

## Appendix

### A. Properties of Stone Geary Utility and Linear Expenditure Systems

In the trade literature that focuses on income effects it is common to use Stone-Geary preferences. Here we show why these preferences are inadequate for our current purposes. A household with income  $y$  has Stone-Geary preferences over a subsistence good ( $s$ ) subject to a minimum consumption requirement,  $\gamma$ , and a set of traded goods ( $g$ ):

$$u = (q_s - \gamma)^{\beta_s} \prod_g q_g^{\beta_g} \quad (\text{A.1})$$

Expenditures on subsistence goods and traded goods are:

$$e_s = \Gamma + \beta_s(y - \Gamma) \quad e_g = \beta_g(y - \Gamma) \quad (\text{A.2})$$

$\Gamma \equiv p_s \gamma > 0$  is a minimum expenditure requirement (MER), and  $y - \Gamma$  is residual income, or the income that the household has left over after meeting subsistence requirements. The income elasticity of expenditures for subsistence and traded goods are:

$$\eta_s = \frac{\beta_s y}{\Gamma(1 - \beta_s) + \beta_s y} \quad \eta_g = \frac{y}{(y - \Gamma)} \quad (\text{A.3})$$

This system generates several useful properties that are consistent with our data. First, the share of income spent on the traded good is zero at incomes near  $\Gamma$ , and rises as income increases, while the share of income spent on for “subsistence” goods has the opposite pattern. In addition, high income households will be responsible for a large share of traded goods expenditures, both because they have more income, and because they spend a larger share of income on traded goods. Finally, the income elasticity of demand for  $g$  differs across income levels.

However, linear expenditure system has two properties that make it unsuitable for our purposes. First, relative elasticity of any two traded goods is one. In other words, income shocks might alter the level of spending on a good, but the change in expenditures will be the same for any but the subsistence good. This means that these preferences are a poor choice for explaining how income shocks move relative demands for traded goods. Second, while changes in the level of national income affect expenditures, changes in the distribution of income (conditional on the level) have no effect.

To see this, the aggregate expenditure on traded goods over  $L$  households that we have is:

(A.4)

$$E_g = \sum_b e_{gb} = \sum_b \beta_g (y_b - \Gamma) = \beta_g (\sum_b y_b - L\Gamma)$$

This depends on the level of national income relative to the subsistence expenditure, but not the distribution. The reason is unique to linear expenditures. Changes in national expenditures are a share weighted average of expenditure changes happening in each household.

$$\Delta E_{gt} = \frac{\sum_b E_{gb,t}}{\sum_b E_{gb,t-1}} = \sum_b s_{gb,t-1} \Delta E_{gbt} \quad (\text{A.5})$$

With homothetic preferences, the change in expenditures is proportional to incomes. In the more general case, there are two channels of interest. The first is that high income households are responsible for a disproportionate share of spending on traded goods, that is,  $s_{gb,t-1}$  is rising in income. The second is that the percentage change in expenditures  $\Delta E_{gbt}$  is much larger at lower income levels. An interesting feature of Stone-Geary preferences and the resulting linear expenditure system (LES) is that the two channels above exactly cancel out. That is, even though the distribution of expenditures and income elasticities vary significantly across households, the effect of an income shock on aggregate expenditures does not depend on its distribution.

## B. Income Elasticity of Demand for Traded Manufacture, and Share of Expenditure

<Table B.1: Average Income Elasticity: Good by Decile>

Expenditure Category	Decile Points										AVG	Std.	CV
	1	2	3	4	5	6	7	8	9	10			
Accessories	1.92	1.75	1.68	1.45	1.65	1.58	1.53	1.49	1.41	1.49	1.60	0.16	0.10
Baby furniture and equipment	1.67	1.45	1.75	1.69	1.57	1.60	1.51	1.53	1.56	1.55	1.59	0.09	0.06
Bathroom linens	1.57	1.56	1.71	1.70	1.68	1.60	1.56	1.54	1.50	1.43	1.58	0.09	0.06
Bedroom furniture	1.22	1.37	1.36	1.25	1.27	1.31	1.21	1.31	1.23	1.32	1.29	0.06	0.05
Bedroom linens	2.07	1.88	1.64	1.58	1.54	1.49	1.38	1.46	1.48	1.33	1.59	0.23	0.14
Bicycles	1.14	1.07	1.15	1.18	1.21	1.27	1.35	1.34	1.16	1.23	1.21	0.09	0.07
Black and white Televisions	2.29	2.17	1.66	1.58	1.63	1.54	1.54	1.55	1.53	1.42	1.69	0.29	0.17
Calculators	1.82	1.64	2.00	1.74	1.82	1.51	1.64	1.62	1.56	1.47	1.68	0.16	0.10
Camping equipment	1.85	1.62	1.73	1.71	1.62	1.52	1.60	1.42	1.46	1.29	1.58	0.17	0.10
Carpeting	1.30	1.23	1.67	1.35	1.37	1.35	1.53	1.35	1.47	1.31	1.39	0.13	0.09
Cars				1.11	1.26	1.07	1.08	1.27	1.01	1.08	1.13	0.10	0.09
China and other dinnerware	1.98	1.73	1.54	1.50	1.44	1.54	1.72	1.59	1.52	1.43	1.60	0.17	0.10
Clocks	1.62	1.47	1.66	1.68	1.59	1.59	1.75	1.50	1.33	1.50	1.57	0.12	0.08
Clothes dryers	2.13	1.62	1.43	1.70	1.63	1.61	1.47	1.36	1.42	1.42	1.58	0.22	0.14
Clothes washers	1.23	1.24	1.13	0.96	1.10	0.98	1.03	1.26	1.29	1.69	1.19	0.21	0.18
Color Televisions	1.75	1.40	1.47	1.49	1.55	1.41	1.49	1.42	1.50	1.35	1.48	0.11	0.07
Computers	1.66	1.81	1.69	1.64	1.60	1.55	1.53	1.50	1.48	1.42	1.59	0.11	0.07
Curtains and drapes	1.32	1.04	1.08	1.11	1.13	1.24	1.36	1.36	1.38	1.29	1.23	0.13	0.10
Dishwashers	1.51	1.41	1.16	1.27	1.40	0.90	1.30	1.18	1.38	1.29	1.28	0.17	0.13
Fishing and hunting equipment	1.20	1.33	1.45	1.57	1.53	1.55	1.43	1.42	1.42	1.30	1.42	0.12	0.08
Footwear	1.87	1.74	1.76	1.68	1.65	1.63	1.60	1.58	1.53	1.45	1.65	0.12	0.07
Fresh flowers or potted plants	1.98	1.78	1.67	1.59	1.59	1.60	1.55	1.52	1.44	1.40	1.61	0.17	0.10
Glassware	0.99	1.16	1.31	1.36	1.21	1.50	1.36	1.34	1.23	1.42	1.29	0.15	0.11
Hand tools	1.29	1.32	1.42	1.36	1.45	1.44	1.35	1.47	1.39	1.26	1.37	0.07	0.05

