NA
3	NA	31
4	Active	NA
5	NA	46
6	Active	NA
8	NA	115
9	NA	87
10	NA	100
11	NA	100
12	NA	100
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55	NA	10
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58	NA	10
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60	NA	1

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3	NA	NA
4	NA	1
5	Active	1
6	NA	1
7	NA	1
8	NA	1
9	Active	1
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11	NA	1
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14	NA	1
15	NA	1
16	Active	55
17	NA	55
18	Active	1
19	NA	2
20	NA	1
21	Sit and Wait	1
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23	NA	5
24	NA	1
25	NA	NA
26	Active	NA
27	NA	2
28	Active	NA
29	Active	55
30	Sit and Wait	1
31	NA	1
32	NA	NA
33	NA	1
34	Sit and Wait	14
35	NA	NA
36	Sit and Wait	5
37	NA	1
38	NA	NA
39	Sit and Wait	1
40	NA	875
41	NA	20
42	NA	17
43	NA	2
44	NA	144
45	NA	1
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For Peer Review

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20	NA	100
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22	NA	2
23	Active	55
24	NA	1
25	Active	1
26	NA	NA
27	Mixed	1
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32	NA	1
33	Sit and Wait	2
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35	NA	1
36	Active	1
37	Active	1
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41	Active	500
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43	NA	55
44	NA	36
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46	NA	119
47	Active	55
48	Active	320
49	Active	NA
50	Active	NA
51	Sit and Wait	1
52	Active	2
53	NA	NA
54	NA	1

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28	NA	87
29	NA	1
30	NA	NA
31	Active	109
32	NA	123
33	Active	175
34	Active	56
35	NA	2
36	NA	55
37	NA	1
38	NA	1
39	NA	133
40	NA	55
41	Active	NA
42	NA	55
43	Active	55
44	Sit and Wait	55
45	NA	2
46	NA	43
47	NA	100
48	NA	210
49	NA	359
50	NA	959
51	NA	15849
52	NA	1

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3	NA	1
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5	NA	1
6	NA	138
7	NA	2
8	NA	19
9	NA	212
10	NA	1
11	NA	1
12	NA	46
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22	NA	10
23	Active	500
24	Active	10
25	NA	100
26	NA	55
27	Active	100
28	Active	500
29	Active	55
30	Mixed	5
31	NA	NA
32	Active	500
33	NA	55
34	Active	1
35	Mixed	100
36	Sit and Wait	55
37	NA	55
38	Sit and Wait	6
39	NA	55
40	NA	55
41	Active	10
42	NA	55
43	NA	55
44	Active	100
45	Sit and Wait	10
46	Active	55
47	Mixed	100
48	Sit and Wait	100
49	Sit and Wait	100
50	Sit and Wait	NA

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2	NA	55
3	Active	55
4	NA	55
5	Active	55
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7	NA	55
8	Active	55
9	NA	55
10	Active	55
11	NA	55
12	Sit and Wait	55
13	NA	55
14	Active	55
15	Mixed	100
16	NA	55
17	NA	100
18	NA	55
19	Mixed	100
20	NA	10
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23	NA	10
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25	Mixed	55
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28	NA	55
29	Mixed	55
30	NA	55
31	NA	10
32	NA	55
33	Active	55
34	Sit and Wait	100
35	Sit and Wait	55
36	Mixed	100
37	NA	55
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41	NA	55
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50	NA	55
51	Active	100
52	NA	10
53	NA	10
54	NA	55
55	NA	55
56	Active	55
57	Active	55
58	Sit and Wait	500

1		
2	Sit and Wait	55
3	NA	55
4	NA	100
5	Active	55
6	Sit and Wait	55
7	Active	55
8	Active	55
9	NA	100
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15	Active	55
16	Active	55
17	Active	55
18	Sit and Wait	100
19	Sit and Wait	10
20	Sit and Wait	55
21	Mixed	100
22	NA	55
23	Mixed	10
24	Mixed	55
25	NA	55
26	Sit and Wait	55
27	NA	55
28	Sit and Wait	55
29	NA	100
30	NA	100
31	NA	55
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51	NA	55
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55	NA	55
56	NA	10
57	NA	100
58	NA	55
59	Mixed	55
60	NA	55

