**Table S1**

*Unconditional Discontinuous Growth Models for Offenses Against a Person with Freely Estimated Random Effects on TIME, INTDIS, and SLOPEDIS*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Poisson | RIP | NB | ZIP | RI–ZIP | ZINB |
| Count model |
| Fixed effects |  |  |  |  |  |  |
|  Intercept (γ00) | –8.377\*\*\* (.045) | –8.625\*\*\* (.089) | –8.591\*\*\* (.085) | –8.214\*\*\* (.051) | –8.574\*\*\* (.088) | –8.568\*\*\* (.085) |
|  TIME(γ10) | –0.048\*\*\* (.012) | –0.015 (.007) | –0.019\* (.008) | –0.045\*\*\* (.011) | –0.012 (.008) | –0.016\* (.008) |
|  INTDIS (γ20) | –0.362\*\* (.119) | –0.482\*\*\* (.103) | –0.461\*\*\* (.113) | –0.485\*\*\* (.100) | –0.580\*\*\* (.105) | –0.504\*\*\* (.101) |
|  SLOPEDIS (γ30) | 0.021 (.018) | –0.018 (.013) | –0.013 (.016) | 0.029 (.018) | –0.011 (.014) | –0.010 (.014) |
|  Season (γ40) | –0.009\*\*\* (.002) | –0.012\*\*\* (.002) | –0.012\*\*\* (.002) | –0.005 (.003) | –0.005 (.003) | –0.007\* (.003) |
| Random effects |  |  |  |  |  |  |
|  Intercept (VAR[$u\_{0i}$]) |  | 0.707 | 0.568 |  | 0.639 | 0.567 |
|  TIME (VAR[$u\_{1i}$]) | 0.009 | 0.001 | 0.000 | 0.001 | 0.000 | 0.000 |
|  INTDIS (VAR[$u\_{2i}$]) | 0.324 | 0.186 | 0.067 | 0.000 | 0.132 | 0.000 |
|  SLOPEDIS (VAR[$u\_{3i}$]) | 0.014 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 |
| Dispersion |  |  | 5.74 |  |  | 7.17 |
| Zero-inflated model |
| Intercept (π00) |  |  |  | –2.012\*\*\* (.198) | –5.134\*\*\* (1.424) | –6.802\*\* (2.322) |
|  Season (π10) |  |  |  | 0.051\* (.020) | 0.277\* (.110) | 0.373\* (.173) |
| Model fit |
| DF | 11 | 15 | 16 | 13 | 17 | 18 |
| LogL | –3,734 | CP | CP | –3,710 | CP | CP |
| BIC | 7,557 | CP | CP | 7,524 | CP | CP |

*Note*. RIP = random intercept Poisson; NB = negative binomial; ZIP = zero-inflated Poisson; RI-ZIP = random intercept zero-inflated Poisson; ZINB = zero-inflated negative binomial; BIC = Bayesian information criterion; TIME = slope prior to the discontinuity; INTDIS = intercept discontinuity; SLOPEDIS = slope discontinuity; VAR = variance; DF = degrees of freedom; LogL = log likelihood; and CP = convergence problem.

\**p* < .05, \*\**p* < .01, \*\*\**p* < .001.