Table B.1 Continues

Expenditure Category	1	2	3	4	5	6	7	8	9	10	AVG	Std.	CV
Hard flooring	1.30	1.16	1.17	0.95	1.13	1.00	1.08	1.00	1.00	0.93	1.07	0.12	0.11
Heaters	1.73	1.50	1.43	1.38	1.38	1.44	1.20	1.16	1.17	1.43	1.38	0.17	0.13
Hosiery	1.26	1.33	1.34	1.37	1.20	1.12	1.02	1.04	1.26	1.22	1.22	0.12	0.10
Infants' accessories, hosiery, and footwear	1.14	1.18	0.94	1.20	1.32	1.21	1.13	1.18	1.30	1.35	1.20	0.12	0.10
Infants' coats, jackets and snowsuits	1.58	1.66	1.63	1.67	1.60	1.54	1.52	1.49	1.45	1.38	1.55	0.09	0.06
Infants' dresses and other outerwear	1.37	1.34	1.35	1.25	1.25	1.12	1.27	1.39	1.57	1.40	1.33	0.12	0.09
Infants' undergarments, incl. diapers	1.37	1.31	1.28	1.18	1.12	1.08	1.01	1.00	1.12	1.04	1.15	0.13	0.11
Jewelry	1.59	1.62	1.51	1.45	1.45	1.47	1.55	1.58	1.54	1.40	1.52	0.07	0.05
Kitchen and dining room linens	1.27	1.38	1.37	1.38	1.45	1.54	1.70	1.55	1.51	1.41	1.46	0.12	0.08
Kitchen/dining room furniture	1.29	1.45	1.55	1.53	1.54	1.64	1.60	1.52	1.49	1.50	1.51	0.09	0.06
Lamps and lights	1.23	1.28	1.44	1.35	1.18	1.09	1.25	1.34	1.18	1.46	1.28	0.12	0.09
Lawn and garden equipment	1.67	1.58	1.53	1.37	1.25	1.18	1.29	1.27	1.29	1.43	1.39	0.16	0.12
Living room furniture	1.37	1.80	1.66	1.59	1.58	1.49	1.40	1.45	1.51	1.38	1.52	0.14	0.09
Luggage	1.86	2.12	1.72	1.37	1.48	1.53	1.71	1.63	1.64	1.50	1.66	0.21	0.13
M/B coats, jackets and furs	1.64	1.36	1.42	1.34	1.29	1.42	1.51	1.47	1.32	1.34	1.41	0.11	0.07
M/B pants	1.77	1.62	1.57	1.52	1.65	1.54	1.35	1.41	1.47	1.40	1.53	0.13	0.08
M/B shirts	1.82	1.74	1.80	1.73	1.63	1.61	1.57	1.50	1.41	1.48	1.63	0.14	0.09
M/B shorts	1.28	1.33	1.22	1.61	1.37	1.63	1.45	1.38	1.39	1.55	1.42	0.14	0.10
M/B sleepwear	1.28	1.21	1.15	1.00	1.05	1.14	1.12	0.95	1.13	1.12	1.11	0.09	0.08
M/B sportcoats	1.28	1.41	1.39	1.49	1.32	1.25	1.08	1.05	1.21	1.47	1.30	0.15	0.12
M/B sweaters	1.36	1.53	1.37	1.42	1.30	1.39	1.26	1.36	1.32	1.32	1.36	0.08	0.06
M/B underwear	1.10	1.17	1.00	1.31	1.62	1.43	1.31	1.30	1.37	1.51	1.31	0.19	0.14
Mattress and springs	1.15	1.24	1.17	0.97	0.91	0.95	0.92	1.11	0.86	1.37	1.06	0.17	0.16
Men's active sportswear	1.35	1.18	1.02	1.22	1.41	1.27	1.23	1.12	1.17	1.07	1.21	0.12	0.10
Men's suits	2.04	1.39	1.59	1.52	1.46	1.69	1.67	1.62	1.48	1.43	1.59	0.19	0.12
Men's uniforms	1.85	1.52	1.47	1.33	1.48	1.30	1.36	1.65	1.54	1.43	1.49	0.16	0.11
Microwave ovens	1.15	1.70	1.39	1.41	1.47	1.27	1.49	1.31	1.30	1.19	1.37	0.16	0.12
Motorcycles, motor scooters				0.83	1.05	0.96	0.92	0.79	1.02	1.05	0.95	0.11	0.11

