ARGENTINA

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| **OD categories** | **Effects** | **Parameter** | **Model 1** | **Model 2** | **Model 3** | **Model 4** | **Model 5** |
| Density | Fixed effects (coefficients) | Intercept | -25.749909 (0.287289) | -16.822013 (0.330581) | -26.443262 (3.297673) | -26.60211 (3.56930) | -2.847e+01 (3.573e+00) |
|  |  | Time | 0.298175 (0.004513) | 0.298175 | 0.298174 (0.002471) | 0.30106 (0.02493) | 4.036e-01 (2.631e-02) |
|  |  | Origin |  | -1.774190 (0.003608) |  |  |  |
|  |  | Destination |  | -2.883844 (0.083996) |  |  |  |
|  |  | Time\*\*2 |  |  |  |  | -9.326e-04 (7.639e-05) |
|  | Random effects (variance) | Intercept (O) |  |  | 22.27 (4.719) | 3.191e+01 (5.64851) | 31.916154 (5.64944) |
|  |  | Time (O) |  |  |  | 8.953e-04 (0.02992) | 0.000897 (0.02995) |
|  |  | Intercept (D) |  |  | 31.98 (5.655) | 3.169e+01 (5.62931) | 31.699382 (5.63022) |
|  |  | Time (D) |  |  |  | 2.185e-03 (0.04675) | 0.002187 (0.04677) |
|  |  | AIC | 18276.0 | 17086.6 | 15131.0 | 14677.5 | **14534.5** |
| RDI | Fixed effects (coefficients) | Intercept | -8.49562 (1.16960) | -26.81195 (1.42240) | -8.495619 (5.973821) | -5.70953 (6.82978) | -6.182232 |
|  |  | Time | 0.37091 (0.01837) | 0.37091 (0.01581) | 0.370907 (0.005038) | 0.35293 (0.06309) | 0.378896 |
|  |  | Origin |  | 9.03443 (0.64702) |  |  |  |
|  |  | Destination |  | 7.32872 (0.53790) |  |  |  |
|  |  | Time\*\*2 |  |  |  |  | -0.000236 |
|  | Random effects (variance) | Intercept (O) |  |  | 1.123e-08 (0.000106) | 1.104e+02 (10.50740) | 1.104e+02 (10.5069) |
|  |  | Time (O) |  |  |  | 4.595e-03 (0.06779) | 4.597e-03 (0.0678) |
|  |  | Intercept (D) |  |  | 3.203e+02 (17.895622) | 2.034e-02 (0.14263) | 8.179e+01 (9.0438) |
|  |  | Time (D) |  |  |  | 9.084e-01 (0.95309) | 2.034e-02 (0.1426) |
|  |  | AIC | 8682.5 | 8385.8 | 6166.1 | 2899.2 | **2848.1** |

CHILE

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| **OD categories** | **Effects** | **Parameter** | **Model 1** | **Model 2** | **Model 3** | **Model 4** | **Model 5** |
| Density | Fixed effects (coefficients) | Intercept | -47.234827  (0.349603) | -42.929502  (0.298589) | -47.274500 (1.821860) | -47.23481  (1.27916) | -4.744e+01 |
|  |  | Time | 0.298589  (0.005808) | 0.298175 (0.005331) | 0.298589 (0.001603) | 0.29859  (0.01564) | 3.101e-01 |
|  |  | Origin |  | -2.535215 (0.115279) |  |  |  |
|  |  | Destination |  | 0.137315  (0.109965) |  |  |  |
|  |  | Time\*\*2 |  |  |  |  | -1.105e-04 |
|  | Random effects (variance) | Intercept (O) |  |  | 1.319 (1.148) | 6.512e-04 (2.552e-02) | 3.185e-01 (5.643e-01) |
|  |  | Time (O) |  |  |  | 1.003e-13 (3.167e-07) | 2.445e-19 (4.945e-10) |
|  |  | Intercept (D) |  |  | 73.837 (8.593) | 4.085e+01 (6.391e+00) | 4.047e+01 (6.362e+00) |
|  |  | Time (D) |  |  |  | 6.107e-03 (7.815e-02) | 6.107e-03 (7.815e-02) |
|  |  | AIC | 19002.5 | 18555.9 | 12426.3 | - | **-** |
| RDI | Fixed effects (coefficients) | Intercept | -36.43225 (0.81002) | -49.83725 (0.90794) | -36.432528 (3.935871) | -34.22086 (5.30701) | -3.421e+01 |
|  |  | Time | 0.38041 (0.01346) | 0.38041 (0.01067) | 0.380412 (0.004617) | 0.38041 (0.04681) | 3.800e-01 |
|  |  | Origin |  | 8.67711 (0.41308) |  |  |  |
|  |  | Destination |  | 4.32090 (0.34342) |  |  |  |
|  |  | Time\*\*2 |  |  |  |  | 4.024e-06 |
|  | Random effects (variance) | Intercept (O) |  |  | 7.343e-05 (0.008569) | 7.485e+01 (8.652e+00) | 7.485e+01 (8.652e+00) |
|  |  | Time (O) |  |  |  | 4.352e-30 (2.086e-15) | 1.476e-25 (3.841e-13) |
|  |  | Intercept (D) |  |  | 1.387e+02 (11.778132) | 2.634e+01 (5.132e+00) | 2.634e+01 (5.132e+00) |
|  |  | Time (D) |  |  |  | 1.972e-02 (1.404e-01) | 1.972e-02 (1.404e-01) |
|  |  | AIC | 7467.4 | 7032.5 | 5509.3 | - | **-** |

