**Table A1: Regression of Variables on Millions of Gallons of Total Water Use Per Day at the County Level, 2010**

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| --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |
| **Variables** | **Model 1** | **Model 2** | **Model 3** | **Model 4** | **Model 5** |
| Net Electricity Generation (kWh) Per Day | 0.000016\*\*\* | 0.000015\*\*\* | 0.000015\*\*\* | 0.000014\*\*\* | 0.000013\*\*\* |
| (0.000001) | (0.000001) | (0.000001) | (0.000001) | (0.000001) |
| Agricultural GDP (millions of $), Annual |  | 1.017041\*\*\* | 0.951703\*\*\* | 0.942286\*\*\* | 0.856982\*\*\* |
|  | (0.071829) | (0.072534) | (0.071262) | (0.071887) |
| Total Annual Precipitation (inches) |  |  | -1.918588\*\* | -2.452811\*\*\* | -2.426300\*\*\* |
|  |  | (0.830752) | (0.81865) | (0.811171) |
| Annual Mean Temperature (degrees Fahrenheit) |  |  | 10.388496\*\*\* | 7.507829\*\*\* | 6.821442\*\*\* |
|  |  | (2.130947) | (2.122367) | (2.112645) |
| Share of Developed Land |  |  |  | 475.502282\*\*\* | 321.265671\*\*\* |
|  |  |  | (57.794167) | (77.640367) |
| Population |  |  |  |  | 0.000124\*\*\* |
|  |  |  |  | (0.000021) |
| Population Density |  |  |  |  | -0.013523\*\* |
|  |  |  |  | (0.0056) |
| Constant | 20.682168 | 1.705649 | -553.202806\*\*\* | -369.702464\*\*\* | -323.197847\*\* |
| (42.97745) | (40.981563) | (142.088772) | (141.348386) | (140.636186) |
| Observations | 1,901 | 1,882 | 1,882 | 1,882 | 1,882 |
| R-squared | 0.387194 | 0.447677 | 0.456198 | 0.475535 | 0.486369 |
| Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1 | | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variables** | **Model 1** | **Model 2** | **Model 3** | **Model 4** |
| Population | 0.000099\*\*\* | 0.000098\*\*\* | 0.000099\*\*\* | 0.000099\*\*\* |
|  | (0.000001) | (0.000001) | (0.000001) | (0.000001) |
| Population Density | -0.001083\*\*\* | -0.001026\*\*\* | -0.000855\*\*\* | -0.000957\*\*\* |
|  | (0.000176) | (0.000173) | (0.000206) | (0.000213) |
| Average Household Size | 12.114177\*\*\* | 6.707883\*\* | 3.048609 |  |
|  | (2.643193) | (2.786934) | (3.034604) |  |
| Total Annual Precipitation |  | -0.259180\*\*\* | -0.280084\*\*\* | -0.250103\*\*\* |
|  |  | (0.051682) | (0.052671) | (0.051806) |
| Annual Mean Temperature |  | 0.236855\*\*\* | 0.257492\*\*\* | 0.303404\*\*\* |
|  |  | (0.07954) | (0.082355) | (0.088869) |
| Share of Multifamily Housing |  |  | -19.226163\*\*\* | -18.489667\*\* |
|  |  |  | (6.852551) | (7.342035) |
| Median Value of Housing |  |  | 0.000013\* | 0.000035\*\*\* |
|  |  |  | (0.000007) | (0.000009) |
| Median Age of Population |  |  |  | -0.483011\*\*\* |
|  |  |  |  | (0.155831) |
| Share of Population over Age 25 with a Bachelor's Degree or Higher |  |  |  | -24.743776\*\*\* |
|  |  |  |  | (8.119377) |
| Minority Share of Population |  |  |  | -8.405533\* |
|  |  |  |  | (4.983765) |
| Constant | -33.210883\*\*\* | -23.011045\*\*\* | -12.888269 | 13.658527\* |
|  | (6.716076) | (7.995419) | (8.748121) | (7.857838) |
| Observations | 768 | 768 | 768 | 768 |
| R-squared | 0.92994 | 0.932512 | 0.933336 | 0.934573 |
| Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1 |  |  |  |  |

**Table A2: Regression of Variables on Millions of Gallons of Residential Water Use Per Day at the County Level, 2010**