**Supplementary Material**

|  |
| --- |
| **Table S1. Control function estimates (linear probability model): factors associated with SNAP participation (N=2,513)a** |
| **Variable** | **Coefficient** | **95% CI** |
| Instrumental Variables |  |  |
| BBCE | 0.08\* | (-0.02, 0.17) |
| CAP | 0.04 | (-0.06, 0.15) |
| FACEINI | 0.04 | (-0.31, 0.39) |
| NONCITADULT | 0.08 | (-0.08, 0.25) |
| OAPP | -1.33E-03 | (-0.12, 0.11) |
| OUTREACH | -2.15E-04\*\*\* | (0.00, 0.00) |
| VEHEXCLALL | -0.03 | (-0.18, 0.60) |
| Socio-Demographic Factors |   |   |
| # of Children (0-4 yrs) | 0.09\*\*\* | (0.04, 0.14) |
| # of Children (5-17 yrs) | 0.04\*\* | (0.01, 0.07) |
| # of Adults (18-59 yrs) | 0.06\*\* | (0.02, 0.09) |
| # of Seniors (60+ yrs) | -0.05 | (-0.11, 0.01) |
| Household Income | 2.86E-05\*\* | (0.00, 0.00) |
| Employed | -0.14\*\*\* | (-0.21, -0.08) |
| Black, Non-Hispanic | 0.13\*\* | (0.04, 0.22) |
| Hispanic | 0.08 | (-0.03, 0.19) |
| Other, Non-Hispanic | 0.07 | (-0.04, 0.18) |
| Some College | -0.09\*\*\* | (-0.13, -0.05) |
| BA Degree or More | -0.12\*\* | (-0.19, -0.05) |
| Female | 0.08\*\* | (0.02, 0.14) |
| Married | -0.21\*\*\* | (-0.28, -0.13) |
| Rural | 0.02 | (-0.06, 0.10) |
| Midwest | 8.22E-04 | (-0.09, 0.09) |
| Northeast | -0.01 | (-0.14, 0.12) |
| West | 0.04 | (-0.11, 0.20) |
| Constant | 0.21 | (-0.18, 0.60) |
| **R2** = 0.15 |
| SNAP, Supplemental Nutrition Assistance Program; CI, confidence interval; yrs, years; BA, Bachelor's.  |
| **a**Estimates are weighted. Standard errors estimated using Jackknife Repeated Replication method. |
| \*,\*\* and \*\*\* indicate significance at the 0.05, 0.01 and 0.001 level. |   |

|  |
| --- |
| **Table S2. Double hurdle model (IV) estimates of factors influencing current SNAP restricted food purchases and expendituresa** |
|   |  **Hurdle 1: Purchase Decision (N=2,513)**  | **Hurdle 2: Expenditure Decision (n=676)**  |
|  | **Coefficient** | **95% CI** | **Coefficient** | **95% CI** |
| SNAP Participant | 0.39 | (-0.70, 1.48) | -0.84 | (-2.54, 0.86) |
| # of Children (0-4 yrs) | 0.12 | (-0.05, 0.28)  | -0.13 | (-0.31, 0.05) |
| # of Children (5-17 yrs) | 0.09 | (-0.03, 0.20) | -4.07E-03 | (-0.10, 0.09) |
| # of Adults (18-59 yrs) | 0.14\*\* | (0.05, 0.22) | 0.03 | (-0.14, 0.20) |
| # of Seniors (60+ yrs) | 0.03 | (-0.12, 0.18) | -0.01 | (-0.26, 0.24) |
| Household Income | 7.46E-06 | (0.00, 0.00) | 1.96E-05 | (0.00, 0.00) |
| Employed | 0.08 | (-0.15, 0.31) | -0.15 | (-0.51, 0.21) |
| Black, Non-Hispanic | -0.06 | (-0.31, 0.20) | -0.03 | (-0.58, 0.52) |
| Hispanic | 0.06 | (-0.37, 0.49) | -0.20 | (-0.46, 0.06) |
| Other, Non-Hispanic | -0.13 | (-0.46, 0.19) | -0.44 | (-0.99, 0.12) |
| Some College | 0.03 | (-0.18, 0.23) | 0.12 | (-0.14, 0.38) |
| BA Degree or More | 0.24\*\* | (0.04, 0.45) | 0.30 | (-0.23, 0.82) |
| Female | -0.17\* | (-0.38, 0.01) | -0.09 | (-0.41, 0.23) |
| Married | -0.03 | (-0.33, 0.26) | 0.27 | (-0.22, 0.75) |
| Rural | -0.09 | (-0.26, 0.07) | -0.17 | (-0.50, 0.17) |
| Midwest | -0.30\* | (-0.52, -0.07) | 0.05 | (-0.19, 0.29) |
| Northeast | -0.07 | (-0.31, 0.16) | 0.02 | (-0.42, 0.46) |
| West | -0.01 | (-0.23, 0.22) | 0.27\* | (-0.04, 0.58) |
| Distance to Nearest Superstore  | -0.01 | (-0.03, 0.01) | 0.02 | (-0.03, 0.06) |
| Own/Lease Vehicle | 0.23\*\* | (0.02, 0.44) | 0.05 | (-0.33, 0.42) |
| IV Residuals | -0.27 | (-1.26, 0.73) | 0.63 | (-1.09, 2.35) |
| Constant | 1.03\*\*\* | (-1.33, -0.73) | 1.89 | (1.29, 2.49) |
|   | **Pseudo R2** = 0.03 | **R2** = 0.07 |
| IV, instrumental variable; SNAP, Supplemental Nutrition Assistance Program; CI, confidence interval; yrs, years; BA, Bachelor's. |
| **a**Estimates are weighted. Jackknife Repeated Replication method used to estimate standard errors. |
| \*,\*\* and \*\*\* indicate significance at the 0.10, 0.05 and 0.01 level. |   |   |