**Table S2**

*Unconditional Discontinuous Growth Models for Property Offenses with Freely Estimated Random Effects on TIME, INTDIS, and SLOPEDIS*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Poisson | RIP | NB | ZIP | RI–ZIP | ZINB |
| Count model |
| Fixed effects |  |  |  |  |  |  |
|  Intercept (γ00) | –8.764\*\*\* (.055) | –8.999\*\*\* (.096) | –8.972\*\*\* (.093) | –8.550\*\*\* (.062) | –8.819\*\*\* (.094) | –8.945\*\*\* (.099) |
|  TIME(γ10) | –0.048\*\*\* (.014) | –0.013 (.011) | –0.015 (.011) | –0.044\*\* (.014) | –0.009 (.009) | –0.010 (.011) |
|  INTDIS (γ20) | –0.174 (.139) | –0.335\*\* (.107) | –0.329\* (.133) | –0.182 (.139) | –0.353\*\* (.127) | –0.400\*\* (.124) |
|  SLOPEDIS (γ30) | –0.010 (.021) | –0.051\*\* (.019) | –0.048\*\* (.017) | –0.016 (.022) | –0.055\*\* (.018) | –0.045\* (.019) |
|  Season (γ40) | –0.002 (.003) | –0.005 (.003) | –0.005 (.003) | 0.003 (.004) | –0.001 (.004) | 0.001 (.004) |
| Random effects |  |  |  |  |  |  |
|  Intercept (VAR[$u\_{0i}$]) |  | 0.587 | 0.521 |  | 0.558 | 0.520 |
|  TIME (VAR[$u\_{1i}$]) | 0.011 | 0.000 | 0.000 | 0.010 | 0.000 | 0.000 |
|  INTDIS (VAR[$u\_{2i}$]) | 0.328 | 0.000 | 0.000 | 0.202 | 0.023 | 0.000 |
|  SLOPEDIS (VAR[$u\_{3i}$]) | 0.016 | 0.000 | 0.001 | 0.015 | 0.001 | 0.001 |
| Dispersion |  |  | 3.04 |  |  | 4.02 |
| Zero-inflated model |
| Intercept (π00) |  |  |  | –1.395\*\*\* (.149) | –1.566\*\*\* (.175) | –4.640\* (2.193) |
|  Season (π10) |  |  |  | 0.030\* (.014) | 0.021 (.018) | 0.219 (.161) |
| Model fit |
| DF | 11 | 15 | 16 | 13 | 17 | 18 |
| LogL | –3,104 | CP | CP | –3,066 | CP | CP |
| BIC | 6,297 | CP | CP | 6,237 | CP | CP |

*Note*. RIP = random intercept Poisson; NB = negative binomial; ZIP = zero-inflated Poisson; RI-ZIP = random intercept zero-inflated Poisson; ZINB = zero-inflated negative binomial; BIC = Bayesian information criterion; TIME = slope prior to the discontinuity; INTDIS = intercept discontinuity; SLOPEDIS = slope discontinuity; VAR = variance; DF = degrees of freedom; LogL = log likelihood; and CP = convergence problem.

\**p* < .05, \*\**p* < .01, \*\*\**p* < .001.

**Table S3**

*Unconditional Discontinuous Growth Models for Drug-related Offenses with Freely Estimated Random Effects on TIME, INTDIS, and SLOPEDIS*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Poisson | RIP | NB | ZIP | RI–ZIP | ZINB |
| Count model |
| Fixed effects |  |  |  |  |  |  |
|  Intercept (γ00) | –8.748\*\*\* (.060) | –8.930\*\*\* (.095) |  | –8.288\*\*\* (.082) |  | –8.682\*\*\* (.091) |
|  TIME(γ10) | –0.280\*\*\* (.017) | –0.248\*\*\* (.016) |  | –0.279\*\*\* (.018) |  | –0.241\*\*\* (.016) |
|  INTDIS (γ20) | 0.778\*\*\* (.235) | 0.333 (.310) |  | 0.829\*\* (.253) |  | 0.144 (.295) |
|  SLOPEDIS (γ30) | 0.167\*\*\* (.047) | 0.165\*\*\* (.036) |  | 0.152\*\*\* (.044) |  | 0.176\*\*\* (.034) |
|  Season (γ40) | –0.036\*\*\* (.005) | –0.037\*\*\* (.005) |  | –0.025\* (.012) |  | –0.008 (.009) |
| Random effects |  |  |  |  |  |  |
|  Intercept (VAR[$u\_{0i}$]) |  | 0.443 |  |  |  | 0.224 |
|  TIME (VAR[$u\_{1i}$]) | 0.005 | 0.003 |  | 0.004 |  | 0.000 |
|  INTDIS (VAR[$u\_{2i}$]) | 0.000 | 1.031 |  | 0.000 |  | 0.263 |
|  SLOPEDIS (VAR[$u\_{3i}$]) | 0.003 | 0.000 |  | 0.002 |  | 0.000 |
| Dispersion |  |  |  |  |  | 4.28 |
| Zero-inflated model |
| Intercept (π00) |  |  |  | –0.648\*\*\* (.180) |  | –4.372\*\*\* (1.091) |
|  Season (π10) |  |  |  | 0.044 (.031) |  | 0.376\*\*\* (.085) |
| Model fit |
| DF | 11 | 15 | 16 | 13 | 17 | 18 |
| LogL | CP | CP | CP | CP | CP | CP |
| BIC | CP | CP | CP | CP | CP | CP |