For Peer Review

1		
2	NA	100
3	NA	55
4	Sit and Wait	500
5	NA	1
6	NA	55
7	Sit and Wait	100
8	NA	100
9	Mixed	100
10	Sit and Wait	55
11	NA	100
12	NA	10
13	Sit and Wait	55
14	NA	100
15	NA	100
16	Sit and Wait	100
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18	Mixed	55
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34	Mixed	100
35	NA	100
36	NA	100
37	NA	100
38	NA	100
39	NA	100
40	Mixed	55
41	Active	1
42	NA	55
43	Active	100
44	Sit and Wait	10
45	NA	100
46	NA	55
47	NA	10
48	NA	100
49	Active	100
50	NA	100
51	NA	100
52	Sit and Wait	100
53	Sit and Wait	100
54	NA	100
55	Active	100
56	Mixed	55

1		
2	Active	100
3	NA	10
4	Mixed	100
5	Sit and Wait	100
6		
7	NA	55
8	NA	2
9	NA	100
10		
11	Active	100
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13	Active	55
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15		
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25	NA	55
26	Active	55
27	NA	55
28	Active	100
29		
30	NA	100
31	Active	500
32	Sit and Wait	55
33	Sit and Wait	1
34		
35	Active	100
36	NA	100
37	Active	7
38	Active	10
39		
40	NA	55
41	NA	100
42	Active	100
43		
44	Sit and Wait	4
45	Active	55
46	Active	500
47	Active	6
48		
49	Sit and Wait	9
50	Active	55
51	Active	500
52	Active	100
53		
54	Sit and Wait	55
55	Active	100
56	Sit and Wait	100
57		
58	NA	100
59	NA	10
60	NA	100
	Active	100

1		
2	Sit and Wait	4
3	Sit and Wait	NA
4	Active	55
5	Active	100
6	Active	100
7	Sit and Wait	1
8	Active	100
9	NA	100
10	Active	55
11	NA	100
12	Active	55
13	NA	100
14	NA	55
15	Active	100
16	Active	500
17	Sit and Wait	2
18	NA	5
19	Sit and Wait	NA
20	Sit and Wait	NA
21	Active	100
22	Sit and Wait	100
23	Active	55
24	Sit and Wait	2
25	Sit and Wait	NA
26	Mixed	NA
27	Sit and Wait	NA
28	Active	36
29	Mixed	7
30	NA	NA
31	NA	NA
32	NA	2
33	NA	6
34	Active	NA
35	NA	222
36	NA	NA
37	NA	159
38	NA	40
39	Active	NA
40	NA	10
41	NA	1
42	NA	NA
43	NA	NA
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46	Active	NA
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55	Active	1
56	NA	NA
57	Active	1
58	NA	NA
59	Active	1
60	NA	NA

1		
2	NA	55
3	Sit and Wait	6
4	NA	47
5	Active	4
6	Active	100
7	Active	55
8	Sit and Wait	100
9	Active	1500
10	Sit and Wait	3116
11	Active	100
12	Sit and Wait	8
13	NA	208
14	Active	NA
15	Sit and Wait	NA
16	Active	100
17	Active	NA
18	Active	500
19	Active	NA
20	Active	55
21	Active	274
22	Active	NA
23	NA	92
24	Sit and Wait	7
25	Active	NA
26	Active	55
27	Active	100
28	Active	100
29	Active	500
30	NA	1
31	NA	NA
32	Active	NA
33	Active	NA
34	Active	290
35	Active	10
36	Active	100
37	Sit and Wait	NA
38	NA	1
39	Active	NA
40	NA	NA
41	Sit and Wait	NA
42	Active	93
43	Active	40
44	NA	100
45	NA	142
46	NA	79
47	NA	200
48	Mixed	1
49	NA	73

1		
2	NA	2
3	Sit and Wait	55
4	NA	2
5	Sit and Wait	1
6	Active	62
7	Mixed	NA
8	Active	3
9	NA	55
10	NA	100
11	NA	100
12	NA	NA
13	Sit and Wait	NA
14	Mixed	78
15	Sit and Wait	NA
16	Sit and Wait	78
17	NA	3
18	NA	24
19	NA	100
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51	NA	32
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53	NA	NA
54	NA	72
55	NA	16
56	NA	100
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For Peer Review

