**Appendix 1A: Descriptive Statistics, County level, UNWEIGHTED**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **All Counties(N=3,100)****Mean Std. Dev.** | **CON Counties(N=1,213)****Mean Std. Dev.** | **Non-CON Counties(N=1,887)****Mean Std. Dev.** |
| **MRI provider** | 2.173 | 7.151 | 1.633 | 4.918 | 2.520 | 8.256 |
| **Population** | 98,714 | 314,458 | 82,569 | 193,829 | 109,092 | 371,568 |
| **MRI providers per million** | 11.6 | 21. | 11.7 | 24.5 | 11.5 | 18.5 |
| **Urban-rural classification: non-metro** | 0.440 | 0.496 | 0.427 | 0.495 | 0.448 | 0.497 |
| **Urban-rural classification: rural** | 0.211 | 0.408 | 0.186 | 0.390 | 0.227 | 0.419 |
| **Density: population per square mile** | 240 | 1,670 | 358 | 2,515 | 164 | 710 |
| **Population below poverty line (%)** | 15.3 | 6.0 | 16.7 | 6.3 | 14.4 | 5.7 |
| **Median household income ($ 2008)** | 43,992 | 11,328 | 42,574 | 11,838 | 44,903 | 10,894 |
| **Population 18-64 years (%)** | 58.8 | 4.5 | 59.7 | 4.3 | 58.1 | 4.6 |
| **Population > 64 (%)** | 15.3 | 4.2 | 14.9 | 3.6 | 15.6 | 4.5 |
| **Population > 25 with college education (%)** | 13.8 | 6.0 | 13.0 | 6.4 | 14.3 | 5.6 |
| **Hospital beds per 100,000 pop** | 355 | 534 | 325 | 488 | 374 | 561 |

SOURCES: Authors’ analysis of data on MRI providers from the American College of Radiology (2012) and Intersocietal Accreditation Commission, on rural and urban status from the Centers for Disease Control and Prevention, National Center for Health Statistics Urban-Rural Classification Scheme (2012), and, for the remaining measures, the US Department of Health and Human Resources, Health Resources Administration, Area Resource File (2010).

**Appendix 1B: Descriptive Statistics, WEIGHTED**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **All Counties** | **CON Counties** | **Non-CON Counties** |
| **Variable** | **Mean** | **Std. Dev.** | **Mean** | **Std. Dev.** | **Mean** | **Std. Dev.** |
| **MRI Providers/County** | 22.59 | 31.52 | 11.62 | 14.88 | 27.93 | 35.82 |
| **Pop. Per County** | 1,100,111 | 1,899,140 | 537,204 | 621,418 | 1,373,983 | 2,223,853 |
| **MRI Providers/million in county** | 22.01 | 14.52 | 19.78 | 15.90 | 23.10 | 13.67 |
| **% Counties Non-Metropolitan** | 0.15 | 0.35 | 0.18 | 0.39 | 0.13 | 0.34 |
| **% Counties Rural** | 0.02 | 0.13 | 0.03 | 0.16 | 0.01 | 0.11 |
| **Population Density** | 2,008 | 6,429 | 3,701 | 10,684 | 1,183 | 1,964 |
| **% Population Poverty 2008** | 13.26 | 5.05 | 13.74 | 5.61 | 13.03 | 4.73 |
| **Median Household Income ($2008)** | 54,289 | 14,148 | 53,603 | 15,987 | 54,622 | 13,151 |
| **% population 18-64 years** | 0.60 | 0.04 | 0.61 | 0.04 | 0.60 | 0.03 |
| **% population > 64** | 0.13 | 0.03 | 0.13 | 0.03 | 0.12 | 0.04 |
| **College Education** | 0.20 | 0.08 | 0.20 | 0.09 | 0.19 | 0.07 |
| **Hospital Beds Per County** | 315 | 248 | 349 | 310 | 299 | 210 |
| **N counties** | 3,100 | 1,213 | 1,887 |

SOURCES: Authors’ analysis of data on MRI providers from the American College of Radiology (2012) and Intersocietal Accreditation Commission, on rural and urban status from the Centers for Disease Control and Prevention, National Center for Health Statistics Urban-Rural Classification Scheme (2012), and, for the remaining measures, the US Department of Health and Human Resources, Health Resources Administration, Area Resource File (2010).

