|  |  |  |  |
| --- | --- | --- | --- |
| **Appendix Table 1: Influence of Food Store Trips on Healthy Eating Index (HEI) 2010 Score for Total Food Purchases** | | | |
| Coeff (Bootstrapped SE) | Superstore (SS) Shopping Trip Pattern | Supermarket (SM) Shopping Trip Pattern | Mix Shopping Trip Pattern |
| Supermarket trips | 2.09  (1.18) | -0.30  (0.51) | 0.80 \*  (0.34) |
| Superstore trips | -0.15  (0.59) | 2.40 \*  (1.04) | 1.03 \*\*  (0.35) |
| Convenience store trips | 0.12  (1.46) | -2.69 \*  (1.14) | -0.11  (0.30) |
| Restaurant trips | 0.71  (1.58) | 0.91  (1.02) | 0.29  (0.23) |
| Burger restaurant trips | -0.12  (1.05) | -4.49E-03  (0.85) | -0.52 \*  (0.21 |
| Grocery store trips | 1.34  (1.50) | 2.81  (2.02) | 0.33  (0.37) |
| Other food store trips | 0.60  (0.95) | 1.64  (1.10) | -0.82 \*\*  (0.27) |
| Other eating place trips | 1.08  (1.03) | 0.37  (0.96) | 0.44 \*  (0.20) |
| Other trips | -0.75  (1.05) | 1.36  (1.01) | 0.10  (0.13) |
| Proportion FAH expenditures | 3.03  (5.68) | 3.23  (4.59) | 5.30 \*\*  (1.98) |
| Age ≤ 35 | 3.78  (4.84) | -8.90  (6.72) | 1.85  (3.24) |
| Age 36 to 59 | 0.47  (3.92) | -4.47  (5.46) | 0.96  (2.72) |
| Female | 0.82  (2.07) | -1.34  (2.15) | 0.75  (1.10) |
| White | -0.20  (2.50) | -1.30  (2.48) | -0.48  (1.34) |
| Income ≤ 130% FPL | -3.32  (3.86) | 3.33  (5.80) | -7.08 \*  (2.97) |
| High school degree or less | -8.91 \*\*  (3.38) | -3.65  (3.51) | -7.75 \*\*\*  (1.96) |
| Some college or associates degree | -6.86 \*  (2.80) | -5.61 \*  (2.58) | -4.10 \*\*  (1.38) |
| Percent of adults employed | -1.06  (2.59) | 2.09  (3.02) | 0.70  (1.55) |
| Presence of Child | -1.30  (2.56) | -5.31  (3.01) | -1.50  (1.60) |
| Married | 5.74 \*\*  (2.03) | 2.32  (2.08) | 2.10  (1.13) |
| Healthy food cost too much | 1.01  (2.00) | -2.04  (1.93) | -0.69  (1.00) |
| Not enough time to prepare healthy meals | 0.15  (3.42) | -6.24  (4.72) | -1.56  (2.17) |
| Healthy food does not taste good | -0.61  (3.33) | -7.95  (4.60) | 1.94  (2.28) |
| Midwest | -4.65  (4.23) | -3.59  (3.77) | -1.24  (1.95) |
| South | -7.97  (4.79) | 0.15  (4.35) | -3.40  (2.42) |
| West | -4.81  (4.79) | 4.18  (4.21) | -1.35  (2.43) |
| Rural | 0.97  (2.71) | -2.40  (3.23) | -0.34  (1.49) |
| \_m1 | -10.23  (7.91) | 14.04  (24.93) | -38.57  (24.98) |
| \_m2 | -39.07  (29.87) | 11.33  (12.11) | -39.06  (29.33) |
| \_m3 | -31.11  (23.96) | -0.56  (23.24) | -16.14  (12.09) |
| Constant | 39.54 \*  (16.64) | 53.28 \*\*  (18.89) | 38.67 \*\*  (11.83) |
| *\*=p<0.05 \*\*=p<0.01 \*\*\*=p<0.001*  *Results are from a weighted linear regression for the outcome equation of a weighted multinomial endogenous switching regression (MESR).*  *FPL = federal poverty line*  *FAH = food at home* | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Appendix Table 2: Influence of Food Store Trips on Healthy Eating Index (HEI) 2010 Score for Food at Home (FAH) Purchases** | | | |
| Coeff (Bootstrapped SE) | Superstore (SS) Shopping Trip Pattern | Supermarket (SM) Shopping Trip Pattern | Mix Shopping Trip Pattern |
| Supermarket trips | 2.44\*  (1.19) | -0.72  (0.60) | 0.80\*  (0.34) |
| Superstore trips | 0.10  (0.63) | 2.10  (1.13) | 1.03\*\*  (0.35) |
| Convenience store trips | 0.01  (1.59) | -2.21  (1.22) | -0.11  (0.30) |
| Restaurant trips | 1.13  (1.56) | 1.98  (1.38) | 0.29  (0.23) |
| Burger restaurant trips | -0.54  (1.18) | 0.82  (1.05) | -0.52\*  (0.21) |
| Grocery store trips | 1.77  (1.53) | 2.84  (2.09) | 0.33  (0.37) |
| Other food store trips | 0.40  (1.05) | 1.73  (1.20) | -0.82\*\*  (0.27) |