*Note*. RIP = random intercept Poisson; NB = negative binomial; ZIP = zero-inflated Poisson; RI-ZIP = random intercept zero-inflated Poisson; ZINB = zero-inflated negative binomial; BIC = Bayesian information criterion; TIME = slope prior to the discontinuity; INTDIS = intercept discontinuity; SLOPEDIS = slope discontinuity; VAR = variance; DF = degrees of freedom; LogL = log likelihood; and CP = convergence problem.

\**p* < .05, \*\**p* < .01, \*\*\**p* < .001.

 **Table S4**

*Unconditional Discontinuous Growth Models for Offenses Against a Person with Freely Estimated Random Effects on INTDIS*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Poisson | RIP | NB | ZIP | RI–ZIP | ZINB |
| Count model |
| Fixed effects |  |  |  |  |  |  |
|  Intercept (γ00) | –8.417\*\*\* (.045) | –8.586\*\*\* (.082) | –8.587\*\*\* (.085) | –8.170\*\*\* (.049) | –8.570\*\*\* (.083) | –8.566\*\*\* (.085) |
|  TIME(γ10) | –0.022\*\* (.007) | –0.022\*\* (.007) | –0.020\* (.008) | –0.021\*\* (.008) | –0.020\*\* (.007) | –0.016\* (.008) |
|  INTDIS (γ20) | –0.600\*\*\* (.116) | –0.451\*\*\* (.097) | –0.458\*\*\* (.105) | –0.618\*\*\* (.121) | –0.510\*\*\* (.098) | –0.524\*\*\* (.106) |
|  SLOPEDIS (γ30) | –0.005 (.012) | –0.005 (.012) | –0.007 (.013) | –0.007 (.013) | 0.007 (.013) | –0.004 (.013) |
|  Season (γ40) | –0.013\*\*\* (.002) | –0.013\*\*\* (.002) | –0.012\*\*\* (.002) | –0.009\*\* (.003) | –0.016\*\* (.002) | –0.008\*\* (.003) |
| Random effects |  |  |  |  |  |  |
|  Intercept (VAR[$u\_{0i}$]) |  | 0.584 | 0.568 |  | 0.575 | 0.563 |
|  INTDIS (VAR[$u\_{2i}$]) | 0.554 | 0.039 | 0.001 | 0.522 | 0.024 | 0.007 |
| Dispersion |  |  | 5.27 |  |  | 6.71 |
| Zero-inflated model |
| Intercept (π00) |  |  |  | –1.371\*\*\* (.101) | –6.034\*\* (1.887) | –6.823\*\* (2.364) |
|  Season (π10) |  |  |  | 0.015 (.011) | –0.274\* (.119) | 0.374\* (0.176) |
| Model fit |
| DF | 6 | 8 | 9 | 8 | 10 | 11 |
| LogL | –3,948 | –3,625 | CP | –3,856 | –3,619 | –3,599 |
| BIC | 7,946 | 7,316 | CP | 7,777 | 7,318 | 7,286 |

*Note*. RIP = random intercept Poisson; NB = negative binomial; ZIP = zero-inflated Poisson; RI-ZIP = random intercept zero-inflated Poisson; ZINB = zero-inflated negative binomial; BIC = Bayesian information criterion; TIME = slope prior to the discontinuity; INTDIS = intercept discontinuity; SLOPEDIS = slope discontinuity; VAR = variance; DF = degrees of freedom; LogL = log likelihood; and CP = convergence problem.

