CHILDREN AND HOUSEHOLD UTILITY: EVIDENCE FROM KIDS FLYING THE COOP

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Abstract

Using consumption and wealth data from the *Health and Retirement Study* (HRS), this paper explores the impact of children leaving home on household consumption. We find that households maintain their household-level consumption, despite the fact that the number of individuals in the household has decreased, increasing per-capita consumption. Further, we find no evidence of increases in total net wealth, or any of its components, after children leave the household. These findings suggest that households do not dramatically change their savings or consumption patterns when their children fly the coop. Those households who are already behind in their retirement preparations will remain at risk of entering retirement with insufficient wealth to maintain their pre-retirement standard of living.

Introduction

With the disappearance of traditional pensions, declining Social Security replacement rates, and increases in longevity, the retirement landscape is shifting dramatically. Today, responsibility for a comfortable retirement rests mostly on the individual. This has led to widespread concern, and disagreement, about the adequacy of American households' retirement savings. Munnell, Golub-Sass, and Webb (2007) estimate that 43 percent of households are at risk of being unable to maintain their pre-retirement standard of living in retirement. In contrast, Scholz and Seshadri (2008) estimate that less than 4 percent of households are saving inadequately for retirement.

Estimates of the financial preparedness for retirement of middle-aged households depend crucially on projections of the amounts households will save in the years leading up to retirement. Many changes occur during these years that may impact one's ability to save for retirement: children attaining financial independence being perhaps the most significant. If households are not liquidity constrained and financial independence of offspring is a predictable event, households should be able to smooth their marginal utility of consumption notwithstanding these changes in household composition. However, it is still unclear how family size impacts utility, or how children, or their consumption, enter into the utility function. The most common assumption is that consumption of family members is separable in the utility function. If this is the case, then the marginal utility of consumption is constant over time when (per-equivalent) adult consumption is constant over time. This formulation of the utility function has two important implications for retirement savings decisions. First, if income peaks between ages 40 and 60, and if expenses of child rearing peak at younger ages, then households *should* do most of their retirement saving after age 40. Second, families who have children will optimally

choose greater consumption when their children are growing up and lower consumption subsequently, implying lower target replacement rates *and* smaller accumulations of wealth than their childless counterparts. If households do, in fact, behave in this manner, then low levels of retirement saving among younger households may not be a matter of public policy concern because they will catch up later in life and should be aiming for relatively modest replacement rates.

Using Health and Retirement Study (HRS) Consumption and Activities Module (CAMS) data, this paper tests the first-order conditions for the consumption and saving behavior of households over time as children leave home. We examine various categories of household and per-person spending (durables, non-durables, housing, and non-discretionary items). We find that households increase per-capita, non-durable consumption when their disposable income increases, in apparent violation of optimizing behavior, given the traditional formulation of the utility function. The sensitivity analyses suggest this increase is not the result of liquidity constraints. Further, we find no impact on saving behavior or wealth accumulation. The behavior we document is consistent with a variety of plausible utility functions, but the data lacks sufficient detail to distinguish between alternatives, and we therefore leave this for future research. Our findings have important implications for assessments of retirement preparedness. Households who saved little when the children lived at home continue to save little subsequently, despite the increased capacity for saving. These households will arrive at retirement with insufficient wealth to maintain the average level of consumption enjoyed over their working life, let alone the increased standard of living enjoyed after the children leave.

The remainder of the paper is organized as follows. Section II presents the standard utility model used in dynamic programming settings and its testable predictions. Section III

presents the CAMS data and descriptive statistics. Section IV provides the econometric model and results for consumption. Section V presents the W2 data and descriptive statistics. Section VI provides the econometric model and results for retirement contributions. Section VII concludes.

II. Model

The standard permanent income hypothesis model assumes forward-looking agents that derive utility from period-by-period consumption. Abstracting from uncertainty, liquidity constraints, mortality, and other risks, and assuming that the rate of interest equals the rate of time preference, the model predicts that individuals equalize each period's marginal utility of consumption over their lifetimes.

The standard adjustment to the simple model to incorporate changes in household composition, such as the presence of children, involves allowing households to derive utility from person-equivalent units of consumption instead of a composite household consumption. The household thus maximizes:

$$\sum_{j=s}^{T} \beta^{j-s} n_j U\left(\frac{c_j}{n_j}\right) \tag{1}$$

where C_j is household consumption at time *j* and β is the time discount factor, and n_j is the number of people in the household.¹ If the discount rate equals the interest rate, then the first order condition implies that utility is maximized when per-person consumption is equal in all time periods, or:

¹ For exposition, we will assume that adults and children are equivalent and weighted as one each. Because most of the children in our data set are teenaged or older, the equivalent weighting seems reasonable, and we also use equal weighting in the results presented. We later report analysis on the maximum weight a child can receive to have our results match this theoretical framework.

$$\frac{c_i}{n_i} = \frac{c_j}{n_j} \tag{2}$$

The implications of the first order condition are clear: total household consumption should decrease and parental consumption remain constant, when children leave home. We test the predictions of this model by comparing household and per-person consumption of households before and after children leave home with the consumption patterns of households without changes in the number of children in the household.

III. Data

This paper uses CAMS data to investigate whether the consumption of households approaching retirement responds to predictable changes in financial circumstances, such as children leaving home. The CAMS was administered bi-annually from 2001 to 2007 by mail to a random sample of 5,000 individuals drawn from the HRS. While the CAMS collects less precise consumption data than the *Consumer Expenditure Survey* (CEX), typically used to measure the sensitivity of consumption to changes in income or expenditures (for example, Stephens 2008 and Souleles 1999), it offers the advantage of being a multi-year panel, instead of the one-year panel available in the CEX. Hurd and Rowedder (2006) document that the consumption levels are roughly comparable across these two surveys. The panel feature enables us to use intra-household differences in consumption instead of relying on synthetic cohorts or inter-household differences based on household size. Unlike Browning and Ejrnaes (2009), we examine how consumption changes as children leave the household, not as they enter and age within the household.

We match consumption data measured in one year to the HRS core interview data from the previous calendar year. For example, the 2001 consumption data is matched to 2000 HRS

data for financial and family structure information. The age of the household respondents is measured in the year of the consumption data. Consumption and income data are normalized to 2007 dollars using the CPI.

Given that the data on consumption and household size are not collected in the same year, we are careful when identifying which households experience children moving out, and when this occurs. The HRS variable for "resident children" is used to determine the number of children living in the household. A household is identified as having children move out if the number of resident children is positive and constant in 2000 and 2002, and falls to zero in both 2006 and 2008. People are defined as "never had resident children" if the resident children variable is zero from 2000 through 2008 inclusive. This group includes households who never had any children, and those whose children had already moved out before 2000. The category "always had resident children" corresponds to a positive and constant number of resident children from 2000 through 2008, inclusive.