| Other eating place trips | 0.72  (1.08) | 1.04  (1.07) | 0.44\*  (0.20) |
| Other trips | -0.64  (1.13) | 1.95  (1.07) | 0.10  (0.13) |
| Proportion FAH Expenditures | 4.89  (5.94) | 12.96\*  (5.97) | 5.30\*\*  (1.98) |
| Age ≤ 35 | 2.96  (5.05) | -8.73  (6.82) | 1.85  (3.24) |
| Age 36 to 59 | -0.14  (4.11) | -4.24  (5.66) | 0.96  (2.72) |
| Female | 1.27  (2.08) | -1.52  (2.18) | 0.75  (1.10) |
| White | -0.28  (2.66) | -1.43  (2.51) | -0.48  (1.34) |
| Income ≤ 130% FPL | -3.28  (4.02) | 4.40  (5.90) | -7.08\*  (2.97) |
| High school degree or less | -8.60  (3.26) | -4.57  (3.56) | -7.75\*\*\*  (1.96) |
| Some college or associates degree | -6.69\*  (2.77) | -6.39\*  (2.73) | -4.10\*\*  (1.38) |
| Percent of adults employed | -2.51  (2.58) | 2.97  (3.25) | 0.70  (1.55) |
| Presence of child | -1.04  (2.88) | -5.33  (3.09) | -1.50  (1.60) |
| Married | 5.50\*  (2.19) | 2.58  (2.35) | 2.10  (1.13) |
| Healthy food cost too much | 0.64  (2.03) | -2.03  (2.01) | -0.69  (1.00) |
| Not enough time to prepare healthy meals | 1.70  (3.59) | -6.08  (5.00) | -1.56  (2.17) |
| Healthy food does not taste good | -1.22  (3.78) | -7.48  (4.93) | 1.94  (2.28) |
| Midwest | -3.77  (4.11) | -2.97  (4.03) | -1.24  (1.95) |
| South | -7.15  (4.79) | 0.22  (4.36) | -3.40  (2.42) |
| West | -4.31  (4.82) | 4.40  (4.16) | -1.35  (2.43) |
| Rural | 1.15  (2.75) | -2.74  (3.40) | -0.34  (1.49) |
| \_m1 | -10.29  (8.47) | 13.12  (27.10) | -38.57  (24.98) |
| \_m2 | -34.60  (30.91) | 10.58  (12.56) | -39.06  (29.33) |
| \_m3 | -33.73  (26.29) | -0.12  (23.90) | -16.14  (12.09) |
| Constant | 36.57\*  (17.10) | 45.25\*  (19.41) | 38.67\*\*  (11.83) |
| *\*=p<0.05 \*\*=p<0.01 \*\*\*=p<0.001*  *Results are from a weighted linear regression for the outcome equation of a weighted multinomial endogenous switching regression (MESR).*  *FPL = federal poverty line*  *FAH = food at home* | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Appendix Table 3: Influence of Food Store Trips on Healthy Eating Index (HEI) 2010 Score for Food Away from Home (FAFH) Purchases** | | | |
| Coeff (Bootstrapped SE) | Superstore (SS) Shopping Trip Pattern | Supermarket (SM) Shopping Trip Pattern | Mix Shopping Trip Pattern |
| Supermarket trips | 1.11  (1.20) | 0.51  (0.68) | 0.18  (0.30) |
| Superstore trips | 0.14  (0.50) | 0.30  (1.22) | 0.01  (0.30) |
| Convenience store trips | -0.13  (1.20) | -2.54  (1.41) | -0.29  (0.28) |
| Restaurant trips | -1.16  (1.07) | 1.82  (1.16) | 0.39  (0.20) |
| Burger restaurant trips | 1.38  (0.75) | -0.79  (1.05) | -0.27  (0.18) |
| Grocery store trips | -3.12  (1.80) | 1.69  (1.76) | 0.28  (0.33) |
| Other food store trips | 0.41  (1.01) | 0.96  (1.24) | -0.54\*  (0.22) |
| Other eating place trips | 1.04  (0.72) | -0.53  (0.79) | 0.32  (0.24) |
| Other trips | -0.36  (0.90) | 0.50  (1.06) | 0.31\*  (0.13) |
| Proportion FAH expenditures | -6.71  (4.01) | -18.56\*\*  (5.62) | -5.69\*\*  (1.79) |
| Age ≤ 35 | 6.16  (4.79) | 1.06  (7.05) | 4.46  (2.97) |
| Age 36 to 59 | 3.34  (4.17) | -0.65  (5.21) | 3.23  (2.50) |
| Female | 3.04  (2.11) | 2.20  (2.27) | 1.37  (1.08) |
| White | 0.55  (2.14) | 0.93  (3.04) | -1.16  (1.22) |
| Income ≤ 130% FPL | -3.14  (3.75) | -0.27  (6.74) | -6.80\*  (2.63) |
| High school degree or less | -1.18  (2.94) | 2.06  (3.61) | -3.71\*  (1.75) |
| Some college or associates degree | -0.61  (2.52) | 1.90  (2.86) | -0.79  (1.30) |
| Percent of adults employed | 3.77  (2.76) | -1.38  (3.46) | 1.49  (1.48) |
| Presence of child | -0.52  (2.39) | -2.01  (3.81) | 2.00  (1.50) |
| Married | 0.30  (2.05) | 2.82  (2.92) | 1.06  (1.07) |