**Appendix 2A: MRI Providers in Unregulated v. Regulated County by Location, UNWEIGHTED**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Non-CON** | **CON** |
| **All counties** | # Counties | 1,887 | 1,2130 |
| Avg # of MRI Providers | 2.5 | 1.6 |
| MRI Providers per million people | 11.4 | 11.7 |
| % with any MRI | 0.368 | 0.367 |
| **Interior Counties** | # Counties | 1,201 | 761 |
| Avg # of MRI Providers | 2.8 | 1.5 |
| MRI Providers per million people | 11.3 | 12.3 |
| % with any MRI | 0.371 | 0.352 |
| **Borders with Same CON Laws on Both Sides** | # Counties | 501 | 243 |
| Avg # of MRI Providers | 1.9 | 1.7 |
| MRI Providers per million people | 10.4 | 11.5 |
| % with any MRI | 0.315 | 0.424 |
| **Borders with Different CON Laws on Each Side** | # Counties | 185 | 209 |
|  | Avg # of MRI Providers | 2.2 | 1.9 |
| MRI Providers per million people | 15.3 | 10 |
| % with any MRI | 0.486 | 0.354 |

**Appendix 2B: MRI Providers in Unregulated v. Regulated County by Location, WEIGHTED**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Non-CON** | **CON** |
| **All counties** | # Counties | 1,887 | 1,213 |
| Avg # of MRI Providers | 27.6 | 11.6 |
| MRI Providers per million people | 23.1 | 19.8 |
| % with any MRI | 0.895 | 0.818 |
| **Interior Counties** | # Counties | 1,201 | 209 |
| Avg # of MRI Providers | 31.1 | 11.9 |
| MRI Providers per million people | 23.2 | 19.8 |
| % with any MRI | .902 | .803 |
| **Borders with Same CON Laws on Both Sides** | # Counties | 501 | 243 |
| Avg # of MRI Providers | 23.9 | 8.5 |
| MRI Providers per million people | 22.1 | 19.1 |
| % with any MRI | .878 | .847 |
| **Borders with Different CON Laws on Each Side** | # Counties | 185 | 209 |
| Avg # of MRI Providers | 10.6 | 8.5 |
| MRI Providers per million people | 25.02 | 20.5 |
| % with any MRI | .879 | .832 |

**Appendix 3A: MRI Providers in Regulated v. Unregulated Border Counties: River v. Non-River Borders, UNWEIGHTED**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **State borders not separatedby river** | **State border separated by****river** |
| **Home County** |  | Non-CON | CON | Non-CON | CON |
| **Same CON Regime in Both States** | Number MRIs | 2.0 | 1.8 | 1.5 | 0.0 |
| MRI/million (mean) | 10.6 | 11.7 | 9.6 | 0 |
| P(any MRI) | 0.321 | 0.433 | 0.286 | 0 |
| N (counties) | 424 | 238 | 77 | 5 |
| **Different CON Regime in Both States** | Number MRIs | 2.2 | 1.0 | 2.2 | 3.2 |
| MRI/million (mean) | 18.4 | 8.3 | 10.8 | 12.4 |
| P(any MRI) | 0.541 | 0.309 | 0.405 | 0.419 |
| N (counties) | 111 | 123 | 74 | 86 |

**Appendix 3B: MRI Providers in Regulated v. Unregulated Border Counties: River v. Non-River Borders, WEIGHTED**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **State borders notseparated by river** | **State border separatedby river** |
| **Home County** |  | Non-CON | CON | Non-CON | CON |
| **Same CON Regime in Both States** | MRI/million (mean) | 22.7 | 19.1 | 18.8 | 0 |
|  | P(any MRI) | 0.882 | 0.848 | 0.853 | 0 |
| N (counties) | 424 | 238 | 77 | 5 |
| **Different CON Regime in Both States** | MRI/million (mean) | 25.4 | 14.8 | 24.9 | 24.6 |
| P(any MRI) | 0.883 | 0.723 | 0.874 | 0.911 |
| N (counties) | 111 | 123 | 74 | 86 |

