

Personal Consumption Expenditures

New Classification System

Clinton P. McCully BEA Advisory Committee Meeting May 2, 2008

Measuring the Nation's Economy.





PCE Classification Background

- PCE classification system born in 1944
 - Since 1944 . . .
 - Large increases in consumer incomes
 - Changes—demographic, technological, cultural, legal, tastes
 - Many new goods and services
 - Increased importance of services, including nonprofit organizations
 - Marginalization/obsolescence of other goods and services
 - New and expanded sources of funding
- PCE classification in 2008
 - About the same as 1944





PCE Functional Structure

1944	Today
Food and tobacco	Food and tobacco
Clothing, accessories, and jewelry	Clothing, accessories, and jewelry
Personal care	Personal care
Housing	Housing
Household operation	Household operation
Medical care and death expenses	Medical care
Personal business	Personal business
Transportation	Transportation
Recreation	Recreation
Private education and research	Education and research
Religious and welfare activities	Religious and welfare activities
Foreign travel and remittances, net	Foreign travel and other, net





PCE Product Structure

1954	Today		
Durable goods	Durable goods		
Automobiles and parts	Motor vehicles and parts		
Other	Furniture and household equipment		
	Other		
Nondurable goods	Nondurable goods		
Food	Food and beverages		
Clothing and shoes	Clothing and shoes		
Gasoline and oil	Gasoline, fuel oil, and other energy goods		
	Gasoline and oil		
	Fuel oil and coal		
Other —	Other		
Services	Services		
Housing	Household operation		
Household operation	Household operation		
	Electricity and gas		
	Other		
Transportation	Transportation		
Other	Medical care		
	Recreation		
	Other		





New PCE Classification What It Is

- New structures
 - Type of expenditure (functional)
 - Type of product (by durability)
- Functional structure combines structures for individual and nonprofit consumption in the 1993 UN System of National Accounts
 - Classification of Individual Consumption by Purpose (COICOP)
 - Classification of Total Outlays of Non-Profit Institutions
 Serving Households (NPISH) by Purpose (COPNI)
- Product structure more closely aligned with functional structure





New PCE Classification What It Accomplishes

- Creates a relevant, logical and demand-based structure
- Accounts for transactions between households and NPISH
- Achieves greater consistency with household surveys
- Improves PCE deflation by precisely matching categories with associated price indexes
- Facilitates comparisons with other countries
- Achieves greater consistency with NAICS





New PCE Classification Incorporation

- 2002 I/O benchmark estimates
 - Released in September 2007
 - New PCE categories, not full aggregation structure
- Benchmark estimates in 2009
 - Time series back to 1929





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(NPISH)

No change in total

1997 (\$billions)

INEVV				
Household Consumption Expenditures				
	and beverages purchased for off- emise consumption			
2. Clothii	ng and footwear			
3. Housin	ng and utilities			
	hings, household equipment and utine household maintenance			
Health	1			
6. Transp	portation			
7. <u>Comm</u>	<u>unication</u>			
8. Recrea	ation			
9. Educa	tion			
10. <u>Food</u>	services and accommodations			
11. <u>Fina</u> ı	ncial services and insurance			
12. Othe	r goods and services			

Final Consumption Expenditures of

Nonprofit Institutions Serving Households

:W	No change in total	`	· ,	_
. VV		5547.4	5547.4	
isehold Consumpt	ion Expenditures	5440.4		
1. Food and beverage premise cons	ges purchased for off- umption	474.9	850.0	
2. Clothing and foot	wear	263.8	337.4	
3. Housing and utili	ties	986.4	82.9	
	ehold equipment and	282.7	842.6	
	ehold maintenance		616.2	
5. Health		932.8	1002.8	
6. Transportation		634.4	412.9	
7. Communication		121.6	685.2	
8. Recreation		521.9	474.5	
9. Education		98.3	129.7	
10. Food services a	and accommodations	348.0	134.2	
11. Financial service	ces and insurance	427.6		
12. Other goods an	d services	368.8		
13. Net foreign trav	el and expenditures abroad	d -21.1	-21.1	
al Consumption E	10-5			
	ns Serving Households	107.3		
PISH)				

CURRENT

- Food and tobacco 1.
- Clothing, accessories, and jewelry
- Personal care
- Housing
- Household operation
- Medical care
- Personal business
- Transportation
- Recreation
- 10. **Education and research**
- 11. Religious and welfare activities
- 12. Foreign travel by U.S. residents







NFW

Household Consumption Expenditures

- 1. Food and beverages purchased for offpremise consumption
- 2. Clothing and footwear
- 3. Housing and utilities
- 4. Furnishings, household equipment and routine household maintenance

New categories

- 5. Health
- 6. Transportation
- 7. Communication
- 8. Recreation
- 9. Education
- 10. Food services and accommodations
- 11. Financial Services and Insurance
- 12. Other goods and services
- 13. Net foreign travel and expenditures abroad

Final Consumption Expenditures of Nonprofit Institutions Serving Households (NPISH)

1997 (\$billions)

	<u> </u>	
	5547.4	5547.4
	5440.4 474.9	850.0
	263.8	337.4
	986.4	82.9
	202.7	842.6
_	282.7	616.2
ı	932.8	1002.8
	634.4	412.9
	121.6	685.2
	521.9	474.5
	98.3	129.7
	348.0	134.2
	427.6	
	368.8	
	-21.1	-21.1
	107.3	

