## WEB APPENDIX

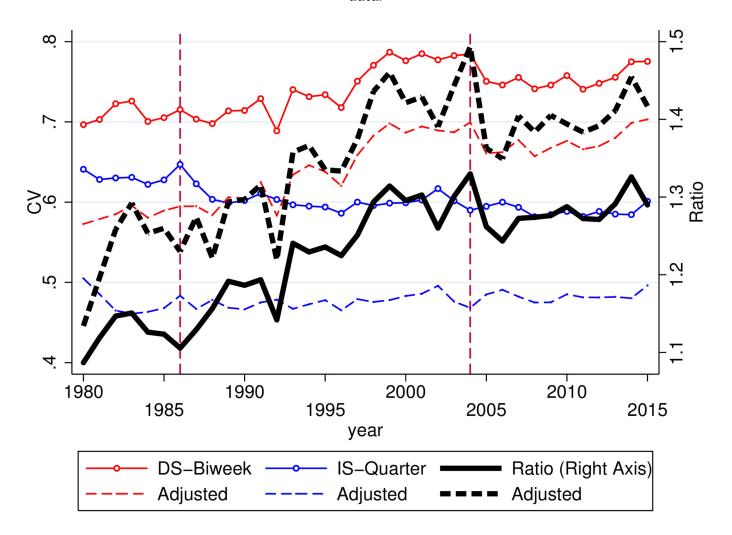
# CONSUMPTION INEQUALITY AND THE FREQUENCY OF PURCHASES

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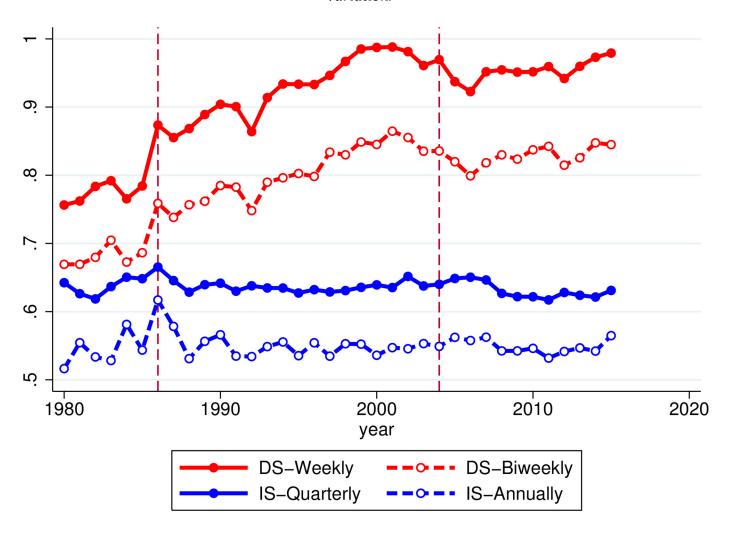
#### APPENDIX A. ADDITIONAL FIGURES AND TABLES

Appendix Figure A1. Expenditure inequality in the CEX for common set of products in the CEX and Nielsen data.



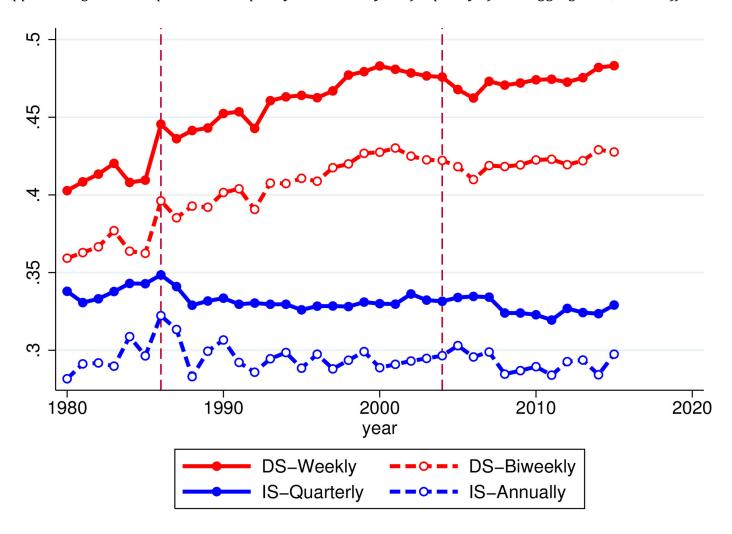
Notes: The figure plots the coefficient of variation (CV on left axis) of expenditures across households in the Diary survey (DS-biweekly) and Interview survey (IS-quarterly) over time. See section 1 for more details on the construction of these measures. The ratio of the two (DS/IS) is plotted using the bold black line and measured on the right axis. Solid lines are raw measures while dashed lines are residual measures, as described in section 1. Vertical dashed lines indicate breaks in how data are collected in the CEX. Unlike in Figure 1, the set of goods included are now restricted to be common to both the CEX surveys and the Nielsen data. The included categories are foodat-home, alcohol/tobacco, and small non-durables.

Appendix Figure A2. Expenditure inequality in the CEX by the frequency of time aggregation, coefficient of variation.

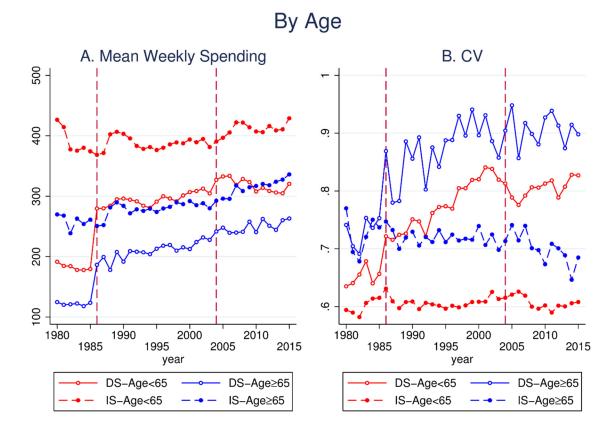


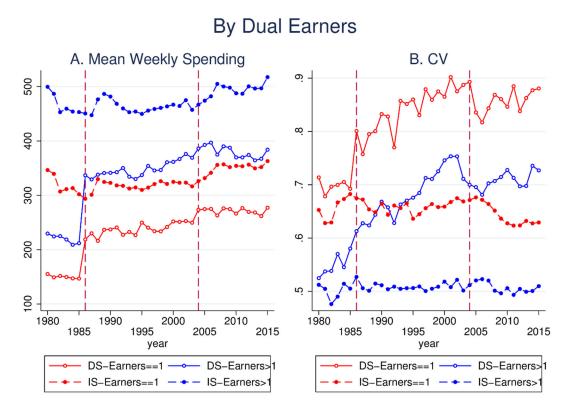
*Notes*: The figure plots the coefficient of variation (CV) of expenditures on nondurables and services across households in the Diary survey (DS-weekly and DS-biweekly) and Interview survey (IS-quarterly and IS-annual) over time. See section 3.1 for more details on the construction of these measures.

Appendix Figure A3. Expenditure inequality in the CEX by the frequency of time aggregation, Gini coefficient.



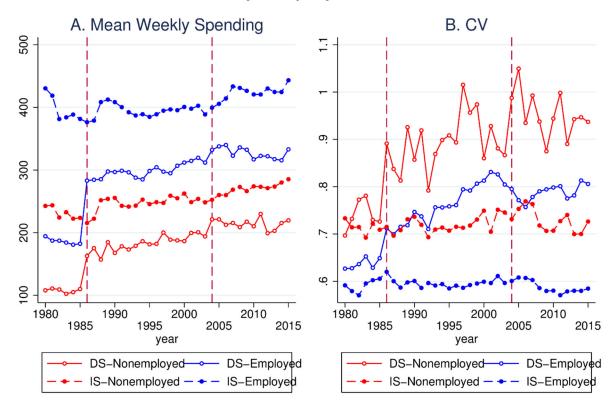
*Notes*: The figure plots the Gini coefficient of expenditures on nondurables and services across households in the Diary survey (DS-weekly and DS-biweekly) and Interview survey (IS-quarterly and IS-annual) over time. See section 3.1 for more details on the construction of these measures.



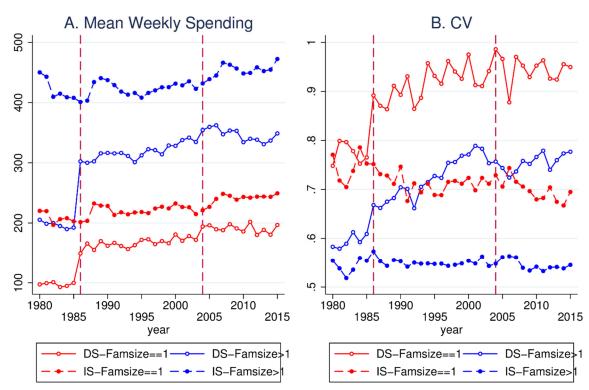


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## By Employment

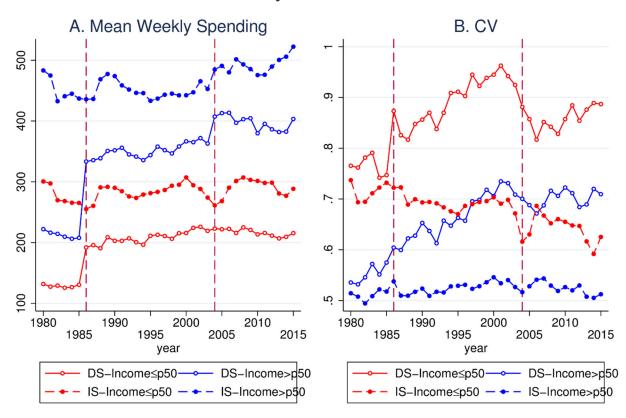


## By Family Size

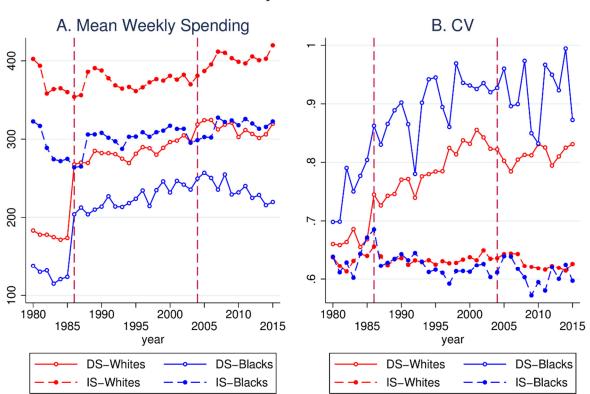


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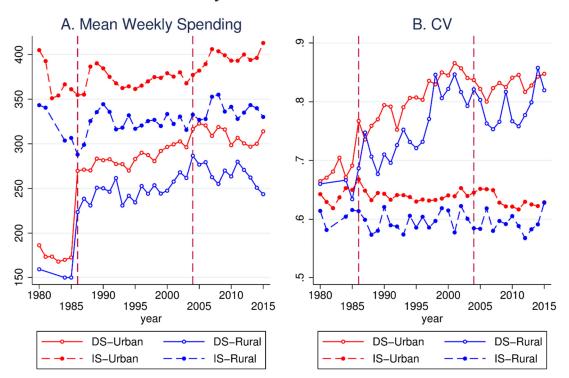
## By Income



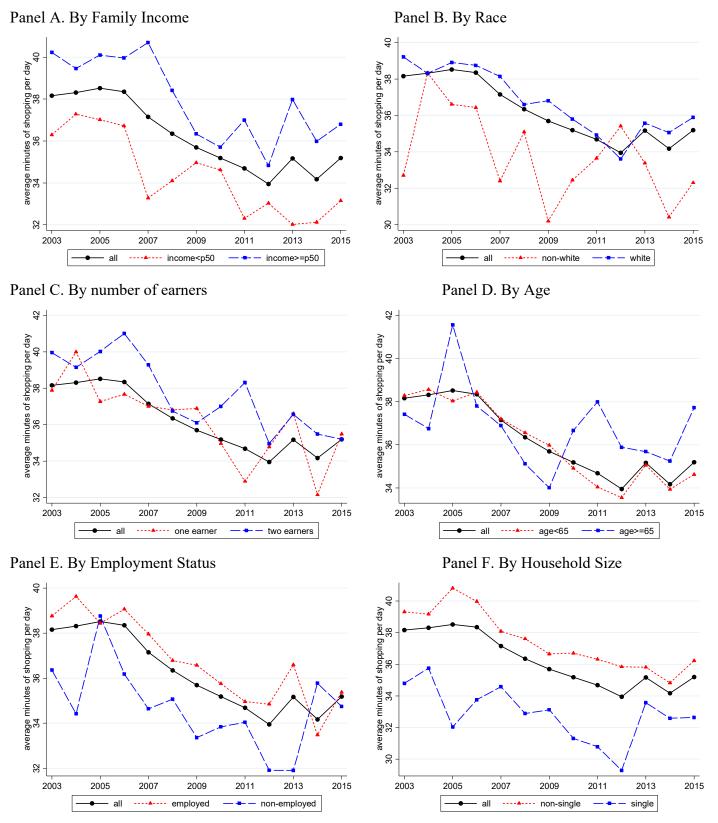




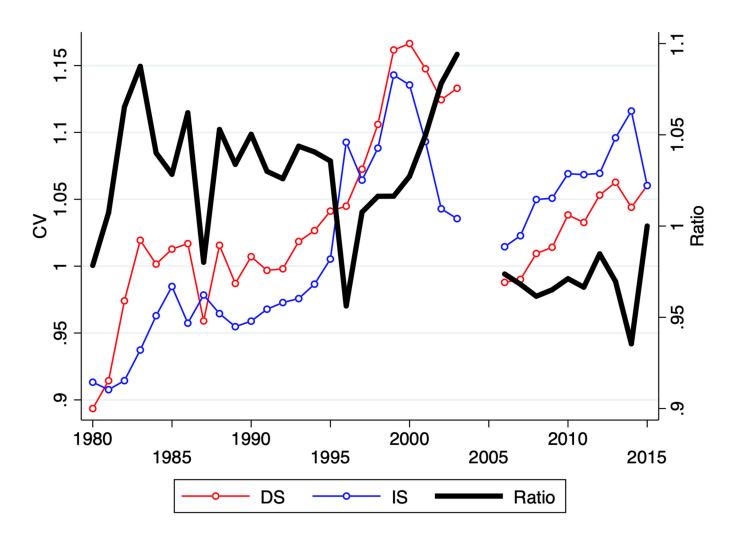
## By Urban v. Rural



Notes: The figures report cross-sectional dispersion (coefficient of variation) for and mean of expenditures on nondurables and services spending by demographic characteristics of households in the Survey of Consumer Expenditures.