**Appendix 4A: Number of MRI Providers and Any MRI Provider in Regulated and Unregulated County, UNWEIGHTED**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **(1)****MRI\_Pop** | **(2)****MRI\_Pop** | **(3)****MRI\_Pop** | **(4)****MRI\_Pop** | **(5)****Any MRI** | **(6)****Any MRI** | **(7)****Any MRI** | **(8)****Any MRI** | **(9)****Any MRI** | **(10)****Any MRI** |
| **bdry\_diff\_neigh** | 4.915 | 3.683 | -1.516 | -2.711 | 0.110 | 0.470 | 0.072 | -0.092 | -0.256 | -0.049 |
|  | 1.728 | 1.638 | 1.545 | 1.457 | 0.037 | 0.159 | 0.024 | 0.037 | 0.156 | 0.030 |
| **interior** | 0.852 | -0.511 | 0.793 | -0.192 | 0.000 | -0.054 | -0.008 | -0.089 | -0.185 | -0.035 |
|  | 0.983 | 0.909 | 1.493 | 1.280 | 0.020 | 0.108 | 0.016 | 0.029 | 0.131 | 0.025 |
| **pop\_home** |  | 0.000 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  | 0.000 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **npop2** |  | 0.000 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  | 0.000 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **nonmetro** |  | -3.549 |  | 1.377 | -0.199 | 0.876 | 0.133 | 0.003 | 0.576 | 0.110 |
|  |  | 1.160 |  | 1.719 | 0.030 | 0.142 | 0.020 | 0.033 | 0.135 | 0.025 |
| **rural** |  | -13.933 |  | -5.233 | -0.478 | 0.036 | 0.006 | -0.192 | -0.171 | -0.033 |
|  |  | 1.426 |  | 2.494 | 0.030 | 0.245 | 0.037 | 0.036 | 0.221 | 0.042 |
| **popdens** |  | 0.000 |  | 0.000 | 0.000 | 0.007 | 0.001 | 0.000 | 0.000 | 0.000 |
|  |  | 0.001 |  | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 |
| **perc\_poverty08** |  | -0.157 |  | -0.317 | 0.000 | -0.028 | -0.004 | -0.012 | -0.024 | -0.005 |
|  |  | 0.101 |  | 0.235 | 0.002 | 0.016 | 0.002 | 0.003 | 0.017 | 0.003 |
| **med\_hhincome** |  | 0.000 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  | 0.000 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **page18\_64** |  | 10.046 |  | 34.841 | 0.201 | 0.941 | 0.143 | 0.532 | 2.048 | 0.391 |
|  |  | 8.112 |  | 25.891 | 0.194 | 0.982 | 0.149 | 0.287 | 1.288 | 0.247 |
| **page65** |  | 7.405 |  | -84.085 | -0.439 | -0.856 | -0.130 | -2.999 | -4.669 | -0.892 |
|  |  | 13.162 |  | 29.220 | 0.266 | 1.490 | 0.228 | 0.398 | 1.973 | 0.380 |
| **ed\_col25** |  | 61.210 |  | 81.869 | 1.376 | 4.192 | 0.638 | 2.599 | 4.535 | 0.866 |
|  |  | 9.281 |  | 19.963 | 0.208 | 1.046 | 0.158 | 0.284 | 1.324 | 0.257 |
| **hospbeds** |  | 0.000 |  | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  | 0.001 |  | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  | 10.425 | 1.071 | 11.470 | 12.549 | 0.148 | -2.964 |  | 0.782 | -1.482 |  |
|  | 0.835 | 7.350 | 1.088 | 14.741 | 0.170 | 1.050 |  | 0.270 | 1.183 |  |
| **Included counties** | no con | no con | CON | CON | NO CON | No CON | No Con | CON | CON | CON |
| **Model** | OLS | OLS | OLS | OLS | OLS | Probit | Probit Margin | OLS | Probit | Probit Margin |
| **N (counties)** | 1,887 | 1,887 | 1,213 | 1,213 | 1,213 | 1,887 | 1,887 | 1,213 | 1,213 | 1,213 |

