**ONLINE APPENDIX**

Table A1. The Effect of Distance on the Number of Parties (Entire U.S.)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Models | | | | | | | |
|  | 1850 | 1875 | 1900 | 1925 | 1950 | 1975 | 2000 | 2016 |
| (log of) Distance in km | 0.018  (0.030) | 0.0093  (0.014) | 0.036\*\*\*  (0.010) | 0.036\*\*  (0.016) | 0.029  (0.019) | 0.019  (0.019) | 0.011  (0.019) | 0.016  (0.021) |
| State Population (in millions) | 0.23\*\*\*  (0.044) | -0.044\*\*  (0.020) | 0.015  (0.020) | 0.011  (0.10) | -0.013  (0.011) | -0.012  (0.0065) | -0.0065  (0.0048) | -0.0032  (0.0038) |
| Valid Votes (in millions) | 0.32  (0.16) | 0.28  (0.16) | 0.17  (0.11) | 0.10\*\*  (0.04) | 0.026\*\*  (0.013) | 0.023\*\*  (0.011) | 0.020  (0.012) | 0.023  (0.014) |
| State Dummies | YES | YES | YES | YES | YES | YES | YES | YES |
| Constant | 2.08\*\*\*  (0.20) | 2.00\*\*\*  (0.09) | 1.82\*\*\*  (0.07) | 1.81\*\*\*  (0.11) | 1.85\*\*\*  (0.12) | 1.89\*\*\*  (0.12) | 1.93\*\*\*  (0.13) | 1.90\*\*\*  (0.14) |
| Number of Observations | 1,390 | 4.289 | 8,188 | 13,159 | 17,740 | 22.830 | 27,759 | 31,574 |
| R2 | 0.18 | 0.13 | 0.15 | 0.23 | 0.24 | 0.24 | 0.20 | 0.19 |

Note: Shown are OLS coefficients with standard errors clustered by state in parentheses.

\*\*\*p < 0.01; \*\*p < 0.05.

Table A2. The Effect of Distance on the Number of Parties (U.S., Non-South)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Models | | | | | | | |
|  | 1850 | 1875 | 1900 | 1925 | 1950 | 1975 | 2000 | 2016 |
| (log of) Distance in km | -0.040  (0.032) | -0.015  (0.014) | 0.034\*\*  (0.016) | 0.024  (0.025) | 0.014  (0.028) | 0.0094  (0.029) | 0.016  (0.026) | 0.030  (0.021) |
| State Population (in millions) | 0.25\*\*\*  (0.039) | -0.040  (0.021) | 0.014  (0.019) | 0.022\*\*\*  (0.0079) | -0.0048  (0.0080) | -0.010  (0.0061) | -0.0080  (0.0058) | -0.0064  (0.0048) |
| Valid Votes (in millions) | 0.55  (0.41) | 0.14  (0.12) | 0.064  (0.036) | 0.061\*\*\*  (0.018) | 0.0150  (0.0091) | 0.0090  (0.0078) | 0.0009  (0.012) | -0.0005  (0.015) |
| State Dummies | YES | YES | YES | YES | YES | YES | YES | YES |
| Constant | 2.44\*\*\*  (0.21) | 2.16\*\*\*  (0.09) | 1.84\*\*\*  (0.11) | 1.89\*\*\*  (0.17) | 1.95\*\*\*  (0.18) | 1.95\*\*\*  (0.19) | 1.90\*\*\*  (0.17) | 1.82\*\*\*  (0.14) |
| Number of Observations | 1,038 | 3,339 | 6,254 | 10,202 | 14,082 | 18,254 | 21,958 | 24,631 |
| R2 | 0.14 | 0.07 | 0.07 | 0.05 | 0.04 | 0.06 | 0.07 | 0.08 |

Note: Shown are OLS coefficients with standard errors clustered by state in parentheses.

\*\*\*p < 0.01; \*\*p < 0.05.

Table A3. The Effect of Distance on the Number of Parties (Entire U.S.) with a Restricted Sample

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Models | | | | | | |
|  | 1875 | 1900 | 1925 | 1950 | 1975 | 2000 | 2016 | |
| (log of) Distance in km | -0.00060  (0.019) | 0.040\*\*\*  (0.012) | 0.039\*\*  (0.018) | 0.030  (0.021) | 0.019  (0.021) | 0.011  (0.022) | 0.017  (0.024) | |
| State Population (in millions) | -0.12  (0.059) | 0.022  (0.024) | 0.011  (0.13) | -0.016  (0.014) | -0.013  (0.0068) | -0.0062  (0.0050) | -0.0028  (0.0039) | |
| Valid Votes (in millions) | 0.33  (0.22) | 0.15  (0.11) | 0.087\*\*  (0.034) | 0.022  (0.011) | 0.022  (0.011) | 0.023  (0.013) | 0.030  (0.016) | |
| State Dummies | YES | YES | YES | YES | YES | YES | YES | |
| Constant | 2.04\*\*\*  (0.13) | 1.76\*\*\*  (0.08) | 1.77\*\*\*  (0.12) | 1.83\*\*\*  (0.14) | 1.88\*\*\*  (0.14) | 1.92\*\*\*  (0.14) | 1.89\*\*\*  (0.16) | |
| Number of Observations | 2,854 | 6,459 | 10,751 | 14,597 | 18,925 | 23,120 | 26,327 | |
| R2 | 0.15 | 0.16 | 0.24 | 0.27 | 0.26 | 0.22 | 0.21 | |

Note: Shown are OLS coefficients with standard errors clustered by state in parentheses.