\**p* < .05, \*\**p* < .01, \*\*\**p* < .001.

**Table S5**

*Unconditional Discontinuous Growth Models for Property Offenses with Freely Estimated Random Effects on INTDIS*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Poisson | RIP | NB | ZIP | RI–ZIP | ZINB |
| Count model |
| Fixed effects |  |  |  |  |  |  |
|  Intercept (γ00) | –8.820\*\*\* (.055) | –8.989\*\*\* (.089) | –8.972\*\*\* (.094) | –8.487\*\*\* (.061) | –8.819\*\*\* (.094) | –8.947\*\*\* (.095) |
|  TIME(γ10) | –0.014 (.009) | –0.014 (.009) | –0.014 (.010) | –0.001 (.010) | –0.009 (.009) | –0.009 (.010) |
|  INTDIS (γ20) | –0.490\*\*\* (.129) | –0.332\*\* (.117) | –0.321\*\* (.123) | –0.366\*\* (.117) | –0.355\*\* (.122) | –0.396\*\* (.124) |
|  SLOPEDIS (γ30) | –0.047\*\*\* (.014) | –0.047\*\*\* (.014) | –0.048\*\* (.016) | –0.061\*\*\* (.016) | –0.053\*\*\* (.015) | –0.046\*\* (.016) |
|  Season (γ40) | –0.006\* (.003) | –0.006\* (.003) | –0.005 (.003) | –0.001 (.004) | –0.001 (.004) | 0.001 (.004) |
| Random effects |  |  |  |  |  |  |
|  Intercept (VAR[$u\_{0i}$]) |  | 0.572 | 0.539 |  | 0.556 | 0.540 |
|  INTDIS (VAR[$u\_{2i}$]) | 0.547 | 0.127 | 0.000 | 0.000 | 0.094 | 0.000 |
| Dispersion |  |  | 2.83 |  |  | 3.63 |
| Zero-inflated model |
| Intercept (π00) |  |  |  | –0.707\*\*\* (.087) | –1.565\*\*\* (.175) | –4.796\* (2.333) |
|  Season (π10) |  |  |  | 0.009 (.009) | 0.021 (.018) | 0.229 (0.171) |
| Model fit |
| DF | 6 | 8 | 9 | 8 | 10 | 11 |
| LogL | –3,258 | –3,045 | CP | –3,211 | –3,019 | CP |
| BIC | 6,564 | 6,156 | CP | 6,486 | 6,119 | CP |

*Note*. RIP = random intercept Poisson; NB = negative binomial; ZIP = zero-inflated Poisson; RI-ZIP = random intercept zero-inflated Poisson; ZINB = zero-inflated negative binomial; BIC = Bayesian information criterion; TIME = slope prior to the discontinuity; INTDIS = intercept discontinuity; SLOPEDIS = slope discontinuity; VAR = variance; DF = degrees of freedom; LogL = log likelihood; and CP = convergence problem.

\**p* < .05, \*\**p* < .01, \*\*\**p* < .001.