Table B.1 Continues

Expenditure Category	1	2	3	4	5	6	7	8	9	10	AVG	Std.	CV
Musical equipment	1.95	1.75	1.60	1.62	1.68	1.70	1.62	1.62	1.47	1.47	1.65	0.14	0.08
Non-electric cookware	1.23	1.15	1.26	1.35	1.22	1.16	1.15	1.10	0.99	1.17	1.18	0.10	0.08
Office furniture	1.42	1.60	1.99	1.75	1.49	1.56	1.63	1.63	1.51	1.42	1.60	0.17	0.11
Other linens	1.09	1.30	1.25	1.33	1.20	1.17	1.20	1.41	1.26	1.31	1.25	0.09	0.07
Outdoor furniture	1.58	1.41	1.51	1.65	1.60	1.46	1.41	1.45	1.34	1.41	1.48	0.10	0.07
Personal care appliances	1.45	1.34	1.55	1.50	1.44	1.42	1.33	1.32	1.27	1.22	1.39	0.10	0.08
Photographic equipment	1.55	1.46	1.62	1.59	1.57	1.54	1.52	1.45	1.48	1.44	1.52	0.06	0.04
Photographic film	1.56	1.51	1.51	1.69	1.52	1.52	1.53	1.50	1.53	1.62	1.55	0.06	0.04
Playground equipment	1.39	1.33	1.49	1.79	1.27	1.26	1.22	1.28	1.42	1.34	1.38	0.17	0.12
Power tools	1.64	1.40	1.41	1.52	1.44	1.45	1.39	1.34	1.26	1.24	1.41	0.12	0.08
Radios	1.36	1.28	1.24	1.14	1.09	1.13	1.33	1.42	1.20	1.02	1.22	0.13	0.11
Refrigerators and freezers	1.21	1.42	1.17	1.15	1.07	1.11	1.04	1.13	1.09	1.19	1.16	0.11	0.09
Rugs	1.91	1.83	1.66	1.72	1.63	1.57	1.53	1.49	1.45	1.39	1.62	0.17	0.10
Satellite dishes	1.38	1.14	1.37	1.06	1.40	1.62	1.50	1.47	1.43	1.07	1.34	0.19	0.14
Serving pieces other than silver	1.40	1.81	1.68	1.44	1.50	1.42	1.43	1.43	1.45	1.52	1.51	0.13	0.09
Sewing machines	1.11	1.15	1.55	1.35	1.17	1.14	1.08	1.21	1.22	1.45	1.24	0.16	0.13
Sewing materials	1.30	1.30	1.37	1.30	1.33	1.41	1.27	1.20	1.18	1.30	1.30	0.07	0.05
Silver serving pieces	1.15	1.15	1.05	1.11	0.97	0.97	1.47	1.11	1.04	1.27	1.13	0.15	0.13
Slipcovers, decorative pillows and cushions	1.08	1.55	1.28	1.16	1.36	1.42	1.46	1.22	1.01	1.61	1.31	0.20	0.15
Small kitchen appliances	1.40	1.23	1.60	1.52	1.44	1.36	1.24	1.16	1.13	1.49	1.36	0.16	0.12
Sofas	1.15	0.82	0.93	1.07	1.11	1.02	1.01	1.23	1.10	1.53	1.10	0.19	0.17
Sports and exercise equipment	1.54	1.65	1.55	1.62	1.48	1.45	1.41	1.37	1.33	1.31	1.47	0.12	0.08
Stainless, silver and other flatware	1.72	1.78	1.53	1.50	1.45	1.47	1.35	1.39	1.33	1.33	1.49	0.16	0.11
Stereos	1.47	1.46	1.44	1.42	1.41	1.39	1.38	1.36	1.30	1.44	1.41	0.05	0.04
Stove and ovens	1.20	1.43	1.31	1.21	1.33	1.30	1.30	1.65	1.68	1.41	1.38	0.17	0.12
TV and computer game software	1.27	1.50	1.39	1.23	1.44	1.34	1.52	1.49	1.37	1.40	1.40	0.10	0.07
Telephones	1.05	1.04	1.06	1.01	1.09	1.20	1.14	1.10	0.99	1.08	1.08	0.06	0.06

Table B.1 Continues

Expenditure Category	1	2	3	4	5	6	7	8	9	10	AVG	Std.	CV
Tires	1.42	1.31	1.24	1.22	1.12	1.12	1.09	1.07	0.98	1.14	1.17	0.13	0.11
Trucks						1.29	1.13	1.14	1.06	1.18	1.16	0.08	0.07
Typewriters	1.27	1.24	1.00	1.07	1.08	1.18	1.11	1.10	1.07	0.78	1.09	0.14	0.13
VCR, video disc player, camera, camcorder	1.07	1.17	1.11	1.06	0.96	1.01	0.96	1.06	1.10	0.98	1.05	0.07	0.07
Vacuums	2.09	1.80	1.74	1.72	1.61	1.55	1.58	1.56	1.56	1.45	1.67	0.18	0.11
Video cassettes, tapes, discs	1.87	1.76	1.62	1.57	1.54	1.52	1.49	1.48	1.43	1.36	1.56	0.15	0.10
W/G active sportswear	1.47	1.55	1.62	1.67	1.55	1.53	1.45	1.44	1.39	1.48	1.52	0.09	0.06
W/G coats, jackets and furs	1.64	1.56	1.31	1.50	1.39	1.27	1.37	1.48	1.41	1.57	1.45	0.12	0.08
W/G dresses	1.58	1.41	1.29	1.30	1.37	1.43	1.38	1.32	1.31	1.24	1.36	0.10	0.07
W/G shirts, tops and blouses	1.59	1.54	1.63	1.51	1.47	1.36	1.33	1.30	1.18	1.46	1.44	0.14	0.10
W/G shorts	1.43	0.95	1.36	1.33	1.85	1.70	1.52	1.48	1.45	1.56	1.46	0.24	0.16
W/G skirts	1.38	1.65	1.72	1.57	1.61	1.63	1.63	1.55	1.50	1.42	1.57	0.11	0.07
W/G sleepwear	1.48	1.25	1.21	1.29	1.28	1.13	1.07	1.10	1.16	1.16	1.21	0.12	0.10
W/G uniforms	1.21	1.30	1.15	1.27	1.35	1.24	1.28	1.20	1.22	1.23	1.24	0.06	0.05
Watches	1.88	1.83	1.84	1.70	1.75	1.71	1.68	1.70	1.61	1.55	1.73	0.10	0.06
Window air conditioners	1.63	1.33	1.25	1.10	1.00	1.08	1.48	1.44	1.20	1.35	1.29	0.20	0.15
Window coverings	1.30	1.29	1.15	1.19	1.19	1.21	1.19	1.08	1.01	0.95	1.16	0.11	0.10
Winter/water sports equipment	1.49	1.49	1.45	1.28	1.13	1.12	1.26	1.11	1.18	1.29	1.28	0.15	0.12
Women's pants	1.68	1.65	1.57	1.62	1.58	1.54	1.43	1.47	1.39	1.39	1.53	0.11	0.07
Women's sport coats and tailored jackets	1.33	1.31	1.28	1.16	1.29	1.25	1.34	1.15	1.29	1.14	1.25	0.08	0.06
Women's suits	1.30	1.48	1.35	1.35	1.45	1.33	1.34	1.27	1.33	1.31	1.35	0.07	0.05
Women's sweaters and vests	1.44	1.26	1.45	1.28	1.19	1.49	1.44	1.37	1.57	1.46	1.39	0.12	0.09
Women's undergarments	1.90	1.65	1.52	1.64	1.49	1.48	1.68	1.53	1.53	1.50	1.59	0.13	0.08
Average	1.49	1.45	1.43	1.40	1.39	1.37	1.37	1.35	1.33	1.34			
Std.	0.29	0.25	0.23	0.22	0.21	0.21	0.20	0.19	0.18	0.16			
CV	0.19	0.17	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.12			