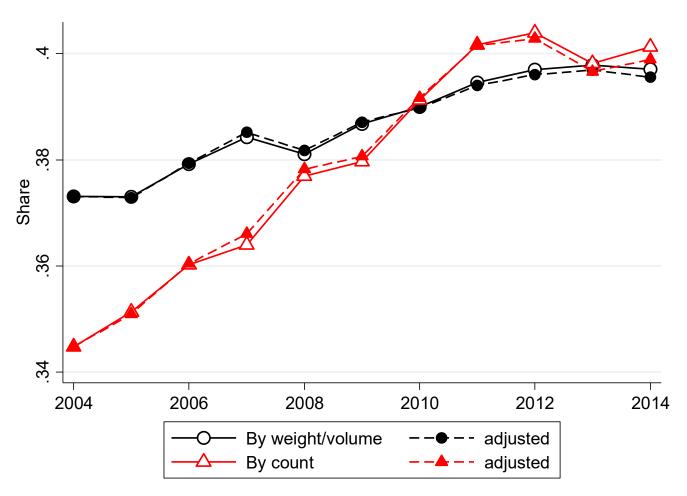


Notes: Each panel report total shopping time (includes travel and other purchase related activities).

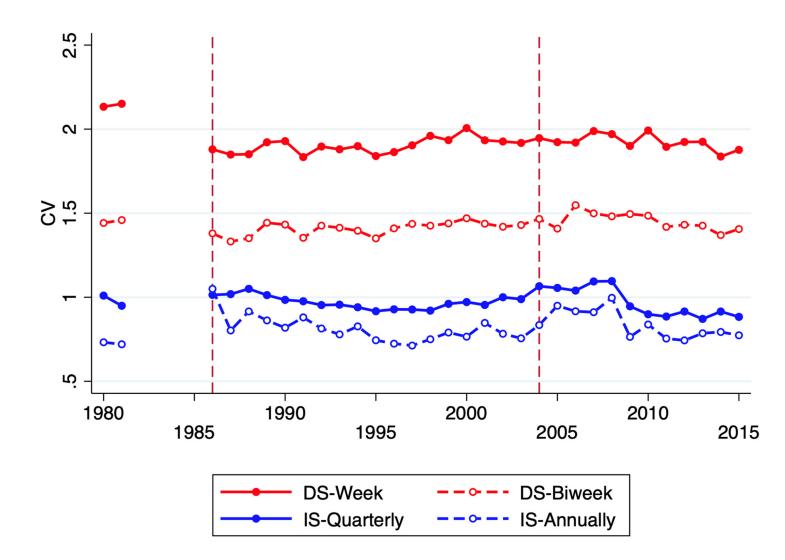


*Notes*: The figure plots the coefficient of variation (CV on left axis) of before-tax income across households in the Diary survey (DS-biweekly) and Interview survey (IS-quarterly) over time. See section 1 for more details on the construction of these measures. The ratio of the two (DS/IS) is plotted using the bold black line and measured on the right axis. In 2004-2005, only the imputation of before-tax income is available; we exclude these years for this reason.

Appendix Figure A7. Share of large-volume purchases (Alternative definition using the 75<sup>th</sup> percentile of quantity purchased in 2004)

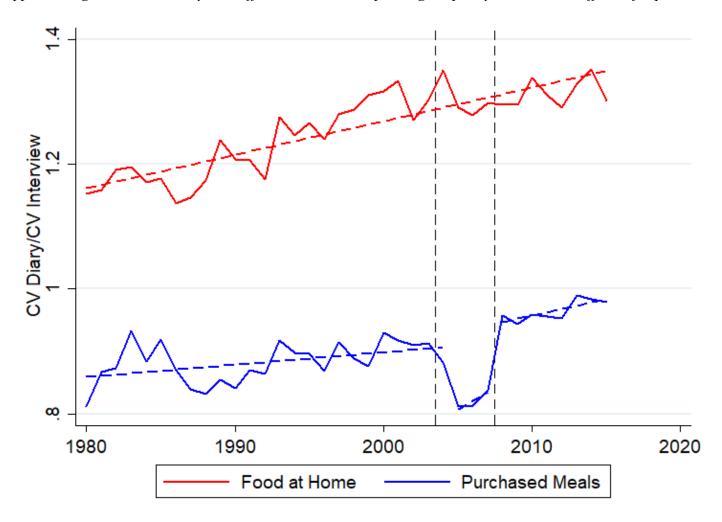


*Notes*: The figure shows the dynamics of the share of large-volume purchases in total purchases. Large-volume purchases are identified as purchases that exceed the 75<sup>th</sup> percentile of the distribution of the purchased weights or counts in 2004. Expenditure shares are used to weigh product modules. Sampling weights are used to aggregate across households. Solid lines with empty markers show the dynamics of the raw averages. Dashed lines with filled markers show the dynamics adjusted for changes in household characteristics (quadratic polynomial in the age of household head's age and a set of dummy variables for household size, employment status of household head and his/her spouse, number of children, and race). Approximately 55% of universal product codes (UPCs) are measured in ounces and 45% are measured in counts. See section 2 for details.



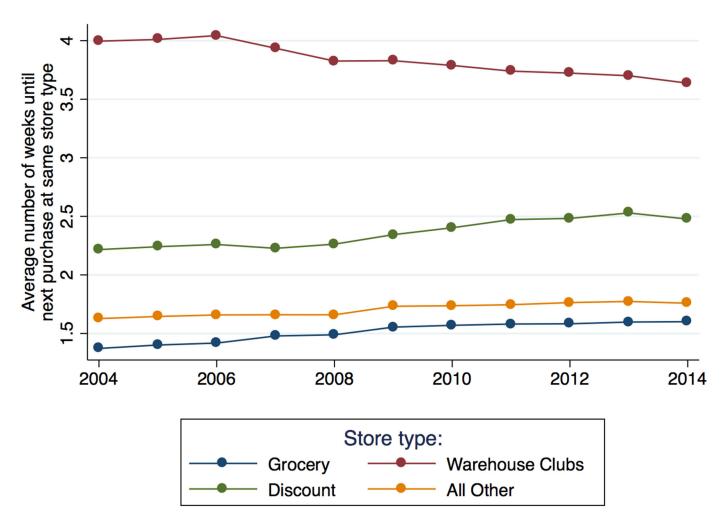
*Notes*: The figure plots the coefficient of variation (CV) of expenditures on services excluding purchased meals across households in the Diary survey (DS-weekly and DS-biweekly) and Interview survey (IS-quarterly and IS-annual) over time. Housing services were unavailable from 1982-1985; before 1986 there are few other services in the DS, so results should be interpreted with caution. See section 3.1 for more details on the construction of these measures.

Appendix Figure A9. Storability and differential trends in spending inequality measured at different frequencies.



Notes: the figure shows dynamics of the ratio of CV computed at the biweekly frequency (CV Diary) to CV computed at the annual frequency (CV Interview) for purchases of selected categories of goods. Vertical lines show breaks in the way data are collected in the Consumer Expenditure Survey (CEX). The first vertical line (year 2004) indicates when the U.S. Census Bureau introduced computers for CEX Diary collection. The second vertical line (year 2007) indicates when the survey question for purchased meals in the CEX Interview changed.

Appendix Figure A10. Shopping frequency by store type.



Notes: the figure shows the average number of weeks until the next trip to a store of the same type, e.g. grocery, warehouse club, discount or other, in the AC Nielsen data. Each line is estimated for a sample of households visiting that particular type of store in the indicated year. Time between shopping trips greater than 52 weeks (one year) are excluded (fewer than 0.5% of trips).

Appendix Table A1. Determinants of Club Store Usage

	Dep.	var.:
	Any Club Spending (Logit)	Club Share of Total Spending (OLS)
	$\frac{}{}$	(2)
Some High School	-0.0971 (1.152)	0.00238 (0.00590)
Graduated High School	0.0744 (1.149)	0.00473 (0.00347)
Some College	0.261 (1.149)	0.0135*** (0.00287)
Graduated College	0.347 (1.149)	0.0253*** (0.00287)
Post College Grad	0.365 (1.149)	0.0326*** (0.00307)
Education Unknown	0.295 (1.149)	0.0331*** (0.00378)
Black	0.152*** (0.0303)	0.00336 (0.00200)
Hispanic	-0.231*** (0.0346)	-0.0177*** (0.00305)
Middle Atlantic	-0.169*** (0.0463)	-0.00216 (0.00335)
East North Central	-0.380*** (0.0442)	-0.0184*** (0.00312)
West North Central	-0.416*** (0.0501)	-0.0163*** (0.00336)
South Atlantic	-0.0345 (0.0443)	0.000166 (0.00320)
East South Central	-0.506*** (0.0526)	-0.0246*** (0.00332)
West South Central	-0.270*** (0.0477)	-0.0101** (0.00340)
Mountain	0.425*** (0.0537)	0.0480*** (0.00443)

Pacific	0.803*** (0.0481)	0.0820*** (0.00402)
Head Age	-0.0150 (0.0753)	-0.00646 (0.00382)
$Age^2$	0.0000824 (0.00215)	0.000161 (0.000105)
$Age^3$	0.00000677 (0.0000262)	-0.00000136 (0.00000122)
$Age^4$	-6.76e-08 (0.00000115)	2.93e-09 (5.10e-09)
Household Size==2	0.381*** (0.0268)	0.0175*** (0.00179)
Household Size==3	0.421*** (0.0339)	0.0232*** (0.00243)
Household Size==4	0.528*** (0.0410)	0.0262*** (0.00314)
Household Size==6 or more	0.533*** (0.0484)	0.0300*** (0.00381)
1 Persons <18 years old	-0.0657* (0.0287)	-0.00564** (0.00205)
2 or more persons <18 years old	-0.0175 (0.0381)	0.00228 (0.00307)
1 Persons >=65 years old	0.0468 (0.0312)	0.000965 (0.00210)
2 or more Persons >=65 years old	0.267*** (0.0460)	0.0102** (0.00332)
Head Employed	-0.0499 (0.0264)	-0.00355 (0.00194)
Female Head	0.123*** (0.0292)	-0.00983*** (0.00190)
Employed Spouse	0.174*** (0.0219)	0.000279 (0.00183)
Household Income b/w \$5,000-\$7,999	-0.503*** (0.0976)	-0.0206*** (0.00451)

\$8,000-\$9,999	-0.241* (0.0989)	-0.0146** (0.00496)
\$10,000-\$11,999	-0.107 (0.0904)	-0.0123** (0.00479)
\$12,000-\$14,999	-0.0169 (0.0849)	-0.00971* (0.00470)
\$15,000-\$19,000	0.131 (0.0810)	-0.00487 (0.00461)
\$20,000-\$24,999	0.268*** (0.0787)	-0.00238 (0.00455)
\$25,000-\$29,999	0.331*** (0.0791)	0.00190 (0.00463)
\$30,000-\$34,999	0.511*** (0.0786)	0.00917* (0.00460)
\$35,000-\$39,999	0.651*** (0.0793)	0.0145** (0.00470)
\$40,000-\$44,999	0.714*** (0.0793)	0.0207*** (0.00476)
\$45,000-\$49,999	0.814*** (0.0792)	0.0255*** (0.00481)
\$50,000-\$59,999	0.870*** (0.0778)	0.0291*** (0.00466)
\$60,000-\$69,999	1.044*** (0.0789)	0.0404*** (0.00485)
\$70,000-\$99,000	1.222*** (0.0775)	0.0547*** (0.00475)
\$100,000+	1.426*** (0.0794)	0.0758*** (0.00501)
Year==2005	0.0296 (0.0192)	0.00277** (0.00106)
2006	-0.0487* (0.0225)	0.00193 (0.00131)
2007	-0.0495* (0.0214)	0.00228 (0.00128)
2008	-0.0920***	0.00284*

	(0.0228)	(0.00140)
2009	-0.0864***	0.00457**
	(0.0236)	(0.00146)
2010	-0.0962***	0.00217
	(0.0240)	(0.00148)
2011	-0.0603*	0.00699***
	(0.0244)	(0.00155)
2012	-0.0723**	0.00930***
	(0.0237)	(0.00152)
2013	-0.0580*	0.0114***
	(0.0238)	(0.00153)
2014	-0.0330	0.0122***
	(0.0232)	(0.00150)
Constant	-1.186	0.0949
Constant	(1.497)	(0.0504)
N	432,414	432,414

*Notes*: Column 1 reports the coefficients from a Logit regression of an indicator for any club store shopping on the observable demographics reported in the Table. Column 2 reports coefficients from an OLS regression of club share of Nielsen spending used in our estimation sample. Omitted categories include: Grade school, New England Census Region, Household Size==1, 0 Persons<=18, 0 Persons >=65, and Household Income under \$5,000.

## APPENDIX B. CONSTRUCTION OF THE CEX DIARY AND NIELSEN SAMPLES A. CEX Data

CEX data is downloaded from the National Bureau of Economic Research (www.nber.org/ces), and, when unavailable on NBER, from ICPSR. If a household has no reported spending during the week, we see a diary with \$0 in spending. If a second week diary was not reported, we only use the first diary in our analysis of weekly spending and drop this household in our analysis of biweekly spending.