**Appendix 4B: Number of MRI Providers and Any MRI Provider in Border Counties, Population Weighted**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **(1)****MRI\_Pop** | **(2)****MRI\_Pop** | **(3)****MRI\_Pop** | **(4)****MRI\_Pop** | **(5)****any MRI** | **(6)****any MRI** | **(7)****any MRI** | **(8)****any MRI** |
| **bdry\_diff** | 3.051 | 0.203 | 1.409 | -0.972 | 0.001 | -0.005 | -0.014 | -0.051 |
|  | 1.775 | 1.373 | 2.559 | 2.472 | 0.031 | 0.021 | 0.042 | 0.033 |
| **interior** | 1.039 | -0.594 | 0.742 | 1.144 | 0.024 | -0.021 | -0.044 | -0.070 |
|  | 1.528 | 1.080 | 1.856 | 1.906 | 0.025 | 0.015 | 0.033 | 0.027 |
| **pop\_home** |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
|  |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
| **npop2** |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
|  |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
| **nonmetro** |  | -10.199 |  | -2.248 |  | -0.350 |  | -0.152 |
|  |  | 1.358 |  | 1.725 |  | 0.024 |  | 0.038 |
| **rural** |  | -28.744 |  | -13.156 |  | -0.858 |  | -0.489 |
|  |  | 1.774 |  | 2.261 |  | 0.022 |  | 0.045 |
| **popdens** |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
|  |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
| **perc\_poverty08** |  | -0.736 |  | -0.035 |  | -0.002 |  | -0.015 |
|  |  | 0.193 |  | 0.283 |  | 0.003 |  | 0.004 |
| **med\_hhincome** |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
|  |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
| **page18\_64** |  | -7.881 |  | -24.054 |  | -0.087 |  | -0.171 |
|  |  | 20.311 |  | 22.033 |  | 0.235 |  | 0.300 |
| **page65** |  | 73.644 |  | 18.707 |  | -0.069 |  | -2.822 |
|  |  | 20.641 |  | 28.694 |  | 0.190 |  | 0.447 |
| **ed\_col25** |  | 57.787 |  | 43.789 |  | 0.760 |  | 1.346 |
|  |  | 12.028 |  | 15.689 |  | 0.133 |  | 0.207 |
| **hospbeds** |  | 0.006 |  | 0.011 |  | 0.000 |  | 0.000 |
|  |  | 0.002 |  | 0.004 |  | 0.000 |  | 0.000 |
|  | 22.119 | 38.677 | 19.074 | 19.621 | 0.878 | 0.937 | 0.847 | 1.559 |
|  | 1.128 | 15.928 | 1.430 | 16.948 | 39.540 | 0.185 | 0.025 | 0.235 |
| **Included counties** | No CON | No CON | CON | CON | NO CON | No CON | CON | CON |
| **N counties** | 1,887 | 1,887 | 1,213 | 1,213 | 1,887 | 1,887 | 1,213 | 1,213 |

NOTES: All regressions are ordinary least squares and are weighted by population. Robust standard errors.