The consumption data is grouped into four broad categories for the analysis. Durable consumption includes purchases of large household appliances (refrigerator, washing machine, dishwasher, television set, and computer) and automobiles. Non-discretionary consumption includes vehicle taxes and maintenance, health insurance, and health supplies. Housing includes homeowners insurance as well as standard home expenses (mortgage/rent, electricity, water, heat, and phone). Non-durable consumption includes purchases of housekeeping supplies, personal care products, apparel, leisure and hobby items, vacations, vehicle insurance, any food purchases (including dining out), and gasoline. Non-durable consumption is expected to be the most responsive to changes in household composition.

Finally, we match our sample to the restricted earnings records made available through the Social Security Administration (SSA). This allows us to construct a proxy for lifetime income, since the permanent income hypothesis tells us that it is lifetime income, not contemporaneous income, which determines the resource constraint.

The base case is aimed at maximizing the sample size. Table 1 outlines the sample selection criteria. We eliminate households not observed in every wave. In order to eliminate confounding household composition issues such as divorce or death, we only include intact and stable households (either single or married) in the sample. The biggest reduction in sample size is due to matching the HRS respondents to the consumption data. Finally, we only include in our analysis individuals between the ages of 52 and 74, and with a positive sampling weight in 2006. This leaves us with a total sample size of 2,880 observations representing 833 households: 743 never had children in the household, 36 have children who move out, and 54 always have the same number of children living with them.

Table 2 presents the characteristics of the average household in our sample by household composition. Households who always have children living with them differ from the other two groups. They are less likely to be married, have less educated men, and have less wealth. Those who have children move out are younger, and are more likely to be married and working. Tests for differences between the sample means of those who always had resident children or who had resident children move out, and those of households who never had resident children, confirm that the above relationships are statistically significant.

One potential issue with the data that becomes apparent in Table 2 is that the average age of heads of households with children who leave the nest is relatively high -60 for men and 56 for women, ----- the issue of sample selection. Suchindran and Koo (1992) find that the median

age of last birth is around 30 for these birth cohorts, suggesting that only a minority will have children living at home after age 55. This raises issues about whether or not these households who have their last child later in life will behave similarly to other households who experienced different fertility patterns. We add in controls for the woman's age, education, and total number of children to try to address the timing of fertility. Further, we think that if any group will be responsive to the need for retirement saving, it will be those where retirement is more salient. This suggests that our older households may be more likely than most to decrease consumption and increase savings, potentially biasing our results toward confirming the first-order conditions we set out to test (equation 2).

IV. Model and Results

We compare changes in consumption over time as a function of the household composition. We difference the data in order identify within-household changes in consumption. We compare households with no children, households with children, and households whose children leave, allowing for different intercepts and slopes for each of these groups. The estimating equation is thus:

$$\ln (C_t) - \ln(C_{t-2}) = \alpha + \beta_1 X_t + \beta_2 KidsMoveOut + \beta_3 KidsAlwaysWit \Box + \beta_4 X_t + \beta_5 LFP_t + \beta_6 y_t + \varepsilon_t$$
(4)

where $ln(C_t)$ is the natural log of either total household or per adult equivalent consumption at time *t*. We explore the four types of consumption expenditures separately: non-durables, durables, housing, and non-discretionary spending. X_t is a vector of control variables that includes male and female age and age squared, race, marital status, educational attainment, and the labor force participation at time t. We also include a proxy for the lifetime resource

constraint. This is measured as the average monthly income during the 20 highest years of earnings prior to age 50, adjusted by average wage growth to adjust for differences in both real and nominal earnings across birth cohorts, and put in constant 2007 dollars. LFP_t is a vector of indicators that includes working status at time t-2 and an indicator for changes in working status between t and t-2. *KidsMoveOut* is an indicator variable equal to one if a child leaves the household between t and t-2. This variable measures any change in the trend of consumption over time between households without any children and those whose children move out. This formulation implicitly assumes that moving out has a constant impact on consumption – that is, consumption does not depend on how many years it has been since the child moved out of the house.² y_t is set of year dummy variables. *KidsAlwaysWith* is an indicator variable equal to one if the household had resident children in all four CAMS surveys. This specification allows for the two groups with stable household compositions to have different consumption growth rates. β_2 indicates if consumption trends differ between households without children and those whose children leave home. We will compare the difference between β_2 and β_3 to test for significant differences in the trends of consumption between households whose children remain and those whose children move out.³

The results of the baseline specification are presented in Tables 3 and 4. The columns present the results for non-durable consumption, durable consumption, non-discretionary consumption, and housing consumption, respectively. Table 3 presents the results from the

² The sample size is too small to test this assumption.

³ We were initially concerned about a possible endogeneity problem, namely that household composition changes could be driven by other factors, such as decreases in income, that also impact consumption patterns. We explored using the age of the children (when they turn 18 and 22, typical ages of emancipation) as instrumental variables to address this issue. These ages were significant predictors of children leaving the household, however, we could not reject that the children leaving was exogenous (the χ^2 statistic was around .4 in all specifications). Thus we present the more efficient OLS regression results.

household-level specifications, while Table 4 presents the per-capita specification results. When the coefficient is small, it approximates, when multiplied by 100, to the percentage change in consumption resulting from a one-unit increment to the right hand side variable. When the coefficient is larger, the percentage change in consumption is somewhat greater.

Once we control for the household-level fixed effects by first-differencing the data, few of the socio-economic and demographic control variables retain statistical significance. This is to be expected. Although we anticipate, for example, that single households will have lower consumption and those with a college education will have higher consumption, we would not expect to find substantial differences between intact household types in the rate of growth of consumption.

The "kids always with" row shows the percentage growth in consumption of households that had the same number of resident kids throughout, relative to the base case of a household that did not have resident kids at any time during the period. The coefficients for all classes of consumption are invariably small and lacking in statistical significance, irrespective of whether consumption is measured at the household or the per-person level. Both types of household saw each class of consumption grow at approximately the same rate.

The same is not true for households whose kids moved out. The household level coefficients for non-durables and housing consumption are both small and not significantly different from zero. But the per-capita coefficients are both large and significantly different from zero. The non-durables coefficient of 0.409 equates to an increase in consumption of 50.5 percent, and the housing coefficient of 0.325 equates to an increase in consumption of 38.4 percent. The above results suggest that when the kids move out, the parents continue to spend approximately the same total dollar amount as before on non-durables, but enjoy a substantial

increase in per-capita consumption. The increase in per-capita spending on housing is to be expected because housing expenses include homeowners insurance, mortgage/rent, electricity, water, heat, and phone, most of which would be a function of the size of the house, not the number of people who live within it.

The kids move out coefficients for durables and non-discretionary spending are imprecisely estimated. What is important is that we do not measure differential trends in durable spending, either at the household or per-capita level, based on whether children are present in the household or move out. This suggests that there is not pent-up demand for durable goods; households are not spending the money that used to go to support their children on a new car, boat, or house. Our ability to predict changes in non-discretionary spending is also quite limited. Again, we do not measure any change in non-discretionary income after children leave the household, on either the per-capita or household-level.