<Table B.2: Category Share of Total Spending (%): By Decile>

Expenditure Category	Decile Points										Mean
	1	2	3	4	5	6	7	8	9	10	
Accessories	0.052	0.067	0.071	0.080	0.094	0.097	0.111	0.112	0.123	0.100	0.091
Baby furniture and equipment	0.037	0.029	0.029	0.032	0.036	0.047	0.043	0.044	0.051	0.043	0.039
Bathroom linens	0.029	0.035	0.036	0.037	0.043	0.042	0.045	0.043	0.046	0.033	0.039
Bedroom furniture	0.050	0.055	0.082	0.071	0.105	0.118	0.165	0.228	0.254	0.274	0.140
Bedroom linens	0.091	0.099	0.114	0.105	0.124	0.134	0.142	0.159	0.157	0.123	0.125
Bicycles	0.041	0.023	0.026	0.027	0.039	0.047	0.056	0.069	0.068	0.039	0.044
Black and white Televisions	0.018	0.016	0.027	0.011	0.006	0.009	0.007	0.006	0.008	0.004	0.011
Calculators	0.007	0.007	0.004	0.008	0.006	0.006	0.008	0.008	0.009	0.007	0.007
Camping equipment	0.018	0.012	0.011	0.014	0.019	0.020	0.028	0.026	0.022	0.018	0.019
Carpeting	0.066	0.050	0.035	0.037	0.044	0.050	0.062	0.043	0.055	0.045	0.048
Cars				0.198	0.078	0.072	0.051	0.132	0.356	7.343	1.176
China and other dinnerware	0.014	0.021	0.025	0.025	0.029	0.030	0.039	0.039	0.041	0.036	0.030
Clocks	0.010	0.013	0.012	0.011	0.012	0.013	0.012	0.015	0.016	0.017	0.013
Clothes dryers	0.076	0.074	0.064	0.050	0.064	0.063	0.058	0.059	0.071	0.049	0.063
Clothes washers	0.109	0.074	0.068	0.083	0.095	0.085	0.081	0.081	0.091	0.067	0.083
Color Televisions	0.142	0.209	0.211	0.202	0.283	0.305	0.257	0.301	0.309	0.248	0.247
Computers	0.074	0.115	0.175	0.288	0.323	0.442	0.558	0.669	0.783	0.619	0.405
Curtains and drapes	0.029	0.028	0.036	0.038	0.041	0.047	0.054	0.064	0.060	0.080	0.048
Dishwashers	0.043	0.038	0.008	0.039	0.028	0.030	0.014	0.012	0.013	0.008	0.023
Fishing and hunting equipment	0.043	0.040	0.059	0.045	0.079	0.069	0.089	0.087	0.077	0.055	0.064
Footwear	0.405	0.465	0.495	0.534	0.551	0.566	0.586	0.577	0.555	0.369	0.510
Fresh flowers or potted plants	0.127	0.164	0.150	0.169	0.197	0.196	0.203	0.212	0.223	0.178	0.182
Glassware	0.008	0.008	0.010	0.009	0.013	0.011	0.014	0.016	0.016	0.016	0.012
Hand tools	0.020	0.017	0.025	0.025	0.039	0.040	0.034	0.038	0.033	0.022	0.029