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2	NA	284
3	NA	34
4	NA	NA
5	NA	274
6	NA	70
7	NA	6
8	NA	108
9	NA	64
10	NA	35
11	NA	100
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For Peer Review

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56	Sit and Wait	91
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45	Sit and Wait	1235
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47	Sit and Wait	851
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38	Active	NA
39	Mixed	NA
40	NA	7
41	Sit and Wait	NA
42	NA	253
43	NA	938
44	Sit and Wait	1
45	Sit and Wait	1
46	Active	10
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49	NA	1
50	NA	100
51	NA	1
52	NA	2
53	NA	1
54	Mixed	100
55	Sit and Wait	2
56	Sit and Wait	55

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3	NA	1
4	Active	55
5	Sit and Wait	NA
6	Sit and Wait	82
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8	Sit and Wait	NA
9	NA	55
10	Sit and Wait	44
11	Active	1
12	Mixed	NA
13	NA	22
14	NA	NA
15	NA	6
16	NA	NA
17	NA	184
18	NA	88
19	NA	100
20	Active	NA
21	Active	641
22	Mixed	NA
23	Sit and Wait	NA
24	NA	NA
25	NA	NA
26	NA	55
27	Sit and Wait	1
28	NA	252
29	NA	69
30	Active	85
31	Sit and Wait	132
32	NA	NA
33	NA	NA
34	Sit and Wait	NA
35	Sit and Wait	1
36	Mixed	6
37	NA	NA
38	NA	NA
39	NA	NA
40	Mixed	8
41	NA	105
42	Active	604
43	NA	55
44	NA	100
45	Mixed	2
46	Sit and Wait	NA
47	Mixed	672
48	Sit and Wait	2
49	NA	63

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3	Active	NA
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9	NA	27
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11	NA	NA
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19	Sit and Wait	NA
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22	Sit and Wait	NA
23	NA	NA
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25	NA	100
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27	NA	75
28	NA	17
29	Mixed	55
30	Mixed	55
31	Sit and Wait	NA
32	NA	NA
33	NA	96
34	NA	488
35	NA	141
36	NA	141
37	NA	63
38	Active	1
39	Active	4
40	Active	4
41	Sit and Wait	651
42	NA	100
43	Mixed	2
44	Mixed	2
45	NA	100
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19	NA	100
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21	NA	NA
22	Mixed	NA
23	NA	NA
24	Active	3
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26	NA	40
27	NA	29
28	NA	90
29	NA	279
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31	NA	54
32	NA	1
33	NA	NA
34	NA	108
35	NA	1
36	NA	100
37	NA	2
38	NA	123
39	Mixed	100
40	NA	NA
41	Active	100
42	NA	NA
43	NA	NA
44	NA	46
45	NA	NA
46	NA	683
47	NA	508
48	NA	123
49	NA	21
50	NA	5

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2	Active	100
3	NA	100
4	NA	567
5	NA	174
6	NA	54
7	NA	97
8	NA	262
9	NA	138
10	NA	628
11	NA	NA
12	NA	166
13	NA	50
14	NA	50
15	NA	1
16	NA	5
17	NA	14
18	NA	9
19	NA	4
20	NA	7
21	NA	262
22	Active	8
23	NA	10
24	NA	232
25	NA	44
26	NA	213
27	NA	NA
28	NA	100
29	NA	100
30	NA	NA
31	NA	100
32	NA	100
33	NA	NA
34	NA	100
35	NA	8
36	NA	21
37	Sit and Wait	NA
38	Mixed	NA
39	Active	548
40	Active	438
41	Active	820
42	Active	55
43	Sit and Wait	NA
44	Sit and Wait	55
45	NA	7
46	NA	91
47	Sit and Wait	16
48	NA	10
49	NA	NA
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60	NA	100

