Results - USDA Inspected Poultry Establishments, 2007 - 2010

|  |  |  |
| --- | --- | --- |
| Spatial Probit Model | Existing USDA Poultry Plants 2007 | New USDA Poultry Plants 2008-2010 |
|   | Estimate | z-value | Pr(>|z|) | Estimate | z-value | Pr(>|z|) |
| WXB (p) | 0.10274 | 0.93828 |   | 0.41540 | 1.71749 | . |
| Intercept | -1.31952 | -3.20044 |   | -1.46292 | -1.22265 |   |
| **Agglomeration** |   |   |   |   |   |   |
| Large firms | 1.83972 | 10.12139 | \*\*\* | 1.29050 | 5.88613 | \*\*\* |
| Mid size firms | 1.52146 | 13.63725 | \*\*\* | 1.14567 | 8.59162 | \*\*\* |
| Small firms | 0.75620 | 5.34375 | \*\*\* | 0.58961 | 3.05086 | \*\*\* |
| **Consumer Market** |   |   |   |   |   |   |
| % Households >$75K | 0.01898 | 1.00731 |   | 0.01532 | 0.41665 |   |
| Population Density | -0.00002 | -0.37192 |   | 0.00000 | 0.10388 |   |
| **Labor Market** |   |   |   |   |   |   |
| Weekly Wages | -0.00065 | -2.86530 | \*\*\* | -0.00057 | -1.25108 |   |
| % High School or Less | -0.00874 | -1.36578 |   | 0.00275 | 0.24087 |   |
| **Input Market** |   |   |   |   |   |   |
| Poultry Farms | -0.00114 | -1.19688 |   | 0.00201 | 1.51431 |   |
| Meat Chicken Farms | 0.00662 | 2.09611 | \*\*\* | -0.00473 | -2.62858 | \*\*\* |
| **Output Market** |   |   |   |   |   |   |
| Poultry Processing | -0.07133 | -0.51550 | \*\* | -0.40437 | -2.80405 | \*\*\* |
| **Infrastructure** |   |   |   |   |   |   |
| Rendering | -0.21297 | -1.54803 |   | 0.16805 | 1.04230 |   |
| USDA Cold Storage | -0.00976 | -0.15271 |   | 0.00814 | 0.09443 |   |
| Poultry Wholesalers  | 0.09253 | 1.77359 | . | 0.04410 | 0.43136 |   |
| Import Facilities | -0.20574 | -1.22604 |   | -0.02833 | -0.06324 |   |
| **Government** |   |   |   |   |   |   |
| States Inspected | -0.07254 | -0.79395 |   | 0.13212 | 0.99632 |   |
| Talmadge Inspected | 0.25731 | 2.27278 | \* | -0.14687 | -0.74465 | \* |
| Interstate Highway | 0.17482 | 2.16716 | \* | 0.04965 | 0.37722 |   |
| **Region** |  |  |   |   |  |   |
| North East | 0.04036 | 0.22861 |   | 0.32945 | 1.62405 | . |
| Southern | -0.14936 | -1.37949 |   | 0.12282 | 0.65699 |   |
| Western | -0.21643 | -1.59688 |   | 0.09730 | 0.15790 |   |
| observations 3,066 |  AIC 696.88 / 8 iterations |  AIC 388.68 / 9 iterations |
|   | Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1   |