**Table S6**

*Unconditional Discontinuous Growth Models for Drug-related Offenses with Freely Estimated Random Effects on INTDIS,*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Poisson | RIP | NB | ZIP | RI–ZIP | ZINB |
| Count model |
| Fixed effects |  |  |  |  |  |  |
|  Intercept (γ00) | –8.770\*\*\* (.060) | –8.892\*\*\* (.085) | –8.865\*\*\* (.091) | –8.285\*\*\* (.080) | –8.686\*\*\* (.093) | –8.681\*\*\* (.091) |
|  TIME(γ10) | –0.264\*\*\* (.014) | –0.264\*\*\* (.014) | –0.265\*\*\* (.016) | –0.265\*\*\* (.016) | –0.240\*\*\* (.015) | –0.241\*\*\* (.016) |
|  INTDIS (γ20) | 0.894\*\*\* (.231) | 0.894\*\*\* (.231) | 0.919\*\*\* (.243) | 0.532 (.298) | 0.404 (.247) | 0.143 (.295) |
|  SLOPEDIS (γ30) | 0.157\*\*\* (.033) | 0.157\*\*\* (.033) | 0.154\*\*\* (.034) | 0.157\*\*\* (.035) | 0.182\*\*\* (.033) | 0.176\*\*\* (.034) |
|  Season (γ40) | –0.038\*\*\* (.005) | –0.038\*\*\* (.005) | –0.040\*\*\* (.005) | –0.024\* (.012) | –0.002 (.008) | –0.008 (.009) |
| Random effects |  |  |  |  |  |  |
|  Intercept (VAR[$u\_{0i}$]) |  | 0.346 | 0.291 |  | 0.343 | 0.224 |
|  INTDIS (VAR[$u\_{2i}$]) | 0.000 | 0.000 | 0.000 | 0.843 | 0.000 | 0.263 |
| Dispersion |  |  | 2.46 |  |  | 4.27 |
| Zero-inflated model |
| Intercept (π00) |  |  |  | –0.600\*\*\* (.171) | –3.775\*\*\* (1.035) | –4.371\*\*\* (1.090) |
|  Season (π10) |  |  |  | 0.048 (.029) | 0.345\*\*\* (.083) | 0.376\*\*\* (.085) |
| Model fit |
| DF | 6 | 8 | 9 | 8 | 10 | 11 |
| LogL | CP | –1,281 | CP | –1,280 | –1,263 | CP |
| BIC | CP | 2,627 | CP | 2,624 | 2,608 | CP |

*Note*. RIP = random intercept Poisson; NB = negative binomial; ZIP = zero-inflated Poisson; RI-ZIP = random intercept zero-inflated Poisson; ZINB = zero-inflated negative binomial; BIC = Bayesian information criterion; TIME = slope prior to the discontinuity; INTDIS = intercept discontinuity; SLOPEDIS = slope discontinuity; VAR = variance; DF = degrees of freedom; LogL = log likelihood; and CP = convergence problem.

\**p* < .05, \*\**p* < .01, \*\*\**p* < .001.

**Table S7**

*Conditional Discontinuous Growth Models for Offenses Against a Person*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Poisson | RIP | NB | ZIP | RI–ZIP | ZINB |
| Count model |
| Fixed effects |  |  |  |  |  |  |
|  Intercept  | –8.399\*\*\* (.045) | –8.490\*\*\* (.068) | –8.490\*\*\* (.071) | –8.197\*\*\* (.050) | –8.439\*\*\* (.068) | –8.459\*\*\* (.071) |
|  TIME | –0.022\*\* (.007) | –0.022\*\* (.007) | –0.020\* (.008) | –0.020\*\* (.008) | –0.016\* (.007) | –0.016 (.008) |
|  INTDIS | –0.528\*\*\* (.104) | –0.445\*\*\* (.095) | –0.452\*\*\* (.102) | –0.449\*\*\* (.100) | –0.545\*\*\* (.094) | –0.533\*\*\* (.104) |
|  SLOPEDIS | –0.005 (.012) | –0.005 (.012) | –0.007 (.013) | –0.006 (.012) | 0.001 (.012) | –0.003 (.013) |
|  Season | –0.013\*\*\* (.002) | –0.013\*\*\* (.002) | –0.012\*\*\* (.002) | –0.009\*\* (.003) | –0.004 (.003) | –0.006\* (.003) |
|  ICE | –2.273\*\*\* (.122) | –2.478\*\*\* (.261) | –2.477\*\*\* (.260) | –1.606\*\*\* (.152) | –2.287\*\*\* (.262) | –2.301\*\*\* (.264) |
|  ICE\* INTDIS | –0.354 (.316) | –0.205 (.243) | –0.210 (.237) | –0.261 (.239) | –0.174 (.223) | –0.195 (.239) |
| Random effects |  |  |  |  |  |  |
|  Intercept  |  | 0.296 | 0.278 |  | 0.283 | 0.276 |
|  INTDIS | 0.251 | 0.038 | 0.000 | 0.000 | 0.000 | 0.000 |
| Dispersion |  |  | 5.26 |  |  | 6.86 |
| Zero-inflated model |
| Intercept |  |  |  | –1.644\*\*\* (.143) | –5.212\*\*\* (1.442) | –6.679\*\*\* (1.853) |
|  Season |  |  |  | 0.019 (.012) | 0.290\*\* (.111) | 0.372\*\* (.140) |
|  ICE |  |  |  | 3.403\*\*\* (.570) | 3.361\*\*\* (.933) | 4.081\*\*\* (1.181) |
| Model fit |
| DF | 8 | 10 | 11 | 11 | 13 | 14 |
| LogL | –3,725 | –3,583 | CP | CP | CP | CP |
| BIC | 7,514 | 7,247 | CP | CP | CP | CP |