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5	NA	149
6	Active	40
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9	NA	55
10	NA	4
12	NA	100
13	NA	NA
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17	NA	3
18	Sit and Wait	1
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21	Active	NA
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23	NA	55
24	Active	65
25	NA	NA
26	NA	55
27	Active	NA
28	Sit and Wait	1
29	NA	NA
30	NA	NA
31	NA	NA
32	Mixed	NA
33	Sit and Wait	NA
34	NA	167
35	Sit and Wait	NA
36	Active	NA
37	Sit and Wait	NA
38	NA	539
39	NA	NA
40	Sit and Wait	81
41	NA	338
42	NA	NA
43	Sit and Wait	100
44	Sit and Wait	155
45	NA	157
46	Sit and Wait	253
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27	NA	100
28	Sit and Wait	1
29	NA	165
30	NA	155
31	NA	65
32	NA	64
33	NA	41
34	NA	100
35	NA	23
36	NA	NA
37	NA	100
38	Active	156
39	NA	NA
40	Sit and Wait	NA
41	NA	NA
42	NA	NA
43	Sit and Wait	55
44	NA	NA
45	Mixed	4
46	NA	NA
47	NA	NA
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49	Mixed	NA
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51	NA	NA
52	NA	NA
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54	NA	NA
55	Active	1
56	NA	46
57	NA	100
58	NA	10
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17	NA	NA
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19	NA	10
20	Sit and Wait	20
21	NA	1
22	Mixed	500
23	NA	50
24	NA	41
25	NA	23
26	Sit and Wait	160
27	Sit and Wait	1
28	NA	54
29	NA	29
30	NA	3
31	NA	100
32	Sit and Wait	1
33	NA	478
34	NA	103
35	NA	100
36	Active	707
37	NA	NA
38	NA	6
39	NA	NA
40	NA	1
41	Active	212
42	Sit and Wait	8
43	Active	10
44	NA	1
45	NA	1
46	NA	NA
47	Sit and Wait	327
48	Active	NA
49	Active	1

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3	Sit and Wait	1
4	Sit and Wait	100
5	Sit and Wait	100
6	Sit and Wait	100
7	NA	55
8	NA	NA
9	NA	100
10		
11	Active	36
12	Mixed	NA
13	Sit and Wait	104
14	Sit and Wait	36
15	Sit and Wait	19
16	Sit and Wait	19
17	NA	1
18	NA	10
19	NA	100
20	NA	NA
21	NA	NA
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23	NA	NA
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25	NA	59
26	NA	NA
27	NA	47
28	Active	NA
29	NA	100
30	Active	120
31	NA	7
32	Sit and Wait	871
33	NA	115
34	Mixed	1
35	Sit and Wait	9
36	NA	NA
37	Active	25
38	Active	32
39	Active	NA
40	Active	16
41	Active	NA
42	NA	NA
43	NA	36
44	Sit and Wait	100
45	NA	1
46	Sit and Wait	55
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21	Sit and Wait	NA
22	NA	100
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40	NA	100
41	NA	100
42	NA	715
43	Sit and Wait	NA
44	NA	1
45	NA	108
46	NA	NA
47	NA	100
48	Sit and Wait	102
49	Sit and Wait	15
50	Sit and Wait	100
51	NA	38
52	NA	118
53	NA	NA
54	NA	4
55	Sit and Wait	334
56	Active	NA
57	NA	1

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14	NA	7
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17	NA	1
18	NA	1
19	NA	5
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21	NA	100
22	NA	1
23	NA	1
24	NA	1
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26	Sit and Wait	1
27	NA	1
28	Active	1
29	NA	1
30		
31	Active	5
32	NA	55
33	NA	1
34	NA	1
35	NA	70
36	NA	1
37		
38	Sit and Wait	3
39	NA	2
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41	Sit and Wait	1
42	Sit and Wait	2
43	NA	1
44	NA	1
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59	Sit and Wait	2
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39	Active	55
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41	Active	100
42	Sit and Wait	1
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45	Active	1
46	Sit and Wait	1
47	Sit and Wait	1
48	Active	4
49	NA	1
50	Active	500

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14	Sit and Wait	2
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57	NA	4

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14	Sit and Wait	NA
15	NA	153
16	Mixed	NA
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37	Sit and Wait	55
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42	Active	2
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44	Sit and Wait	2
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For Peer Review

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For Peer Review

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For Peer Review

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For Peer Review

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For Peer Review

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15	NA	93
16	NA	NA
17	NA	NA
18	NA	1
19	NA	10
20	NA	8
21	NA	NA
22	Sit and Wait	2
23	NA	1
24	Active	6
25	NA	1
26	Active	3
27	Sit and Wait	1
28	NA	2
29	NA	1
30	NA	2
31	Mixed	3
32	NA	2
33	NA	100
34	Sit and Wait	NA
35	NA	3
36	NA	7
37	NA	NA
38	Sit and Wait	1
39	Sit and Wait	NA
40	Sit and Wait	1
41	NA	NA
42	NA	NA
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47	NA	6
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49	Sit and Wait	1
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51	NA	NA
52	Sit and Wait	1
53	NA	6
54	NA	6