| Healthy food cost too much | -0.61  (2.05) | -2.27  (2.50) | -1.46  (0.99) |
| Not enough time to prepare healthy meals | 1.64  (3.27) | -0.50  (4.94) | 2.97  (2.11) |
| Healthy food does not taste good | 0.31  (3.25) | -6.46  (5.80) | 3.80  (2.20) |
| Midwest | -4.23  (3.55) | -4.86  (6.23) | 1.83  (1.75) |
| South | -7.56  (4.34) | 1.60  (4.93) | -2.52  (2.11) |
| West | -7.66  (4.30) | 2.19  (4.55) | -1.06  (2.34) |
| Rural | 2.00  (2.73) | -1.40  (4.47) | 3.05\*  (1.51) |
| \_m1 | 1.54  (7.16) | 36.19  (29.00) | -38.75  (22.30) |
| \_m2 | -33.99  (29.00) | 12.09  (14.55) | -56.55\*  (26.04) |
| \_m3 | -0.66  (19.63) | 41.89  (27.27) | -9.41  (10.06) |
| Constant | 29.66\*  (13.58) | 67.37\*\*  (21.40) | 20.47  (10.99) |
| *\*=p<0.05 \*\*=p<0.01 \*\*\*=p<0.001*  *Results are from a weighted linear regression for the outcome equation of a weighted multinomial endogenous switching regression (MESR).*  *FPL = federal poverty line*  *FAH = food at home* | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Appendix Table 4: Influence of Food Store Trips on Healthy Eating Index (HEI) 2010 Score for Total Food Purchases with Income Interactions** | | | |
| Coeff (Bootstrapped SE) | Superstore (SS) Shopping Trip Pattern | Supermarket (SM) Shopping Trip Pattern | Mix Shopping Trip Pattern |
| Supermarket trips | 2.93  (1.50) | -0.23  (0.60) | 0.57  (0.38) |
| Supermarket X Income ≤ 130% FPL | -3.51  (2.24) | -0.35  (1.12) | 1.89\*  (0.77) |
| Superstore trips | -0.29  (0.70) | 2.13  (1.19) | 1.08\*\*  (0.40) |
| Superstore X Income ≤ 130% FPL | 0.68  (0.99) | 1.04  (2.13) | -0.77  (0.73) |
| Convenience store trips | 0.49  (1.79) | -3.15\*  (1.30) | -0.18  (0.33) |
| Convenience X Income ≤ 130% FPL | -2.08  (2.40) | 3.52  (3.13) | 0.49  (0.65) |
| Restaurant trips | 1.06  (1.89) | 1.16  (1.08) | 0.30  (0.24) |
| Restaurant X Income ≤ 130% FPL | -2.03  (2.33) | -3.42  (1.75) | 0.31  (0.55) |
| Burger restaurant trips | -0.23  (1.28) | 0.34  (1.05) | -0.70\*\*  (0.23) |
| Burger X Income ≤ 130% FPL | 0.27  (1.76) | -0.82  (1.69) | 0.92\*  (0.42) |
| Grocery store trips | 2.33  (2.16) | 1.32  (2.21) | 0.32  (0.49) |
| Grocery X Income ≤ 130% FPL | -2.89  (3.00) | 3.50  (5.11) | 0.06  (0.69) |
| Other food store trips | 0.58  (1.20) | 1.84  (1.36) | -0.85\*\*  (0.30) |
| Other food store X Income ≤ 130% FPL | 0.32  (1.91) | -1.04  (2.30) | 0.27  (0.47) |
| Other eating place trips | 1.40  (1.22) | -0.37  (1.08) | 0.41  (0.21) |
| Other eating place X Income ≤ 130% FPL | -1.83  (3.03) | 6.14\*  (2.70) | 0.67  (0.64) |
| Other trips | -0.78  (1.25) | 1.75  (1.11) | 0.12  (0.15) |
| Other X Income ≤ 130% FPL | 0.66  (1.98) | -1.45  (1.87) | 0.12  (0.32) |
| Income ≤ 130% FPL | -2.82  (4.62) | 3.89  (6.48) | -10.39\*\*  (3.43) |
| Proportion FAH Expenditures | 2.89  (5.82) | 3.23  (4.60) | 5.71\*\*  (2.03) |
| Age ≤ 35 | 3.98  (4.95) | -9.47  (6.52) | 1.42  (3.39) |
| Age 36 to 59 | 0.36  (3.99) | -4.73  (5.25) | 0.62  (2.76) |
| Female | 0.88  (2.09) | -1.37  (2.12) | 0.64  (1.17) |
| White | -0.26  (2.55) | -1.49  (2.47) | -0.36  (1.39) |
| High school degree or less | -9.14\*\*  (3.43) | -3.70  (3.33) | -7.51\*\*\*  (1.85) |
| Some college or associates degree | -6.90\*  (2.82) | -5.75\*  (2.38) | -4.03\*\*  (1.30) |
| Percent of adults employed | -0.89  (2.59) | 2.30  (3.02) | 0.75  (1.61) |
| Presence of child | -1.36  (2.64) | -5.59  (3.07) | -1.85  (1.62) |
| Married | 5.78\*\*  (2.09) | 2.40  (2.16) | 2.13  (1.17) |
| Healthy food cost too much | 0.86  (2.02) | -1.92  (1.97) | -0.64  (0.95) |
| Not enough time to prepare healthy meals | 0.06  (3.49) | -6.61  (4.70) | -1.76  (2.28) |
