A Report Generated by knitr

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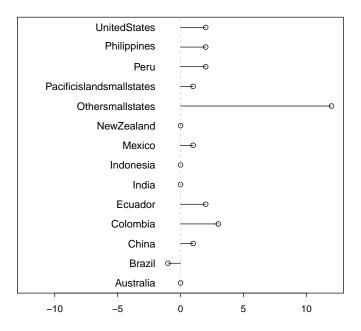
May 2, 2012

The results below are generated from an R script.

```
# world bank indicators for species - I'll check bird species:
code <- as.character(WDIsearch("bird")[1, 1])</pre>
bird_data <- WDI(country = "all", indicator = code, start = 2010, end = 2012)
# remove NAs and select values in the range 50 - 1000:
bird_data_sub <- bird_data[!is.na(bird_data$EN.BIR.THRD.NO) & bird_data$EN.BIR.THRD.NO <
    1000 & bird_data$EN.BIR.THRD.NO > 50, ]
# change in numbers across years 2010 and 2011:
change.no <- aggregate(EN.BIR.THRD.NO ~ country, diff, data = bird_data_sub)</pre>
# plot:
par(mar = c(3, 3, 5, 1))
plot(x = change.no[, 2], y = 1:nrow(change.no), xlim = c(-12, 12), xlab = "", ylab = "",
    yaxt = "n")
abline(v = 0, lty = 2, col = "grey80")
title(main = "Change in Threatened Bird Species in\nCountries with Rich Avifauna (>50)")
text(y = 1:nrow(change.no), x = -2, adj = 1, labels = change.noscountry)
segments(x0 = 0, y0 = 1:nrow(change.no), x1 = change.no[, 2], y1 = 1:nrow(change.no))
```

^{*}This report is automatically generated with the R package knitr (version 0.5).

Change in Threatened Bird Species in Countries with Rich Avifauna (>50)



```
# test hypothesis that probability of species decrease is equal to probability of
# increase:
binom.test(sum(change.no < 0), sum(change.no != 0))</pre>
##
   Exact binomial test
##
## data: sum(change.no < 0) and sum(change.no != 0)</pre>
## number of successes = 1, number of trials = 24, p-value = 2.98e-06
## alternative hypothesis: true probability of success is not equal to 0.5
## 95 percent confidence interval:
## 0.001054 0.211202
## sample estimates:
## probability of success
##
                  0.04167
##
```

The R session information (including the OS info, R version and all packages used):

```
## R version 2.14.1 (2011-12-22)
## Platform: i386-pc-mingw32/i386 (32-bit)
##
## locale:
## [1] LC_COLLATE=German_Austria.1252 LC_CTYPE=German_Austria.1252
## [3] LC_MONETARY=German_Austria.1252 LC_NUMERIC=C
## [5] LC_TIME=German_Austria.1252
##
## attached base packages:
```