\*\*\*p < 0.01; \*\*p < 0.05.

Table A4. The Effect of Distance on the Number of Parties (U.S., Non-South) with a Restricted Sample

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Models | | | | | | |
|  | 1875 | 1900 | 1925 | 1950 | 1975 | 2000 | 2016 | |
| (log of) Distance in km | -0.0073  (0.031) | 0.049\*\*  (0.017) | 0.033  (0.029) | 0.021  (0.031) | 0.014  (0.032) | 0.022  (0.029) | 0.038  (0.023) | |
| State Population (in millions) | -0.11  (0.061) | 0.017  (0.023) | 0.025\*\*\*  (0.008) | -0.0071  (0.0103) | -0.011  (0.007) | -0.0081  (0.0062) | -0.0064  (0.0050) | |
| Valid Votes (in millions) | 0.15  (0.12) | 0.062  (0.034) | 0.050\*\*  (0.018) | 0.011  (0.007) | 0.0079  (0.0073) | 0.0032  (0.012) | 0.0034  (0.014) | |
| State Dummies | YES | YES | YES | YES | YES | YES | YES | |
| Constant | 2.09\*\*\*  (0.21) | 1.71\*\*\*  (0.12) | 1.81\*\*\*  (0.19) | 1.89\*\*\*  (0.20) | 1.91\*\*\*  (0.21) | 1.85\*\*\*  (0.18) | 1.76\*\*\*  (0.15) | |
| Number of Observations | 2,256 | 4,877 | 8,146 | 11,291 | 14,701 | 17,671 | 19,736 | |
| R2 | 0.10 | 0.06 | 0.04 | 0.04 | 0.07 | 0.07 | 0.09 | |

Note: Shown are OLS coefficients with standard errors clustered by state in parentheses.

\*\*\*p < 0.01; \*\*p < 0.05.

Table A5. The Effect of Distance on the Number of Parties (U.S., Non-South)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Models | | | |
|  | G MT-5 | GMT-6 | GMT-7 | GMT-8 |
| Election Year | -0.0021\*\*\*  (0.00047) | -0.0020\*\*\*  (0.00046) | -0.0038\*\*  (0.0011) | -0.0072\*\*  (0.0016) |
| State Population (in millions) | 0.017  (0.0089) | -0.010  (0.0069) | 0.047\*\*\*  (0.0116) | 0.015\*\*  (0.0042) |
| Valid Votes (in millions) | 0.045\*\*\*  (0.014) | 0.025  (0.016) | 0.61  (0.27) | 1.24\*\*\*  (0.10) |
| State Dummies | YES | YES | YES | YES |
| Constant | 6.04\*\*\*  (0.90) | 5.94\*\*\*  (0.84) | 9.23\*\*\*  (2.04) | 15.54\*\*\*  (3.05) |
| Number of Observations | 15,036 | 5,995 | 857 | 2,743 |
| R2- | 0.11 | 0.13 | 0.14 | 0.15 |

Note: Shown are OLS coefficients with standard errors clustered by state in parentheses.

\*\*\*p < 0.01; \*\*p < 0.05.

Table A6. The Effect of Distance on the Number of Parties (State-Level Analysis)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Models | | | | | | | |
|  | 1850 | 1875 | 1900 | 1925 | 1950 | 1975 | 2000 | 2016 |
| Distance in Hundreds of km  from State Capital | 0.0058  (0.0060) | 0.0023  (0.0028) | 0.0051\*\*  (0.0023) | 0.0050\*\*  (0.0024) | 0.0031  (0.0022) | 0.0024  (0.0019) | 0.0023  (0.0017) | 0.0024  (0.0015) |
| State Population (in millions) | 0.011  (0.053) | 0.014  (0.023) | 0.022  (0.010) | 0.0009  (0.016) | -0.010  (0.017) | -0.012  (0.011) | -0.0097  (0.0073) | -0.0076  (0.0057) |
| Valid Votes (in millions) | 0.15  (0.18) | 0.63  (0.40) | 0.97  (0.49) | 1.70\*\*\*  (0.52) | 0.039  (0.034) | 0.040  (0.033) | 0.036  (0.031) | 0.036  (0.031) |
| State Dummies | NO | NO | NO | NO | NO | NO | NO | NO |
| Constant | 1.94\*\*\*  (0.07) | 1.89\*\*\*  (0.04) | 1.87\*\*\*  (0.04) | 1.85\*\*\*  (0.05) | 1.91\*\*\*  (0.05) | 1.90\*\*\*  (0.04) | 1.89\*\*\*  (0.04) | 1.88\*\*\*  (0.04) |
| Number of Observations | 175 | 576 | 1,064 | 1,660 | 2,215 | 2,837 | 3,412 | 3,844 |
| R2 | 0.011 | 0.029 | 0.062 | 0.096 | 0.016 | 0.018 | 0.020 | 0.019 |

Note: Shown are OLS coefficients with standard errors clustered by state in parentheses.

\*\*\*p < 0.01; \*\*p < 0.05.