| Healthy food does not taste good | -0.14  (3.42) | -7.81  (4.61) | 1.53  (2.32) |
| Midwest | -5.13  (4.37) | -3.83  (3.82) | -1.34  (1.86) |
| South | -8.49  (4.92) | 0.04  (4.15) | -3.10  (2.34) |
| West | -5.33  (4.90) | 3.85  (4.32) | -1.05  (2.37) |
| Rural | 1.17  (2.78) | -2.68  (3.28) | -0.45  (1.54) |
| \_m1 | -11.56  (8.18) | 16.62  (26.07) | -33.75  (24.71) |
| \_m2 | -42.28  (30.72) | 11.82  (12.46) | -32.64  (29.73) |
| \_m3 | -35.21  (24.58) | -0.13  (21.90) | -13.07  (11.71) |
| Constant | 38.04\*  (17.19) | 54.11\*\*  (18.38) | 40.87\*\*  (12.16) |
| *\*=p<0.05 \*\*=p<0.01 \*\*\*=p<0.001*  *Results are from a weighted linear regression for the outcome equation of a weighted multinomial endogenous switching regression (MESR).*  *FPL = federal poverty line*  *FAH = food at home* | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Appendix Table 5: Influence of Food Store Trips on Healthy Eating Index (HEI) 2010 Score for Food at Home (FAH) Purchases with Income Interactions** | | | |
| Coeff (Bootstrapped SE) | Superstore (SS) Shopping Trip Pattern | Supermarket (SM) Shopping Trip Pattern | Mix Shopping Trip Pattern |
| Supermarket trips | 3.07\*  (1.56) | -0.81  (0.79) | 0.85\*  (0.41) |
| Supermarket X Income ≤ 130% FPL | -2.65  (2.27) | 0.31  (1.26) | 1.26  (0.80) |
| Superstore trips | 0.03  (0.76) | 1.87  (1.32) | 1.22\*\*  (0.45) |
| Superstore X Income ≤ 130% FPL | 0.44  (1.04) | 0.90  (2.19) | -0.55  (0.78) |
| Convenience store trips | 0.35  (2.06) | -2.45  (1.39) | 0.09  (0.38) |
| Convenience X Income ≤ 130% FPL | -1.97  (2.68) | 2.63  (3.21) | 0.48  (0.73) |
| Restaurant trips | 1.75  (1.86) | 2.38  (1.44) | 0.48  (0.31) |
| Restaurant X Income ≤ 130% FPL | -3.32  (2.40) | -4.08\*  (2.00) | 0.37  (0.62) |
| Burger restaurant trips | -0.87  (1.43) | 1.20  (1.31) | -0.32  (0.30) |
| Burger X Income ≤ 130% FPL | 1.21  (1.91) | -1.00  (1.84) | 0.73  (0.46) |
| Grocery store trips | 2.58  (2.25) | 1.28  (2.21) | 0.73  (0.52) |
| Grocery X Income ≤ 130% FPL | -2.51  (3.11) | 3.39  (5.17) | 0.42  (0.85) |
| Other food store trips | 0.43  (1.35) | 2.05  (1.45) | -0.73\*  (0.34) |
| Other food store X Income ≤ 130% FPL | -0.03  (2.04) | -1.42  (2.38) | 0.31  (0.54) |
| Other eating place trips | 0.94  (1.32) | 0.42  (1.22) | 0.69\*\*  (0.24) |
| Other eating place X Income ≤ 130% FPL | -1.46  (3.01) | 5.42  (2.84) | 0.96  (0.69) |
| Other trips | -0.85  (1.43) | 2.40  (1.23) | -0.09  (0.17) |
| Other X Inc | 1.26  (2.19) | -1.67  (1.93) | 0.32  (0.33) |
| Income ≤ 130% FPL | -2.38  (4.74) | 3.91  (6.76) | -7.86\*  (3.93) |
| Proportion FAH Expenditures | 4.75  (5.77) | 12.88\*  (6.16) | 13.94\*\*\*  (2.93) |
| Age ≤ 35 | 3.13  (5.16) | -8.95  (6.95) | -0.25  (3.69) |
| Age 36 to 59 | -0.26  (4.13) | -4.26  (5.63) | -0.37  (3.06) |
| Female | 1.34  (2.18) | -1.60  (2.25) | 0.42  (1.25) |
| White | -0.33  (2.62) | -1.65  (2.60) | 1.34  (1.49) |
| High school degree or less | -8.85\*  (3.46) | -4.74  (3.55) | -6.09\*\*  (2.26) |
| Some college or associates degree | -6.75\*  (2.84) | -6.55\*  (2.64) | -3.27\*  (1.53) |
| Percent of adults employed | -2.25  (2.62) | 3.16  (3.12) | 1.58  (1.75) |
| Presence of child | -1.08  (2.78) | -5.52  (3.23) | -3.41  (1.87) |
| Married | 5.60\*  (2.20) | 2.67  (2.35) | 1.53  (1.27) |
| Healthy food cost too much | 0.51  (2.08) | -1.92  (2.08) | -0.24  (1.05) |
| Not enough time to prepare healthy meals | 1.68  (3.67) | -6.23  (4.96) | -4.18  (2.55) |
| Healthy food does not taste good | -0.80  (3.54) | -7.17  (4.90) | -0.27  (2.59) |
