APPENDIX A

**Table A1** Estimated coefficients of QUAIDS model for urban residents

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | Grain | Vegetable | Livestock | Poultry | Aquatic product | Egg | Fruit | Dairy product | Edible oil |
| Constant | 0.239 | 1.181\*\*\* | -2.448\*\*\* | 2.466\*\*\* | 0.770 | -0.067 | -3.402\*\*\* | 1.595\*\*\* | 0.668\*\* |
|  | (0.363) | (0.394) | (0.664) | (0.489) | (0.691) | (0.179) | (0.493) | (0.342) | (0.264) |
| Aging rate | -0.537\*\*\* | 0.066 | -0.567\*\*\* | 0.128\*\* | 0.448\*\*\* | 0.049\*\*\* | 0.380\*\*\* | 0.036 | -0.004 |
|  | (0.053) | (0.052) | (0.105) | (0.058) | (0.084) | (0.018) | (0.073) | (0.062) | (0.039) |
| Sex ratio | -0.026 | -0.025 | 0.026 | 0.071\*\*\* | 0.079\*\*\* | 0.004 | -0.020 | -0.106\*\*\* | -0.003 |
|  | (0.019) | (0.017) | (0.032) | (0.022) | (0.025) | (0.007) | (0.026) | (0.020) | (0.010) |
| ln(p\_Grain) | 0.071\*\*\* |  |  |  |  |  |  |  |  |
|  | (0.005) |  |  |  |  |  |  |  |  |
| ln(p\_Vegetable) | -0.007\*\*\* | 0.061\*\*\* |  |  |  |  |  |  |  |
|  | (0.003) | (0.006) |  |  |  |  |  |  |  |
| ln(p\_Livestocck) | -0.004 | -0.011\*\*\* | 0.106\*\*\* |  |  |  |  |  |  |
|  | (0.003) | (0.004) | (0.008) |  |  |  |  |  |  |
| ln(p\_Poultry) | -0.008\*\*\* | -0.014\*\*\* | 0.004 | 0.034\*\*\* |  |  |  |  |  |
|  | (0.002) | (0.003) | (0.004) | (0.004) |  |  |  |  |  |
| ln(p\_Aquatic product) | -0.014\*\*\* | -0.019\*\*\* | -0.051\*\*\* | -0.007\*\* | 0.111\*\*\* |  |  |  |  |
|  | (0.003) | (0.004) | (0.006) | (0.003) | (0.008) |  |  |  |  |
| ln(p\_Egg) | -0.005\*\*\* | -0.003 | 0.002 | 0.003\*\* | 0.002 | 0.010\*\*\* |  |  |  |
|  | (0.002) | (0.002) | (0.002) | (0.002) | (0.002) | (0.002) |  |  |  |
| ln(p\_Fruit) | -0.012\*\*\* | -0.026\*\*\* | -0.022\*\*\* | -0.014\*\*\* | 0.013\*\*\* | -0.014\*\*\* | 0.056\*\*\* |  |  |
|  | (0.003) | (0.004) | (0.004) | (0.003) | (0.004) | (0.002) | (0.007) |  |  |
| ln(p\_Dairy product) | -0.010\*\*\* | 0.011\*\*\* | -0.009\*\*\* | 0.003 | -0.007\*\* | -0.004\*\*\* | 0.015\*\*\* | 0.004 |  |
|  | (0.002) | (0.003) | (0.003) | (0.002) | (0.003) | (0.001) | (0.002) | (0.003) |  |
| ln(p\_Edible oil) | -0.010\*\*\* | 0.007\*\* | -0.015\*\*\* | -0.002 | -0.028\*\*\* | 0.009\*\*\* | 0.005\* | -0.004\*\* | 0.038\*\*\* |
|  | (0.002) | (0.003) | (0.002) | (0.002) | (0.003) | (0.001) | (0.003) | (0.002) | (0.003) |
| lnx | -0.059\* | -0.067\*\* | 0.069 | 0.034 | 0.197\*\*\* | -0.051\*\*\* | -0.084\* | -0.046 | 0.008 |
|  | (0.035) | (0.027) | (0.055) | (0.027) | (0.048) | (0.010) | (0.049) | (0.034) | (0.048) |
| lnx2 | -0.032 | -0.004 | -0.018 | -0.021 | 0.194\*\*\* | -0.055\*\*\* | -0.042 | -0.046 | 0.024 |
|  | (0.041) | (0.031) | (0.059) | (0.032) | (0.055) | (0.012) | (0.052) | (0.038) | (0.051) |
| R2 | 0.696 | 0.528 | 0.647 | 0.792 | 0.827 | 0.647 | 0.703 | 0.462 | 0.542 |

Note: Standard errors are given in parentheses; \* p<0.1, \*\* p<0.05, \*\*\* p<0.01