COLOMBIA

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| **OD categories** | **Effects** | **Parameter** | **Model 1** | **Model 2** | **Model 3** | **Model 4** | **Model 5** |
| Density | Fixed effects (coefficients) | Intercept | -40.087586 (0.586165) | -28.583409 (0.725816) | -40.907720  (4.528994) | -40.72316 (3.56970) | -4.147e+01 |
|  |  | Time | 0.383907 (0.009209) | 0.383906 (0.007477) | 0.383907  (0.001994) | 0.38050 (0.02465) | 4.372e-01 |
|  |  | Origin |  | -6.445087  (0.170942) |  |  |  |
|  |  | Destination |  | 0.135531  (0.163061) |  |  |  |
|  |  | Time\*\*2 |  |  |  |  | -4.842e-04 |
|  | Random effects (variance) | Intercept (O) |  |  | 70.78 (8.413) | 4.228e+01  (6.50226) | 2.378e+01  (4.876e+00) |
|  |  | Time (O) |  |  |  | 1.219e-03 (0.03491) | 5.466e-79 (7.393e-40) |
|  |  | Intercept (D) |  |  | 155.26 (12.460) | 1.051e+02 (10.25073) | 1.164e+02 (1.079e+01) |
|  |  | Time (D) |  |  |  | 8.986e-03 (0.09479) | 1.028e-02 (1.014e-01) |
|  |  | AIC | 23108.3 | 21956.3 | 14810.9 | 7281.1 | **-** |
| RDI | Fixed effects (coefficients) | Intercept |  |  |  |  |  |
|  |  | Time |  |  |  |  |  |
|  |  | Origin |  |  |  |  |  |
|  |  | Destination |  |  |  |  |  |
|  |  | Time\*\*2 |  |  |  |  |  |
|  | Random effects (variance) | Intercept (O) |  |  |  |  |  |
|  |  | Time (O) |  |  |  |  |  |
|  |  | Intercept (D) |  |  |  |  |  |
|  |  | Time (D) |  |  |  |  |  |
|  |  | AIC |  |  |  |  |  |

MEXICO

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| **OD categories** | **Effects** | **Parameter** | **Model 1** | **Model 2** | **Model 3** | **Model 4** | **Model 5** |
| Density | Fixed effects (coefficients) | Intercept | -4.811785  (0.549986) | 5.690122  (0.707624) | -5.805103 (5.111345) | -5.69561 (4.63048) | -6.20619 |
|  |  | Time | 0.494791  (0.008882) | 0.494791  (0.007493) | 0.494791 (0.001305) | 0.49284 (0.01513) | 0.5218463 |
|  |  | Origin |  | -5.506968 (0.166671) |  |  |  |
|  |  | Destination |  | -0.140992 (0.158987) |  |  |  |
|  |  | Time\*\*2 |  |  |  |  | -0.000271 |
|  | Random effects (variance) | Intercept (O) |  |  | 108.551 (10.419) | 8.686e+01 (9.31972) | 8.683e+01 (9.31814) |
|  |  | Time (O) |  |  |  | 4.249e-04 (0.02061) | 4.248e-04 (0.02061) |
|  |  | Intercept (D) |  |  | 108.075 (10.396) | 9.976e+01 (9.98785) | 9.975e+01 (9.98757) |
|  |  | Time (D) |  |  |  | 3.550e-03 (0.05958) | 3.550e-03  (0.05959) |
|  |  | AIC | 22067.0 | 21152.6 | 11919.3 | 6811.7 | 6561.1 |
| RDI | Fixed effects (coefficients) | Intercept | 7.075576  (0.425792) | 0.733169  (0.484249) | 7.075580  (1.918056) | 8.23325  (3.68194) | 8.0334125 |
|  |  | Time | 0.393795  (0.006876) | 0.393795  (0.005532) | 0.393795  (0.003564) | 0.37004  (0.05773) | 0.3812044 |
|  |  | Origin |  | -0.142729 (0.220296) |  |  |  |
|  |  | Destination |  | 4.189307 (0.183144) |  |  |  |
|  |  | Time\*\*2 |  |  |  |  | -0.0001039 |
|  | Random effects (variance) | Intercept (O) |  |  | 2.575e-06  (0.001605) | 20.406677  (4.51738) | 20.403046  (4.51697) |
|  |  | Time (O) |  |  |  | 0.008608  (0.09278) | 0.008607  (0.09277) |
|  |  | Intercept (D) |  |  | 3.267e+01 (5.715958) | 56.535051  (7.51898) | 56.541409  (7.51940) |
|  |  | Time (D) |  |  |  | 0.003792  (0.06158) | 0.003793  (0.06159) |
|  |  | AIC | 6457.3 | 6038.3 | 5234.8 | 1904.6 | 1883.6 |