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3	NA	10
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5	Active	1
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7	NA	NA
8	NA	NA
9	NA	NA
10	Sit and Wait	55
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12	NA	100
13	NA	NA
14	Sit and Wait	413
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46	NA	1
47	NA	100
48	NA	1
49	NA	1
50	NA	NA
51	NA	500
52	Active	100
53	Sit and Wait	NA
54	Sit and Wait	NA
55	NA	100
56	NA	1
57	NA	NA
58	Active	NA

1		
2	NA	612
3	NA	52
4	NA	50
5	NA	43
6	NA	3
7	NA	54
8	NA	50
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1		
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3	NA	27
4	NA	26
5	Sit and Wait	340
6		
7	NA	1
8	NA	NA
9	NA	2500
10		
11	NA	19
12	NA	160
13	NA	53
14	NA	303
15	NA	612
16	NA	249
17	NA	612
18	NA	24
19	NA	50
20	NA	32
21	NA	18
22	NA	689
23	NA	23
24	Active	11
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
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Table A1. Power analysis for each class separately and for each continuous p

Analysis
Standard Metabolic Rate
Body Size
Body Temperature
Field Metabolic Rate
Mean Annual Temperature
Seasonality

*** A power of 80% (equivalent to a beta of 20%) is probably the most common**

Table A2. Power analysis for each class separately and predictors in our data

Analysis
Standard Metabolic Rate
Body Size
Body Temperature

Field Metabolic Rate

Mean Annual Temperature

Seasonality

*** A power of 80% (equivalent to a beta of 20%) is probably the most common**

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detecting Effect size magnitude (R^2)	Sample size/power	Aves
Weak (0.15)	N	95
	Power	0.96
Medium (0.4)	N	95
	Power	0.99
Weak (0.15)	N	1153
	Power	1
Medium (0.4)	N	1153
	Power	1
Weak (0.15)	N	NA
	Power	NA
Medium (0.4)	N	NA
	Power	NA
Weak (0.15)	N	89
	Power	0.94
Medium (0.4)	N	89
	Power	0.99
Weak (0.15)	N	967
	Power	1
Medium (0.4)	N	967
	Power	1
Weak (0.15)	N	461
	Power	1
Medium (0.4)	N	461
	Power	1

n our analysis

detecting Effect size magnitude (R^2)	Sample size/power	Aves
Weak (0.15)	N	95
	Power	0.81
Medium (0.4)	N	95
	Power	0.99
Weak (0.15)	N	1153
	Power	1
Medium (0.4)	N	1153
	Power	1
Weak (0.15)	N	NA
	Power	NA
Medium (0.4)	N	NA

	Power	NA
Weak (0.15)	N	89
	Power	0.77
Medium (0.4)	N	89
	Power	0.99
Weak (0.15)	N	967
	Power	1
Medium (0.4)	N	967
	Power	1
Weak (0.15)	N	461
	Power	1
Medium (0.4)	N	461
	Power	1

n our analysis

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Reptilia	Mammalia	Amphibia
173	426	126
1	1	0.98
173	426	126
1	1	0.98
1340	1061	538
1	1	1
1340	1061	538
1	1	1
559	NA	NA
1	NA	NA
559	NA	NA
1	NA	1
35	86	NA
0.56	0.94	NA
35	86	NA
0.98	0.99	NA
1337	643	534
1	1	1
1337	643	534
1	1	1
1336	967	534
1	1	1
1336	967	534
1	1	1

Reptilia	Mammalia	Amphibia
173	426	126
1	1	0.89
173	426	126
1	1	0.99
1340	1061	538
1	1	1
1340	1061	538
1	1	1
559	NA	NA
1	NA	NA
559	NA	NA

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2	1	NA	0.99
3	35	86	NA
4	0.21	0.74	NA
5	35	86	NA
6	0.9	0.99	NA
7	1337	643	534
8	1	1	1
9	1337	643	534
10	1	1	1
11	1336	967	534
12	1	1	1
13	1336	967	534
14	1	1	1
15	1336	967	534
16	1	1	1
17	1336	967	534
18	1	1	1
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Table A3. PGLS model for the relationship between metabolic rates and metabolic rate

metabolic rate	Group
BMR	Land vertebrates
BMR	Amphibia
BMR	Reptilia
BMR	Aves
BMR	Mammalia
FMR	Land vertebrates
FMR	Reptilia*
FMR	Aves
FMR	Mammalia