*Note*. RIP = random intercept Poisson; NB = negative binomial; ZIP = zero-inflated Poisson; RI-ZIP = random intercept zero-inflated Poisson; ZINB = zero-inflated negative binomial; BIC = Bayesian information criterion; TIME = slope prior to the discontinuity; INTDIS = intercept discontinuity; SLOPEDIS = slope discontinuity; DF = degrees of freedom; LogL = log likelihood; and CP = convergence problem.

\**p* < .05, \*\**p* < .01, \*\*\**p* < .001.

**Table S8**

*Conditional Discontinuous Growth Models for Property Offenses*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Poisson | RIP | NB | ZIP | RI–ZIP | ZINB |
| Count model |
| Fixed effects |  |  |  |  |  |  |
|  Intercept  | –8.810\*\*\* (.056) | –8.890\*\*\* (.074) | –8.880\*\*\* (.080) | –8.537\*\*\* (.062) | –8.699\*\*\* (.080) | –8.855\*\*\* (.081) |
|  TIME | –0.014 (.009) | –0.014 (.009) | –0.014 (.010) | –0.005 (.010) | –0.009 (.009) | –0.009 (.010) |
|  INTDIS | –0.421\*\*\* (.120) | –0.339\*\* (.115) | –0.315\*\* (.122) | –0.351\*\* (.116) | –0.326\*\* (.114) | –0.391\*\* (.124) |
|  SLOPEDIS | –0.047\*\*\* (.014) | –0.047\*\*\* (.014) | –0.048\*\* (.016) | –0.055\*\*\* (.015) | –0.053\*\*\* (.015) | –0.046\*\* (.016) |
|  Season | –0.006\* (.003) | –0.006\* (.003) | –0.005 (.003) | –0.001 (.004) | –0.001 (.004) | 0.001 (.004) |
|  ICE | –2.463\*\*\* (.149) | –2.549\*\*\* (.265) | –2.568\*\*\* (.268) | –1.941\*\*\* (.209) | –2.384\*\*\* (.318) | –2.581\*\*\* (.274) |
|  ICE\* INTDIS | 0.069 (.364) | 0.135 (.319) | 0.199 (.290) | 0.349 (.294) | 0.221 (.283) | 0.190 (.289) |
| Random effects |  |  |  |  |  |  |
|  Intercept  |  | 0.255 | 0.236 |  | 0.241 | 0.236 |
|  INTDIS | 0.308 | 0.127 | 0.000 | 0.000 | 0.000 | 0.000 |
| Dispersion |  |  | 2.85 |  |  | 3.67 |
| Zero-inflated model |
| Intercept |  |  |  | –0.995\*\*\* (.112) | –1.453\*\*\* (.170) | –4.891\* (2.319) |
|  Season |  |  |  | 0.012 (.011) | 0.018 (.017) | 0.236 (.168) |
|  ICE |  |  |  | 1.954\*\*\* (.561) | 0.958 (.907) | –0.400 (1.713) |
| Model fit |
| DF | 8 | 10 | 11 | 11 | 13 | 14 |
| LogL | –3,083 | –3,005 | CP | –3,053 | CP | CP |
| BIC | 6,230 | 6,091 | CP | 6,195 | CP | CP |

*Note*. RIP = random intercept Poisson; NB = negative binomial; ZIP = zero-inflated Poisson; RI-ZIP = random intercept zero-inflated Poisson; ZINB = zero-inflated negative binomial; BIC = Bayesian information criterion; TIME = slope prior to the discontinuity; INTDIS = intercept discontinuity; SLOPEDIS = slope discontinuity; DF = degrees of freedom; LogL = log likelihood; and CP = convergence problem.