There is debate in the existing literature on what is the correct equivalent scale for adult children living in the household. Browning and Ejrnaes (2009) find that teenagers consume as much as an adult, and thus our baseline specification (Table 4) counts everyone as one adult-equivalent. Others (National Research Council 1995; Attanasio et al. 1999) suggest that 0.7 is the correct equivalent scale to use, suggesting the denominator should be $n_j^{0.7}$, and our results are robust to that measure as well. Indeed, the equivalent scale would have to be less than 0.52 in order to invalidate these findings. Another way to adjust for household composition is to allow children to get a different weight than adults when calculating the number of individuals in the household, where $n_j = (A_j + wK_j)^{0.7}$, where A and K are the number of adults and children, respectively, and w is the weight given to children, and 0.7 remains the equivalence scale. Adult

children would have to receive a weight less than two-thirds of an adult to invalidate our findings.

Sensitivity Tests

The sample specification in the baseline is not very restrictive. For example, we do not limit the sample by the age of the child, which may mean that we are including older children who might be contributing to the household finances, instead of being net consumers of household resources. We also do not limit the sample to pre-retirement households. We make a number of sample restrictions to test the robustness of our findings. The results (see Table 5) of the specification tests are generally robust to a number of sample restrictions. Column 5.1 repeats the base case for per-person, non-durable consumption as shown in Table 4 for comparison purposes. Column 5.2 limits the sample to those households who do not move between 2000 and 2008. Column 5.3 limits the sample to those who are working in all periods, which limits the potential confounding factor of retirement during the observation window. Column 5.4 limits the sample to households whose co-resident children are 30 and under in 2000 in order to limit the inclusion of co-resident children who may be contributing significant financial resources to the household. As the sample specification changes, our estimates remain remarkably robust. In two out of three specification checks, the coefficient of interest (β_6) is virtually unchanged, between 0.409 to 0.415. In 5.3, the sample working in all waves, the coefficient loses both significance and magnitude, but is likely due to the dramatic drop in sample size to 226 person-wave observations.

Other Outcomes

We have shown that household-level, non-durable consumption does not react to children moving out of the house. However, the sample size we have is admittedly small, and perhaps we

are mis-measuring a reduction that actually occurs. If household-level consumption does decrease, one would expect the money to show up somewhere else on the household balance sheet. In Table 6, we explore the impact of children moving out on total debt, debt in the form of mortgages, total net worth and its components: non-housing financial wealth, and housing wealth. We do not detect any increases in wealth after children leave the household. Again, this suggests that the increase in disposable income when children are financially independent is being consumed, and not being saved.

V. Discussion and Conclusions

We directly test the consumption patterns implied by the first-order conditions of the standard utility function employed in dynamic programming models. This formulation predicts that per-adult equivalent non-durable consumption should remain constant, but total household consumption would decline when children leave the household. We find that the data do not support this type of utility function.

Instead, we find that individuals keep their household-level consumption constant over changes in their household size. This suggests that other utility functions should be explored in order to measure retirement preparedness for younger cohorts more realistically. It could be that behavioral economics theories are at work. For example, mental accounting could mean that households are used to spending a certain amount at the grocery store, and continue to do so even when shopping for fewer people, perhaps by upgrading from chicken to steak. It could mean that omitting leisure from the utility function is an important factor. For example, one may only enjoy high school sports games, typically free, when one's own child is participating, and once the child leaves the parent finds other, more expensive, activities to occupy his or her leisure

time. It could also mean that children are consumption goods themselves, and that the parents get utility in equal measure from their and their children's consumption. Unfortunately, the consumption data used do not allow us to separate consumption among individuals, and other consumption data do not allow for a long panel to be analyzed.

The finding that household-level consumption remains constant has important policy implications. First, it suggests that individuals do not increase their retirement savings when they have large increases in disposable income due to their children leaving the nest. Those who save little when they are young, for whatever reason, do not automatically catch up on their savings late in life. Second, the target amount of money one needs to maintain his or her lifestyle in retirement is high, and is equal to the household-level consumption when there are children living in the house.

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Table 1	l.	Sample	Selection	Criteria.
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	Number of Households	Number of Observations
Provided any type of interview in each wave 2000 - 2008 (inclusive)	8,181	
If partnered, same partner in all waves 2000 - 2008 (inclusive); otherwise single in all waves 2000 - 2008 (inclusive)	6,791	
Households cover our criteria for constant number of resident adults, constant number of resident children/grandchildren, or permanent decrease in the number of resident children/grandchildren	3,510	
<u>Consumption Data</u> Consumption data is available for each wave between 2001 and 2007 $(inclusive)^{1}$	1,116	3,897
Age limited to 52 to 74 years of age	836	2,919
Sample Weights 2006 HRS sample household weight is positive	833	2,909
Valid consumption data used for two-wave differences	833	2,880
$\frac{\text{Treatment Group}^2}{\text{The same number of resident children in 2000 \& 2002 and no resident children in 2006 \& 2008}$	36	72
<u>Control Group 1</u> No resident children in each wave between 2000 and 2008 and the same number of household members in 2000 - 2006 (inclusive)	743	2,620
<u>Control Group 2</u> The same positive number of resident children in each wave between 2000 & 2008 and the same number of household members in 2000 - 2006 (inclusive) Source: Authors' calculations from HRS data.	54	188

1: Available data means that no more than 10 of the consumption questions have missing data; none of the consumption categories has a value of zero and consumption data is available for enough years to create two-wave differences.

2: For the treatment group, we only have a maximum of three observations per household, since we exclude one observation due to not knowing exactly when the child leaves the household.