| Midwest | -4.36  (4.37) | -3.14  (4.03) | 0.21  (2.20) |
| South | -7.79  (5.02) | -0.06  (4.49) | -1.85  (2.72) |
| West | -4.87  (4.99) | 3.97  (4.56) | 0.45  (2.70) |
| Rural | 1.38  (2.83) | -2.88  (3.47) | -2.34  (1.82) |
| \_m1 | -11.46  (8.53) | 13.94  (27.92) | -8.73  (29.94) |
| \_m2 | -37.00  (31.51) | 10.23  (13.26) | -6.92  (33.42) |
| \_m3 | -36.70  (25.03) | -0.85  (23.39) | -6.63  (13.76) |
| Constant | 35.66\*  (17.55) | 46.18\*  (19.68) | 42.64\*\*  (13.49) |
| *\*=p<0.05 \*\*=p<0.01 \*\*\*=p<0.001*  *Results are from a weighted linear regression for the weighted outcome equation of a multinomial endogenous switching regression (MESR).*  *FPL = federal poverty line*  *FAH = food at home* | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Appendix Table 6: Influence of Food Store Trips on Healthy Eating Index (HEI) 2010 Score for Food Away from Home (FAFH) Purchases with Income Interactions** | | | |
| Coeff (Bootstrapped SE) | Superstore (SS) Shopping Trip Pattern | Supermarket (SM) Shopping Trip Pattern | Mix Shopping Trip Pattern |
| Supermarket trips | 1.80  (1.53) | 0.31  (0.79) | 0.03  (0.33) |
| Supermarket X Income ≤ 130% FPL | -2.49  (2.23) | 0.80  (1.60) | 1.47\*  (0.63) |
| Superstore trips | 0.05  (0.59) | 1.48  (1.17) | 0.06  (0.31) |
| Superstore X Income ≤ 130% FPL | 0.84  (0.91) | -5.32  (3.61) | -0.42  (0.60) |
| Convenience store trips | 0.34  (1.38) | -2.72  (1.51) | -0.39  (0.32) |
| Convenience X Income ≤ 130% FPL | -3.93  (2.36) | 3.23  (2.97) | 0.66  (0.58) |
| Restaurant trips | -1.46  (1.29) | 2.14  (1.33) | 0.40  (0.22) |
| Restaurant X Income ≤ 130% FPL | 1.85  (1.92) | -2.38  (2.26) | -0.10  (0.43) |
| Burger restaurant trips | 1.26  (0.88) | -0.40  (1.17) | -0.36  (0.21) |
| Burger X Income ≤ 130% FPL | 1.43  (1.50) | -1.03  (2.56) | 0.44  (0.33) |
| Grocery store trips | -4.16  (2.57) | 1.74  (2.54) | 0.26  (0.41) |
| Grocery X Income ≤ 130% FPL | 2.39  (3.64) | -0.40  (3.74) | 0.11  (0.57) |
| Other food store trips | 0.24  (1.22) | 0.83  (1.66) | -0.41  (0.28) |
| Other food store X Income ≤ 130% FPL | 0.72  (1.81) | -0.38  (2.73) | -0.82  (0.42) |
| Other eating place trips | 1.23  (0.93) | -0.68  (0.93) | 0.32  (0.24) |
| Other eating place X Income ≤ 130% FPL | -0.78  (1.51) | 1.14  (2.32) | -0.41  (0.47) |
| Other trips | -0.19  (1.14) | 0.65  (1.17) | 0.33\*  (0.13) |
| Other X Income ≤ 130% FPL | -1.37  (1.68) | 0.47  (3.07) | -0.25  (0.27) |
| Income ≤ 130% FPL | -6.44  (4.60) | 0.98  (7.83) | -6.89\*  (2.95) |
| Proportion FAH Expenditures | -6.53  (4.01) | -18.23\*\*  (5.74) | -5.63\*\*  (1.80) |
| Age ≤ 35 | 6.76  (4.78) | 1.44  (6.94) | 4.09  (3.13) |
| Age 36 to 59 | 3.76  (4.09) | -0.18  (5.39) | 3.00  (2.60) |
| Female | 2.97  (2.24) | 2.27  (2.42) | 1.29  (1.07) |
| White | 0.51  (2.13) | 1.21  (3.02) | -1.02  (1.25) |
| High school degree or less | -1.38  (3.00) | 1.58  (3.62) | -3.60\*  (1.76) |
| Some college or associates degree | -0.68  (2.61) | 1.51  (2.83) | -0.71  (1.30) |
| Percent of adults employed | 3.74  (2.70) | -1.05  (3.62) | 1.56  (1.46) |
| Presence of child | -0.39  (2.48) | -2.43  (3.60) | 1.84  (1.45) |
| Married | 0.41  (2.11) | 2.74  (2.90) | 1.04  (1.09) |
| Healthy food cost too much | -0.53  (2.19) | -2.15  (2.39) | -1.37  (0.94) |
| Not enough time to prepare healthy meals | 1.97  (3.43) | -0.78  (5.05) | 2.85  (2.08) |
| Healthy food does not taste good | 0.36  (3.35) | -5.88  (5.61) | 3.56  (2.29) |
| Midwest | -4.39  (3.59) | -5.15  (5.94) | 1.60  (1.75) |
| South | -8.12  (4.21) | 1.39  (5.04) | -2.42  (2.22) |