\**p* < .05, \*\**p* < .01, \*\*\**p* < .001.

**Table S9**

*Conditional Discontinuous Growth Models for Drug-related Offenses*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Poisson | RIP | NB | ZIP | RI–ZIP | ZINB |
| Count model |
| Fixed effects |  |  |  |  |  |  |
|  Intercept  | –8.739\*\*\* (.060) | –8.826\*\*\* (.077) | –8.808\*\*\* (.083) | –8.333\*\*\* (.087) | –8.628\*\*\* (.086) | –8.687\*\*\* (.096) |
|  TIME | –0.264\*\*\* (.014) | –0.264\*\*\* (.014) | –0.264\*\*\* (.016) | –0.265\*\*\* (.016) | –0.240\*\*\* (.015) | –0.252\*\*\* (.018) |
|  INTDIS | 0.561\* (.279) | 0.887\*\*\* (.232) | 0.906\*\*\* (.243) | 0.601\* (.291) | 0.400 (.247) | 0.675\* (.277) |
|  SLOPEDIS | 0.157\*\*\* (.033) | 0.157\*\*\* (.033) | 0.153\*\*\* (.034) | 0.156\*\*\* (.034) | 0.181\*\*\* (.033) | 0.179\*\*\* (.037) |
|  Season | –0.038\*\*\* (.005) | –0.038\*\*\* (.005) | –0.040\*\*\* (.005) | –0.029\* (.013) | –0.003 (.008) | –0.057\*\*\* (.007) |
|  ICE | –1.864\*\*\* (.228) | –1.915\*\*\* (.311) | –1.858\*\*\* (.317) | –0.822\* (.366) | –1.978\*\*\* (.334) | –1.642\*\*\* (.379) |
|  ICE\* INTDIS | –0.266 (.750) | –0.240 (.611) | –0.283 (.629) | –0.349 (.765) | –0.202 (.617) | –0.364 (.629) |
| Random effects |  |  |  |  |  |  |
|  Intercept  |  | 0.208 | 0.163 |  | 0.203 | 0.149 |
|  INTDIS | 0.745 | 0.000 | 0.000 | 0.662 | 0.000 | 0.000  |
| Dispersion |  |  | 2.66 |  |  | 8.54 |
| Zero-inflated model |
| Intercept |  |  |  | –0.888\*\*\* (.268) | –3.976\*\*\* (1.092) | –2.821\*\*\* (.830) |
|  Season |  |  |  | 0.041 (.036) | 0.360\*\*\* (.087) | –0.181\*\* (.070) |
|  ICE |  |  |  | 2.961\*\* (1.120) | –0.391 (1.099) | 0.906 (1.438) |
| Model fit |
| DF | 8 | 10 | 11 | 11 | 13 | 14 |
| LogL | –1,274 | –1,261 | –1,254 | –1,250 | CP | CP |
| BIC | 2,612 | 2,603 | 2,597 | 2,589 | CP | CP |

*Note*. RIP = random intercept Poisson; NB = negative binomial; ZIP = zero-inflated Poisson; RI-ZIP = random intercept zero-inflated Poisson; ZINB = zero-inflated negative binomial; BIC = Bayesian information criterion; TIME = slope prior to the discontinuity; INTDIS = intercept discontinuity; SLOPEDIS = slope discontinuity; DF = degrees of freedom; LogL = log likelihood; and CP = convergence problem.

\**p* < .05, \*\**p* < .01, \*\*\**p* < .001.