



Exploring the Effects of Socioeconomic and Demographic Variables on Household Expenditures

Consumer Expenditure Survey Program Data Users' Needs Forum

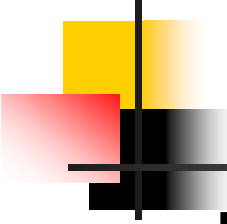
Bureau of Labor Statistics

June 22, 2010

Presented by:

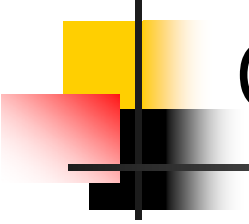
Janet Wagner, PhD

Director, Center for Excellence in Service



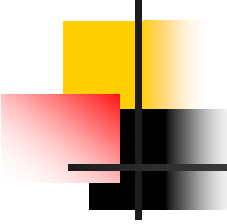
Output: Articles in Refereed Journals

- “The Moderating Effect of Seasonality on Household Apparel Expenditures, *Journal of Consumer Affairs*,” Wagner and Mokhtari.
- “Economic Dimensions of Household Gift-Giving,” *Journal of Consumer Research*, Garner and Wagner
- “The Effects of Hispanic and Afro-American Ethnicity on Consumer Expenditures,” *Social Science Journal*, Wagner and Soberon-Ferrer.
- “Social Class: A Multivariate Analysis of its Effect on Expenditures for Household Services,” *Journal of Consumer Studies and Home Economics*,” Wagner and Lucero-Campins.
- “Expenditures for Household Textiles and Textile Home Furnishings: An Engel Curve Analysis,” *Home Economics Research Journal*, Wagner.
- “The Effectiveness of Family Life Cycle Variables in Consumer Expenditure Research,” *Journal of Consumer Research*, Wagner and Hanna.



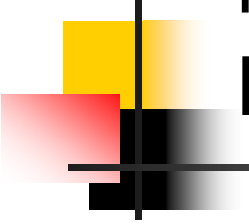
Output: Presentations at Marketing Conferences

- American Marketing Association Educators' Conference
 - “The Moderating Effects of Social Class and Ethnicity on Household Apparel Expenditures,” Wagner, Durand and Dorsett.
- American Marketing Association Service Special Interest Group
 - Model of Household Service Production,” Wagner and Mokhtari.
- Association for Consumer Research
 - “Consumer Expenditures in Major Gift Categories,” Wagner and Garner.
 - “Family Life Cycle Variables as Predictors of Clothing Expenditures,” Wagner.



Output: Presentations at Consumer Sciences Conferences

- American Council on Consumer Interests
 - “The Consumer Expenditure Survey Series: Applications in Academic Research,” Wagner.
- International Textile and Apparel Association
 - “Socioeconomic and Demographic Determinants of Expenditures for Clothing-Related Services,” Wagner and Press.
 - “Socioeconomic and Demographic Determinants of Footwear Expenditures,” Wagner and Sinclair.
 - “A Comparison of the Ability of FLC and FC Models to Predict Household Clothing Expenditures,” Wagner and McCullough.
- American Association of Family and Consumer Sciences (formerly AHEA)
 - “Family Clothing Expenditures: A Comparison of Traditional FLC and Family Composition Models...” Wagner and Hanna.



Recent work: Effect of Seasonality of Household Expenditures for Services

- Rationale:
 - Services account for 80% of GDP in U.S.
- Categories analyzed:
 - Household Operations: expenditures for cleaning, gardening, household repairs and maintenance
 - Entertainment: expenditures for fees and admissions
 - Food Away from Home: expenditures for food consumed outside the home
- Analytical method: Tobit regression

Data are from quarterly interview panel

Panel begins.
Information collected for
“bounding.”

	2001												
	Quarter 1			Quarter 2			Quarter 3			Quarter 4			
Panel	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan
1	2			3			4			5			
2		2			3			4			5		
3			2			3			4			5	
4	1			2			3			4			5
5		1			2			3			4		
6			1			2			3			4	
7							2			3			
8					1			2			3		
9						1			2			3	
10							1			2			

Quarterly
expenditure
interviews begin.

Quarterly
expenditure
interviews end.
Panel ends.

Seasonal Effects on Service Expenditures: Household Operations

Variable	Quarter			
	Winter	Spring	Summer	Fall
Tot. Exp.	***	***	***	***
Age		*		
Single				
Black	**		**	
Asian			**	
Hispanic				
B.S.				*
Graduate	*		*	***
Professional		*		*
Sales/Admin.				
Service		**		**
Farming				
Government	*			
CU Size	(***)	(***)	(***)	(***)
Own home	**		***	
Student housing				(***)
# Child <18	***	***		**
# Persons >64			***	*
Neast	(*)			
Mwest	(***)			
Rural		(**)		
Pop >4M	***			
Pop 1.2-4M				
Goodness of Fit	0.15	0.18	0.16	0.19
# Observations	2603	2487	2579	2551
% Right Censored	8.5	8.3	9.6	7.8

Personal
Characteristics

CU
Characteristics

Demographics

Seasonal Effects on Service Expenditures: Entertainment

**Personal
Characteristics**

Demographics

**CU
Characteristics**

Variable	Quarter			
	Winter	Spring	Summer	Fall
Tot. Exp.	***	***	***	***
Age				(***)
Single				
Black	(**)	(**)	(*)	
Asian	(***)	(**)	(*)	(**)
Hispanic	(*)	(***)	(***)	(***)
B.S.	**	**	**	**
Graduate	*	**	***	***
Professional		f		
Sales/Admin.		*		
Service				
Farming				
Government				
CU Size	(***)	(**)	(***)	(***)
Own home	**		***	
Student housing	(**)			(**)
# Child <18		*		***
# Persons >64	(*)		(***)	
Neast	(*)			
Mwest		**	**	*
West			***	
Rural		(**)		
Pop >4M	***			
Pop 1.2-4M				
Goodness of Fit	0.12	0.15	0.14	0.16
# Observations	2603	2487	2579	2551
% Right Censored	10.1	10.9	11.4	9.1

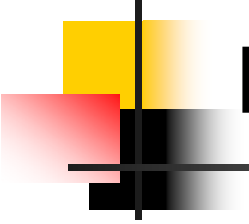
Seasonal Effects on Service Expenditures: Food Away from Home

**Personal
Characteristics**

Demographics

**CU
Characteristics**

Variable	Quarter			
	Winter	Spring	Summer	Fall
Tot. Exp.	***	***	***	***
Age			(*)	(***)
Single				
Black	(***)	(***)		(***)
Asian				
Hispanic				(**)
B.S.	**	**	**	**
Graduate	*	**	***	***
Professional				
Sales/Admin.		*		
Service				
Farming		(*)		
Government				
CU Size	(***)		(***)	
Own home	(**)		(***)	(**)
Student housing	(**)		(***)	(**)
# Child <18				(*)
# Persons >64		**		
Neast	(**)	(**)		
Mwest				(**)
West	(***)		(**)	(***)
Rural		(*)		
Pop >4M				
Pop 1.2-4M				
Goodness of Fit	0.12	0.13	0.14	0.12
# Observations	2603	2487	2579	2551
% Right Censored	16	17.5	16.01	16.9



Evaluation of CE Data

- Keep up the excellent work!
 - This is the richest and most useful source of data on the income, expenditures, and socioeconomic/demographic characteristics of U.S. households
- Going forward:
 - Create a category for communication and information services



Thank you!

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