#### B. Nielsen data

Nilesen data are made available by the Kilts Center for Marketing at the University of Chicago Booth School of Business. The public release of Nielsen data contains households that have already been filtered by Nielsen for quality. According to the Nielsen codebook:

The household must transmit the minimum required spending dollars *per four-week period*, depending on the household size, to be considered eligible for the static. All of the households in the data meet Nielsen's 12-month static requirements for each corresponding calendar. [emphasis added]

We have noticed violations of this definition and have informed the Kilts Data Center. We impose our own filter that households must have positive spending in every month. We aggregate the Nielsen data to weekly frequency. We start numbering weeks with the first full week of the year. Because the Nielsen sample design has incomplete coverage of households in the last week of the year, we focus on the first 51 full weeks for weekly analysis, and the first 50 full weeks for biweekly analysis. We impute weeks with no reported spending as \$0 spending.

#### C. Inflation-adjustment

All spending is converted to 2010 dollars using the Personal Consumption Expenditures: Chain-Type Price Index (Fred series PCEPI).

#### D. Winsorization

For all our analysis, we winsorize positive spending (after aggregating to a specified frequency of aggregation) at the 1 percent level, for the right tail of the distribution only. This winsorization is done before calculating the standard deviation and means for an indicated year. When we report the average time-series CV, this is again winsorized at the 1% level (two-sided winsorization). In our main regressions on club share, we also winsorize the club share of spending and distance to club stores (right tail only).

#### E. Crosswalk between CEX and AC Nielsen

For the crosswalk between the CEX Interview Survey (IS) and CEX Diary Survey (DS), we being with the crosswalk already developed in Bee et al. (2012)'s Appendix 1. We update it to include UCCs since 2010 and expand it to be comprehensive of all UCC codes referring to spending that ever appear in the Diary or Interview Survey. For a discussion about differences in time-varying spending coverage and quality across the two CEX surveys, see Bee et al. (2012, 2015).

Our main CEX analysis focuses on the UCCs for nondurable goods and services and excludes the "Durable Goods" as well as gasoline (due to its inconsistent coverage). We denote categories excluded from our analysis using the CEX with a "\*" in the table below. UCCs with a "†" are UCCs that we add to the Bee et al. (2012) crosswalk.

### **Appendix Table B1: Crosswalk between CEX IS and CEX DS**

Category	CEX IS UCC Code	CEX DS UCC Code
<u>Durable Goods*</u>		
New motor vehicles	<i>1980:</i> 450110 450116 450210	1986: 450110
	450216	<i>1986-2006</i> : 450210
	†870101 870102 870301 450220 870302	
	870601 870602 870605 870608	
New vehicle accessories	<i>1980</i> : 480110 480213 490501	<i>1986</i> : 480110 480212 480213
and parts	<i>2005-2010</i> : 480212 870501 870502	600903
†Used vehicles	460110 870201 870202 460901 460902	460903
Furniture and furnishings	<i>1980</i> : 290110 290120 290210	1986: 290110 290120 290210
	290310 290320 290410 290420	290310 290320 290410 290420 290440
	290440 320901 290430 340904	320901 290430 340904 320220 690242
	680320 320220 690242 690241	690241 690243 230130 320110 320120
	690243 320120 280210	280210
	<i>1980-2006</i> : 320210 320231	<i>1986-2006</i> : 320210 320231
	2007-2010: 320233	2007-2010: 320233
	<i>1980-1998</i> : 220511 220614 230132	
	320110 320162	
	<i>1999-2010</i> : 220616 230133 320111	
	†320230	
Household appliances	<i>1980</i> : 230117 230118 300111	1986: 230117 230118 300110
11	300112 300211 300212 300221	300210 300220 300310 300320 320150
	300222 300311 300312 300321	300330 300410 320511 320512 300900
	300322 320150 300331 300332	320522 320521
	300411 300412 320511 320512	†320221 300218
	320522 690245 690244 320521	
	†220612 220613 300216 300217 320221	
Glassware, tableware,	1980: 320310 320320 320330	1986: 320320 320340 320350
and	320340 320350 320370 320360	320370 320380 320310 320330
household utensils	†320345	320360
		† 320345
Outdoor equipment and	<i>1980</i> : 320410	1986: 320410
supplies		
†Hardware/ Tools	320420 320902	<i>1980</i> : 320430 320906
		<i>1986:</i> 240120
Televisions	<i>1980-2004:</i> 310110 310120 310130	<i>1986-2004</i> : 310110 310120 310130
	<i>2005-2010</i> : 310140	<i>2005-2010</i> : 310140
Audio/Video equipment	<i>1980</i> : 480214 310311 310313	<i>1986</i> : 480214 310311 310312
• •	310315 310320 490502	310313 310315 310320 310331 310332
	<i>2005-2010:</i> 310314	2005-2010: 310314
	1980-1998: 310312	†310902 310903 310900 310334 310335
	<i>1996-2010</i> : 310333	310316
	<i>1980-1995:</i> 310330	
	<i>1980-1993</i> : 480211 490500	
	†310210 310334 480215 310316	
†Computers and	<i>1982-:</i> 690110 690230 690111 690112	690119 690120
accessories	<i>2011</i> : 310400 690119 690120	
†Video games	<i>1982-</i> : 310230 310231 310232	310231 310232
Recording media	<i>1980</i> : 310220	<i>1986</i> : 310340 310220
	<i>1980-2004:</i> 310341 310342	
	<i>2005-2010</i> : 310340	
Photographic equipment	1980: 610230	1986: 610230 610903
Sporting equipment,	<i>1980</i> : 600142 600144 600210	1986: 600130 600210 600410
supplies,	600410 600420 600430 610120	600420 600430 600901 610120 610901
guns, and ammunition	<i>1980-1993:</i> 610900	
-	<i>1994-2010</i> : 600901 600902	
	†600900	
†Toys Games Hobbies	610110 610140	620913
. •		•

Bicycles and accessories	1980: 600310	1986: 600310
Dicycles and accessories	1900. 000310	1700. 000310
Pleasure boats	1980: 600121 600132 600110	<i>1986</i> : 600120 600130 600110
11000010 00000	600138 600127 870401 870402 870701 870702	1,000,000120,000110
Other recreational	1980: 600122 600128	[none]
vehicles	1980-1993: 600131 600137	[none]
, 51115155	1994-2010: 600141 600143	
	†870801 870804	
Recreational books	1980: 590220 590230 660310	1986: 590220 590230 660310
†Other books	660110 660210 660900 660901 660902 660410	1900. 590220 590230 000310
Musical instruments	1980: 610130	1986: 610130
Jewelry and watches	1980: 430110 430120	1986: 430110 430120
Telephone and facsimile	1980: 320232 690210	1986: 320232 690210
equipment	1900. 320232 090210	1700. 320232 070210
†Medical Equipment	550330	550320 550330 550340
†Property	790710 790720 810101 810102 810201 810202	1986: 220400
†Capital improvement	220512 220513 240112 240113 240122 240123	1986: 240110 240310 240320 240900 320620
materials	240212 240213 240112 240113 240122 240123	320630 320627
materiais	240212 240213 240214 240220 240222 240223 240312 240313 240322	320030 320027
	240220 240222 240223 240312 240313 240322	
	990930 990940 990950 320625 320626	
	790930 990940 990930 320023 320020	
†Other electronics	690220 520560 690115 690117 690118	690115 690117 690118
†Luggage	430130	0,011,0,011,0,0110
†Misc Durables	430130 320130 640420 320904	480211 480213
Nondurable goods	730130 320130 040420 320704	400211 400213
Food purchased for off-	1980-2006: 790220 790230	<i>1980</i> : 010110 010120 010210
premises	2007-2010: 790240	010310 010320 020110 020210 020510
consumption	†790210	020610 020810 020310 020410 020620
Consumption	1790210	020710 020810 020310 020410 020020
		030410 030510 030610 030710 030810
		040110 040210 040310 040510 040410
		040610 050110 050210 050310 050410
		050900 060110 060210 060310 070110
		070230 070240 090110 090210 100210
		100410 100510 160310 080110 160320
		160211 160212 100110 160110 110110
		110210 110310 110410 110510 120110
		120210 120310 120410 130310 140110
		140210 140220 140230 140320 140330
		140340 140310 130320 150110 150211
		150212 150310 180210 180220 180110
		180310 180320 180410 180420 180510
		180520 180620 180710 180611 180612
		1994-2010: 070210 070220 130120
		130210 160210 180610
		†190904 180720 550410
Nonalcoholic beverages	[none]	1980: 170520 170310 170410
purchased for off-	[]	130121 140410 140420 130122 130110
premises		170110 170210 170510 170531 170532
consumption		130211 130212
		2007-2010: 170533
		2006-2010: 170530
Alcoholic beverages	<i>1980-2006</i> : 790310 790320	1980: 200210 200410 200533
purchased	2007-2010: 790330	200310 200523 200111 200513
for off-premises		†200110
consumption		1-5524
Women's and girls'	<i>1980:</i> 380110 380210 380311	<i>1986</i> : 380110 380210 380311
clothing	380312 380313 380320 380331	380312 380313 380320 380331 380332
Clouming	380312 380313 380320 380331	380340 380410 380420 380430 380510
	380430 380510 380901 380902	380901 380902 390110 390120 390210
	300 130 300310 300701 300702	300701 300702 370110 370120 370210

	380903 390110 390120 390210 390221 390222 390230 390310 390321 390322 390901 390902 1980-2006: 380331 380332 390221 390222 2007-2010: 380333 390223 †380315	390221 390222 390230 390310 390321 390322 390901 1980-2006: 380331 380332 390221 390222 2007-2010: 380333 390223 †380315
Men's and boys' clothing	1980: 360110 360120 360210 360311 360312 360320 360330 360340 360350 360410 360511 360512 360901 360902 370110 370120 370130 370211 370212 370213 370220 370311 370312 370313 370902 1980-2006: 360511 360512 370312 370313 2007-2010: 360513 370314 1980-1994: 370901 1995-2010: 370903 370904 †360420 370125	1986: 360110 360120 360210 360311 360312 360320 360330 360340 360350 360410 360511 360512 360901 370110 370120 370130 370211 370212 370213 370220 370311 370312 370313 370901 370904 1986-2006: 360511 360512 370312 370313 2007-2010: 360513 370314 †360420 370125
†Baby clothes	410111 410112 410121 410122 410131 410132 410141 410142 410901 410902 410903 410905 410904	1986: 410110 410120 410130 410140
Clothing materials Shoes and other footwear	1980: 420110 420120 1980: 400110 400210 400310 400220	1986: 420110 420120 1986: 400110 400210 400310 400220
*Gasoline and other energy goods	1980: 470111 470112 470113 470211 470212 470220 250111 250112 250113 250114 250211 250212 250213 250214 250901 250902 250903 250904 250911 250912 250913 250914 250221 250222 250223 250224	1980-1981, 1986: 470111 470112 470114 470211 470220 250110 250210 250900 250220
Pets and related products	1980: 610320	1986: 610310 610320
Film and photographic supplies	1980: 610210	1986: 610210 610220
Household cleaning products	1980: 330511 1980-1998: 990910	<i>1980</i> : 320140 330110 330210 330610
Household paper products	[none]	<i>1980</i> : 330310
†Stationary/Gift Wrap, etc.		330410 660000
Household linens	1980: 280110 280120 280130 280220 280900 320904 †280140	1986: 280110 280120 280130 280220 280900 320904 †280140
Sewing items	1980: 280230 †420115	1986: 280230 †420115
Personal care products	1980: 640130 640420 †640430	1985-2010: 640110 640120 640130 640210 640220 640410 640310 640420 1986: 320130 †550210 550310 640430
Tobacco	<i>1980:</i> 630110 630210	1980: 630110 630210 630900 630220
Recreational Drugs		550900
Newspapers and periodicals	1980: 590310 590410 1980-1993: 590110 590210 1994-2010: 590111 590112 590211 590212	1986: 590110 590210 590900
†Eyeglasses	550110	550110
†Flowers/plants	320903	
†Prescription Drugs	540000	

Misc. nondurable goods		1986: 320610 610902 320905 330510
not elsewhere classified		1700. 320010 010702 320703 330310
Services		
Rent and utilities	1980: 800710 210110 230121 230141 230150 240111 240121 240211 240221 240311 240321 320611 320621 270211 270212 270213 270214 270411 270412 270413 270414 260111 260112 260113 260114 260211 260212 260213 260214 1980-1998: 230131	1986: 800710 210110 270210 270410 260110 260210 270905
	1999-2010: 230134 320163 1980-1993: 230111 †210210 210310 210901 210902 230121 240111 320161 680905 320624 790690 990920 320631	
†Mortgage Payments	830101 830102 790910	9000
Imputed rental of owner- occupied nonfarm housing	1980: 910060 910070 1980-2006: 910100 2007-2010: 910101 910102 910103 1993-2010: 910050 †910080 910090 910104 910105 910106 910107	[none]
Other motor vehicle services	1980: 450312 450412 520511 520512 520521 520522 520902 520905 520904 620907 520541 520542 1980-1993: 620907 1994-2010: 620921 620922 1980-1990: 520530 620902 1991-2010: 520531 520532 620909 620919 450310 450313 450314 450410 450413 450414 †220900 220901 220902 520550 450116 450216 450226 450906 460116 460907 460908 460909 450352 450350 450351 450353 450354 520516 520517	1986: 450310 450410 520511 520521 520902 520904 520531 520541 †450350 530903 520516
†Other Transportation	530110 530210 530311 530312 530411 530412 530510 530901 530902	
Cable and satellite television and radio services	1980: 270310 270311	1986: 270310 270311
Photo processing	1980: 620330	1986: 620330
Photo studios	1999-2010: 620320	1980: 620320
Gambling	2001-2010: 620926	2001-2010: 620926 1984-2000: 620911 1980-1981: 620901
†Entertainment	620122 620211 620212 620221 620222 620310 620903 680310 620115 620213 620214	1996: 620510 620610 620115 620213 620214
†Medical Care Services	560110 560210 560310 560320 560330 560900 570110 570210 570220 570230 560400 570240 570111	1986: 570000
Veterinary and other services for pets	1980: 620410 620420	<i>1986</i> : 620410 620420
Purchased meals and beverages	1980: 190901 190902 190903 790410 790420 790430 200900	1998-2010: 190111 190211 190311 190321 190911 190921 190112 190212 190312 190322 190912 190922 190113 190213 190313 190323 190913 190923