| West | -8.08  (4.44) | 1.69  (4.68) | -0.97  (2.37) |
| Rural | 2.49  (2.72) | -1.37  (4.31) | 2.97  (1.58) |
| \_m1 | 0.64  (7.10) | 34.02  (29.71) | -38.22  (22.68) |
| \_m2 | -38.24  (28.30) | 12.03  (14.60) | -54.27\*  (27.17) |
| \_m3 | -2.23  (19.69) | 47.38  (26.38) | -9.31  (10.49) |
| Constant | 28.87\*  (13.16) | 69.86\*\*\*  (19.87) | 21.39  (11.41) |
| *\*=p<0.05 \*\*=p<0.01 \*\*\*=p<0.001*  *Results are from a weighted linear regression for the outcome equation of a weighted multinomial endogenous switching regression (MESR).*  *FPL = federal poverty line*  *FAH = food at home* | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Appendix Table 7: Marginal Effects for Shopping Trip Pattern Selection** | | | |
| Marginal Effect  (Delta-Method Std. Err.) | Superstore (SS) Shopping Trip Pattern | Supermarket (SM) Shopping Trip Pattern | Mix Shopping Trip Pattern |
| Age ≤ 35 | -0.03  (0.02) | -0.11\*  (0.04) | 0.14\*\*  (0.05) |
| Age 36 to 59 | -0.05\*\*  (0.01) | -0.07\*  (0.03) | 0.12\*\*\*  (0.03) |
| Female | -0.02  (0.02) | 3.40E-03  (0.03) | 0.01  (0.03) |
| White | 0.01  (0.02) | 0.03  (0.02) | -0.04  (0.03) |
| Income ≤ 130% FPL | 0.06\*\*  (0.02) | 0.08\*\*\*  (0.02) | -0.14\*\*\*  (0.02) |
| High school degree or less | 0.07  (0.04) | 4.35E-03  (0.02) | -0.07  (0.04) |
| Some college or associates degree | 0.04  (0.03) | -0.01  (0.03) | -0.03  (0.04) |
| Percent of adults employed | 0.01  (0.03) | -0.03  (0.02) | 0.03  (0.03) |
| Presence of child | -0.01  (0.02) | -0.05\*  (0.02) | 0.06\*  (0.03) |
| Married | -0.01  (0.01) | -0.02  (0.02) | 0.03  (0.02) |
| Healthy food cost too much | 0.01  (0.02) | -1.24E-03  (0.02) | -0.01  (0.03) |
| Not enough time to prepare healthy meals | -0.04  (0.02) | -0.07\*  (0.03) | 0.10\*\*\*  (0.03) |
| Healthy food does not taste good | -0.02  (0.03) | -0.08\*\*\*  (0.02) | 0.10\*\*  (0.03) |
| Availability superstores | 0.03\*\*\*  (0.01) | -0.02\*\*  (0.01) | -0.01  (0.01) |
| Availability supermarkets | -0.02\*  (0.01) | 0.02\*\*  (0.01) | 0.01  (0.01) |
| Availability fast-food restaurants | -1.50E-03  (8.69E-04) | 4.76E-04  (1.04E-03) | 1.03E-03  (1.24E-03) |
| Availability restaurants | 9.17E-05  (2.09E-04) | 3.85E-05  (2.29E-04) | -1.30E-04  (1.52E-04) |
| Midwest | 0.14\*  (0.05) | -0.11  (0.06) | -0.03  (0.03) |
| South | 0.09\*  (0.04) | 0.03  (0.04) | -0.11\*\*  (0.04) |
| West | 0.04  (0.04) | 0.06  (0.03) | -0.10\*  (0.05) |
| Rural | 0.01  (0.02) | -0.06  (0.04) | 0.04  (0.03) |
| *\*=p<0.05 \*\*=p<0.01 \*\*\*=p<0.001*  *Marginal effects are from a weighted multinomial logistic regression for the selection equation in the weighted multinomial endogenous switching regression (MESR)*  *FPL = federal poverty line*  *Availability measures number of food stores within 1 mile of an individual’s home for urban households and 10 miles for rural households* | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Appendix Table 8: Sensitivity Analysis Excluding Proportion of Expenditures for Food at Home on the Healthfulness for Total Food Purchases** | | | |
| Coeff (Bootstrapped SE) | Superstore (SS) Shopping Trip Pattern | Supermarket (SM) Shopping Trip Pattern | Mix Shopping Trip Pattern |
| Supermarket Trips | 2.25  (1.16) | -0.24  (0.49) | 0.95\*\*  (0.33) |
| Superstore trips | -0.10  (0.57) | 2.55\*  (1.05) | 1.20\*\*  (0.35) |
| Convenience Store | 0.12  (1.44) | -2.65\*  (1.22) | -0.11  (0.29) |
| Restaurant Trips | 0.39  (1.46) | 0.54  (0.83) | 0.01  (0.20) |
| Burger Restaurant Trips | -0.22  (1.02) | -0.37  (0.85) | -0.66\*\*  (0.20) |
| Grocery store trips | 1.33  (1.54) | 2.96  (2.16) | 0.40  (0.37) |