Table B.2 Continues

Expenditure Category	1	2	3	4	5	6	7	8	9	10	Mean
Hard flooring	0.032	0.026	0.024	0.036	0.026	0.043	0.029	0.054	0.052	0.045	0.037
Heaters	0.046	0.034	0.028	0.027	0.038	0.033	0.029	0.034	0.027	0.023	0.032
Hosiery	0.073	0.086	0.089	0.095	0.100	0.099	0.101	0.099	0.093	0.063	0.090
Infants' accessories, hosiery, and footwear	0.017	0.021	0.026	0.024	0.028	0.027	0.029	0.026	0.026	0.016	0.024
Infants' coats, jackets and snowsuits	0.010	0.010	0.011	0.008	0.013	0.010	0.013	0.011	0.011	0.007	0.010
Infants' dresses and other outerwear	0.055	0.070	0.085	0.078	0.097	0.102	0.098	0.110	0.092	0.058	0.084
Infants' undergarments, incl. diapers	0.109	0.138	0.153	0.150	0.169	0.170	0.158	0.156	0.121	0.068	0.139
Jewelry	0.069	0.098	0.134	0.150	0.206	0.293	0.328	0.414	0.474	0.495	0.266
Kitchen and dining room linens	0.007	0.005	0.007	0.007	0.008	0.008	0.009	0.011	0.012	0.009	0.008
Kitchen/dining room furniture	0.038	0.057	0.059	0.088	0.077	0.096	0.112	0.125	0.201	0.203	0.105
Lamps and lights	0.020	0.024	0.033	0.030	0.029	0.033	0.041	0.042	0.049	0.046	0.035
Lawn and garden equipment	0.089	0.093	0.117	0.133	0.154	0.170	0.195	0.202	0.232	0.182	0.157
Living room furniture	0.072	0.084	0.122	0.120	0.138	0.178	0.183	0.191	0.245	0.239	0.157
Luggage	0.018	0.013	0.016	0.016	0.020	0.023	0.032	0.034	0.036	0.036	0.024
M/B coats, jackets and furs	0.061	0.058	0.078	0.081	0.095	0.096	0.106	0.110	0.121	0.090	0.089
M/B pants	0.189	0.239	0.297	0.332	0.326	0.352	0.368	0.363	0.340	0.232	0.304
M/B shirts	0.142	0.173	0.201	0.240	0.251	0.271	0.287	0.304	0.305	0.211	0.238
M/B shorts	0.059	0.058	0.052	0.068	0.078	0.082	0.084	0.091	0.086	0.059	0.072
M/B sleepwear	0.013	0.013	0.010	0.013	0.013	0.013	0.016	0.015	0.017	0.013	0.014
M/B sportcoats	0.021	0.023	0.028	0.033	0.034	0.046	0.045	0.055	0.063	0.060	0.041
M/B sweaters	0.026	0.025	0.035	0.042	0.048	0.050	0.055	0.057	0.061	0.050	0.045
M/B underwear	0.038	0.040	0.045	0.049	0.047	0.055	0.054	0.052	0.050	0.034	0.046
Mattress and springs	0.096	0.081	0.084	0.107	0.144	0.137	0.174	0.201	0.194	0.179	0.140
Men's active sportswear	0.024	0.017	0.022	0.025	0.029	0.032	0.035	0.036	0.038	0.035	0.029
Men's suits	0.047	0.040	0.057	0.074	0.064	0.073	0.095	0.095	0.131	0.131	0.081
Men's uniforms	0.017	0.015	0.010	0.012	0.015	0.015	0.015	0.016	0.020	0.014	0.015
Microwave ovens	0.036	0.023	0.024	0.025	0.028	0.031	0.030	0.030	0.030	0.021	0.028
Motorcycles, motor scooters				0.031	0.030	0.086	0.030	0.161	0.238	0.440	0.145

Table B.2 Continues

Expenditure Category	1	2	3	4	5	6	7	8	9	10	Mean
Musical equipment	0.020	0.022	0.022	0.037	0.050	0.068	0.082	0.093	0.100	0.099	0.060
Non-electric cookware	0.024	0.027	0.029	0.032	0.037	0.039	0.042	0.042	0.047	0.029	0.035
Office furniture	0.020	0.021	0.027	0.018	0.026	0.033	0.031	0.043	0.053	0.044	0.032
Other linens	0.006	0.005	0.004	0.007	0.004	0.005	0.005	0.005	0.006	0.005	0.005
Outdoor furniture	0.028	0.026	0.024	0.034	0.047	0.039	0.053	0.060	0.071	0.071	0.045
Personal care appliances	0.017	0.016	0.018	0.021	0.022	0.021	0.024	0.022	0.022	0.018	0.020
Photographic equipment	0.029	0.036	0.033	0.053	0.052	0.067	0.096	0.099	0.116	0.099	0.068
Photographic film	0.034	0.043	0.047	0.056	0.060	0.066	0.068	0.072	0.068	0.044	0.056
Playground equipment	0.017	0.010	0.009	0.011	0.009	0.021	0.022	0.016	0.016	0.025	0.016
Power tools	0.041	0.050	0.050	0.065	0.061	0.083	0.076	0.079	0.087	0.049	0.064
Radios	0.025	0.013	0.023	0.015	0.019	0.020	0.022	0.031	0.021	0.015	0.020
Refrigerators and freezers	0.146	0.121	0.112	0.125	0.133	0.160	0.173	0.186	0.167	0.149	0.147
Rugs	0.025	0.026	0.026	0.031	0.040	0.043	0.049	0.048	0.073	0.080	0.044
Satellite dishes	0.018	0.021	0.012	0.010	0.078	0.016	0.018	0.016	0.037	0.008	0.023
Serving pieces other than silver	0.004	0.005	0.006	0.005	0.006	0.006	0.006	0.006	0.007	0.006	0.006
Sewing machines	0.035	0.023	0.020	0.023	0.026	0.024	0.021	0.029	0.036	0.026	0.026
Sewing materials	0.058	0.064	0.075	0.073	0.074	0.084	0.083	0.074	0.080	0.051	0.072
Silver serving pieces	0.001	0.005	0.004	0.002	0.005	0.004	0.048	0.002	0.002	0.002	0.008
Slipcovers, decorative pillows and cushions	0.007	0.008	0.008	0.012	0.010	0.011	0.011	0.011	0.010	0.010	0.010
Small kitchen appliances	0.062	0.061	0.067	0.075	0.068	0.075	0.074	0.073	0.070	0.043	0.067
Sofas	0.067	0.077	0.149	0.138	0.187	0.207	0.215	0.278	0.333	0.336	0.199
Sports and exercise equipment	0.048	0.067	0.074	0.104	0.117	0.140	0.188	0.205	0.252	0.190	0.139
Stainless, silver and other flatware	0.009	0.014	0.010	0.011	0.013	0.012	0.015	0.017	0.018	0.016	0.014
Stereos	0.050	0.053	0.063	0.073	0.111	0.082	0.123	0.130	0.140	0.106	0.093
Stove and ovens	0.113	0.120	0.102	0.069	0.065	0.090	0.094	0.109	0.109	0.105	0.098
TV and computer games software	0.040	0.042	0.063	0.070	0.077	0.090	0.106	0.107	0.108	0.076	0.078
Telephones	0.052	0.055	0.053	0.072	0.071	0.078	0.085	0.086	0.078	0.056	0.069