		190114 190214 190314 190324 190914 190924 190115 190215 190315 190325 190915 190925 190116 190216 19031 190326 190916 190926 200511 200512 200516 200521 200522 200526 200531 200532 200536 1980-1997: 190110 190210 190310 190320 190901 190902 200510 200520 200530 †190316 200514 200524 200534
Food supplied to civilians	1980: 800700	1986: 800700
Communication	1980: 270104 620930 310350 690116 270105 690114 1980-2005: 270103 2005-2010: 310240F 1980-1997: 270510 270610 1980-1990: 270000 1991-2010: 270101 270102 †270106	1986: 270000 340110 340120 310241 310242 620930 310351 310352 690116 690114
Legal services	1980: 680110	<i>1986</i> : 680110
Accounting and other business services	<i>1980:</i> 680902 001400 680903	<i>1986</i> : 680902 680903
Funeral and burial services	<i>1980:</i> 680140 680901	<i>1986</i> : 680140 680901
Personal care services	1980: 440150 620115 1980-1998: 650110 650210 650900 2005-2010: 680904 1999-2010: 650310 †440130	1980: 650900 650110 650210 1986: 440150 2005-2010: 680904
Repair and hire of footwear	1980: 440110	1986: 440110
Child care	1980-1992: 340210 1993-2010: 340211 340212	<i>1986:</i> 340210
†Elder care	340906 340910	
Household maintenance	1980: 340310 340510 440900 340630 340620 230142 340901 340907 990900 270901 270902 270903 270904 340420 340903 340914 340911 340912 790640 340915 340410 790600 †220611 220615 230112 230113 230114 230115 230116 230119 230122 230123 320622 320623 320632 790610 790611 320633 230151 230152	1986: 340310 340510 440900 340630 340620 230140 340901 340907 340913 270900 340903 340410 †220000 230000 230120 230140 230900 270900 340913 230110 220610
†Auto repair	490110 490211 490212 490220 490231 490232 490311 490312 490313 490314 490315 490411 490412 490413 490900 490317 490318 490319 490221 490300	<i>1986</i> : 490000 490316 490300
†Rental and Other Repair Services	340610 340902 340905 340908 440140 520903 520906 520907 570901 620904 620905 620906 620908 680210 620912 690113 570903 620916 620917 620918	1986: 570902 620915 340909 620810
†Real Estate Services	1980: 230901 230902 790730 790830 790840 810301 810302 820301 820302 820401 790620 820402	1986: 9900 999000 (?)
†Education Services †Other Misc. Services	670110 670210 670310 670901 670410 670903 340520 340530 440120 440210 670902 690310 690320 690330 690340 690350 850216	670903
*Non-Consumption	070320 070330 070340 070330 830210	
11011 Consumption		1

†Insurance	1980-: 220111 220112 220121 220122 350110	1986: 2120 2100 220110 220120 580000
	500110 580110 580210 580310 580901 580902	
	700110 580111 580112 580113 580114 580311	
	580312 580903 580904 580905 585906 580400	
	580907 580115 580116	
†Taxes	220210 220211 220212 950024	<i>1986</i> : 999900 950024
†Fees/Licenses	520110 520310 520410 520901 620110 620121	<i>1986</i> : 520111 520112 620710
	790630 840101 840102 450311 450411	
†Memberships/Clubs	620111 620112 620113 620114	620114
†Interest	220311 220312 510110 510901 510902 680220	
Payments/Finance	710110 850300 220313 220314 880110 880210	
Charges	880310	
†Penalties/Fines	220321 220322	620925
†Child Support/Alimony	800111 800121	5000
†Cash gifts /	800800 800803 810400 800804 800811 800821	4100 4190
Contributions	800831 800841 800851 800861	
Unidentifiable items		1986: 999935

#### F. Crosswalk between CEX and AC Nielsen

The crosswalk between the DS and AC Nielsen (Nielsen) was developed for this project, and, to the best of our understanding, has yet to be undertaken at our level of disaggregation. The smallest unit of aggregation for spending in the DS and IS is known as a Universal Classification Code (UCC). Approximately 600 UCC codes appear in the DS and IS survey across years, although some are overlapping. AC Nielsen (Nielsen) data contain over 2 million unique Universal Product Categories (UPC) codes. These codes correspond to the product's barcode, essentially representing a unique product identifier. UPCs are categorized into 1,075 product modules, 125 product groups in 10 departments. Our approach is to match the 125 Nielsen product groups to the DS UCC codes.

Our main analysis reported in the paper focuses on *non-durable* goods that have the potential to be sold in bulk. We exclude durables and clothes/soft goods, since these goods are not well represented or well-reported in Nielsen, and, while many of these goods can also be purchased at club stores, they are typically not sold or purchased in bulk. Another concern is that because these goods are relatively expensive, such purchases could inflate the club share of spending.

Note: Because Nielsen households scan the barcodes of purchases made in stores, non-barcoded items will not generally be recorded. This mainly affects fresh produce, which will be underreported in Nielsen.

The following Table provides a crosswalk between Diary UCC codes and Nielsen Product Groups used in Table 1. We indicate Nielsen Product Groups that are excluded from the Nielsen analysis with a "\*."

Appendix Table C1: Crosswalk between CEX DS and AC Nielsen

Appendix Table C1: Crosswalk between CEX DS CEX DS UCC Code	AC Nielsen Product Group
20110 WHITE BREAD	
20210 WHITE BREAD 20210 BREAD OTHER THAN WHITE	1501 BREAD AND BAKED GOODS
20410 CAKES AND CUPCAKES	
20710 DOUGHNUTS,SWEETROLLS,COFFECAKE	
20820 FRESH PIES, TARTS, TURNOVERS	2701 EDEGLIMEAT
30110 GROUND BEEF EXCLUDE CANNED	3501 FRESH MEAT
30210 CHUCK ROAST	
30310 ROUND ROAST	
30410 OTHER ROAST	
30510 ROUND STEAK	
30610 SIRLOIN STEAK	
30710 OTHER STEAK	
30810 OTHER BEEF (EXCLUDE CANNED)	
40110 BACON	
40210 PORK CHOPS	
40310 HAM (EXCLUDE CANNED)	
40410 OTHER PORK	
40510 PORK SAUSAGE	
50410 LAMB AND ORGAN MEATS	
50900 MUTTON, GOAT, GAME	
60110 FRESH & FROZEN WHOLE CHICKEN	
60210 FRESH OR FROZEN CHICKEN PARTS	
60310 OTHER POULTRY	
70210 FRESH AND FROZEN SHELLFISH (1984-85)	
70220 FRESH AND FROZEN FISH (1984-85)	
70230 FRESH FISH & SHELLFISH	
40610 CANNED HAM	3002 PACKAGED MEATS-DELI
50110 FRANKFURTERS	
50210 BOLOGNA, LIVERWURST, SALAMI	
50310 OTHER LUNCHMEAT	
80110 EGGS	2505 EGGS
90110 FRESH MILK ALL TYPES	2506 MILK
90210 CREAM	
100110 BUTTER	2501 BUTTER AND MARGARINE
160110 MARGARINE	
100210 CHEESE	2502 CHEESE
100510 OTHER DAIRY PRODUCTS	2503 COT CHEESE, SOUR CREAM, TOPPINGS
	2507 PUDDING, DESSERTS-DAIRY
	2508 SNACKS, SPREADS, DIPS-DAIRY
	2510 YOGURT
110110 APPLES	4001 FRESH PRODUCE [Note: this is only packaged
110210 BANANAS	fresh produce, since it must have a barcode]
110310 ORANGES	-
110410 OTHER FRESH FRUITS	
110510 CITRUS FRUITS EXCL. ORANGES	
120110 POTATOES	
120210 LETTUCE	
120310 TOMATOES	
120410 OTHER FRESH VEGETABLES	
140340 OTHER VEGETABLES MISC	
130110 FROZEN ORANGE JUICE	2006 JUICES, DRINKS-FROZEN
130122 FROZEN FRUIT JUICES	, and the second
130121 FROZEN FRUITS	2003 DESSERTS/FRUITS/TOPPINGS-FROZEN
130120 FROZEN FRUIT, OTH. FRUIT JUICE (1984)	
130211 FRESH FRUIT JUICE	507 JUICE, DRINKS - CANNED, BOTTLED
130210 FRSH/CANNED/BOTTLED FRUT JUICE (1984)	
130212 CANNED/BOTTLE FRUIT JUICE	
140420 FRESH & CANNED VEGETABLE JUICES	
1 10 120 TRESTA CHARLED VEGETABLE JUICES	