APPENDIX B

**Table B1** Estimated coefficients of QUAIDS model for rural residents

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | Grain | Vegetable | Prok | Beef | Mutton | Poultry | Aquatic product | Egg | Fruit | Dairy product | Edible oil |
| Constant | 19.990\*\*\* | 5.190\*\*\* | -5.403\*\*\* | -3.326\*\*\* | -5.881\*\*\* | -3.793\*\*\* | -2.835\*\*\* | 1.206\*\*\* | -4.729\*\*\* | -1.219\*\*\* | 1.800\*\*\* |
|  | (1.954) | (0.919) | (0.906) | (0.766) | (1.328) | (0.343) | (0.765) | (0.405) | (0.934) | (0.204) | (0.504) |
| Aging rate | 0.038 | 0.049 | -0.146\*\* | -0.046 | 0.088 | 0.024 | -0.063\* | -0.009 | 0.103\*\* | -0.008 | -0.030 |
|  | (0.105) | (0.056) | (0.074) | (0.047) | (0.111) | (0.022) | (0.035) | (0.017) | (0.041) | (0.008) | (0.031) |
| Sex ratio | 0.121\* | 0.103\*\*\* | -0.091\*\* | -0.034 | -0.105 | -0.017 | -0.074\*\*\* | 0.015 | 0.088\*\*\* | 0.001 | -0.008 |
|  | (0.070) | (0.028) | (0.039) | (0.021) | (0.067) | (0.012) | (0.022) | (0.009) | (0.027) | (0.006) | (0.016) |
| ln(p\_Grain) | 0.146\*\*\* |  |  |  |  |  |  |  |  |  |  |
|  | (0.016) |  |  |  |  |  |  |  |  |  |  |
| ln(p\_Vegetable) | -0.086\*\*\* | 0.117\*\*\* |  |  |  |  |  |  |  |  |  |
|  | (0.011) | (0.015) |  |  |  |  |  |  |  |  |  |
| ln(p\_Pork) | -0.004 | 0.002 | 0.063\*\*\* |  |  |  |  |  |  |  |  |
|  | (0.010) | (0.008) | (0.010) |  |  |  |  |  |  |  |  |
| ln(p\_Beef) | -0.003 | 0.019\*\* | -0.007 | 0.002 |  |  |  |  |  |  |  |
|  | (0.006) | (0.009) | (0.004) | (0.009) |  |  |  |  |  |  |  |
| ln(p\_Mutton) | -0.058\*\*\* | -0.005 | -0.047\*\*\* | -0.018\*\*\* | 0.061\*\*\* |  |  |  |  |  |  |
|  | (0.010) | (0.008) | (0.008) | (0.006) | (0.013) |  |  |  |  |  |  |
| ln(p\_Poultry) | -0.014\*\*\* | -0.001 | 0.003 | 0.014\*\*\* | 0.000 | 0.047\*\*\* |  |  |  |  |  |
|  | (0.005) | (0.004) | (0.003) | (0.003) | (0.004) | (0.003) |  |  |  |  |  |
| ln(p\_Aquatic product) | 0.008 | 0.013\* | 0.005 | -0.015\*\*\* | 0.012\*\* | -0.000 | 0.031\*\*\* |  |  |  |  |
|  | (0.008) | (0.007) | (0.005) | (0.006) | (0.006) | (0.004) | (0.009) |  |  |  |  |
| ln(p\_Egg) | 0.003 | 0.003 | 0.010\*\*\* | -0.004 | 0.009\*\*\* | -0.008\*\*\* | -0.001 | -0.001 |  |  |  |
|  | (0.004) | (0.004) | (0.002) | (0.004) | (0.003) | (0.002) | (0.003) | (0.003) |  |  |  |
| ln(p\_Fruit) | -0.012 | -0.054\*\*\* | -0.017\*\*\* | 0.011\* | 0.032\*\*\* | -0.016\*\*\* | -0.001 | -0.016\*\*\* | 0.072\*\*\* |  |  |
|  | (0.010) | (0.009) | (0.006) | (0.006) | (0.007) | (0.004) | (0.006) | (0.003) | (0.010) |  |  |
| ln(p\_Dairy product) | -0.004 | 0.006\*\* | -0.005\*\*\* | -0.002 | -0.002 | -0.003\*\* | 0.004\* | 0.005\*\*\* | 0.000 | 0.003\* |  |
|  | (0.003) | (0.003) | (0.001) | (0.002) | (0.002) | (0.001) | (0.002) | (0.002) | (0.002) | (0.002) |  |
| ln(p\_Edible oil) | 0.023\*\*\* | -0.013\*\* | -0.004 | 0.003 | 0.016\*\*\* | -0.021\*\*\* | -0.055\*\*\* | 0.001 | 0.002 | -0.002 | 0.051\*\*\* |
|  | (0.008) | (0.006) | (0.004) | (0.004) | (0.005) | (0.003) | (0.005) | (0.003) | (0.006) | (0.002) | (0.005) |
| lnx | -0.200\*\*\* | 0.102\*\*\* | 0.039 | -0.012 | 0.017 | 0.001 | 0.028\*\*\* | -0.007 | 0.028\* | -0.009\*\*\* | 0.014 |
|  | (0.017) | (0.025) | (0.026) | (0.012) | (0.024) | (0.005) | (0.010) | (0.005) | (0.015) | (0.003) | (0.011) |
| lnx2 | -0.036 | 0.140\*\*\* | 0.091\*\*\* | -0.042\*\* | -0.137\*\*\* | -0.028\*\*\* | -0.007 | 0.013\*\* | -0.029 | -0.010\*\*\* | 0.046\*\*\* |
|  | (0.025) | (0.025) | (0.031) | (0.020) | (0.024) | (0.008) | (0.013) | (0.006) | (0.024) | (0.004) | (0.014) |
| R2 | 0.760 | 0.584 | 0.733 | 0.482 | 0.483 | 0.886 | 0.699 | 0.606 | 0.676 | 0.505 | 0.449 |

Note: Standard errors are given in parentheses; \* p<0.1, \*\* p<0.05, \*\*\* p<0.01