**Appendix 5A: Number of MRI Providers/ Million and Any MRI Providers in a County, River v. Non-River Borders, UNWEIGHTED**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **(1)****MRI Pop** | **(2)****MRI pop** | **(3)****MRI Pop** | **(4)****MRI Pop** | **(5)****Any MRI** | **(6)****Any MRI** | **(7)****Any MRI** | **(8)****Any MRI** | **(9)****Any MRI** | **(10)****Any MRI** |
| **nrbdry\_diff** | 7.802 | 6.737 | -3.441 | -4.390 | 0.1675 | 0.665 | 0.101 | -0.127 | -0.448 | -0.085 |
|  | 2.369 | 2.246 | 1.720 | 0.620 | 0.0469 | 0.189 | 0.029 | 0.044 | 0.182 | 0.035 |
| **rbdry\_diff** | 0.204 | -1.447 | 0.650 | -0.439 | 0.0052 | 0.091 | 0.014 | -0.046 | 0.018 | 0.003 |
|  | 1.986 | 1.765 | 2.164 | 1.980 | 0.0510 | 0.228 | 0.034 | 0.050 | 0.196 | 0.037 |
| **rbdry\_same** | -0.993 | -1.139 | -11.711 | -3.858 | -0.0450 | -0.075 | -0.011 | -0.133 | 0.000 | 0.000 |
|  | 2.230 | 2.102 | 1.106 | 4.710 | 0.0459 | 0.223 | 0.034 | 0.080 | (omitted) | (omitted) |
| **interior** | 0.700 | -0.688 | 0.553 | -0.265 | -0.0066 | -0.068 | -0.010 | -0.092 | -0.190 | -0.036 |
|  | 1.052 | 0.964 | 1.507 | 1.303 | 0.0212 | 0.116 | 0.018 | 0.030 | 0.132 | 0.025 |
| **pop\_home** |  | 0.000 |  | 0.000 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  | 0.000 |  | 0.000 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **npop2** |  | 0.000 |  | 0.000 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  | 0.000 |  | 0.000 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **nonmetro** |  | -3.517 |  | 1.476 | -0.1986 | 0.864 | 0.131 | 0.005 | 0.593 | 0.113 |
|  |  | 1.161 |  | 1.720 | 0.0296 | 0.141 | 0.020 | 0.033 | 0.135 | 0.025 |
| **rural** |  | -13.857 |  | -5.188 | -0.4767 | 0.010 | 0.001 | -0.191 | -0.161 | -0.031 |
|  |  | 1.426 |  | 2.491 | 0.0296 | 0.244 | 0.037 | 0.036 | 0.221 | 0.042 |
| **popdens** |  | 0.000 |  | 0.000 | 0.0000 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 |
|  |  | 0.001 |  | 0.000 | 0.0000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 |
| **perc\_poverty08** |  | -0.149 |  | -0.310 | -0.0001 | -0.027 | -0.004 | -0.012 | -0.023 | -0.004 |
|  |  | 0.102 |  | 0.237 | 0.0025 | 0.016 | 0.002 | 0.003 | 0.017 | 0.003 |
| **med\_hhincome** |  | 0.000 |  | 0.000 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  | 0.000 |  | 0.000 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **page18\_64** |  | 11.491 |  | 33.396 | 0.2292 | 1.076 | 0.163 | 0.497 | 1.886 | 0.360 |
|  |  | 8.135 |  | 26.138 | 0.1948 | 0.983 | 0.148 | 0.288 | 1.299 | 0.249 |
| **page65** |  | 7.736 |  | -84.122 | -0.4323 | -0.844 | -0.128 | -2.996 | -4.646 | -0.887 |
|  |  | 13.125 |  | 29.303 | 0.2650 | 1.497 | 0.227 | 0.397 | 1.980 | 0.381 |
| **ed\_col25** |  | 59.950 |  | 82.709 | 1.3495 | 4.171 | 0.632 | 2.614 | 4.567 | 0.872 |
|  |  | 9.292 |  | 19.943 | 0.2093 | 1.053 | 0.159 | 0.284 | 1.333 | 0.259 |
| **hospbeds** |  | 0.000 |  | 0.011 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  | 0.001 |  | 0.009 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  | 10.578 | -0.042 | 11.711 | 13.353 | 0.1284 | -3.087 |  | 0.800 | -1.395 |  |
|  |  | 7.390 | 1.106 | 14.740 | 0.1709 | 1.056 |  | 0.269 | 1.190 |  |
| **Included counties** | No CON | No CON | CON | CON | No CON | No CON | No CON | CON | CON | CON |
| **Model** | OLS | OLS | OLS | OLS | OLS | Probit | Probit Margin | OLS | Probit | Probit Margin |
| **N (counties)** | 1,887 | 1,887 | 1,213 | 1,213 | 1,887 | 1,887 | 1,887 | 1,213 | 1,208 | 1,208 |