* No data on amphibian FMR were available. Slopes are for metabolic rate

Table A4. The PGLS model (including non-significant factors that were

Factor	Estimate
Intercept (captive, diurnal)	0.823
Body mass	0.147
Origin of data (wild)	-0.085
Sample size	0.034
Mean annual temperature	-0.001
Seasonality	0.001
Activity time (Cathemeral)	0.029
Activity time (Crepuscular)	0.002
Activity time (Nocturnal)	-0.015
$\lambda = 0.93$, $R^2 = 0.19$, $n = 1236$, $p < 0.0001$.	

Table A5. The PGLS model (including non-significant factors that were

Factor	Estimate
Intercept	0.963
Body mass	0.183
Origin of data (wild)	-0.097
Sample size	-0.068
Mean annual temperature	-0.009
Seasonality	-0.001
Activity time (Nocturnal)	-0.012
$\lambda = 0.44$, $R^2 = 0.26$, $n = 340$, $p < 0.0001$.	

Table A6. The The PGLS model (including non-significant factors that w

Factor	Estimate
Intercept	0.864
Body mass	0.126

Origin of data (wild)	0.063
Sample size	0.074
Mean annual temperature	-0.009
Seasonality	-0.002
Activity time (Cathemeral)	0.024
Activity time (Crepuscular)	0.018
Activity time (Nocturnal)	0.026
$\lambda = 0.94, R^2 = 0.23, n = 441, p < 0.0001.$	

Table A7. The PGLS model (including non-significant factors that were o

Factor	Estimate
Intercept	1.104
Body mass	0.102
Origin of data (wild)	-0.188
Sample size	0.025
Activity time (Crepuscular)	0.161
Activity time (Nocturnal)	0.150
Mean annual temperature	-0.014
Seasonality	0.005
$\lambda = 0.75, R^2 = 0.39, n = 189, p < 0.0001.$	

Table A8. The PGLS model (including non-significant factors that were o

Factor	Estimate
Intercept	1.052
Body mass	0.178
Origin of data (wild)	-0.087
Sample size	0.039
Mean annual temperature	-0.011
Seasonality	0.005
Activity time (Nocturnal)	-0.016
Activity time (Cathemeral)	0.047
$\lambda = 0.84, R^2 = 0.25, n = 456, p < 0.0001.$	

Table A9. An analysis of Reptile species only, using well sampled data o

Factor	Estimate
Intercept	1.064
Body mass	0.206
Origin of data (wild)	-0.144
Sample size	-0.058
Body temperature	-0.001
$\lambda = 0.69, R^2 = 0.33, n = 228, p < 0.0001.$	

Table A10. An analysis of Reptile species only, using well sampled data

Factor	Estimate
Intercept (active, captive)	0.818
Body mass	0.179
Origin of data (wild)	-0.102
Sample size	0.033
Foraging strategy (mixed)	0.027
Foraging strategy (sit)	0.012
$\lambda = 0.89$, $R^2 = 0.21$, $n = 258$, $p < 0.0001$.	

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d longevity among and with tetrapods, using well sampled data only (> 30 :

n	Slope±SE	R2	λ	P
357	(-)0.058±0.031	0.21	0.89	0.06
47	0.213±0.090	0.23	0.39	0.22
90	(-)0.041±0.046	0.15	0.70	0.37
78	0.031±0.110	0.3	0.61	0.78
196	(-)0.091±0.053	0.25	0.86	0.09
128	(-)0.114±0.086	0.21	0.90	0.18
19	(-)0.421±0.083	0.66	0.00	0.0010
69	(-)0.143±0.163	0.22	0.67	0.38
40	0.089±0.084	0.34	0.97	0.29

ates, lambda and R² values are for the full model (with sample size, body si

excluded from the model) for all land vertebrates species together, using w

SE	t	P
0.184	4.4	<0.0001
0.010	14.3	<0.0001
0.015	-5.4	<0.0001
0.027	1.2	0.18
0.006	-1.8	0.06
0.001	0.6	0.54
0.023	1.2	0.16
0.002	0.1	0.87
0.021	-0.7	0.53