170510NONCARB FRUT FLAV/LEMADE NONFROZ140320OTHER PEAS1021VEGETABLES AND GRAINS - DRIED140330OTHER BEANS180610PREPARED SALADS/DESSERTS3001DRESSINGS/SALADS/PREP FOODS-D	
140330 OTHER BEANS	
180610 PREPARED SALADS/DESSERTS 3001 DRESSINGS/SALADS/PREP FOODS-D	
	ELI
180611 PREPARED SALADS	
180710 MISC. PREPARED FOODS 510 PREPARED FOOD-READY-TO-SERVE	
10110 FLOUR 1009 FLOUR	
10120 PREPARED FLOUR MIXES 511 PREPARED FOOD-DRY MIXES	
1001 BAKING MIXES	
1002 BAKING SUPPLIES	
10210 CEREAL 1005 CEREAL	
1004 BREAKFAST FOOD	
10310 RICE 1021 VEGETABLES AND GRAINS – DRIED	
10320 PASTA CORNMEAL OTH CEREAL PRODS 1013 PASTA	
20510 COOKIES 1505 COOKIES	
20610 CRACKERS 1506 CRACKERS	
20620 BREAD AND CRACKER PRODUCTS	
20810 FROZEN & REFRIG. BAKERY PROD. 2001 BAKED GOODS-FROZEN	
2501 PROZEN & REFRIG. BARERT FROD.  2501 BARED GOODS-FROZEN  2504 DOUGH PRODUCTS	
70110 CANNED FISH AND SEAFOOD 512 SEAFOOD – CANNED	ED Z
70240 FROZEN FISH & SHELLFISH 2009 UNPREP MEAT/POULTRY/SEAFOOD-	FRZN
100410 ICE CREAM AND RELATED PRODUCTS 2005 ICE CREAM, NOVELTIES	
130310 CANNED FRUITS 504 FRUIT - CANNED	
130320 DRIED FRUITS 1010 FRUIT - DRIED	
140110 FROZEN VEGETABLES 2010 VEGETABLES-FROZEN	
140410 FROZEN VEGETABLE JUICES	
140210 CANNED BEANS 514 VEGETABLES - CANNED	
140220 CANNED CORN	
140230 CANNED VEGETABLES MISC	
1 1/0210 OTHED DDOCESSED VEGETADIES	
140310 OTHER PROCESSED VEGETABLES	
150110 CANDY AND CHEWING GUM 503 CANDY	
150110 CANDY AND CHEWING GUM 503 CANDY 505 GUM	
150110 CANDY AND CHEWING GUM 503 CANDY 505 GUM 150211 SUGAR 1018 SUGAR, SWEETENERS	
150110 CANDY AND CHEWING GUM 503 CANDY 505 GUM 150211 SUGAR 150212 ARTIFICIAL SWEETENERS  503 CANDY 505 GUM 1018 SUGAR, SWEETENERS	
150110 CANDY AND CHEWING GUM         503 CANDY 505 GUM           150211 SUGAR         1018 SUGAR, SWEETENERS           150212 ARTIFICIAL SWEETENERS         1008 DESSERTS, GELATINS, SYRUP	
150110 CANDY AND CHEWING GUM 503 CANDY 505 GUM 150211 SUGAR 150212 ARTIFICIAL SWEETENERS 150310 OTHER SWEETS 1008 DESSERTS, GELATINS, SYRUP 1019 TABLE SYRUPS, MOLASSES	
150110 CANDY AND CHEWING GUM 503 CANDY 505 GUM 150211 SUGAR 150212 ARTIFICIAL SWEETENERS 150310 OTHER SWEETS 1008 DESSERTS, GELATINS, SYRUP 1019 TABLE SYRUPS, MOLASSES 160210 OTH FATS/OILS/SALAD DRESSINGS 1016 SHORTENING, OIL	
150110 CANDY AND CHEWING GUM 503 CANDY 505 GUM 150211 SUGAR 150212 ARTIFICIAL SWEETENERS 150310 OTHER SWEETS 1008 DESSERTS, GELATINS, SYRUP 1019 TABLE SYRUPS, MOLASSES	
150110 CANDY AND CHEWING GUM 503 CANDY 505 GUM 150211 SUGAR 150212 ARTIFICIAL SWEETENERS 150310 OTHER SWEETS 1008 DESSERTS, GELATINS, SYRUP 1019 TABLE SYRUPS, MOLASSES 160210 OTH FATS/OILS/SALAD DRESSINGS 1016 SHORTENING, OIL	3S
150110 CANDY AND CHEWING GUM         503 CANDY 505 GUM           150211 SUGAR         1018 SUGAR, SWEETENERS           150212 ARTIFICIAL SWEETENERS         1008 DESSERTS, GELATINS, SYRUP 1019 TABLE SYRUPS, MOLASSES           160210 OTH FATS/OILS/SALAD DRESSINGS 160211 FATS & OILS         1016 SHORTENING, OIL	GS
150110 CANDY AND CHEWING GUM	SS
150110 CANDY AND CHEWING GUM       503 CANDY         505 GUM       505 GUM         150211 SUGAR       1018 SUGAR, SWEETENERS         150212 ARTIFICIAL SWEETENERS       1008 DESSERTS, GELATINS, SYRUP         150310 OTHER SWEETS       1019 TABLE SYRUPS, MOLASSES         160210 OTH FATS/OILS/SALAD DRESSINGS       1016 SHORTENING, OIL         160211 FATS & OILS       1015 SALAD DRESSINGS, MAYO, TOPPING         160310 NON-DIARY CREAM SUBSTITUTES       1012 PACKAGED MILK AND MODIFIERS         160320 PEANUT BUTTER       506 JAMS, JELLIES, SPREADS	SS
150110 CANDY AND CHEWING GUM	SS
150110 CANDY AND CHEWING GUM	SS
150110 CANDY AND CHEWING GUM   503 CANDY   505 GUM     150211 SUGAR   1018 SUGAR, SWEETENERS   150212 ARTIFICIAL SWEETENERS   1008 DESSERTS, GELATINS, SYRUP   1019 TABLE SYRUPS, MOLASSES   160210 OTH FATS/OILS/SALAD DRESSINGS   1016 SHORTENING, OIL   160211 FATS & OILS   160212 SALAD DRESSINGS   1015 SALAD DRESSINGS, MAYO, TOPPING   160310 NON-DIARY CREAM SUBSTITUTES   1012 PACKAGED MILK AND MODIFIERS   160320 PEANUT BUTTER   506 JAMS, JELLIES, SPREADS   170110 COLA DRINKS   1503 CARBONATED BEVERAGES   170210 OTHER CARBONATED DRINKS   1506 COFFEE   1006	GS .
150110   CANDY AND CHEWING GUM   503   CANDY   505   GUM     150211   SUGAR   1018   SUGAR, SWEETENERS   150212   ARTIFICIAL SWEETENERS   1008   DESSERTS, GELATINS, SYRUP   1019   TABLE SYRUPS, MOLASSES   160210   OTH FATS/OILS/SALAD DRESSINGS   1016   SHORTENING, OIL   160211   FATS & OILS   160212   SALAD DRESSINGS   1015   SALAD DRESSINGS, MAYO, TOPPING   160310   NON-DIARY CREAM SUBSTITUTES   1012   PACKAGED MILK AND MODIFIERS   160320   PEANUT BUTTER   506   JAMS, JELLIES, SPREADS   170110   COLA DRINKS   1503   CARBONATED BEVERAGES   170210   OTHER CARBONATED DRINKS   1503   CARBONATED BEVERAGES   170310   ROASTED COFFEE   1006   COFFEE   170410   INSTANT/FREEZE DRIED COFFEE   1006   COFFEE   170410   INSTANT/FREEZE DRIED COFFEE   1006   COFFEE   170410   INSTANT/FREEZE DRIED COFFEE   1006   COF	GS .
150110   CANDY AND CHEWING GUM   503   CANDY   505   GUM     150211   SUGAR   1018   SUGAR, SWEETENERS     150212   ARTIFICIAL SWEETENERS   1008   DESSERTS, GELATINS, SYRUP     1019   TABLE SYRUPS, MOLASSES     160210   OTH FATS/OILS/SALAD DRESSINGS   1016   SHORTENING, OIL     160211   FATS & OILS   1015   SALAD DRESSINGS, MAYO, TOPPING     160212   SALAD DRESSINGS   1015   SALAD DRESSINGS, MAYO, TOPPING     160310   NON-DIARY CREAM SUBSTITUTES   1012   PACKAGED MILK AND MODIFIERS     160320   PEANUT BUTTER   506   JAMS, JELLIES, SPREADS     170110   COLA DRINKS   1503   CARBONATED BEVERAGES     170210   OTHER CARBONATED DRINKS   1503   CARBONATED BEVERAGES     170310   ROASTED COFFEE   1006   COFFEE     170410   INSTANT/FREEZE DRIED COFFEE   1020   TEA     1020   TEA	SS
150110 CANDY AND CHEWING GUM	GS
150110 CANDY AND CHEWING GUM	SS
150110 CANDY AND CHEWING GUM	GS
150110 CANDY AND CHEWING GUM	SS
150110 CANDY AND CHEWING GUM	SS
150110 CANDY AND CHEWING GUM	SS
150110 CANDY AND CHEWING GUM	
150110 CANDY AND CHEWING GUM	
150110 CANDY AND CHEWING GUM	
150110   CANDY AND CHEWING GUM   503   CANDY   505   GUM     150211   SUGAR   1018   SUGAR, SWEETENERS     150212   ARTIFICIAL SWEETENERS   1008   DESSERTS, GELATINS, SYRUP     160210   OTHER SWEETS   1016   SHORTENING, OIL     160211   FATS & OILS   1016   SHORTENING, OIL     160212   SALAD DRESSINGS   1015   SALAD DRESSINGS, MAYO, TOPPING     160310   NON-DIARY CREAM SUBSTITUTES   1012   PACKAGED MILK AND MODIFIERS     160320   PEANUT BUTTER   506   JAMS, JELLIES, SPREADS     170110   COLA DRINKS   1503   CARBONATED BEVERAGES     170310   ROASTED COFFEE   1006   COFFEE     170410   INSTANT/FREEZE DRIED COFFEE   1006   COFFEE     170520   TEA   1020   TEA     170530   OTHER NONCARB. BEVERAGES/ICE   1508   SOFT DRINKS-NON-CARBONATED     170531   OTHER NONCARB. BEVERAGES/ICE   1508   SOFT DRINKS-NON-CARBONATED     170533   SPORTS DRINKS   2004   ICE     170533   SPORTS DRINKS   180210   FROZEN MEALS   2008   PREPARED FOODS-FROZEN     180210   FROZEN MEALS   2002   BREAKFAST FOODS-FROZEN     180310   POTATO CHIPS AND OTHER SNACKS   1507   SNACKS     180320   NUTS   1011   NUTS	
150110   CANDY AND CHEWING GUM   503   CANDY   505   GUM     150211   SUGAR   1018   SUGAR, SWEETENERS     150212   ARTIFICIAL SWEETENERS   1008   DESSERTS, GELATINS, SYRUP     1019   TABLE SYRUPS, MOLASSES     160210   OTH FATS/OILS/SALAD DRESSINGS   1016   SHORTENING, OIL     160211   FATS & OILS	
150110 CANDY AND CHEWING GUM	ZN
150110   CANDY AND CHEWING GUM	ZN
150110 CANDY AND CHEWING GUM	ZN

180620 BABY FOOD	501	BABY FOOD
180720 VITAMIN SUPPLEMENTS	6018	VITAMINS
550410 NONPRESCRIPTION VITAMINS	6005	DIET AIDS
200110 BEER AND ALE AT HOME	5001	BEER
200111 BEER AND ALE AT HOME		
200112 NON ALCOHOLIC BEER		
200210 WHISKEY AT HOME	5002	LIQUOR
200410 OTHER ALCOHOLIC BEV. AT HOME		
200310 WINE AT HOME	5003	WINE
630110 CIGARETTES	4510	TOBACCO & ACCESSORIES
630210 OTHER TOBACCO PRODUCTS	1310	Tobrices & TreeEssoraes
630220 SMOKING ACCESSORIES		
330110 SOAPS AND DETERGENTS	4501	DETERGENTS
330210 OTHER LAUNDRY /CLEANING PRODS.	4506	LAUNDRY SUPPLIES
320140 LAUNDRY AND CLEANING EQUIP.	4504	HOUSEHOLD CLEANERS
320140 LAUNDKT AND CLEANING EQUIF.	4503	
220210 DADED TOWELC'NIA DIZINIC/TOLLET TI		FRESHENERS AND DEODORIZERS
330310 PAPER TOWELS/NAPKINS/TOILET TI	4507	PAPER PRODUCTS
330510 MISC HOUSEHOLD PRODUCTS	4505	HOUSEHOLD SUPPLIES
320610 MISC. SUPPLIES AND EQUIPMENT	5502	BATTERIES AND FLASHLIGHTS
320905 MISC. HOUSEHOLD EQUIP/PARTS		
550210 OVER-THE-COUNTER DRUGS	6012	MEDICATIONS/REMEDIES/HEALTH AIDS
640430 ADULT DIAPERS	6003	COUGH AND COLD REMEDIES
	6017	SKIN CARE PREPARATIONS
	6008	FIRST AID
610310 PET FOOD	508	PET FOOD
610320 PET-PURCHASE/SUPPLIES/MEDICINE	4509	PET CARE
640110 HAIR CARE PRODUCTS	6011	HAIR CARE
	6006	ETHNIC HABA
640210 ORAL HYGIENE PRODUCTS, ARTICLES	6014	ORAL HYGIENE
640220 SHAVING NEEDS	6016	SHAVING NEEDS
640310 COSMETICS, PERFUME, BATH PREP	6002	COSMETICS
o topic o committee, i min on in, printing i	6009	FRAGRANCES – WOMEN
	4508	PERSONAL SOAP AND BATH ADDITIVES
640120 NON-ELEC ARTICLES FOR THE HAIR	6010	GROOMING AIDS
640410 DEOD,FEM HYG, MISC. PERS. CARE	6004	DEODORANT
040410 DEOD, LWI III G, WIISC. LERS. CARE	6007	FEMININE HYGIENE
	6013	MEN'S TOILETRIES
	6001	BABY NEEDS
	6015	SANITARY PROTECTION
	4502	DISPOSABLE DIAPERS
260211 MENG LINDEDWEAD	*5501	COET COODS
360311 MENS UNDERWEAR	*5521	
360312 MENS HOSIERY	*5512	HOSIERY/SOCKS
370211 BOYS UNDERWEAR		
370213 BOYS HOSIERY		
380420 WOMENS UNDERGARMENTS		
380430 WOMENS HOSIERY		
390321 GIRLS HOSIERY		
410110 INFANT COAT/JACKET/SNOWSUIT		
410120 INFANT DRESSES/OUTERWEAR		
410130 INFANT UNDERGARMENTS		
410140 INFANT NIGHTWEAR/LOUNGEWEAR		
410901 INFANTS ACCESSORIES		
280110 BATHROOM LINENS		
280120 BEDROOM LINENS		
280130 KITCHEN AND DINING ROOM *LINENS		
280210 CURTAINS AND DRAPES		
280220 SLIPCOVERS/DECORATIVE PILLOWS		
280900 OTHER LINENS		
280140 KITCHEN/DINING ROOM/OTHR LINENS		

280230 SEWING MATERIALS 40120 SPEWING NOTIONS, PATTERNS 300110 REFERCERATOR, HOME FREEZER 300210 MASHERS 300210 WASHERS 300210 MYSHERS 300210 WASHERS 300210 WASHERS 300210 WASHERS 300210 MYSHES 3002			
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320420 POWER TOOLS 320430 OTHER HARDWARE			
320430 OTHER HARDWARE			
320902 HAND TOOLS			
	320902 HAND TOOLS		