Table B.2 Continues

Expenditure Category	1	2	3	4	5	6	7	8	9	10	Mean
Tires	0.237	0.283	0.380	0.381	0.432	0.417	0.433	0.441	0.399	0.256	0.366
Trucks						0.039	0.092	0.085	0.371	5.394	1.196
Typewriters	0.021	0.008	0.007	0.010	0.012	0.017	0.015	0.020	0.012	0.009	0.013
VCR, video disc player, camera, camcorder	0.058	0.062	0.075	0.100	0.088	0.076	0.101	0.105	0.102	0.065	0.083
Vacuums	0.041	0.038	0.061	0.056	0.064	0.066	0.070	0.065	0.068	0.040	0.057
Video cassettes, tapes, discs	0.113	0.116	0.130	0.144	0.145	0.158	0.157	0.151	0.138	0.093	0.135
W/G active sportswear	0.030	0.032	0.038	0.047	0.056	0.059	0.061	0.073	0.081	0.063	0.054
W/G coats, jackets and furs	0.082	0.096	0.108	0.115	0.127	0.129	0.135	0.143	0.145	0.119	0.120
W/G dresses	0.161	0.179	0.188	0.217	0.217	0.242	0.280	0.276	0.292	0.229	0.228
W/G shirts, tops and blouses	0.223	0.254	0.309	0.319	0.345	0.346	0.352	0.373	0.353	0.255	0.313
W/G shorts	0.077	0.076	0.093	0.100	0.104	0.103	0.110	0.118	0.102	0.071	0.095
W/G skirts	0.063	0.084	0.103	0.104	0.116	0.125	0.129	0.131	0.128	0.095	0.108
W/G sleepwear	0.044	0.059	0.062	0.062	0.065	0.071	0.072	0.076	0.073	0.055	0.064
W/G uniforms	0.023	0.023	0.030	0.025	0.030	0.031	0.036	0.038	0.035	0.028	0.030
Watches	0.029	0.040	0.042	0.052	0.044	0.065	0.059	0.066	0.075	0.084	0.056
Window air conditioners	0.082	0.098	0.062	0.047	0.040	0.056	0.033	0.051	0.030	0.021	0.052
Window coverings	0.026	0.026	0.020	0.025	0.032	0.045	0.041	0.069	0.067	0.068	0.042
Winter/water sports equipment	0.012	0.020	0.020	0.019	0.018	0.039	0.035	0.045	0.053	0.054	0.031
Women's pants	0.189	0.212	0.239	0.249	0.263	0.282	0.273	0.266	0.253	0.180	0.241
Women's sport coats and tailored jackets	0.018	0.019	0.017	0.026	0.021	0.025	0.028	0.032	0.036	0.029	0.025
Women's suits	0.065	0.055	0.068	0.078	0.086	0.084	0.108	0.106	0.115	0.106	0.087
Women's sweaters and vests	0.068	0.072	0.085	0.094	0.098	0.102	0.110	0.117	0.121	0.097	0.096
Women's undergarments	0.099	0.092	0.095	0.094	0.094	0.091	0.097	0.088	0.089	0.062	0.090
Mean	0.057	0.063	0.071	0.078	0.085	0.092	0.099	0.108	0.118	0.217	

<Table B.3: Decile Share of Total Spending (%): By Category>

Expenditure Category	Decile Points										10th/5th ratio
	1	2	3	4	5	6	7	8	9	10	
Accessories	1.09	2.33	3.35	4.65	6.61	8.02	11.28	13.95	20.32	28.38	4.29
Baby furniture and equipment	1.17	2.38	3.08	4.64	5.83	10.33	11.19	13.73	22.44	25.20	4.33
Bathroom linens	1.45	3.00	4.29	5.50	7.75	9.06	11.78	13.84	19.39	23.94	3.09
Bedroom furniture	0.33	0.88	2.10	2.13	3.65	5.25	9.41	15.52	22.21	38.51	10.56
Bedroom linens	1.36	2.49	3.99	4.67	6.55	8.71	10.94	14.97	19.71	26.62	4.06
Bicycles	0.71	1.12	2.46	3.23	5.82	8.67	11.91	19.43	23.67	22.97	3.95
Black and white Televisions	5.01	7.33	4.81	8.42	2.94	8.28	14.02	10.11	18.85	20.24	6.88
Calculators	1.35	2.73	1.96	5.75	7.36	7.34	13.53	15.74	16.72	27.51	3.74
Camping equipment	0.94	1.18	2.34	3.73	6.00	9.35	13.44	15.74	18.99	28.29	4.71
Carpeting	1.61	1.78	1.77	4.58	6.89	6.43	11.07	9.86	20.23	35.78	5.19
Cars				0.01	0.01	0.01	0.01	0.09	3.06	96.81	7435.95
China and other dinnerware	0.78	1.96	3.42	4.36	6.09	7.48	11.52	14.70	19.89	29.79	4.89
Clocks	2.28	2.87	4.45	5.38	6.22	8.10	10.09	11.42	17.60	31.59	5.08
Clothes dryers	0.68	2.90	3.50	3.17	7.06	9.83	10.65	13.95	22.35	25.92	3.67
Clothes washers	1.18	2.20	3.76	5.36	7.13	9.69	10.62	13.58	19.35	27.13	3.81
Color Televisions	1.04	2.89	3.56	4.35	7.58	8.64	10.32	14.53	19.87	27.22	3.59
Computers	0.23	0.67	1.47	3.16	4.30	6.83	10.91	16.07	23.67	32.70	7.60
Curtains and drapes	1.02	1.76	2.70	4.08	5.40	7.67	9.52	14.56	17.30	35.98	6.66
Dishwashers	2.50	2.50	1.11	5.14	12.69	12.06	14.62	7.27	20.81	21.29	1.68
Fishing and hunting equipment	0.84	1.83	3.75	3.96	8.66	8.95	12.63	16.65	19.00	23.75	2.74
Footwear	1.74	3.20	4.62	6.25	7.83	9.60	12.01	14.60	18.61	21.54	2.75
Fresh flowers or potted plants	1.35	2.96	3.64	5.17	7.38	8.45	10.90	14.18	19.22	26.74	3.63
Glassware	1.20	2.15	3.31	4.27	6.77	7.87	9.93	15.57	18.82	30.09	4.44
Hand tools	1.09	1.89	4.15	4.81	8.86	11.34	11.35	16.37	17.86	22.27	2.51