excluded from the model) for bird species only, using well sampled data or

SE	t	P
0.272	3.5	0.0004
0.020	8.8	<0.0001
0.027	-3.5	0.0004
0.127	-0.5	0.59
0.001	-0.9	0.37
0.003	-0.4	0.65
0.084	-0.1	0.88

ere excluded from the model) for mammal species only, using well sample

SE	t	P
0.136	6.3	<0.0001
0.011	11.0	<0.0001

0.036	1.6	0.0900
0.119	0.8	0.74
0.008	-1.6	0.28
0.002	-0.8	0.40
0.024	0.9	0.32
0.023	0.7	0.42
0.024	1.0	0.27

excluded from the model) for amphibian species only, using well sampled (

SE	t	P
0.203	5.4	<0.0001
0.027	3.6	0.0002
0.035	-5.2	<0.0001
0.036	0.6	0.48
0.096	1.6	0.09
0.035	4.2	<0.0001
0.003	-3.6	0.0003
0.008	0.6	0.50

excluded from the model) for reptile species only, using well sampled data

SE	t	P
0.200	5.2	<0.0001
0.017	9.9	<0.0001
0.025	-3.4	<0.0001
0.031	1.2	0.2100
0.002	-4.0	<0.0001
0.005	1.0	0.31
0.029	-0.5	0.57
0.032	1.4	0.14

only (> 30 species), with body temperature and correcting factors (PGLS)

SE	t	P
0.228	4.6	<0.0001
0.025	8.2	<0.0001
0.037	-3.8	0.0001
0.041	-1.3	0.16
0.003	-0.3	0.69

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only (> 30 species), with foraging strategy and correcting factors (PGLS)

SE	t	P
0.228	3.5	0.0003
0.024	7.2	<0.0001
0.038	-2.6	0.0080
0.040	0.8	0.41
0.060	0.4	0.65
0.051	0.2	0.80

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ze and data origin (captive/wild) as predictors).

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Table A11. Comparisons according to Akaike information criterion, between

Group	Mean Body Mass only	Mean BMR only
Amphibians	29.56687	30.46896
Birds	-82.80557	-69.12902
Mammals	-263.0381	-229.007
Reptiles	24.63502	26.6222
Tetrapods	-1450.3805	-238.5527

Table A12. Comparisons according to Akaike information criterion, between

Group	Mean Body Mass only	Mean FMR only
Amphibians*	NA	NA
Birds	-22.9254	-21.90966
Mammals	1.591624	3.536915
Reptiles	-5.932225	-1.564599
Tetrapods	-10.669134	-4.757007

*** No data on amphibian field metabolic rates were available**

en models of longevity against body mass, BMR and body mass with BMR to

Mean body mass and BMR together

28.7549

-80.91226

-262.614

36.76984

-294.0709

en models of longevity against body mass, FMR and body mass with FMR to

Mean body mass and FMR together

NA

-20.97822

3.02149

-6.827322

-8.683144

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gether, among and within vertebrate classes

gether, among and within vertebrate classes

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Table A13. Phylogenetic model (PGLS) for the comparison between

Factor	Estimate	SE
Intercept (high metabolic rate)	0.729	0.176
Body mass	0.144	0.007
Origin of data (wild)	-0.080	0.011
Sample size	0.076	0.005
Low metabolic rate	0.154	0.319
$\lambda = 0.898$, $R^2 = 0.18$, $n = 3025$, $p < 0.0001$.		

Table A14. Ordinary least squares model (OLS) for the comparison between

Factor	Estimate	SE
Intercept (high metabolic rate)	0.618	0.014
Body mass	0.157	0.003
Origin of data (wild)	-0.007	0.009
Sample size	0.099	0.006
Low metabolic rate	0.029	0.009
$R^2 = 0.42$, $n = 3731$, $p < 0.0001$.		

Table A15. Phylogenetic model (PGLS) for the comparison between

Factor	Estimate	SE
Intercept (high metabolic rate)	0.727	0.176
Body mass	0.163	0.009
Origin of data (wild)	-0.107	0.014
Sample size	0.047	0.026
Low metabolic rate	0.123	0.305
$\lambda = 0.888$, $R^2 = 0.19$, $n = 1764$, $p < 0.0001$.		

