## 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) | |