| Other food store trips | 0.68  (0.94) | 1.62  (1.11) | -0.71\*\*  (0.26) |
| Other eating place trips | 0.93  (1.05) | 0.32  (0.97) | 0.36  (0.22) |
| Other trips | -0.88  (1.03) | 1.04  (1.06) | 0.06  (0.14) |
| Age <=35 | 3.88  (4.79) | -8.67  (6.50) | 1.84  (3.30) |
| Age 36 to 59 | 0.79  (3.77) | -4.37  (5.41) | 1.15  (2.73) |
| Female | 0.75  (2.07) | -1.03  (2.18) | 0.90  (1.12) |
| White | -0.27  (2.59) | -1.48  (2.45) | -0.25  (1.33) |
| Income <= 130% FPL | -3.92  (3.91) | 2.48  (5.86) | -7.03\*  (3.01) |
| H.S. degree or less | -9.21\*\*  (3.34) | -3.47  (3.58) | -7.59\*\*\*  (1.94) |
| Some college or associates degree | -7.06\*  (2.75) | -5.67\*  (2.65) | -4.04\*\*  (1.32) |
| Percent of Adults Employed | -1.28  (2.72) | 2.38  (3.01) | 0.44  (1.55) |
| Presence of Child | -1.23  (2.68) | -4.62  (3.28) | -1.47  (1.58) |
| Married | 5.67\*\*  (2.11) | 2.50  (2.10) | 2.25  (1.18) |
| Healthy food cost too much | 1.21  (2.01) | -2.00  (1.86) | -0.61  (0.97) |
| Not enough time to prepare healthy meals | 0.10  (3.39) | -5.38  (4.85) | -1.65  (2.28) |
| Healthy food does not taste good | -0.56  (3.51) | -7.39  (4.75) | 1.86  (2.31) |
| Midwest | -5.00  (4.48) | -3.15  (3.90) | -1.14  (1.85) |
| South | -8.37  (4.84) | 0.22  (4.14) | -3.37  (2.39) |
| West | -5.07  (4.70) | 3.88  (4.07) | -1.22  (2.32) |
| Rural | 0.73  (2.74) | -2.38  (3.45) | -0.26  (1.56) |
| \_m1 | -11.26  (8.33) | 7.32  (25.84) | -36.31  (24.61) |
| \_m2 | -39.64  (30.33) | 8.44  (12.61) | -37.65  (29.30) |
| \_m3 | -33.95  (24.07) | -7.52  (24.13) | -15.40  (12.20) |
| Constant | 42.30  (16.38) | 52.45  (18.47) | 42.29  (11.80) |
| *\*=p<0.05 \*\*=p<0.01 \*\*\*=p<0.001*  *Results are from a weighted linear regression for the weighted outcome equation of a multinomial endogenous switching regression (MESR).*  *FPL = federal poverty line*  *FAH = food at home* | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Appendix Table 9: Sensitivity Analysis Excluding Proportion of Expenditures for Food at Home on the Healthfulness of Food at Home (FAH)** | | | |
| Coeff (Bootstrapped SE) | Superstore (SS) Shopping Trip Pattern | Supermarket (SM) Shopping Trip Pattern | Mix Shopping Trip Pattern |
| Supermarket Trips | 2.62\*  (1.21) | -0.70  (0.65) | 1.39\*\*\*  (0.35) |
| Superstore trips | 0.15  (0.61) | 2.65\*  (1.18) | 1.64\*\*\*  (0.39) |
| Convenience Store Trips | 0.001  (1.66) | -2.14  (1.18) | 0.16  (0.33) |
| Restaurant Trips | 0.63  (1.46) | 0.48  (1.03) | -0.23  (0.25) |
| Burger Restaurant Trips | -0.70  (1.11) | 0.04  (0.96) | -0.54\*  (0.24) |
| Grocery store trips | 1.75  (1.55) | 3.09  (2.18) | 1.04\*  (0.41) |
| Other food store trips | 0.52  (1.06) | 1.87  (1.20) | -0.40  (0.30) |
| Other eating place trips | 0.50  (1.05) | 0.66  (1.03) | 0.53\*  (0.23) |
| Other trips | -0.84  (1.20) | 1.56  (1.09) | -0.19  (0.16) |
| Age <=35 | 3.03  (4.95) | -8.93  (6.84) | 0.10  (3.61) |
| Age 36 to 59 | 0.24  (3.96) | -4.21  (5.67) | 0.39  (2.97) |
| Female | 1.23  (2.06) | -0.97  (2.22) | 0.89  (1.27) |
| White | -0.34  (2.51) | -1.08  (2.43) | 1.81  (1.49) |
| Income <= 130% FPL | -3.93  (4.08) | 3.60  (6.06) | -4.36  (3.49) |
| H.S. degree or less | -9.00\*\*  (3.33) | -4.64  (3.63) | -5.89\*  (2.31) |
| Some college or associates degree | -6.99\*  (2.81) | -6.71\*  (2.87) | -3.14\*  (1.58) |
| Percent of Adults Employed | -2.75  (2.74) | 3.56  (3.24) | 0.96  (1.76) |
| Presence of Child | -0.88  (2.86) | -4.39  (3.01) | -2.98  (1.82) |
| Married | 5.40\*  (2.08) | 2.72  (2.29) | 1.93  (1.25) |