350904 CLOSET AND STORAGE TIEMS		
30380 TABLEWAREANON-ELEC, KITWARE   #5515   KITCHEN GADGETS   \$20310 FLASTIC DINNTRW WARE   \$30340 FLASTIC DINNTRW WARE   \$30340 FLASTIC DINNTRW WARE   \$30340 FLASTIC DINNTRW WARE   \$30340 FLASTIC DINNTRW RE   \$30340 FLASTIC DINNTRW RE   \$30340 FLASTIC DINNTRW RE   \$30450 OTHER SERVINO PIECES   \$30340 SINSERSCUPS/GLASSESSERVING PIECS   \$508 ELORAL, GARDENING   \$34410 STATIONERY, GIFTWARP, ETC.   \$4511 WARPING MATERIALS AND BAGS   \$66010 SCHOOL BKSUPL/EQUIP FOR COLLEGE   \$66010 SCHOOL BKSUPL/EQUIP FOR COLLEGE   \$66010 SCHOOL BKSUPL/EQUIP FOR ELEM/HS   \$4511 WARPING MATERIALS AND BAGS   \$45010 WARTING RESERVED   \$45010 WARPING MATERIALS AND BAGS   \$45010 WARPING WAR	320904 CLOSET AND STORAGE ITEMS	
30210 PLASTIC DINNERWARE   30230 FLATWARE   30230 FLATWARE   30230 FLATWARE   30230 FLATWARE   30230 FLATWARE   30230 FLATWARE   3023040 GLASWARE   3023040 GLASWAR	320220 TABLEWARE/NON-ELEC. KITWARE	
320320 CHINA AND OTHER DINNERWARE	320380 TABLEWARE/NON-ELEC. KITWARE	*5515 KITCHEN GADGETS
320390 FLATWARE   320340 GLASSWARE   320340 OLASSWARE   320340 OLASSWARE   320340 OLASSWARE   330610 LAWN AND GARDEN SUPPLIES   5508 FLORAL, GARDENING   530410 STATIONERY, GIFTWRAP, ETC.   4511 WARPPING MATERIALS AND BAGS   560610 SCHOOL SEVENPLE, ETC UNSPEC.   5522 STATIONERY, SCHOOL SUPPLIES   5500 SCHOOL SEVENPLEQUIP FOR COLLEGE   5510 GRT CARRSPARTY NEEDS/NOVELTIES   5510 GRT CARRSPARTY NEEDS/NOVELTIES   5510 GRT CARRSPARTY NEEDS/NOVELTIES   5510 GRT CARRSPARTY NEEDS/NOVELTIES   5501 AUTOMOTIVE   5521 AUTOMOTIVE   5521 AUTOMOTIVE   5521 AUTOMOTIVE   5521 AUTOMOTIVE   5520 AUTOMOTIVE	320310 PLASTIC DINNERWARE	*5504 CANNING, FREEZING SUPPLIES
320349 GLASSWARE   320369 GUNER SIRVING PIECES   320369 GUNER SIRVING PIECES   320369 GUNER SIRVING PIECES   320370 NONELECTRIC COOKWARE   5508   FLORAL, GARDENING   5514   INSECTICDS/PESTICDS/PODENTICDS   5506   60000   SCHOOL SUPPLIES   5508   FLORAL, GARDENING   5514   INSECTICDS/PESTICDS/PODENTICDS   5514   INSECTICDS/PESTICDS/PODENTICDS   5514   INSECTICDS/PESTICDS/PODENTICDS   5514   INSECTICDS/PESTICDS/PE	320320 CHINA AND OTHER DINNERWARE	
320349 GLASSWARE   320369 GUNER SIRVING PIECES   320369 GUNER SIRVING PIECES   320369 GUNER SIRVING PIECES   320370 NONELECTRIC COOKWARE   5508   FLORAL, GARDENING   5514   INSECTICDS/PESTICDS/PODENTICDS   5506   60000   SCHOOL SUPPLIES   5508   FLORAL, GARDENING   5514   INSECTICDS/PESTICDS/PODENTICDS   5514   INSECTICDS/PESTICDS/PODENTICDS   5514   INSECTICDS/PESTICDS/PODENTICDS   5514   INSECTICDS/PESTICDS/PE	320330 FLATWARE	
320350 SILVER SERVING PIECES   320345 DISHES EBEVING PIECES   320345 DISHES/CUPS/GLASSES/SERVING PIECS   5508   E.ORAL, GARDENING   330410 STATIONERY, GIFTWARP, FTC   4511   MSECTICDS/PESTICDS/RODENTICDS   450110 SCHOOL BK/SUPL/EQUIF FOR COLLEGE   5310   GRIT CARDS/PARTY NEEDS/NOVELTIES   660210 SCHOOL BK/SUPL/EQUIF FOR COLLEGE   5510   GRIT CARDS/PARTY NEEDS/NOVELTIES   480212 PARTS/EQUIP/ACCESSORIES   480219 PARTS/		
320345 DISHESCUPSGILASSESSERVING PIECS		
320439 NONELECTRIC COOKWARE		
320370 NONELECTRIC COOKWARE		
330610 LAWN AND GARDEN SUPPLIES		*550( COOKWADE
\$514   INSECTICDS/REDITICDS/RODILOTICDS		
330410   STATIONERY, GIFTWRAP, ETC.   4511   WRAPPING MATERIALS AND BAGS   660000 SCHOOL SUPPL, ETC UNSPEC.   5522   STATIONERY, SCHOOL SUPPLIES   660110   SCHOOL BK/SUPL/EQUIP FOR COLLIGE   5510   GRT CARDS/PARTY NEEDS/NOVELTIES   660120   SCHOOL BK/SUPL/EQUIP FOR ELEM/IIS   430110 WATCHES   49599   UNGROUPED ITEMS   430212 VEHICLE PRODUCTS   430213 PARTS/EQUIP/ACCESSORIES   430212 PARTS/EQUIP/ACCESSORIES   430213 PARTS/EQUIP/ACCESSORIES   430210 MAGAZINES   590110 NEWSPAPERS   4*5503   BOOKS AND MAGAZINES   590210 MAGAZINES   590220 BOOKS THRU BOOK CLUBS   590230 BOOKS THRU BOOK CLUBS   600210 GENERAL SPORT/EXCERCISE EQUIP   600310 BIC/CLES   600410 CAMPING EQUIPMENT   600420 HUNTING, FISHING EQUIPMENT   600420 HUNTING, FISHING EQUIPMENT   6004300 WINTER SPORT EQUIPMENT   6004000 WATER SPORT EQUIPMENT   6004000 WATER SPORT EQUIPMENT   601030 MUSIC INSTRUMENT/S/ACCESSORIES   610210 FILM   5517 PHOTOGRAPHIC SUPPLIES   610220 OTHER PHOTOGRAPHIC SUPPLIES   610220 OTHER PHOTOGRAPHIC SUPPLIES   75503 SINGLASSUS   75503 CHARCOAL, LOGS, ACCESSORIES   40110 SHOE REPAIR, OTH SHOE SERVICE   45503 SHOE CARE   75000 ALMONY AND CHILD SUPPORT   750110 LUNCH   750111 Lunch at Fall Service   750112 Lunch at Full Service   750112 Lunch at Full Service   750113 Lunch at Vending Machine   750111 Lunch at Catered Affairs   750110 LUNCH   750111 Lunch at Catered Affairs   75011 LUNCH   75011	330610 LAWN AND GARDEN SUPPLIES	
\$510   GRYOOL BK:SUPL/EQUIP FOR COLLEGE		
460210 SCHOOL BK/SUPLEQUIP FOR ELEM/HS		
490110 WATCHES	660110 SCHOOL BK/SUPL/EQUIP FOR COLLEGE	5510 GRT CARDS/PARTY NEEDS/NOVELTIES
480211 PARTS/FQUIP/ACCESSORIES   *5501 AUTOMOTIVE	660210 SCHOOL BK/SUPL/EQUIP FOR ELEM/HS	
480212 VEHICLE PRODUCTS	430110 WATCHES	*9599 UNGROUPED ITEMS
480212 VEHICLE PRODUCTS		*5501 AUTOMOTIVE
480213 PARTISEQUIP/ACCESSORIES     590110 NEWSPAPERS     590210 MAGAZINES     590220 BOOKS THRU BOOK CLUBS     590220 BOOKS NOT THRU BOOK CLUBS     590230 BOOKS NOT THRU BOOK CLUBS     600210 GENERAL SPORT/EXCERCISE EQUIP     600310 BICYCLES     600410 CAMPING EQUIPMENT     600420 UNITING, FISHING EQUIPMENT     600430 WINTER SPORT EQUIPMENT     600430 WINTER SPORT EQUIPMENT     600430 WINTER SPORT EQUIPMENT     610110 TOYS GAMES HOBBIES TRICYCLES     6101210 FILM     5517 PHOTOGRAPHIC SUPPLIES     610220 OTHER PHOTOGRAPHIC SUPPLIES     10020 OTHER PHOTOGRAPHIC SUPPLIES     10020 OTHER PHOTOGRAPHIC SUPPLIES     10020 OTHER PHOTOGRAPHIC SUPPLIES     1000 STOCKS, BONDS, MUTUAL FUNDS     100 PRECIOUS METALS     1000 STOCKS, BONDS, MUTUAL FUNDS     100 PRECIOUS METALS     1200 MISCELLANEOUS INVESTMENTS     1400 EMPLOY, COUNSELING & FEES     2100 INSUR, OTH THAN HEALTH/VEHICLE     2200 RETIREMENT PLANS     4000 CONTRIBUTIONS     4100 CASH GIFTS     4100 CASH GIFTS     4100 CASH GIFTS     4100 CASH GIFTS     4100 LUNCH     90110 Lunch at restaurants, cafes, etc     190111 Lunch at Fast Food     190112 Lunch at Fast Food     190113 Lunch at Vending Machine     190115 Lunch at Board     190116 Lunch at Catered Affairs     190110 Lunch at		
\$590110 NEWSPAPERS   \$590210 MAGAZINES   \$590210 MAGAZINES   \$590210 MAGAZINES   \$590210 MAGAZINES   \$590210 BOOKS THRU BOOK CLUBS   \$600210 GENERAL SPORTEXCERCISE EQUIP   \$600210 GENERAL SPORTEXCERCISE EQUIP   \$600410 CAMPING EQUIPMENT   \$600420 HUNTING, FISHING EQUIPMENT   \$600420 HUNTING, FISHING EQUIPMENT   \$600420 HUNTING, FISHING EQUIPMENT   \$600900 WATER SPORT EQUIPMENT   \$610110 TOYS GAMES HOBBIES TRICYCLES   \$610130 MUSIC INSTRUMENTS/ACCESSORIES   \$517 PHOTOGRAPHIC SUPPLIES   \$610210 FILM   \$517 PHOTOGRAPHIC SUPPLIES   \$610220 OTHER PHOTOGRAPHIC SUPPLIES   \$7502 SUNGLASSES   \$7502 CHARCOAL, LOGS, ACCESSORIES   \$1000 STOCKS, BONDS, MUTUAL FUNDS   \$1000 STOCKS, BONDS, MUTUAL FUNDS   \$1000 STOCKS, BONDS, MUTUAL FUNDS   \$1000 MISC, FUELS   \$1000 CAST   \$1000 STOCKS, BONDS   \$1000 CAST   \$1000 STOCKS, BONDS, MUTUAL FUNDS   \$1000 STOCKS, BONDS, MUTUAL FUNDS   \$1000 STOCKS, BONDS, MUTUAL FUNDS   \$1000 CAST   \$1		
\$90210 MAGAZINES   \$90230 BOOKS THRU BOOK CLUBS   \$90230 BOOKS NOT THRU BOOK CLUBS   \$90230 BOOKS NOT THRU BOOK CLUBS   \$90230 BOOKS NOT THRU BOOK CLUBS   \$600210 GENERAL SPORT/EXCERCISE EQUIP   \$600410 CAMPING EQUIPMENT   \$600420 HUNTING, FISHING EQUIPMENT   \$600430 WINTER SPORT EQUIPMENT   \$600430 WINTER SPORT EQUIPMENT   \$600430 WINTER SPORT EQUIPMENT   \$610110 TOYS GAMES HOBBIES TRICYCLES   \$610130 MUSIC INSTRUMENTS/ACCESSORIES   \$610210 FILM   \$517 PHOTOGRAPHIC SUPPLIES   \$610220 OTHER PHOTOGRAPHIC SUPPLIES   \$10020 CHIRD SUPPLI		*5503 ROOKS AND MAGAZINES
590220 BOOKS THRU BOOK CLUBS   590230 BOOKS NOT THRU BOOK CLUBS   600210 GENERAL SPORT/EXCERCISE EQUIP   600310 BICYCLES   600410 CAMPING EQUIPMENT   600420 HUNTING, FISHING EQUIPMENT   600420 HUNTING, FISHING EQUIPMENT   600430 WINTER SPORT EQUIPMENT   610110 TOYS GAMES HOBBIES TRICYCLES   610130 MUSIC INSTRUMENTS/ACCESSORIES   610210 FILM   5517 PHOTOGRAPHIC SUPPLIES   610220 OTHER PHOTOGRAPHIC SUPPLES   75505 CHARCOAL, LOGS, ACCESSORIES   75005 CHARCOAL		5505 DOORS AND MACAZINES
590230 BOOKS NOT THRU BOOK CLUBS		
\$524 TOYS & SPORTING GOODS		
600310 BICYCLES		A STALL TOYER & SPORTING SCORE
600410 CAMPING EQUIPMENT		*5524 TOYS & SPORTING GOODS
600420 HUNTING, FISHING EQUIPMENT		
600430 WINTER SPORT EQUIPMENT		
600900 WATER SPORT EQUIPMENT		
610110 TOYS GAMES HOBBIES TRICYCLES		
610130 MUSIC INSTRUMENTS/ACCESSORIES     610210 FILM	600900 WATER SPORT EQUIPMENT	
5517 PHOTOGRAPHIC SUPPLIES	610110 TOYS GAMES HOBBIES TRICYCLES	
No comparable diary category   *5518   SEASONAL	610130 MUSIC INSTRUMENTS/ACCESSORIES	
No comparable diary category	610210 FILM	5517 PHOTOGRAPHIC SUPPLIES
No comparable diary category		
No comparable diary category		*5518 SEASONAL
250900 MISC. FUELS		
440110 SHOE REPAIR, OTH SHOE SERVICE		
1000 STOCKS, BONDS, MUTUAL FUNDS 1100 PRECIOUS METALS 1200 MISCELLANEOUS INVESTMENTS 1400 EMPLOY. COUNSELING & FEES 1200 INSUR. OTH THAN HEALTH/VEHICLE 2200 RETIREMENT PLANS 4000 CONTRIBUTIONS 4100 CASH GIFTS 4190 GIFTS NOT SPECIFIED 5000 ALIMONY AND CHILD SUPPORT 9000 MORTGAGE PAYMENT 190110 LUNCH 190110 LUNCH 190111 Lunch at restaurants, cafes, etc 190111 Lunch at Fast Food 190112 Lunch at Vending Machine 190114 Lunch at Employer 190115 Lunch at Board 190116 Lunch at Catered Affairs 190210 DINNER		
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190115 Lunch at Board 190116 Lunch at Catered Affairs 190210 DINNER		
190116 Lunch at Catered Affairs 190210 DINNER		
190210 DINNER		
190210 Dinner at restaurants, cafes, etc		
<u> </u>	190210 Dinner at restaurants, cafes, etc	

		<u> </u>
	Dinner at Fast Food	
	Dinner at Full Service	
	Dinner at Vending Machine	
	Dinner at Employer	
190215	Dinner at Board	
190216 1	Dinner at Catered Affairs	
190310	Snacks and non alcoholic beverages, including tip	
190311	Snacks at Fast Food	
190312 \$	Snacks at Full Service	
190313	Snacks at Vend Machine	
190314 \$	Snacks at Employer	
	Snacks at Board	
190316	Snacks at Catered Affairs	
190320 1	BREAKFAST AND BRUNCH	
190320 1	Breakfast and brunch at restaurants, cafes, etc	
190321 1	Breakfast at Fast Food	
190322 1	Breakfast at Full Service	
190323 1	Breakfast at Vending Machine	
	Breakfast at Employer	
	Breakfast at Board	
190326 1	Breakfast at Catered Affairs	
	BOARD (INCLUD AT SCHOOL)	
	Food or board, at school and rooming/boarding houses	
	CATERED AFFAIRS	
190911 1	Board at Fast Food	
190912 1	Board at Full Service	
190913	Board at Vending Machine	
190914 1	Board at Employer	
190915	Board at Board	
190916 1	Board at Catered Affairs	
190921	Catered Affairs at Fast Food	
190922	Catered Affairs at Full Service	
190923	Catered Affairs at Vending Machine	
	Catered Affairs at Employer	
190925	Catered Affairs at Board	
190926	Catered Affairs at Catered Affairs	
200510	BEER AND ALE AWAY FROM HOME	
200511	Beer at Fast Food	
200512 1	Beer at Full Service	
200513	Beer at Vending Machine	
	Beer at Employer	
	Beer at Board	
200516	Beer at Catered Affairs	
200520	Wine away from home	
	WINE AWAY FROM HOME	
	Wine at Fast Food	
200522	Wine at Full Service	
	Wine at Vending Machine	
	Wine at Employer	
	Wine at Board	
	Wine at Catered Affairs	
	Other alcoholic beverages away from home	
	Alcoholic Beverage Excluding Beer/Wine Fast Food	
200532	Alcoholic Beverage Excluding Beer/Wine Full Service	
200533	Alcoholic Beverage Excluding Beer/Wine Vending	
Machine	-	
200534	Alcohoic Beverage Excluding Beer/Wine at Employer	
	Alcohoic Beverage Excluding Beer/Wine at Board	
	Alcoholic Beverage Excluding Beer/Wine Catered Affairs	
	RENT OF DWELLING	
210210	LODGING AWAY FROM HOME	
210310	HOUSING FOR SOMEONE AT SCHOOL	