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College education 21% 21% 25% 12% Men Age in 2001 63 64 60 60 Less than high school degree 15% 10% 9% 15% High school degree 50% 49% 60% 53% Some college education 5% 5% 6% 3% College education 5% 5% 6% 3% Household head 2% 4% 8% Married 65% 66% 50% 82% Wealth in 2000 207,535 76,678 97,528 Housing wealth 146,033 146,962 139,414 139,682 Wealth including second residence 569,757 601,175 350,728 346,533 Mortgage 40,132 38,589 54,398 45,066 Debt 44,129 42,711 57,882 47,553 Change in wealth between 2000 & 2008 - - 7,123 7,298 8,11	Some college education	5%	6%	0%	0%
Men Age in 2001 63 64 60 60 Less than high school degree 15% 16% 9% 15% High school degree 50% 49% 60% 53% Some college education 5% 5% 6% 3% College education 30% 31% 25% 30% Household head	College education	21%	21%	25%	12%
Age in 2001 63 64 60 60 Less than high school degree 15% 16% 9% 15% High school degree 50% 49% 60% 53% Some college education 5% 5% 6% 3% College education 30% 31% 25% 30% Household head 7% 2% 2% 3% 10% Hispanic 2% 2% 2% 4% 8% Married 65% 66% 50% 82% Wealth in 2000 192,177 207,535 76,678 97,528 Housing wealth 192,177 207,535 76,678 97,528 Housing wealth 146,033 146,962 139,414 139,682 Wealth including second residence 569,757 601,175 350,728 346,533 Mortgage 40,132 38,859 54,398 45,633 Mortgage -5,723 1,011 6,774 Housing wealt	Men		- 1	60	
Less than high school degree 15% 16% 9% 15% High school degree 50% 49% 60% 53% Some college education 30% 31% 25% 30% Household head 7% 5% 46% 23% 30% Hispanic 2% 2% 4% 8% Married 65% 66% 50% 82% Wealth in 2000 120,77 207,535 76,678 97,528 Housing wealth 192,177 207,535 76,678 97,528 Housing wealth 146,033 146,962 139,414 139,682 Wealth including second residence 599,757 601,175 350,728 346,533 Mortgage 40,132 38,589 54,398 45,066 Debt 44,129 42,711 57,882 47,553 Change in wealth between 2000 & 2008 00 5,723 1,011 6,774 Housing wealth 67,428 67,189 93,325 27,518 Mortgage -5,635 -5,710 9,104 -30,000	Age in 2001	63	64	60	60
High school degree 50% 49% 60% 55% Some college education 5% 5% 6% 3% College education 30% 31% 25% 30% Household head 7% 55% 46% 23% Black 5% 5% 3% 10% Hispanic 2% 2% 4% 8% Married 65% 66% 50% 82% Wealth in 2000 $146,033$ $146,962$ $139,414$ $139,682$ Wealth including second residence $59,757$ $601,175$ $350,728$ $346,533$ Mortgage $40,132$ $38,589$ $54,398$ $45,066$ Debt $44,129$ $42,711$ $57,882$ $47,553$ Change in wealth between 2000 & 2008 $67,428$ $67,189$ $93,325$ $27,518$ Met non-housing financial wealth $-4,619$ $-5,723$ $1,011$ $6,774$ Housing wealth $67,428$	Less than high school degree	15%	16%	9%	15%
Some college education5%5%6%3%College education30%31%25%30%Household head85%55%46%23%Black5%5%3%10%Hispanic2%2%4%8%Married65%66%50%82%Wealth in 2000865%66%50%82%Wealth in 200099999Net non-housing financial wealth192,177207,53576,67897,528Housing wealth146,033146,962139,414139,682Wealth including second residence569,757601,175350,728346,533Mortgage40,13238,58954,39845,066Debt44,12942,71157,88247,553Change in wealth between 2000 & 20089910116,774Housing wealth67,42867,18993,32527,518Wealth including second residence49,40748,82553,69053,158Mortgage-5,635-5,7109,104-30,000Debt-7,123-7,2988,119-30,000Annual consumption in first observation935217,125Non-discretionary expenditures16,85416,55919,85917,125Non-discretionary expenditures-287-246-633-466Housing expenditures-7613-596-884Non-discretionary expenditures <td< td=""><td>High school degree</td><td>50%</td><td>49%</td><td>60%</td><td>53%</td></td<>	High school degree	50%	49%	60%	53%
College education 30% 31% 25% 30% Household head	Some college education	5%	5%	6%	3%
Household head Retired in 200052% black55% black46% 23% black23% blackMarried2% 2%2% 2%4% 4%8% 6%Married65%66%50% 82%Wealth in 200082%26% 66%50%82% 82%Net non-housing financial wealth192,177 1207,535207,535 76,67876,678 97,528 97,528 46,53397,528 46,533Housing wealth146,033 146,962146,962 139,414139,682 139,414139,682 139,414Wealth including second residence569,757 601,175601,175 350,728346,533 346,533Mortgage Debt44,129 42,71142,711 57,88247,553Change in wealth between 2000 & 2008 Net non-housing financial wealth-4,619 -5,723-5,710 9,104-30,000 -33,158 -30,000Mortgage Debt-5,635 -5,710-5,710 9,104 -30,000-30,000 -30,000Annual consumption in first observation 	College education	30%	31%	25%	30%
Retired in 2000 52% 55% 46% 23% Black 5% 5% 3% 10% Hispanic 2% 2% 4% 8% Married 65% 66% 50% 82% Wealth in 2000 146,033 146,962 139,414 139,682 Housing wealth 146,033 146,962 139,414 139,682 Wealth including second residence 569,757 601,175 350,728 346,533 Mortgage 40,132 38,589 54,398 45,066 Debt 44,129 42,711 57,882 47,553 Change in wealth between 2000 & 2008 44,129 42,711 57,882 47,553 Change in wealth between 2000 & 2008 67,428 67,189 93,325 27,518 Mortgage -5,635 -5,710 9,104 -30,000 Debt -7,123 -7,298 8,119 -30,000 Annual consumption in first observation 6,174	Household head				
Black5%5%3%10%Hispanic2%2%4%8%Married65%66%50%82%Wealth in 2000Net non-housing financial wealth192,177207,53576,67897,528Housing wealth146,033146,962139,414139,682Wealth including second residence569,757601,175350,728346,533Mortgage40,13238,58954,39845,066Debt44,12942,71157,88247,553Change in wealth between 2000 & 2008Net non-housing financial wealth-4,619-5,7231,0116,774Housing wealth67,42867,18993,32527,518Wealth including second residence49,40748,82553,69053,158Mortgage-5,635-5,7109,104-30,000Debt-7,123-7,2988,119-30,000Annual consumption in first observationDurable goods6,1746,0178,0785,898Housing expenditures16,85416,55919,85917,125Non-discretionary expenditures16,35216,44114,38118,042Annual change in consumption from first to last observationDurable goods-287-246-633-466Housing expenditures-7613-596-884Non-discretionary expenditures124225-804Non-discretionary expenditures124225-804Non-discretionary expenditures<	Retired in 2000	52%	55%	46%	23%
Hispanic 2% 2% 4% 8% Married 65% 66% 50% 82% Wealth in 2000Net non-housing financial wealth $192,177$ $207,535$ $76,678$ $97,528$ Housing wealth $146,033$ $146,962$ $139,414$ $139,682$ Wealth including second residence $569,757$ $601,175$ $350,728$ $346,533$ Mortgage $40,132$ $38,589$ $54,398$ $45,066$ Debt $44,129$ $42,711$ $57,882$ $47,553$ Change in wealth between 2000 & 2008Net non-housing financial wealth $-4,619$ $-5,723$ $1,011$ $6,774$ Housing wealth $67,428$ $67,189$ $93,325$ $27,518$ Wealth including second residence $49,407$ $48,825$ $53,690$ $53,158$ Mortgage $-5,635$ $-5,710$ $9,104$ $-30,000$ Debt $-7,123$ $-7,298$ $8,119$ $-30,000$ Annual consumption in first observation $005,112$ $9,859$ $17,125$ Non-discretionary expenditures $16,854$ $16,569$ $19,859$ $17,125$ Non-discretionary expenditures $16,352$ $16,441$ $14,381$ $18,042$ Annual change in consumption from first to last observation 024 225 -804 Non-discretionary expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-discretionary expenditures 1 24 225 -804 <	Black	5%	5%	3%	10%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Hispanic	2%	2%	4%	8%
Wealth in 2000 Net non-housing financial wealth 192,177 207,535 76,678 97,528 Housing wealth 146,033 146,962 139,414 139,682 Wealth including second residence 569,757 601,175 350,728 346,533 Mortgage 40,132 38,589 54,398 45,066 Debt 44,129 42,711 57,882 47,553 Change in wealth between 2000 & 2008 Met non-housing financial wealth -4,619 -5,723 1,011 6,774 Housing wealth 67,428 67,189 93,325 27,518 Wealth including second residence 49,407 48,825 53,690 53,158 Mortgage -5,635 -5,710 9,104 -30,000 Debt -7,123 -7,298 8,119 -30,000 Annual consumption in first observation 9,859 17,125 Non-durable expenditures 16,854 16,569 19,859 17,125 Non-durable expenditures 16,852 16,441 14,381 18,042	Married	65%	66%	50%	82%
Net non-housing financial wealth 192,177 207,535 76,678 97,528 Housing wealth 146,033 146,962 139,414 139,682 Wealth including second residence 569,757 601,175 350,728 346,533 Mortgage 40,132 38,589 54,398 45,066 Debt 44,129 42,711 57,882 47,553 Change in wealth between 2000 & 2008 77,48 Met non-housing financial wealth -4,619 -5,723 1,011 6,774 Housing wealth 67,428 67,189 93,325 27,518 Wealth including second residence 49,407 48,825 53,690 53,158 Mortgage -5,635 -5,710 9,104 -30,000 Debt -7,123 -7,298 8,119 -30,000 Annual consumption in first observation 0 0 0 0 0 0 0 0 0 0 0 0 1 2,48,59 1,7125	Wealth in 2000				
Housing wealth146,033146,962139,414139,682Wealth including second residence $569,757$ $601,175$ $350,728$ $346,533$ Mortgage $40,132$ $38,589$ $54,398$ $45,066$ Debt $44,129$ $42,711$ $57,882$ $47,553$ Change in wealth between 2000 & 2008 V V $7,123$ $7,223$ $1,011$ $6,774$ Housing macial wealth $-4,619$ $-5,723$ $1,011$ $6,774$ $6,774$ $6,7428$ $67,189$ $93,325$ $27,518$ Wealth including second residence $49,407$ $48,825$ $53,690$ $53,158$ $Mortgage$ $-5,635$ $-5,710$ $9,104$ $-30,000$ Debt $-7,123$ $-7,298$ $8,119$ $-30,000$ Debt $-30,000$ Debt $-7,123$ $-7,298$ $8,119$ $-30,000$ Annual consumption in first observation V $16,854$ $16,569$ $19,859$ $17,125$ Non-discretionary expenditures $16,352$ $16,441$ $14,381$ $18,042$ Annual change in consumption from first to last observation V V 225 -804 Non-duscretionary expenditures -287 -246 -633 -466 Housing expenditures 1 24 225 -804 Non-discretionary expenditures -331 -320 -153 -844 Non-discretionary expenditures -331 -320 -153 -844 Non-discretionary expenditures -331 -320 -153 <td>Net non-housing financial wealth</td> <td>192,177</td> <td>207,535</td> <td>76,678</td> <td>97,528</td>	Net non-housing financial wealth	192,177	207,535	76,678	97,528
