|                                 | Violent Crime-<br>Model 2 |               | Violent Crime-<br>Model 3 |               | Violent Crime-<br>Model 4 |               |
|---------------------------------|---------------------------|---------------|---------------------------|---------------|---------------------------|---------------|
| _                               | Estimate                  | std.<br>Error | Estimate                  | std.<br>Error | Estimate                  | std.<br>Error |
| Fixed Parts                     |                           |               |                           |               |                           |               |
| (Intercept)                     | 166.05 ***                | 5.39          | 175.67 ***                | 6.74          | 169.86 ***                | 6.17          |
| Mean NDVI                       | -25.94 ***                | 1.79          | -28.39 ***                | 1.66          | -25.24 ***                | 3.47          |
| Median Household Income (000's) | -0.40 ***                 | 0.02          | -0.39 ***                 | 0.02          | -0.39 ***                 | 0.02          |
| Disadvantage Index              | 100.22 ***                | 0.85          | 99.86 ***                 | 0.85          | 100.23 ***                | 0.78          |
| Diversity Index                 | -35.00 ***                | 2.61          | -34.81 ***                | 2.61          | -34.63 ***                | 2.59          |
| Percent under 18                | 0.04                      | 0.05          | 0.05                      | 0.05          |                           |               |
| Log Population Density          | -29.78 ***                | 0.57          | -29.95 ***                | 0.57          | -29.92 ***                | 0.57          |
| Per capita Police Force         |                           |               | 4.27                      | 3.55          |                           |               |
| Per capita GDP                  |                           |               | 0.62 ***                  | 0.16          | 0.63 ***                  | 0.16          |
| Violent Crime Rate              |                           |               | 15.37 ***                 | 0.81          | 15.96 ***                 | 0.67          |
| Climate Region-cool-wet-lo      |                           |               | 39.98 ***                 | 7.22          | 54.62 ***                 | 7.79          |
| Climate Region-warm-dry-hi      |                           |               | -17.39                    | 9.55          | -22.31 *                  | 9.83          |
| Climate Region-warm-wet-hi      |                           |               | 23.77 **                  | 7.75          | 27.25 **                  | 8.44          |
| NDVI X cool-wet-lo              |                           |               |                           |               | -11.30 **                 | 4.29          |
| NDVI X warm-dry-hi              |                           |               |                           |               | 12.94 *                   | 5.40          |
| NDVI X warm-wet-hi              |                           |               |                           |               | -1.97                     | 4.73          |
| Random Parts                    |                           |               |                           |               |                           |               |
| $\sigma^2$                      | 9505.988                  |               | 9515.704                  |               | 9515.147                  |               |
| $\tau_{00,city\_st}$            | 8429.064                  |               | 2236.701                  |               | 2104.063                  |               |
| $Q_{01}$                        | -0.692                    |               | -0.647                    |               | -0.617                    |               |
| N <sub>city_st</sub>            | 301                       |               | 301                       |               | 301                       |               |
| Observations                    | 59647                     |               | 59647                     |               | 59647                     |               |
| AIC                             | 717459.740                |               | 717119.533                |               | 717084.170                |               |