**Appendix 5B: Number of MRI Providers/ Million and Any MRI Providers in a County, River v. Non-River Borders, WEIGHTED**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **(1)****MRI\_pop** | **(2)****MRI\_pop** | **(3)****MRI\_pop** | **(4)****MRI\_pop** | **(5)****Any MRI** | **(6)****Any MRI** | **(7)****Any MRI** | **(8)****Any MRI** |
| **nrbdry\_diff** | 2.702 | -0.162 | **-4.345** | -5.465 | 0.001 | 0.007 | **-0.125** | **-0.101** |
|  | 1.982 | 1.711 | 2.068 | 2.647 | 0.036 | 0.027 | 0.066 | 0.043 |
| **rbdry\_diff** | 2.202 | -0.714 | 5.488 | 2.980 | -0.008 | -0.025 | 0.062 | -0.008 |
|  | 2.863 | 1.931 | 3.234 | 2.838 | 0.044 | 0.028 | 0.037 | 0.036 |
| **rbdry\_same** | -3.858 | -4.110 | -19.111 | -8.795 | -0.029 | -0.005 | -0.848 | -0.266 |
|  | 2.298 | 2.134 | 1.434 | 3.843 | 0.062 | 0.043 | 0.025 | 0.108 |
| **interior** | 0.486 | -1.181 | 0.704 | 1.236 | 0.020 | -0.022 | -0.046 | -0.069 |
|  | 1.633 | 1.144 | 1.859 | 1.905 | 0.026 | 0.016 | 0.033 | 0.027 |
| **pop\_home** |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
|  |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
| **npop2** |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
|  |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
| **nonmetro** |  | -10.229 |  | -1.681 |  | -0.350 |  | -0.146 |
|  |  | 1.359 |  | 1.712 |  | 0.024 |  | 0.038 |
| **rural** |  | -28.704 |  | -12.719 |  | -0.859 |  | -0.483 |
|  |  | 1.772 |  | 2.260 |  | 0.022 |  | 0.045 |
| **popdens** |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
|  |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
| **perc\_poverty08** |  | -0.754 |  | -0.004 |  | -0.002 |  | -0.015 |
|  |  | 0.194 |  | 0.258 |  | 0.003 |  | 0.004 |
| **med\_hhincome** |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
|  |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.000 |
| **page18\_64** |  | -7.873 |  | -24.760 |  | -0.077 |  | -0.182 |
|  |  | 20.369 |  | 21.931 |  | 0.235 |  | 0.292 |
| **page65** |  | 72.314 |  | 16.762 |  | -0.068 |  | -2.842 |
|  |  | 20.798 |  | 28.324 |  | 0.193 |  | 0.447 |
| **ed\_col25** |  | 57.539 |  | 44.859 |  | 0.753 |  | 1.358 |
|  |  | 11.978 |  | 14.783 |  | 0.134 |  | 0.209 |
| **hospbeds** |  | 0.006 |  | 0.011 |  | 0.000 |  | 0.000 |
|  |  | 0.002 |  | 0.004 |  | 0.000 |  | 0.000 |
|  | 22.671 | 39.975 | 19.111 | 19.139 | 0.882 | 0.933 | 0.848 | 1.554 |
|  | 1.266 | 15.966 | 1.434 | 16.272 | 0.024 | 0.186 | 0.025 | 0.230 |
| **Included counties** | No CON | No CON | CON | CON | No CON | No CON | CON | CON |
| **N counties** | 1,887 | 1,887 | 1,213 | 1,213 | 1,877 | 1,877 | 1,213 | 1,213 |

NOTES: All regressions are ordinary least squares and are weighted by population. Robust standard error.