210900 GROUND OR LAND RENT	
220000 CAPITAL IMPROVEMENTS - N/SPEC.	
220110 FIRE/EXTENDED COVERAGE INSUR	
220120 HOMEOWNERS INSURANCE	
220210 PROPERTY TAXES	
220310 CONTRACTED MORTGAGE INTEREST	
220400 PURCHASE OF PROPERTY	
220410 HOME PURCHASE 220510 CAPITAL IMPROVEMENTS - COMMOD	
220510 CAPITAL IMPROVEMENTS - COMMOD 220610 CAPITAL IMPROVEMENTS - SERVICE	
220900 PARKING-OWNED DWELLING	
230000 REPAIR/MAINT/IMPROV. N/SPEC.	
230110 MAINTENANCE OF PROPERTY	
230120 INSTALLED HARD SURFACE FLOORIN	
230130 INSTALLED WALL-TO-WALL CARPET	
230140 REPAIR-DISPL/DISHR/RANG HD	
230900 MAINTENANCE FEES	
240110 PAINT, WALLPAPER AND SUPPLIES	
240120 TOOLS/EQUIP. FOR PAINTG,PAPERG	
240210 LUBER,PANLING,TILE,AWNING,GLAS	
240220 BLACKTOP AND MASONRY MATERIALS	
240310 PLUMBING SUPPLIES AND EQUIP.	
240320 ELEC HEATG/A.C. SUPP. EQUIP	
240900 SOFT SURFACE FLOOR COVERING	
250110 FUEL OIL	
250210 BOTTLED OR TANK GAS	
250220 COAL 260110 ELECTRICITY	
260210 UTILITY - NATURAL GAS	
270000 TELEPHONE SERVICE NOT SPEC.	
270210 WATER AND SEWERAGE MAINTENANCE	
270310 COMMUNITY ANTENNA OR CABLE TV	
270311 Cable/Satellite/Com Antenna Serv	
270410 GARBAGE/TRASH COLLECTION	
270510 TELEPHONE INTERSTATE CALLS	
270510 Telephone interstate calls	
270610 TELEPHONE INTRASTATE CALLS	
270610 Telephone intrastate calls	
270900 SEPTIC TANK CLEANING	
270905 STEAM HEAT 290110 MATTRESS AND SPRINGS	
290110 MATTRESS AND SPRINGS 290120 OTHER BEDROOM FURNITURE	
290210 SOFAS	
290310 LIVING ROOM CHAIRS	
290320 LIVING ROOM TABLES	
290410 KITCHEN/DINING ROOM FURNITURE	
290420 INFANTS FURNITURE	
290430 OUTDOOR FURNITURE	
290440 WALL UNITS, CABINETS, OCCAS FURN	
300218 WASHERS AND DRYERS	
310241 STREAMING VIDEO FILES	
310242 DOWNLOADING VIDEO FILES	
310334 Satellite dishes	
310351 STREAMING AUDIO FILES 310352 DOWNLOADING AUDIO FILES	
320110 FLOOR COVERINGS (NON-PERM.)	
320150 OUTDOOR EQUIPMENT	
320410 LAWN AND GARDEN EQUIPMENT	
320620 PERM HARD SURFACE FLR COVERING	
320627 FLOORING INSTALL/REPAIR/REPLACE	
320630 LANDSCAPING ITEMS	
320901 OFFICE FURNITURE HOME USE	

320903 INDOOR PLANTS, FRESH FLOWERS	
340110 POSTAGE	
340120 DELIVERY SERVICES	
340210 BABYSITTING	
340310 DOMESTIC SERVICE	
340410 GARDENING/LAWN CARE SERVICE	
340510 MOVING, STORAGE, FREIGHT EXPRES	
340520 HSHLD LNDRY,DRYCLN NOT COIN-OP	
340530 COIN-OP HSHLD LNDRY, DRY CLN	
340610 REPAIR OF TV/RADIO/SOUND EQUIP	
340620 REPAIR OF HOUSEHOLD APPLIANCES	
340630 REUPHOLSTERY OF FURNITURE	
340901 RENTAL/REPAIR-TOOLS,LAWN/GARDEN	
340903 MISC. HOME SERVICES	
340904 RENTAL OF FURNITURE	
340906 CARE OF INVALIDS, ELDERLY, ETC	
340907 RENTAL OF HOUSEHOLD EQUIPMENT	
340908 RNTL OFF EQUIP NON-BUS USE	
340909 RENTAL OF TV/RADIO SOUND EQUIP	
340913 REPAIR OF MISC HSHLD EQ/FSHGS	
350110 TENANTS INSURANCE	
360110 MENS SUITS	
360120 MENS SPORTCOATS/TAILORED JACKETS	
360210 MENS COATS AND JACKETS	
360320 MENS NIGHTWEAR/LOUNGEWEAR	
360330 MENS ACCESSORIES	
360340 MENS SWEATERS AND VESTS	
360350 MENS ACTIVE SPORTSWEAR	
360410 MENS SHIRTS	
360420 MENS SWEATERS/SHIRTS/VESTS	
360511 MENS PANTS	
360511 Men's pants	
360512 MENS SHORTS/SHORTS SETS	
360512 Men's shorts and shorts sets, excluding athletic	
360513 Men's pants and shorts	
360901 MENS UNIFORMS	
370110 BOYS COATS AND JACKETS	
370120 BOYS SWEATERS	
370125 BOYS SWEATERS/SHIRTS/VESTS	
370130 BOYS SHIRTS	
370212 BOYS NIGHTWEAR	
370220 BOYS ACCESSORIES	
370311 BOYS SUITS, SPORTCOATS, VESTS	
370312 BOYS PANTS	
370312 Boys' pants	
370313 BOYS SHORTS, SHORTS SETS	
370313 Boys' shorts and shorts sets, excluding athletic	
370314 Boys' pants and shorts	
370901 BOYS UNIFORMS/ACTIVE SPORTSWE	
380110 WOMENS COATS AND JACKETS	
380210 WOMENS DRESSES	
380311 WOMENS SPORTCOATS, TAIL. JKTS	
380312 WOMENS VESTS AND SWEATERS	
380313 WOMENS SHIRTS, TOPS,BLOUSES	
380315 WOMENSSWEATERS/SHIRTS/TOPS	
380320 WOMENS SKIRTS	
380331 WOMENS PANTS	
380331 Women's pants	
380332 WOMENS SHORTS, SHORTS SETS	
380332 Women's shorts and shorts sets, excluding athletic	
380333 Women's pants and shorts	
380340 WOMENS ACTIVE SPORTSWEAR	
JOUS TO THORILING MOTHER DE ORTOWEAR	

380410 WOMENS SLEEPWEAR	
380510 WOMENS SUITS	
380901 WOMENS ACCESSORIES	
380902 WOMENS UNIFORMS	
390110 GIRLS COATS AND JACKETS	
390120 GIRLS DRESSES, SUITS	
390210 GIRLS SHIRTS/BLOUSES/SWEATERS	
390221 GIRLS SKIRTS AND PANTS	
390221 Girls' skirts, culottes, and pants	
390222 GIRLS SHORTS, SHORTS SETS	
390222 Girls' shorts and shorts sets, excluding athletic	
390223 Girls' pants and shorts	
390230 GIRLS ACTIVE SPORTSWEAR	
390310 GIRLS UNDERWEAR AND SLEEPWEAR	
390322 GIRLS ACCESSORIES	
390901 GIRLS UNIFORMS	
400110 MENS FOOTWEAR	
400210 BOYS FOOTWEAR	
400220 GIRLS FOOTWEAR	
400310 WOMENS FOOTWEAR	
420110 MATERIAL FOR MAKING CLOTHES	
420116 MATERIAL FOR MARING CLOTHES 420115 SEWING/NDLWRK/QUILT MATRLS/ITEMS	
430120 JEWELRY	
430130 LUGGAGE	
440120 COIN-OP APPAREL LDRY/DRY CLNG	
440130 ALTER/REPAIR OF APPAREL, ACCESS	
440140 CLOTHING RENTAL	
440150 WATCH AND JEWELRY REPAIR	
440210 APPAREL LNDRY/DRY CLNG N/COIN-OP	
440900 CLOTHING STORAGE	
450110 NEW CARS	
450210 NEW TRUCKS	
450220 NEW MOTORCYCLES	
450310 CAR LEASE PAYMENTS	
450350 CAR/TRUCK LEASE PAYMENTS	
450410 TRUCK LEASE PAYMENTS	
450900 AIRCRAFT	
460110 USED CARS	
460901 USED TRUCKS	
460902 USED MOTORCYCLES	
460903 USED AIRCRAFT	
470111 GASOLINE	
470112 DIESEL FUEL	
470114 GASAHOL	
470211 MOTOROIL	
470220 COOLANT/ADDITIVES/BRK/TRNS FLD	
480110 TIRES PURCHASED/REPLACED/INSTALL	
480214 VEHICLE AUDIO EQ. EXCL. LABOR	
490000 MISC. AUTO REPAIR/SERVICING	
490110 BODY WORK AND PAINTING	
490211 CLUTCH, TRANSMISSION REPAIR	
490212 DRIVE SHAFT AND REAR-END REPAIR	
490220 BRAKE WORK	
490231 REPAIR TO STEERING OR FRONT END	
490232 REPAIR TO ENGINE COOLING SYSTEM	
490300 VEHICLE OR ENGINE REPAIRS	
490311 MOTOR TUNE-UP	
490312 LUBE, OIL CHANGE AND OIL FILTERS	
490313 FRNT END ALIGN, WHEEL BAL/ROTAT	
490314 SHOCK ABSORBER REPLACEMENT	
490315 BRAKE ADJUSTMENT	
490316 GAS TANK REPAIR, REPLACEMENT	

490411 EXHA	UST SYSTEM REPAIR
490412 ELECT	TRICAL SYSTEM REPAIR
490413 MOTO	R REPAIR/REPLACEMENT
490900 AUTO	REPAIR SERVICE POLICY
500110 VEHIC	LE INSURANCE
	OR LOCAL VEHICLE REGISTRATION
	LE REGISTRATION STATE
	LE REGISTRATION LOCAL
520310 DRIVE	
	CLE INSPECTION
520511 AUTO	
	TRUCK RENTAL
520521 TRUCH	
520521 TROCK	
	G FEE IN HME CITY EXCL RSDNC
520541 TOLLS	
520550 TOWIN	
	AL POSITIONING SERVICES
	ING/LANDING FEES
	RCYCLE RENTAL
520902 MOTO 520903 AIRCR	
	AL NON-CAMPER TRAILER
520904 RENTA 530110 AIRLIN	
	CITY BUS FARES
	CITY MASS TRANSIT FARES
530412 TAXI I	
	CITY TRAIN FARES
530901 SHIP F	
530902 SCHOO	
	AN POOL & NON-MOTOR TRANS
	CRIPTION DRUGS
	LASSES AND CONTACT LENSES
	ALS AND DRESSINGS
	CAL EQUIP. FOR GENERAL USE
	PRTIVE/CONVAL MED. EQUIP.
550340 HEARI	
	CIANS SERVICES
560210 DENTA	
560310 EYECA	
	CE BY OTH THAN PHYSICIANS
560330 LAB T	·
	BY PROS OTH THAN PHYSICIANS
	E/THERAPY/MISC. MEDIC SERV
	TAL CARE NOT SPECIFIED
	IN CONVL OR NURSING HOME
	R MEDICAL CARE SERVICE
	AL OF MEDICAL/SURGICAL EQUIP
	R OF MEDICAL EQUIPMENT
	AL OF SUPORTIVE/CONVAL EQUIP
	TH INSURANCE NOT SPEC.
	IERCIAL HEALTH INSURANCE
	CROSS/BLUE SHIELD
	TH MAINTENANCE PLANS
	CARE PAYMENTS
590900 NEWS	
600110 OUTBO	
	WERED BOATS, TRAILERS
	RED SPORTS VEHICLES
	AL POSITIONING SYSTEM DEVICES
	GROUND EQUIPMENT
	P AND COIN COLLECTING
610230 PHOTO	OGRAPHIC EQUIPMENT

	FIREWORKS	
	SOUVENIRS	
	VISUAL GOODS	
	CLUB MEMBERSHIP DUES AND FEES	
	SOCIAL/RECRE/CIVIC CLUB MEMBRSHP	
	CREDIT CARD MEMBERSHIPS	
	AUTOMOBILE SERVICE CLUBS	
	AUTO SERVICE CLUBS/GPS SERVICES	
	FEES FOR PARTICIPANT SPORTS	
	MOVIE, THEATER, OPERA, BALLET	
	TKTS TO PLAY/THEATR/OPERA/CONCERT	
	TKTS TO MOVIE, PARK, MUSEUMS	
	ADMISSION TO SPORTING EVENTS	
	FEES FOR RECREATIONAL LESSONS	
	PHOTOGRAPHER FEES	
	FILM PROCESSING	
	PET SERVICES	
	VET SERVICES	
	ADMISSIONS MISC	
	MISC. ENTERTAINMENT SERVICES	
	CAMP FEES	
	REN/REP SPT/PHOT/MUSIC EQUP	
	MISC FEES,PARIMUTEL LOSSES	
	Miscellaneous fees, pari-mutuel losses, and taxidermist fees	
	RNTL VIDEO CASS/TAPES/DISCS/FILMS	
	PINBALL/ELECTRONIC VIDEO GAMES	
	PASSPORT FEES	
	Lotteries and Parimutuel Losses	
	Miscellaneous Fees	
	ONLINE ENTERTAINMENT SERVICES	
	WIGS AND HAIRPIECES	
	PERS. CARE SERV FOR FEMALES	
	PERS. CARE SERV FOR MALES	
	REPAIR OF PERS. CARE APP.	
	ENCYL. OTH SETS OF REFRNCE BKS	
	SCH BK/SUP/EQ-DAY CARE,NURS,OTH	
	COLLEGE TUITION	
	ELEM./H.S. TUITION	
	DAY CARE/NURS/PRSCH EXP INCL TUIT	
	VOC/TECH SCHOOL TUITION	
	OTHER SCHOOL TUITION	
	OTH SCH EXPENSES INCLUD RENTALS	
	UNDOCUMENTED?	
	LEGAL FEES	
	FUNERAL EXPENSE	
	SAFE DEPOSIT BOX RENTAL	
	CHECK ACCTS / OTH BANK SERV CHGS	
	CEMETERY LOTS, VAULTS, MAINT FEES	
	ACCOUNTING FEES	
	MISC. PERS. SERVICES	
	DATING SERVICES	
	COMPUTER INFORMATION SERVICES	
	INTERNET SERVICES AWAY FROM HOME	
950024	VEHICLE PERSONAL PROPERTY TAXES	
Referen		

#### References

Bee, Adam, Bruce D. Meyer and James X. Sullivan. 2012. "The Validity of Consumption Data: Are the Consumer Expenditure Interview and Diary Surveys Informative?" NBER Working Paper No. 18308.