Wealth including second residence $569,757$ $601,175$ $350,728$ $346,533$ Mortgage $40,132$ $38,589$ $54,398$ $45,066$ Debt $44,129$ $42,711$ $57,882$ $47,553$ Change in wealth between 2000 & 2008 $44,129$ $42,711$ $57,882$ $47,553$ Net non-housing financial wealth $-4,619$ $-5,723$ $1,011$ $6,774$ Housing wealth $67,428$ $67,189$ $93,325$ $27,518$ Wealth including second residence $49,407$ $48,825$ $53,690$ $53,158$ Mortgage $-5,635$ $-5,710$ $9,104$ $-30,000$ Debt $-7,123$ $-7,298$ $8,119$ $-30,000$ Annual consumption in first observation $-7,123$ $-7,298$ $8,119$ $-30,000$ Mordig expenditures $16,854$ $16,569$ $19,859$ $17,125$ Non-discretionary expenditures $16,352$ $16,441$ $14,381$ $18,042$ Annual change in consumption from first to last observation -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-discretionary expenditures -331 -320 -153 -844 Non-discretionary expenditures -331 -320 -153 -844 Non-discretionary expenditures -331 -320 -153 -844 Non-discretionary expenditures -331 -320 -153 </td <td>Housing wealth</td> <td>146,033</td> <td>146,962</td> <td>139,414</td> <td>139,682</td>	Housing wealth	146,033	146,962	139,414	139,682
Mortgage 40,132 38,589 54,398 45,066 Debt 44,129 42,711 57,882 47,553 Change in wealth between 2000 & 2008 -	Wealth including second residence	569,757	601,175	350,728	346,533
Debt 44,129 42,711 57,882 47,553 Change in wealth between 2000 & 2008 Net non-housing financial wealth -4,619 -5,723 1,011 6,774 Housing wealth 67,428 67,189 93,325 27,518 Wealth including second residence 49,407 48,825 53,690 53,158 Mortgage -5,635 -5,710 9,104 -30,000 Debt -7,123 -7,298 8,119 -30,000 Annual consumption in first observation -7,123 -7,298 8,119 -30,000 Durable goods 6,174 6,017 8,078 5,898 Housing expenditures 16,854 16,569 19,859 17,125 Non-discretionary expenditures 7,210 7,170 6,112 9,856 Non-durable expenditures 16,352 16,441 14,381 18,042 Annual change in consumption from first to last observation -287 -246 -633 -466 Housing expenditures -76 13 -596 -884	Mortgage	40,132	38,589	54,398	45,066
Change in wealth between 2000 & 2008Net non-housing financial wealth-4,619-5,7231,0116,774Housing wealth67,42867,18993,32527,518Wealth including second residence49,40748,82553,69053,158Mortgage-5,635-5,7109,104-30,000Debt-7,123-7,2988,119-30,000Annual consumption in first observation-7,123-7,2988,119-30,000Durable goods6,1746,0178,0785,898Housing expenditures16,85416,56919,85917,125Non-discretionary expenditures7,2107,1706,1129,856Non-durable expenditures16,35216,44114,38118,042Annual change in consumption from first to last observation-287-246-633-466Housing expenditures-7613-596-884Non-discretionary expenditures124225-804Non-durable expenditures-331-320-153-844Notes: HRS 2006 sample weights. All amounts in 2007 dollars.8337435436	Debt	44,129	42,711	57,882	47,553
Net non-housing financial wealth $-4,619$ $-5,723$ $1,011$ $6,774$ Housing wealth $67,428$ $67,189$ $93,325$ $27,518$ Wealth including second residence $49,407$ $48,825$ $53,690$ $53,158$ Mortgage $-5,635$ $-5,710$ $9,104$ $-30,000$ Debt $-7,123$ $-7,298$ $8,119$ $-30,000$ Annual consumption in first observation $-7,123$ $-7,298$ $8,119$ $-30,000$ Non-discretionary expenditures $16,854$ $16,569$ $19,859$ $17,125$ Non-discretionary expenditures $7,210$ $7,170$ $6,112$ $9,856$ Non-durable expenditures $16,352$ $16,441$ $14,381$ $18,042$ Annual change in consumption from first to last observation -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-discretionary expenditures -331 -320 -153 -844 Non-durable expenditures -331 -320 -153 -844 Notes: HRS 2006 sample weights. All amounts in 2007 dollars. $-57,23$ 54 36	Change in wealth between 2000 & 2008				
Housing wealth $67,428$ $67,189$ $93,325$ $27,518$ Wealth including second residence $49,407$ $48,825$ $53,690$ $53,158$ Mortgage $-5,635$ $-5,710$ $9,104$ $-30,000$ Debt $-7,123$ $-7,298$ $8,119$ $-30,000$ Annual consumption in first observation $-7,123$ $-7,298$ $8,119$ $-30,000$ Durable goods $6,174$ $6,017$ $8,078$ $5,898$ Housing expenditures $16,854$ $16,569$ $19,859$ $17,125$ Non-discretionary expenditures $7,210$ $7,170$ $6,112$ $9,856$ Non-durable expenditures $16,352$ $16,441$ $14,381$ $18,042$ Annual change in consumption from first to last observation -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-discretionary expenditures -331 -320 -153 -844 N 833 743 54 36	Net non-housing financial wealth	-4,619	-5,723	1,011	6,774
Wealth including second residence $49,407$ $48,825$ $53,690$ $53,158$ Mortgage $-5,635$ $-5,710$ $9,104$ $-30,000$ Debt $-7,123$ $-7,298$ $8,119$ $-30,000$ Annual consumption in first observation $-7,123$ $-7,298$ $8,119$ $-30,000$ Durable goods $6,174$ $6,017$ $8,078$ $5,898$ Housing expenditures $16,854$ $16,569$ $19,859$ $17,125$ Non-discretionary expenditures $7,210$ $7,170$ $6,112$ $9,856$ Non-durable expenditures $16,352$ $16,441$ $14,381$ $18,042$ Annual change in consumption from first to last observation -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-discretionary expenditures -331 -320 -153 -844 N 833 743 54 36 Notes: HRS 2006 sample weights. All amounts in 2007 dollars. -5635 -576 -633 -54	Housing wealth	67,428	67,189	93,325	27,518
Mortgage -5,635 -5,710 9,104 -30,000 Debt -7,123 -7,298 8,119 -30,000 Annual consumption in first observation -7,123 -7,298 8,119 -30,000 Durable goods 6,174 6,017 8,078 5,898 Housing expenditures 16,854 16,569 19,859 17,125 Non-discretionary expenditures 7,210 7,170 6,112 9,856 Non-durable expenditures 16,352 16,441 14,381 18,042 Annual change in consumption from first to last observation -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-durable expenditures -331 -320 -153 -844 N 833 743 54 36	Wealth including second residence	49,407	48,825	53,690	53,158
Debt -7,123 -7,298 8,119 -30,000 Annual consumption in first observation Durable goods 6,174 6,017 8,078 5,898 Housing expenditures 16,854 16,569 19,859 17,125 Non-discretionary expenditures 7,210 7,170 6,112 9,856 Non-durable expenditures 16,352 16,441 14,381 18,042 Annual change in consumption from first to last observation Durable goods -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-durable expenditures -331 -320 -153 -844 Non-discretionary expenditures -331 -320 -153 -844 Notes: HRS 2006 sample weights. All amounts in 2007 dollars. 833 743 54 36	Mortgage	-5,635	-5,710	9,104	-30,000
Annual consumption in first observation $6,174$ $6,017$ $8,078$ $5,898$ Durable goods $6,174$ $6,017$ $8,078$ $5,898$ Housing expenditures $16,854$ $16,569$ $19,859$ $17,125$ Non-discretionary expenditures $7,210$ $7,170$ $6,112$ $9,856$ Non-durable expenditures $16,352$ $16,441$ $14,381$ $18,042$ Annual change in consumption from first to last observation -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-discretionary expenditures -331 -320 -153 -844 N 833 743 54 36 Notes: HRS 2006 sample weights. All amounts in 2007 dollars. $-6,174$ $-6,175$ $-6,175$	Debt	-7,123	-7,298	8,119	-30,000
Durable goods 6,174 6,017 8,078 5,898 Housing expenditures 16,854 16,569 19,859 17,125 Non-discretionary expenditures 7,210 7,170 6,112 9,856 Non-durable expenditures 16,352 16,441 14,381 18,042 Annual change in consumption from first to last observation -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-durable expenditures -331 -320 -153 -844 N 833 743 54 36 Notes: HRS 2006 sample weights. All amounts in 2007 dollars. -007 dollars. -007 -007 -007	Annual consumption in first observation				
Housing expenditures16,85416,56919,85917,125Non-discretionary expenditures7,2107,1706,1129,856Non-durable expenditures16,35216,44114,38118,042Annual change in consumption from first to last observation -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-durable expenditures -331 -320 -153 -844 N 833 743 54 36 Notes: HRS 2006 sample weights. All amounts in 2007 dollars. -1637 -1637 -1637	Durable goods	6,174	6,017	8,078	5,898
Non-discretionary expenditures7,2107,1706,1129,856Non-durable expenditures16,35216,44114,38118,042Annual change in consumption from first to last observation -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures124225 -804 Non-durable expenditures -331 -320 -153 -844 N8337435436Notes: HRS 2006 sample weights. All amounts in 2007 dollars. -710 -7170 -7170 -7170	Housing expenditures	16,854	16,569	19,859	17,125
Non-durable expenditures16,35216,44114,38118,042Annual change in consumption from first to last observation-287-246-633-466Durable goods-287-24613-596-884Housing expenditures-7613-596-884Non-discretionary expenditures124225-804Non-durable expenditures-331-320-153-844N8337435436Notes: HRS 2006 sample weights. All amounts in 2007 dollars	Non-discretionary expenditures	7,210	7,170	6,112	9,856
Annual change in consumption from first to last observationDurable goods-287-246-633-466Housing expenditures-7613-596-884Non-discretionary expenditures124225-804Non-durable expenditures-331-320-153-844N8337435436Notes: HRS 2006 sample weights. All amounts in 2007 dollars	Non-durable expenditures	16,352	16,441	14,381	18,042
Durable goods -287 -246 -633 -466 Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-durable expenditures -331 -320 -153 -844 N 833 743 54 36	Annual change in consumption from first to last observation				
Housing expenditures -76 13 -596 -884 Non-discretionary expenditures 1 24 225 -804 Non-durable expenditures -331 -320 -153 -844 N 833 743 54 36	Durable goods	-287	-246	-633	-466
Non-discretionary expenditures 1 24 225 -804 Non-durable expenditures -331 -320 -153 -844 N 833 743 54 36 Notes: HRS 2006 sample weights. All amounts in 2007 dollars. - - - - - - 36	Housing expenditures	-76	13	-596	-884
Non-durable expenditures -331 -320 -153 -844 N 833 743 54 36 Notes: HRS 2006 sample weights. All amounts in 2007 dollars. 54 36	Non-discretionary expenditures	1	24	225	-804
N8337435436Notes: HRS 2006 sample weights. All amounts in 2007 dollars.	Non-durable expenditures	-331	-320	-153	-844
Notes: HRS 2006 sample weights. All amounts in 2007 dollars.	N	833	743	54	36
	Notes: HRS 2006 sample weights. All amounts in 2007 dollars.				

