**COLOMBIA**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Categories** | **Effects** | **Parameter** | | **Model 1** | **Model 2** | | **Model 3** | **Model 4** | **Model 5** | | **Model 6** | **Model 7** |
| Density | Fixed effects  (coefficients) | Intercept | | -41.304\*\*\*  (1.324) | -20.971\*\*\*  (0.653) | | -41.304\*\*\*  (6.995) | -41.304\*\*\*  (0.611) | -41.304\*\*\*  (6.380) | | -42.171\*\*\*  (6.380) | -42.174\*\*\*  (5.989) |
|  | Time | | 0.339\*\*\*  (0.021) | 0.337\*\*\*  (0.008) | | 0.337\*\*\*  (0.002) | 0.337\*\*\*  (0.098) | 0.337\*\*\*  (0.016) | | 0.385\*\*\*  (0.016) | 0.385\*\*\*  (0.016) |
|  | Time\*\*2 | |  |  | |  |  |  | | -4.341e-4\*\*\*  (2.71e-5) | -4.341e-4\*\*\*  (2.413e-4) |
|  | Origin | |  | -10.166\*\*\*  (0.189) | |  |  |  | |  |  |
|  | Random effects (variance) | Intercept (O) | |  |  | | 15.640 |  | 14.266 | | 14.266 | 14.414 |
|  | Time (O) | |  |  | |  | 0.219 | 0.036 | | 0.036 | 0.035 |
|  | Time\*\*2 (O) | |  |  | |  |  |  | |  | 6.85e-5 |
|  |  | AIC | | 4637.499 | 3626.784 | | 1969.033 | 3811.786 | 1286.068 | | 1077.213 | NA |
| RDI | Fixed effects (coefficients) | Intercept | | -1.188  (4.363) | -50.245\*\*\*  (0.170) | | -1.188  (23.131) | -1.187  (2.204) | -1.188  (23.111) | | -1.352  (23.111) | -1.351  (45.459) |
|  | Time | | 0.346\*\*\*  (0.069) | 0.346\*\*\*  (0.002) | | 0.346\*\*\*  (0.002) | 0.346  (0.316) | 0.346\*\*\*  (0.016) | | 0.355\*\*\*  (0.016) | 0.355\*\*\*  (0.054) |
|  | Time\*\*2 | |  |  | |  |  |  | | -8.24e-5\*\*  (3.96e-5) | -8.24e-5  (4.479e-4) |
|  | Origin | |  | 49.058\*\*\*  (0.089) | |  |  |  | |  |  |
|  | Random effects (variance) | Intercept (O) | |  |  | | 40.063 |  | 40.030 | | 40.030 | 40.094 |
|  | Time (O) | |  |  | |  | 0.543 | 0.027 | | 0.027 | 0.060 |
|  | Time\*\*2 (O) | |  |  | |  |  |  | |  | 4.10e-4 |
|  |  | AIC | | 3409.100 | 1143.086 | | 1049.422 | 2973.877 | 742.663 | | 740.363 | NA |
| \* p<0.1, \*\* p<0.05, \*\*\* p<0.01 | | |  | | |  | | | |  | | |