Bee, Adam, Bruce D. Meyer and James X. Sullivan. 2015. "The Validity of Consumption Data: Are the Consumer Expenditure Interview and Diary Surveys Informative?" in *Improving the Measurement of Consumer Expenditures* (2015), Christopher D. Carroll, Thomas F. Crossley, and John Sabelhaus, editors (p. 204 - 240).

#### APPENDIX C. A MODEL OF CONSUMER EXPENDITURES

Suppose consumers have a "target" level of consumption  $C_i$  (in dollars) per T units of time (e.g., T is the number of weeks in a year) for household i. The task of consumers is to minimize the cost of this consumption bundle.

$$cost = \frac{\delta_i d_i^{\beta} C_i}{2N} + F_i N C_i^{\alpha} + d_i C_i$$

where  $F_i$  is the fixed cost of a trip to a store (this cost depends on parameter  $\alpha$ : with  $\alpha=1$  this is an icerberg cost, with  $\alpha=0$  this is a fixed cost), N is the number of shopping trips,  $d_i$  is the price discount (the baseline model reported in the paper imposes  $d_i=1$ ),  $\delta_i$  is the storage cost of the average inventory (the average inventory is  $p_i^{\beta} \bar{C_i}/2N$ ). We can use different values of  $\beta$  to obtain different interpretations of the storage cost. With  $\beta=0$ , storage cost is measured in physical units but  $\delta$  can be interpreted as a price. With  $\beta=1$ , we have storage cost is measured in dollars with  $\delta$  being a "depreciation" rate (rather than price). While assumptions about storage costs, discounts, etc. may be important for specific applications, we will show below that for our analysis we do not need to take a stand on exact functional forms, particular interpretations, or certain parameter values. For example, whether  $\delta$  captures storage costs or depreciation is not material for us. As a result, we can consider a general form for the cost function.

The optimality condition implies that

$$N_i^* = \sqrt{\frac{\delta_i d_i^{\beta} C_i^{1-\alpha}}{2F_i}}.$$

The size of the purchase is  $X_i = d_i C_i / N_i^*$  (if there is a purchase; this happens  $N_i^* / T$  fraction of times) or 0 (no purchase; this happens  $1 - N_i^* / T$  fraction of time). Note that for this household the time-series mean is

$$E_t(X_{it}) = \frac{d_i C_i}{N_i^*} * \frac{N_i^*}{T} + 0 * \left(1 - \frac{N_i^*}{T}\right) = \frac{d_i C_i}{T} \equiv \bar{X}_i$$

The time-series variance of purchases for household i is

$$var_{i}(X_{it}) = \frac{N_{i}^{*}}{T} \left(\frac{d_{i}C_{i}}{N_{i}^{*}} - \frac{d_{i}C_{i}}{T}\right)^{2} + \left(1 - \frac{N_{i}^{*}}{T}\right) \left(-\frac{d_{i}C_{i}}{T}\right)^{2} = \left(\frac{d_{i}C_{i}}{T}\right)^{2} \left(\frac{T}{N_{i}^{*}} - 1\right) = (\bar{X}_{i})^{2} \left(\frac{T}{N_{i}^{*}} - 1\right)$$

Hence the time-series coefficient of variation is given by

$$CV_T(X_{it}) = \frac{\sqrt{var_i(X_{it})}}{\bar{X}_i} = \sqrt{\frac{T}{N_i^*} - 1}$$

Using the delta method, we can find that the average (across households) time-series coefficient of variation is

$$\overline{CV_T} = E_i[CV_T(X_{it})] = E\left|\sqrt{\frac{T}{N_i^*} - 1}\right| \approx$$

Define the cross-sectional average of the desired per-week consumption as

$$\bar{\bar{X}} = E(X_{it}) = E(E(X_{it}|i)) = E_i\left(\frac{d_iC_i}{T}\right) = E_i\bar{X}_i.$$

Now consider the cross-sectional variance

$$var(X_{it}) = E\left[\left(X_{it} - \overline{X}\right)^2\right] = E_i\left[E\left\{\left(X_{it} - \overline{X}\right)^2|i\right\}\right].$$

For household *i*, we have

$$\begin{split} E\left(X_{it} - \bar{\bar{X}}\right)^{2} &= \frac{N_{i}^{*}}{T} \left(\frac{d_{i}C_{i}}{N_{i}^{*}} - \bar{\bar{X}}\right)^{2} + \left(1 - \frac{N_{i}^{*}}{T}\right) \left(-\bar{\bar{X}}\right)^{2} = \\ &= \frac{N_{i}^{*}}{T} \left(\frac{d_{i}C_{i}}{N_{i}^{*}} - \frac{d_{i}C_{i}}{T} + \frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right)^{2} + \left(1 - \frac{N_{i}^{*}}{T}\right) \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}} - \frac{d_{i}C_{i}}{T}\right)^{2} \\ &= \frac{N_{i}^{*}}{T} \left(\frac{d_{i}C_{i}}{N_{i}^{*}} - \frac{d_{i}C_{i}}{T}\right)^{2} + \frac{N_{i}^{*}}{T} \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right)^{2} + 2 \frac{N_{i}^{*}}{T} \left(\frac{d_{i}C_{i}}{N_{i}^{*}} - \frac{d_{i}C_{i}}{T}\right) \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right) \\ &+ \left(1 - \frac{N_{i}^{*}}{T}\right) \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right)^{2} + \left(1 - \frac{N_{i}^{*}}{T}\right) \left(\frac{d_{i}C_{i}}{T}\right)^{2} - 2 \left(1 - \frac{N_{i}^{*}}{T}\right) \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right) \left(\frac{d_{i}C_{i}}{T}\right) \\ &= \frac{N_{i}^{*}}{T} \left(\frac{d_{i}C_{i}}{N_{i}^{*}} - \bar{X}_{i}\right)^{2} + \left(1 - \frac{N_{i}^{*}}{T}\right) \left(\bar{X}_{i}\right)^{2} + \frac{N_{i}^{*}}{T} \left(\bar{X}_{i} - \bar{\bar{X}}\right)^{2} + \left(1 - \frac{N_{i}^{*}}{T}\right) \left(\bar{X}_{i} - \bar{\bar{X}}\right)^{2} \\ &+ 2 \frac{N_{i}^{*}}{T} \left(\frac{d_{i}C_{i}}{N_{i}^{*}} - \frac{p_{i}C_{i}}{T}\right) \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right) - 2 \left(1 - \frac{N_{i}^{*}}{T}\right) \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right) \left(\frac{d_{i}C_{i}}{T}\right) \\ &= var_{i}(X_{it}) + \left(\bar{X}_{i} - \bar{\bar{X}}\right)^{2} + 2 \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right) \left(\frac{d_{i}C_{i}}{T} - \frac{N_{i}^{*}}{T} \frac{d_{i}C_{i}}{T} - \frac{d_{i}C_{i}}{T} + \frac{N_{i}^{*}}{T} \frac{d_{i}C_{i}}{T}\right) \\ &= var_{i}(X_{it}) + \left(\bar{X}_{i} - \bar{\bar{X}}\right)^{2} + 2 \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right) \left(\frac{d_{i}C_{i}}{T} - \frac{N_{i}^{*}}{T} \frac{d_{i}C_{i}}{T} - \frac{d_{i}C_{i}}{T} + \frac{N_{i}^{*}}{T} \frac{d_{i}C_{i}}{T}\right) \\ &= var_{i}(X_{it}) + \left(\bar{X}_{i} - \bar{\bar{X}}\right)^{2} + 2 \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right) \left(\frac{d_{i}C_{i}}{T} - \frac{N_{i}^{*}}{T} \frac{d_{i}C_{i}}{T} - \frac{d_{i}C_{i}}{T} + \frac{N_{i}^{*}}{T} \frac{d_{i}C_{i}}{T}\right) \\ &= var_{i}(X_{it}) + \left(\bar{X}_{i} - \bar{\bar{X}}\right)^{2} + 2 \left(\frac{d_{i}C_{i}}{T} - \bar{\bar{X}}\right) \left(\frac{d_{i}C_{i}}{T} - \frac{N_{i}^{*}}{T} \frac{d_{i}C_{i}}{T} - \frac{d_{i}C_{i}}{T} - \frac{d_{i}C_{i}}{T} + \frac{N_{i}^{*}}{T} \frac{d_{i}C_{i}}{T}\right) \\ &= var_{i}(X_{it}) + \left(\bar{X}_{i} - \bar{X}_{i}\right)^{2} + 2 \left(\frac{d_{i}C_{i}}{T} - \frac{N_{i}^{*}}{T} \frac{d_{i}C_{i}}{T} - \frac{N_{i}^{$$

If we take an average across households in this group, we have

$$\begin{split} E_{i}\left[E\left\{\left(X_{it}-\bar{\bar{X}}\right)^{2}|i\right\}\right] &= E_{i}\left\{\left(\frac{d_{i}C_{i}}{T}\right)^{2}\left(\frac{T}{N_{i}^{*}}-1\right)+\left(\frac{d_{i}C_{i}}{T}-\bar{\bar{X}}\right)^{2}\right\} \\ &= E_{i}\left\{\left(\frac{d_{i}C_{i}}{T}\right)^{2}\left(\frac{T}{N_{i}^{*}}-1\right)\right\}+E_{i}\left\{\left(\frac{d_{i}C_{i}}{T}-\bar{\bar{X}}\right)^{2}\right\}=E_{i}\left\{\left(\frac{d_{i}C_{i}}{T}\right)^{2}\left(\frac{T}{N_{i}^{*}}-1\right)\right\}+var\left(\frac{d_{i}C_{i}}{T}\right) \\ &= \overline{var_{T}(X_{it})}+var\left(\frac{d_{i}C_{i}}{T}\right)\approx E\left\{\left(\frac{d_{i}C_{i}}{T}\right)^{2}\right\}E\left\{\left(\frac{T}{N_{i}^{*}}-1\right)\right\}+var\left(\frac{d_{i}C_{i}}{T}\right). \end{split}$$

The coefficient of variance for the cross-section is then

$$CV(X_{it}) = \frac{\sqrt{E(X_{it} - \bar{X})^{2}}}{\bar{X}} = \frac{\sqrt{var\left(\frac{d_{i}C_{i}}{T}\right) + \overline{var_{T}(X_{it})}}}{E\left(\frac{d_{i}C_{i}}{T}\right)}$$

$$= \sqrt{\frac{var\left(\frac{d_{i}C_{i}}{T}\right)}{\left[E\left(\frac{d_{i}C_{i}}{T}\right)\right]^{2}} + \frac{\overline{var_{T}(X_{it})}}{\left[E\left(\frac{d_{i}C_{i}}{T}\right)\right]^{2}}} = \sqrt{CV(\bar{X}_{i})^{2} + \frac{\overline{var_{T}(X_{it})}}{\left[E\left(\frac{d_{i}C_{i}}{T}\right)\right]^{2}}}$$

$$\approx \sqrt{\frac{CV(\bar{X}_{i})^{2} + \frac{E\left(\left(\frac{d_{i}C_{i}}{T}\right)^{2}\right)E\left(\left(\frac{T}{N_{i}^{*}} - 1\right)\right)}{\left[E\left(\frac{d_{i}C_{i}}{T}\right)^{2}\right]^{2}}} = \sqrt{\frac{CV(\bar{X}_{i})^{2} + \frac{E\left(\left(\frac{d_{i}C_{i}}{T}\right)^{2}\right)E\left(\left(\frac{d_{i}C_{i}}{T}\right)\right)^{2}}{\left[E\left(\frac{d_{i}C_{i}}{T}\right)^{2}\right]^{2}}} \times \overline{CV_{T}^{2}}}$$

$$= \sqrt{CV(\bar{X}_i)^2 + \frac{E\left\{\left(\frac{d_iC_i}{T}\right)^2\right\} - \left[E\left(\frac{d_iC_i}{T}\right)\right]^2 + \left[E\left(\frac{d_iC_i}{T}\right)\right]^2}{\left[E\left(\frac{d_iC_i}{T}\right)\right]^2}} \overline{CV_T}^2}$$

$$= \sqrt{CV(\bar{X}_i)^2 + \frac{var\left(\frac{d_iC_i}{T}\right) + \left[E\left(\frac{d_iC_i}{T}\right)\right]^2}{\left[E\left(\frac{d_iC_i}{T}\right)\right]^2}} \overline{CV_T}^2}$$

$$= \sqrt{CV(\bar{X}_i)^2 + (CV(\bar{X}_i)^2 + 1)\overline{CV_T}^2} = CV(\bar{X}_i) \sqrt{1 + \left(\frac{1}{CV(\bar{X}_i)^2} + 1\right)\overline{CV_T}^2}$$

where  $CV(\bar{X}_i)$  is the cross-sectional CV if there is not shopping heterogeneity (i.e. households spend the same amount every week). Note that while deriving this formula, we used only  $N_i^*$  without specifying what parameter (e.g.,  $\delta$ , d, F,  $\beta$ ) determines it. Thus, our formula holds under general conditions that allow a variety of functional forms and parameter values.