

Appendix 7. Raw model results for a Generalized Additive Model comparing the difference between city polygons and random polygons.

Table A1. Raw model results.

```
Family: gaussian
Link function: identity

Formula:
total_richness ~ log(area.m/1000) + Analysis + s(total_lists)

Parametric coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   81.0531     5.1860  15.629 < 2e-16 ***
log(area.m/1000)  7.9652     0.5085  15.665 < 2e-16 ***
AnalysisRandom -9.5423     1.4167  -6.735 1.97e-11 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Approximate significance of smooth terms:
              edf Ref.df      F p-value
s(total_lists) 8.976      9 344.5 <2e-16 ***
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Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

R-sq.(adj) =  0.693   Deviance explained = 69.4%
GCV = 1148.3   Scale est. = 1143.5       n = 2865
```