	Non-durables		Durables		Non-discretionary		Housing	
		Standard		Standard		Standard		Standard
	Coefficient	error	Coefficient	error	Coefficient	error	Coefficient	error
	3.1		3.2	2	3.3	3	3.	4
Kids Move Out	-0.062	0.114	0.691	0.869	-0.343	0.303	-0.146	0.135
Kids Always With	-0.053	0.080	-0.148	0.613	-0.082	0.141	0.003	0.092
Women								
Age	0.051	0.034	0.067	0.316	-0.019	0.075	0.069	* 0.039
Squared age	0.000	0.000	-0.001	0.002	0.000	0.001	-0.001	* 0.000
With less than high school degree	-0.101	0.071	1.142	0.655	-0.110	0.132	-0.063	0.084
With a high school degree	-0.042	0.051	0.553	0.479	-0.054	0.097	0.009	0.060
With some college education	-0.049	0.079	-0.194	0.964	-0.039	0.166	-0.126	0.126
Men								
Age	0.059 *	0.034	-0.010	0.312	-0.040	0.071	0.063	* 0.036
Squared age	0.000 *	0.000	0.000	0.002	0.000	0.001	0.000	0.000
With less than high school degree	-0.079	0.068	-0.180	0.664	0.058	0.136	-0.023	0.083
With a high school degree	-0.030	0.045	-1.094	0.543	0.125	0.106	-0.113	* 0.059
With some college education	0.018	0.085	-2.912	0.832	0.018	0.129	0.020	0.137
Household head								
Retired	-0.043	0.060	-0.462	0.503	-0.089	0.112	-0.059	0.070
Change in retirement status	-0.027	0.053	0.630	0.425	0.036	0.097	0.057	0.062
Black	-0.204 **	0.099	1.270	•** 0.572	-0.457 *	* 0.166	-0.058	0.101
Hispanic	-0.230	0.164	-1.250	1.019	-0.222	0.220	-0.157	0.172
Married	-1.782	1.141	-0.352	10.668	1.230	2.475	-2.292	* 1.253
Log monthly life-time earnings	0.026	0.017	-0.182	0.137	-0.031	0.026	0.049	** 0.020
Missing monthly life-time earnings	0.112	0.145	-1.978	1.212	-0.243	0.228	0.362	** 0.184
Total number of children	-0.004	0.010	-0.054	0.101	-0.018	0.019	-0.003	0.013
Constant term	-1.928 *	1.128	-0.919	10.646	1.278	2.443	-2.675	** 1.262
Ν	1440		1440		1440		1440	