| Healthy food cost too much | 0.87  (2.03) | -2.03  (2.05) | -0.10  (1.06) |
| Not enough time to prepare healthy meals | 1.59  (3.55) | -4.90  (5.03) | -4.26  (2.46) |
| Healthy food does not taste good | -1.18  (3.56) | -6.52  (4.84) | -0.16  (2.49) |
| Midwest | -4.18  (4.13) | -2.54  (3.91) | 0.35  (2.22) |
| South | -7.60  (4.65) | -0.04  (4.57) | -2.14  (2.63) |
| West | -4.69  (4.55) | 4.00  (4.41) | 0.42  (2.61) |
| Rural | 0.93  (2.64) | -2.60  (3.51) | -2.06  (1.82) |
| \_m1 | -11.54  (8.55) | 5.59  (27.75) | -8.21  (29.39) |
| \_m2 | -35.63  (30.20) | 6.83  (12.77) | -9.22  (32.32) |
| \_m3 | -37.13  (23.77) | -9.56  (24.44) | -7.74  (13.61) |
| Constant | 40.91\*  (15.83) | 51.91\*\*  (18.78) | 49.84\*\*\*  (12.89) |
| *\*=p<0.05 \*\*=p<0.01 \*\*\*=p<0.001*  *Results are from a weighted linear regression for the weighted outcome equation of a multinomial endogenous switching regression (MESR).*  *FPL = federal poverty line*  *FAH = food at home* | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Appendix Table 10: Sensitivity Analysis Excluding Proportion of Expenditures for Food at Home on the Healthfulness of Food away from Home (FAFH)** | | | |
| Coeff (Bootstrapped SE) | Superstore (SS) Shopping Trip Pattern | Supermarket (SM) Shopping Trip Pattern | Mix Shopping Trip Pattern |
| Supermarket Trips | 0.92  (1.20) | 0.80  (0.79) | -0.005  (0.29) |
| Superstore trips | 0.15  (0.53) | -0.85  (1.27) | -0.20  (0.27) |
| Convenience Store | -0.27  (1.26) | -2.94\*  (1.45) | -0.29  (0.28) |
| Restaurant Trips | -0.73  (0.99) | 3.32\*\*  (1.05) | 0.66\*\*\*  (0.17) |
| Burger Restaurant Trips | 1.47\*  (0.71) | -0.88  (1.06) | -0.14  (0.18) |
| Grocery store trips | -3.30  (1.72) | 1.29  (1.96) | 0.21  (0.33) |
| Other food store trips | 0.21  (1.05) | 0.40  (1.36) | -0.67\*\*  (0.23) |
| Other eating place trips | 1.23  (0.71) | -0.13  (0.85) | 0.39  (0.22) |
| Other trips | -0.27  (0.96) | 0.22  (1.09) | 0.35\*\*  (0.13) |
| Age <=35 | 6.23  (4.41) | 3.32  (6.40) | 4.43  (3.13) |
| Age 36 to 59 | 3.08  (3.85) | 0.61  (4.69) | 3.03  (2.61) |
| Female | 2.87  (2.05) | 1.52  (2.40) | 1.23  (1.09) |
| White | 0.43  (2.20) | -0.92  (2.93) | -1.37  (1.26) |
| Income <= 130% FPL | -2.79  (3.52) | -0.99  (6.25) | -6.72\*  (2.75) |
| H.S. degree or less | -0.75  (2.89) | 1.77  (3.66) | -3.85\*  (1.80) |
| Some college or associates degree | -0.19  (2.62) | 2.34  (3.05) | -0.86  (1.33) |
| Percent of Adults Employed | 3.87  (2.77) | -2.47  (3.71) | 1.67  (1.47) |
| Presence of Child | -0.88  (2.35) | -1.92  (3.69) | 1.88  (1.47) |
| Married | 0.36  (2.09) | 3.00  (2.90) | 0.89  (1.10) |
| Healthy food cost too much | -0.81  (2.13) | -2.43  (2.45) | -1.51  (0.95) |
| Not enough time to prepare healthy meals | 1.81  (3.29) | -0.18  (4.93) | 3.05  (2.08) |
| Healthy food does not taste good | 0.31  (3.22) | -6.53  (5.62) | 3.88  (2.26) |
| Midwest | -4.16  (3.58) | -5.91  (6.05) | 1.78  (1.77) |
| South | -7.60  (4.34) | 1.22  (5.03) | -2.49  (2.22) |
| West | -7.27  (4.37) | 1.53  (4.39) | -1.11  (2.38) |
| Rural | 2.01  (2.65) | -1.08  (4.16) | 2.93  (1.57) |
| \_m1 | 2.45  (6.73) | 34.05  (29.30) | -40.32  (22.64) |
| \_m2 | -32.08  (26.93) | 13.07  (14.03) | -57.41\*  (27.15) |
| \_m3 | 1.60  (18.41) | 52.65\*  (26.69) | -9.86  (10.52) |
| Constant | 24.92\*  (12.45) | 59.45\*\*  (19.54) | 16.96  (11.18) |
| *\*=p<0.05 \*\*=p<0.01 \*\*\*=p<0.001*  *Results are from a weighted linear regression for the weighted outcome equation of a multinomial endogenous switching regression (MESR).*  *FPL = federal poverty line*  *FAH = food at home* | | | |