**Supplemental Information, Appendix S3**

**Results of Generalized Linear Mixed Model (GLMM) analysis of change in bird community and population characters across a chronosequence of four abandoned pastures and a mature dry forest reference site near Mencia, Dominican Republic**.

Regression analyses used time as a continuous variable for the four pasture sites over the five years they were studied. 1-way ANOVA analyses used site as an ordered categorical variable and used linear and quadratic trend tests to examine change across the entire chronosquence. P values < 0.05 are in bold.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   |   | **Regression** |  |  |  | **1-way ANOVA** |  |  |  |   |   |   |
|   |   |  |  |  |  |  | **Linear trend** |  |  | **Quadratic trend** |   |   |
|   | **Variable** | **Slope** | **(SE)** | **χ2** | **df** | **P** | **Effect size** | **(SE)** | **Z** | **P** | **Effect size** | **(SE)** | **Z** | **P** |
| **Community-level data** | **Species richness** | -0.02 | 0.01 | 5.7 | 4,5 | 0.02 | -0.99 | 0.41 | -2.4 | **0.016** | -0.18 | 0.47 | -0.39 | 0.69 |
| **Simpson's diversity** | -0.18 | 0.08 | 9.6 | 4,5 | 0.002 | -14.7 | 2.63 | -5.6 | **<0.001** | -8.73 | 2.86 | -3.05 | **0.00** |
| **Evenness** | 0.024 | 0.02 | 4.2 | 4,5 | 0.04 | -0.7 | 0.46 | -1.5 | 0.1287 | -1.17 | 0.49 | -2.40 | **0.02** |
|  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |
| **Population Sex Ratio** | **Migrants** |   |   |   |   |   | 2.08 | 0.91 | 2.3 | **0.022** | 1.27 | 1.02 | 1.25 | 0.21 |
| **Residents** |   |   |   |   |   | 0.45 | 0.94 | -0.5 | 0.63 | -0.17 | 1.05 | -0.16 | 0.87 |