Table 3. Models of Change in Consumption Behavior - Base Case, Household Level.

Notes: The first and second columns report coefficients from OLS models estimated using household level analysis weights; Huber-White standard errors, and significance at 90 (*) and 95 percent (**) levels. The dependent variable is the change in natural log of non-durable consumption, which is the sum of purchases of housekeeping supplies, personal care products, apparel, leisure and hobby items, vacations, any food purchases (including dining out), vehicle insurance and gasoline. The third and fourth columns present the OLS coefficients and standard errors where the dependent variable is the change in natural log of durable consumption, which is the sum of the purchases of large household electronics (refrigerator, washing machine, dishwasher, television set, and computer) and automobiles. The fifth and sixth columns present the OLS coefficients and standard errors where the dependent variable is the change in natural log of non-discretionary consumption, which is the sum of vehicle taxes and maintenance, health insurance and health supplies. The last two columns present the OLS coefficients and standard errors where the dependent variable is the change in natural log of housing consumption, which includes property taxes and insurance, as well as standard home expenses (mortgage/rent, electricity, water, heat, and phone). Year indicator variables are also included in the regressions.

	Non-durables		Dura	ables	Non-discretionary		Housing	
		Standard		Standard		Standard		Standard
	Coefficient	error	Coefficient	error	Coefficient	error	Coefficient	error
	4.1		4	.2	4.3		4	.4
Kids Move Out	0.409 **	0.110	0.774	0.788	0.128	0.290	0.325	** 0.138
Kids Always With	-0.051	0.080	-0.135	0.546	-0.080	0.141	0.004	0.092
Women								
Age	0.055	0.035	0.040	0.290	-0.015	0.074	0.073	* 0.039
Squared age	0.000	0.0003	-0.0004	0.002	0.00001	0.001	-0.001	* 0.0003
With less than high school degree	-0.099	0.071	1.042	* 0.618	-0.107	0.132	-0.061	0.084
With a high school degree	-0.044	0.051	0.521	0.448	-0.055	0.097	0.007	0.060
With some college education	-0.050	0.079	-0.145	0.909	-0.039	0.166	-0.127	0.126
Men								
Age	0.062 *	0.035	-0.039	0.285	-0.036	0.071	0.066	* 0.036
Squared age	-0.001 **	0.0003	0.001	0.002	0.0003	0.001	-0.0004	0.0003
With less than high school degree	-0.077	0.068	-0.206	0.623	0.059	0.136	-0.021	0.083
With a high school degree	-0.026	0.045	-1.018	** 0.510	0.128	0.106	-0.110	* 0.059
With some college education	0.019	0.085	-2.803	** 0.770	0.019	0.129	0.021	0.137
Household head								
Retired	-0.046	0.060	-0.429	0.474	-0.091	0.112	-0.061	0.071
Change in retirement status	-0.025	0.053	0.586	0.401	0.038	0.097	0.059	0.062
Black	-0.195 **	0.100	1.248	** 0.547	-0.448 **	• 0.164	-0.049	0.101
Hispanic	-0.241	0.163	-1.134	0.914	-0.232	0.218	-0.167	0.171
Married	-1.917 *	1.162	0.551	9.757	1.095	2.456	-2.426	* 1.251
Log monthly life-time earnings	0.026	0.017	-0.171	0.130	-0.031	0.026	0.049	** 0.020
Missing monthly life-time earnings	0.114	0.144	-1.868	1.161	-0.241	0.228	0.364	** 0.184
Total number of children	-0.005	0.010	-0.049	0.094	-0.020	0.019	-0.004	0.013
Constant term	-2.058 *	1.148	0.023	9.735	1.147	2.425	-2.806	** 1.260
Ν	1440		1440		1440		1440	

Table 4. Models of Change in Consumption Behavior, Per Capita Level.