Table B.3 Continues

Expenditure Category	1	2	3	4	5	6	7	8	9	10	10th/5th ratio
Hard flooring	0.52	1.70	3.32	4.69	4.35	5.79	8.29	19.36	24.16	27.83	6.40
Heaters	2.88	3.33	5.22	5.77	9.22	9.62	11.37	15.41	14.69	22.50	2.44
Hosiery	1.92	3.52	4.88	6.45	8.13	9.92	11.67	13.90	17.77	21.85	2.69
Infants' accessories, hosiery, and footwear	1.48	3.27	5.30	5.92	8.57	10.11	13.01	14.10	18.63	19.61	2.29
Infants' coats, jackets and snowsuits	0.97	2.24	4.67	5.35	8.75	9.10	11.58	16.02	18.82	22.50	2.57
Infants' dresses and other outerwear	1.39	3.00	4.96	5.66	8.17	10.07	11.65	15.69	18.60	20.80	2.54
Infants' undergarments, incl. diapers	1.80	3.80	5.76	7.20	9.60	11.89	13.30	15.38	15.95	15.33	1.60
Jewelry	0.45	1.03	1.79	2.48	4.26	7.17	9.42	14.38	22.23	36.79	8.64
Kitchen and dining room linens	1.66	1.86	3.81	5.01	6.71	6.92	10.24	14.23	20.12	29.43	4.39
Kitchen/dining room furniture	0.22	1.19	1.67	3.29	3.64	5.80	8.92	11.21	24.34	39.72	10.91
Lamps and lights	0.95	2.08	3.80	4.29	5.24	7.23	10.38	13.24	20.32	32.47	6.20
Lawn and garden equipment	0.70	1.56	3.42	4.43	6.43	7.84	10.82	14.34	22.33	28.12	4.37
Living room furniture	0.67	1.41	2.99	3.72	4.75	7.84	9.86	12.39	21.24	35.13	7.40
Luggage	0.64	1.23	2.13	3.19	4.51	6.24	11.55	13.90	22.71	33.90	7.52
M/B coats, jackets and furs	1.04	2.11	3.08	4.86	7.10	7.32	10.29	14.18	21.80	28.22	3.98
M/B pants	1.40	2.81	4.45	6.17	7.43	9.86	12.31	14.71	18.63	22.22	2.99
M/B shirts	1.27	2.38	3.74	5.53	6.98	9.12	11.65	15.14	20.23	23.95	3.43
M/B shorts	1.34	2.03	3.17	5.09	6.99	9.68	12.26	14.39	20.60	24.46	3.50
M/B sleepwear	1.35	1.78	3.57	5.34	5.90	8.80	11.57	13.81	21.38	26.51	4.50
M/B sportcoats	0.70	1.57	2.34	4.05	4.99	7.57	9.80	13.86	18.88	36.24	7.26
M/B sweaters	1.04	1.48	3.27	5.15	6.32	7.89	11.14	14.40	20.06	29.25	4.63
M/B underwear	1.82	3.21	4.69	5.85	7.36	10.22	12.03	14.32	18.36	22.15	3.01
Mattress and springs	0.54	1.44	2.41	3.88	6.44	7.10	10.96	15.60	21.07	30.57	4.75
Men's active sportswear	1.20	1.59	2.88	3.85	6.46	7.91	10.78	14.29	20.13	30.91	4.78
Men's suits	0.50	0.77	2.23	3.69	4.31	6.34	10.00	12.51	21.55	38.10	8.85
Men's uniforms	0.83	1.59	2.61	4.13	7.87	9.13	9.92	14.94	24.20	24.77	3.15
Microwave ovens	1.24	2.06	3.10	4.43	6.95	9.48	12.05	15.66	21.21	23.82	3.43
Motorcycles, motor scooters				0.28	0.37	1.65	0.71	9.11	17.29	70.58	191.37

