## Appendix

**Table A1: 2010 to 2020 Malapportionment Change Descriptive Statistics**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Statistic  |  N  |  Mean  |  St. Dev.  |  Min  |  Pctl(25)  |  Pctl(75)  |  Max  |
| Formula Ratio Change  |  51  |  0.022  |  0.096  |  0.232  |  0.014  |  0.039  |  0.557  |
| Formula Difference Change  |  51  |  0.000  |  68.852  |  332.082  |  14.567  |  28.366  |  138.003  |
| HTF Ratio Change  |  51  |  0.037  |  0.124  |  0.471  |  0.079  |  0.003  |  0.412  |
| HTF Difference Change  |  51  |  18.472  |  83.046  |  508.645  |  37.732  |  12.325  |  138.280  |

**Table A2: 2010 to 2020 Covariate Descriptive Statistics**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Statistic  |  N  |  Mean  |  St. Dev.  |  Min  |  Pctl(25)  |  Pctl(75)  |  Max  |
| Percent Earmark  |  51  |  13.143  |  6.356  |  3.240  |  8.870  |  16.721  |  35.678  |
| Population  |  51  |  60.651  |  68.380  |  5.645  |  17.001  |  66.546  |  373.195  |
| Federal Aid Highway Miles  |  51  |  4.668  |  3.655  |  0.144  |  2.250  |  6.529  |  20.867  |
| Vehicle Miles Traveled  |  51  |  4.937  |  5.426  |  0.288  |  1.435  |  5.802  |  30.417  |
| Population  |  51  |  3.605  |  1.042  |  1.731  |  2.830  |  4.198  |  5.922  |
| (Logged) |
| Federal Aid Highway Miles  |  51  |  1.198  |  0.971  |  1.937  |  0.811  |  1.876  |  3.038  |
| (Logged) |
| Vehicle Miles Traveled  |  51  |  1.116  |  1.042  |  1.247  |  0.346  |  1.758  |  3.415  |
| (Logged) |

**Table A3: 2005 to 2009 Covariate Descriptive Statistics**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Statistic  |  N  |  Mean  |  St. Dev.  |  Min  |  Pctl(25)  |  Pctl(75)  |  Max  |
| HTF Ratio Change  |  51  |  0.037  |  0.124  |  0.471  |  0.079  |  0.003  |  0.412  |
| HTF Difference Change  |  51  |  32.693  |  38.962  |  195.365  |  49.256  |  9.617  |  39.987  |

**Table A4: 2005 to 2009 Malapportionment Change Descriptive Statistics**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Statistic  |  N  |  Mean  |  St. Dev.  |  Min  |  Pctl(25)  |  Pctl(75)  |  Max  |
| Percent Earmark  |  51  |  13.143  |  6.356  |  3.240  |  8.870  |  16.721  |  35.678  |
| Population  |  51  |  57.413  |  64.609  |  5.091  |  15.706  |  63.226  |  355.746  |
| Federal Aid Highway Miles  |  51  |  4.489  |  3.472  |  0.143  |  2.194  |  6.429  |  19.543  |
| Vehicle Miles Traveled  |  51  |  4.805  |  5.244  |  0.303  |  1.451  |  5.844  |  29.715  |
| Population  |  51  |  3.549  |  1.044  |  1.627  |  2.748  |  4.147  |  5.874  |
| (Logged) |
| Federal Aid Highway Miles  |  51  |  1.164  |  0.963  |  1.943  |  0.785  |  1.861  |  2.973  |
| (Logged) |
| Vehicle Miles Traveled  |  51  |  1.094  |  1.034  |  1.193  |  0.362  |  1.765  |  3.392  |
| (Logged) |