Notes: The table reports coefficients from OLS models estimated using household level analysis weights; Huber-White standard errors, and significance at 90 (*) and 95 percent (**) levels. The dependent variables are the change in natural log of non-durable, durable, non-discretionary and housing consumption, as described in Table 3, divided by the number of people in the household. Year indicator variables are also included in the regressions.

	Baseline		Same	House	Working in all Waves		Children < 30 in 2000	
		Standard		Standard		Standard		Standard
	Coefficient	error	Coefficient	error	Coefficient	error	Coefficient	error
	5.1		5	.2	5.	.3	4	5.4
Kids Move Out	0.409 **	0.110	0.410	** 0.136	0.270	0.272	0.415	** 0.120
Kids Always With	-0.051	0.080	-0.103	0.094	-0.068	0.155	-0.051	0.080
Women								
Age	0.055	0.035	0.075	** 0.037	0.098	0.104	0.055	0.035
Squared age	0.000	0.0003	-0.001	* 0.000	-0.001	0.001	0.000	0.000
With less than high school degree	-0.099	0.071	0.013	0.086	-0.308	•** 0.155	-0.099	0.071
With a high school degree	-0.044	0.051	-0.038	0.065	-0.071	0.094	-0.044	0.051
With some college education	-0.050	0.079	0.059	0.115	-0.183	0.137	-0.050	0.079
Men								
Age	0.062 *	0.035	0.083	** 0.037	0.121	0.098	0.062	* 0.035
Squared age	-0.001 **	0.0003	-0.001	** 0.000	-0.001	0.001	-0.001	** 0.000
With less than high school degree	-0.077	0.068	-0.110	0.081	-0.082	0.219	-0.078	0.068
With a high school degree	-0.026	0.045	-0.031	0.055	0.113	0.095	-0.026	0.045
With some college education	0.019	0.085	0.008	0.138	0.049	0.170	0.019	0.085
Household head								
Retired	-0.046	0.060	-0.062	0.070			-0.045	0.060
Change in retirement status	-0.025	0.053	-0.021	0.062			-0.025	0.053
Black	-0.195 **	0.100	-0.220	* 0.123	0.064	0.203	-0.196	** 0.100
Hispanic	-0.241	0.163	-0.108	0.115	-0.187	0.254	-0.245	0.167
Married	-1.917 *	1.162	-2.609	** 1.217	-3.760	3.119	-1.915	* 1.165
Log monthly life-time earnings	0.026	0.017	0.029	* 0.018	0.000	0.047	0.026	0.017
Missing monthly life-time earnings	0.114	0.144	0.235	0.153	-0.089	0.443	0.113	0.145
Total number of children	-0.005	0.010	-0.005	0.013	-0.007	0.022	-0.005	0.010
Constant term	-2.058 *	1.148	-2.777	** 1.203	-3.337	3.188	-2.057	* 1.152
Ν	1440		937		226		1435	

Table 5. Robustness Checks: Change in Per Capita Non-Durable Consumption.

Notes: The table reports coefficients from OLS models estimated using household level analysis weights; Huber-White standard errors, and significance at 90 (*) and 95 percent (**) levels. The dependent variable is the change in natural log of non-durable consumption, as described in Table3, divided by the number of people in the household. Year indicator variables are also included in the regression.

Table 6. Change in Assets, Household Level.

	Debt		Mortg	Mortgage		Total wealth		Non-housing financial wealth		Housing wealth	
		Standard		Standard		Standard		Standard		Standard	
	Coefficient	error	Coefficient	error	Coefficient	error	Coefficient	error	Coefficient	error	
	6.1		6.2		6.3		6.4	Ļ	6.	5	
Kids Move Out	-0.586	0.765	-0.662	0.768	-0.589	0.590	-1.569	1.123	-0.315	0.480	
Kids Always With	0.066	0.476	0.292	0.383	-0.226	0.406	0.239	0.980	-0.569	0.321	
Women											
Age	-0.030	0.185	0.050	0.189	0.044	0.114	-0.172	0.298	-0.169	0.167	
Squared age	0.001	0.001	0.000	0.001	0.000	0.001	0.001	0.002	0.0012	0.001	
With less than high school											
degree	0.412	0.461	0.278	0.351	-0.406	0.336	-1.429	* 0.613	-0.236	0.285	
With a high school degree	0.243	0.396	0.092	0.345	-0.353	0.261	-0.831 *	0.458	-0.066	0.223	
With some college											
education	-0.014	0.797	-0.024	0.825	-0.134	0.309	-0.064	0.655	0.107	0.395	
Men											
Age	0.029	0.178	0.048	0.184	0.038	0.100	-0.136	0.287	-0.164	0.156	
Squared age	0.000	0.001	0.000	0.001	0.000	0.001	0.001	0.002	0.001	0.001	
With less than high school											
degree	-0.623	0.416	-0.470	0.416	0.399	0.250	0.976	0.708	0.133	0.275	
With a high school degree	-0.372	0.363	-0.276	0.357	0.489 **	* 0.178	1.014 *	* 0.487	-0.232	0.220	
With some college											
education	0.024	0.768	0.638	0.679	0.112	0.145	-0.153	0.737	-0.047	0.380	
Household head											
Retired	-0.330	0.384	-0.470	0.332	-0.501	0.307	-0.683	0.638	-0.215	0.214	
Change in retirement status	0.177	0.380	0.400	0.388	0.211	0.248	0.762	0.583	-0.092	0.183	
Black	-0.795	0.511	0.070	0.497	0.667	0.470	4.776 *	* 1.969	0.726 *	.339	
Hispanic	1.210 **	0.585	0.635	0.499	0.116	0.327	0.934	1.313	-0.384	0.385	
Married	-1.046	5.951	-2.220	6.229	-1.350	3.407	4.952	9.894	6.126	5.448	
Log monthly life-time earnings	0.037	0.092	-0.022	0.089	0.037	0.106	-0.130	0.140	0.142	0.093	
Missing monthly life-time earnings	0.400	0.808	-0.067	0.726	0.381	0.864	-1.228	1.262	0.958	0.770	
Total number of children	0.048	0.073	0.061	0.071	0.011	0.068	0.095	0.120	-0.093 *	0.055	
Constant term	-0.550	6.013	-2.073	6.290	-1.764	3.460	4.826	9.827	5.589	5.516	
Ν	1440		1440		1440		1440		1440		

Notes: The table reports coefficients from OLS models estimated using household level analysis weights; Huber-White standard errors, and significance at 90 (*) and 95 percent (**) levels. The dependent variables are the change in natural logs of the respective wealth or debt category. Year indicator variables are also included in the regressions.

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