Table A16. Ordinary least squares model (OLS) for the comparison between

Factor	Estimate	SE
Intercept (high metabolic rate)	0.753	0.049
Body mass	0.139	0.004
Origin of data (wild)	-0.064	0.012
Sample size	0.078	0.023
Low metabolic rate	-0.014	0.012
$R^2 = 0.40$, $n = 2125$, $p < 0.0001$.		

Table A17. Ordinary least squares model (OLS) comparison between

Factor	Estimate	SE
Intercept (Class:Amphibians)	0.674	0.012
Body mass	0.193	0.003

Class (Birds)	0.119	0.013
Class (Mammals)	-0.126	0.015
Class (Reptiles)	0.038	0.013
$R^2 = 0.45$, $n = 4060$, $p < 0.0001$.		

Table A18. Ordinary least squares model (OLS) comparison be

Factor	Estimate	SE
Intercept (Class:Reptiles)	0.712	0.009
Body mass	0.193	0.003
Class (Birds)	0.081	0.010
Class (Mammals)	-0.164	0.011
Class (Amphibians)	-0.038	0.013
$R^2 = 0.45$, $n = 4060$, $p < 0.0001$.		

Table A19. OLS model for the relationship between resting me

metabolic rate	Group	n
RMR-FMR	Land vertebrates	109
RMR-FMR	Reptilia *	23
RMR-FMR	Aves	14
RMR-FMR	Mammalia	72

*** No data on amphibian FMR were available.**

vee metabolically different groups

t	P
4.1	<0.0001
19.1	<0.0001
-7.1	<0.0001
13.5	<0.0001
0.4	0.6200

ison between metabolically different groups

t	P
41.3	<0.0001
40.3	<0.0001
-0.7	0.4510
15.3	<0.0001
2.9	0.0020

vee metabolically different groups, using well sampled data only (> 30 speci

t	P
4.1	<0.0001
17.1	<0.0001
-7.4	<0.0001
1.7	0.0720
0.4	0.6865

ison between metabolically different groups, using well sampled data only (>

t	P
15.1	<0.0001
29.8	<0.0001
-5.3	<0.0001
3.3	0.0007
-1.2	0.2140

etween amphibians and endotherms, corrected for size only

t	P
55.2	<0.0001
52.0	<0.0001

8.6	<0.0001
-8.1	<0.0001
2.8	0.0040

between reptiles and endotherms, corrected for size only

t	P
73.0	<0.0001
52.0	<0.0001
7.7	<0.0001
-13.7	<0.0001
-2.8	0.0040

tabolic rates and field metabolic rates among and with tetrapods (corrected f

Slope±SE	R2	P
1.026±0.036	0.88	<0.0001
1.068±0.167	0.66	<0.0001
0.677±0.142	0.65	0.0004
0.980±0.037	0.91	<0.0001

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Appendix 1.2:

Factors effecting tetrapod's longevity

The factors we controlled for (body size, sample size, data origin and phylogeny) all affected estimates of longevity. Body mass and sample size had a positive effect on tetrapod's lifespan (slopes = 0.134 ± 0.007 and 0.070 ± 0.005 , respectively; $p < 0.0001$ in both), and specimens for which data originated from captivity lived, on average, 10% longer than those for which data came from the wild (model $\lambda = 0.92$).

Factors effecting endotherms longevity

Models for birds (Intercept = 0.688 ± 0.078 , $R^2 = 0.21$, $n = 1144$, $\lambda = 0.653$) and mammals (Intercept = 0.759 ± 0.137 , $R^2 = 0.21$, $n = 937$, $\lambda = 0.963$) were similar to each other in general, with only the correcting factors effecting longevity. Longevity increased with increasing body mass for both birds (slope = 0.173 ± 0.014 , $R^2 = 0.21$) and mammals (slope = 0.107 ± 0.008 , $R^2 = 0.20$). Bird specimens for which data originated from captivity lived, on average, 24.3% longer than those for which data came from the wild, but for mammal's captivity did not increase longevity ($p = 0.04$). Sample size was positively correlated with bird longevity (slope = 0.058 ± 0.008 ; $p < 0.0001$) and mammals longevity (slope = 0.043 ± 0.005 ; $p < 0.0001$).