Table B.3 Continues

Expenditure Category	1	2	3	4	5	6	7	8	9	10	10th/5th ratio
Musical equipment	0.24	0.76	1.04	2.64	4.69	7.06	11.40	16.52	22.91	32.75	6.98
Non-electric cookware	1.50	2.66	3.82	5.61	7.33	9.27	11.89	15.37	20.67	21.88	2.99
Office furniture	0.35	1.13	1.95	2.13	4.43	7.73	10.63	15.77	24.51	31.35	7.08
Other linens	1.08	3.14	3.28	5.08	5.20	7.71	11.44	13.42	22.06	27.59	5.31
Outdoor furniture	0.45	0.88	1.27	2.77	6.50	5.03	11.43	13.19	17.82	40.64	6.25
Personal care appliances	1.85	2.98	3.98	6.21	7.47	8.78	12.44	13.58	18.53	24.19	3.24
Photographic equipment	0.55	1.44	1.66	3.77	4.22	6.92	11.63	15.41	22.49	31.92	7.56
Photographic film	1.90	2.95	4.27	6.54	7.91	10.13	11.80	14.37	18.75	21.37	2.70
Playground equipment	0.49	0.49	1.20	2.84	3.99	12.34	10.09	17.18	18.06	33.31	8.34
Power tools	0.91	1.90	3.32	6.02	6.48	10.91	12.22	15.63	20.41	22.20	3.43
Radios	2.41	1.90	5.83	4.76	7.17	9.99	13.04	16.95	16.31	21.64	3.02
Refrigerators and freezers	0.75	1.93	3.10	4.76	6.12	8.87	11.78	15.85	18.37	28.47	4.65
Rugs	0.87	1.53	1.99	3.46	5.50	7.47	9.25	11.47	22.17	36.29	6.60
Satellite dishes	2.86	3.51	4.50	6.68	7.80	6.21	11.97	15.13	20.50	20.83	2.67
Serving pieces other than silver	0.87	1.99	3.54	4.80	6.51	8.98	12.62	12.31	19.35	29.03	4.46
Sewing machines	1.44	1.89	2.12	6.05	7.29	7.31	11.15	11.91	24.88	25.96	3.56
Sewing materials	1.88	3.24	5.24	6.20	7.83	10.06	12.65	13.88	18.63	20.40	2.61
Silver serving pieces	0.03	1.93	3.01	5.21	12.09	8.82	7.30	11.55	20.99	29.08	2.41
Slipcovers, decorative pillows and cushions	0.87	2.22	3.15	5.34	6.57	8.36	11.72	15.98	17.31	28.47	4.33
Small kitchen appliances	2.31	3.52	5.00	7.01	7.81	10.36	12.18	14.61	17.92	19.29	2.47
Sofas	0.24	0.92	2.52	2.65	5.28	6.96	8.84	14.82	21.30	36.47	6.90
Sports and exercise equipment	0.54	1.37	2.00	3.70	4.78	6.95	11.12	15.10	23.85	30.60	6.40
Stainless, silver and other flatware	0.80	3.23	3.65	4.46	6.52	7.03	10.01	15.48	20.08	28.75	4.41
Stereos	0.85	1.70	2.88	4.30	7.23	6.55	11.81	14.96	22.07	27.66	3.83
Stove and ovens	1.06	2.13	3.02	4.13	4.84	7.42	9.90	14.47	20.05	32.98	6.82
TV and computer game software	0.99	1.77	3.54	4.90	6.14	8.49	12.20	15.97	20.96	25.05	4.08
Telephones	1.66	2.83	3.54	6.23	7.15	9.51	12.67	15.79	18.53	22.09	3.09

Table B.3 Continues

Expenditure Category	1	2	3	4	5	6	7	8	9	10	10th/5th ratio
Tires	1.38	2.80	5.05	6.28	8.26	10.00	12.68	15.85	18.49	19.22	2.33
Trucks						0.01	0.03	0.03	2.46	97.47	-
Typewriters	1.20	2.19	2.04	5.57	7.92	7.51	12.42	17.20	17.06	26.88	3.39
VCR, video disc player, camera, camcorder	1.33	2.47	4.33	6.52	7.86	7.92	11.89	14.51	20.98	22.19	2.82
Vacuums	1.46	2.21	4.41	6.14	8.21	9.56	12.81	14.53	19.93	20.74	2.52
Video cassettes, tapes, discs	1.82	3.13	4.76	6.50	7.99	10.46	12.50	14.89	17.78	20.18	2.53
W/G active sportswear	0.90	1.72	2.81	4.38	6.20	8.15	10.30	14.58	21.53	29.42	4.75
W/G coats, jackets and furs	1.40	2.63	3.61	5.04	7.45	8.42	10.92	13.69	18.98	27.86	3.74
W/G dresses	1.33	2.39	3.38	4.78	5.94	8.45	11.40	14.08	19.55	28.70	4.83
W/G shirts, tops and blouses	1.49	2.83	4.50	5.83	7.98	9.43	11.30	15.45	18.59	22.61	2.83
W/G shorts	1.20	2.24	4.25	5.62	6.67	8.71	11.79	15.90	18.87	24.76	3.71
W/G skirts	1.03	2.74	4.12	5.03	6.75	9.06	11.21	14.74	19.39	25.92	3.84
W/G sleepwear	1.54	3.18	4.34	5.46	7.02	9.74	11.30	14.35	18.12	24.96	3.55
W/G uniforms	1.00	2.40	4.45	4.05	7.05	8.44	11.63	15.49	19.17	26.32	3.73
Watches	1.05	2.37	3.06	4.69	5.26	8.52	9.43	12.90	18.34	34.37	6.53
Window air conditioners	4.58	5.58	8.48	9.20	6.40	9.32	11.85	13.16	15.55	15.90	2.48
Window coverings	0.76	2.26	1.83	2.95	4.22	7.89	8.69	13.63	21.14	36.64	8.69
Winter/water sports equipment	0.08	0.66	1.60	2.17	3.07	8.30	8.87	14.42	19.83	40.98	13.36
Women's pants	1.78	3.10	4.74	6.24	7.80	10.01	12.15	14.14	18.31	21.73	2.79
Women's sport coats and tailored jackets	0.68	2.28	2.81	4.98	5.34	7.67	10.48	14.77	20.75	30.25	5.66
Women's suits	1.06	2.03	3.17	4.30	6.17	7.48	11.15	13.67	18.90	32.09	5.20
Women's sweaters and vests	1.30	2.33	3.55	5.26	6.74	7.76	10.34	14.26	19.74	28.71	4.26
Women's undergarments	2.51	3.83	5.28	6.48	8.00	8.99	11.72	13.46	17.73	22.00	2.75
Average	1.20	2.20	3.33	4.73	6.45	8.29	10.94	14.10	19.54	29.21	
Std.	0.80	1.05	1.36	1.53	1.96	1.96	2.24	2.63	3.14	12.00	
CV	0.66	0.48	0.41	0.32	0.30	0.24	0.20	0.19	0.16	0.41	