CURRENT

- Food and tobacco
- Clothing, accessories, and jewelry
- Personal care
- 4. Housing
- 5. Household operation
- 6. Medical care
- Personal business
- 3. Transportation
- 9. Recreation
- 10. Education and research
- 11. Religious and welfare activities

12. Foreign travel by U.S. residents

Disappearing Categories



474.9

NEW

Household Consumption Expenditures

- 1. Food and beverages purchased for off premise consumption
- 2. Clothing and footwear
- 3. Housing and utilities
- 4. Furnishings, household equipment and routine household maintenance alth 53.3 Tobacco
- 5. Health
- 6. Transportation
- 7. Communication
- 8. Recreation
- 9. Education
- 10. Food services and accommodations
- 11. Financial services and insurance
- 12. Other goods and services
- 13. Net foreign travel and expenditures abroad

Final Consumption Expenditures of Nonprofit Institutions Serving Households (NPISH)

CURRENT

- Food and tobacco
- Clothing, accessories, and jewelry
- 3. Personal care
- 4. Housing
- Household operation 5.
- Medical care
- Personal business
- **Transportation**
- Recreation
- 10. Education and research
- 11. Religious and welfare activities
- 12. Foreign travel by U.S. residents





NEW

Household Consumption Expenditures

- 1. Food and non-alcoholic beverages
- 2. Clothing and footwear
- 3. Housing and utilities
- 4. Furnishings, household equipment and routine household maintenance
- 5. Health
- 6. Transportation
- 7. Communication
- 103.6 Telephone

268,1

- 8. Recreation
- 9. Education
- 10. Food services and accommodations
- 11. Financial services and insurance
- 12. Other goods and services
- 13. Net foreign travel and expenditures abroad

Final Consumption Expenditures of Nonprofit Institutions Serving Households (NPISH)

CURRENT

- 1. Food and tobacco
- Clothing, accessories, and jewelry
- Personal care
- 4. Housing
- 5. Household operation
- Medical care
- 7. Personal business
- 8. Transportation
- 9. Recreation
- 10. Education and research
- 11. Religious and welfare activities
- 12. Foreign travel by U.S. residents





NEW

Household Consumption Expenditures

- 1. Food and beverages purchased for offpremise consumption
- 2. Clothing and footwear
- 3. Housing and utilities
- 4. Furnishings, household equipment and routine household maintenance
- 5. Health
- 6. Transportation
- 7. Communication
- 8. Recreation
- 9. Education
- 10. Food services and accommodations
- 11. Financial Services and Insurance
- 12. Other goods and services
- 13. Net foreign travel and remittances

<u>Final Consumption Expenditures of</u>
<u>Nonprofit Institutions Serving Households</u>
(NPISH)

CURRENT

- Food and tobacco
- Clothing, accessories, and jewelry
- Personal care
- 4. Housing

65.1

37.8

- 5. Household operation
- 6. Medical care
- 55.2 Personal business
 - Transportation
 - Recreation
 - 10. Education and research
 - 11. Religious and welfare activities
 - 12. Foreign travel by U.S. residents

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New PCE Functional Classification

Household Consumption Expenditures

(Categories 1 to 13)

- Includes: Purchases from nonprofits
- Final Consumption Expenditures of Nonprofit Institutions Serving Households (NPISH)
 - Equals: Gross Consumption Expenditures
 Less
 Sales to Households





NEW Structure

PCE Product Classification

CLIDDENT Structure

NEW Structure	1997	7 <u>CUI</u>	RRENT Structure
Durable Goods	721.6	692.7	Durable Goods
Motor vehicles and parts	293.1	305.1	Motor vehicle and parts
Furnishings and durable household	166.0	256.2	Furniture and household
equipment			equipment
Recreational goods and vehicles	154.6	131.4	Other
Other durable goods	107.8		
Nondurable Goods	1292.8	1619.0	Nondurable Goods
Food and beverages purchased for	474.9	796.2	Food
off-premise consumption			Purchased meals to services
Clothing and footwear	249.3	258.1	Clothing and shoes
Gasoline and other energy goods	147.7	147.7	Gasoline, fuel oil & other energy
			goods
Other nondurable goods	421.0	416.9	Other
Services	3533.0	3235.8	Services





PCE Product Classification (cont.)

NEW Structure

1997

CURRENT Structure

Services	3533.0	3235.8	Services
Household consumption	3425.7		
expenditures			
Housing and utilities	973.2	842.6	Housing
Health care	803.8	337.0	Household operation services
Transportation services	206.9	245.7	Transportation services
Recreation	213.9	873.0	Medical care services
Food services & accommodations	348.0	215.1	Recreation services
Financial services and insurance	427.6	722.4	Other services
Other services	452.3		
Final consumption expenditures of	107.3		
nonprofit institutions serving			
households			
		New cate	gories



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PCE Product Classification

NEW Structure

Durable Goods Nondurable Goods Food and beverages purchased for off- 474.9 premise consumption Nondurable recreational items, n.e.e. **Services** Food services & accommodations

CURRENT Structure

Durable Goods

Motor vehicle and parts

Furniture and household equipment

Others

Nondurable Goods

Food

Clothing and shoes

Gasoline, fuel oil & other energy goods

Others

Services

Housing

Household operation services

Transportation services

Medical care services

Recreation services

Other services

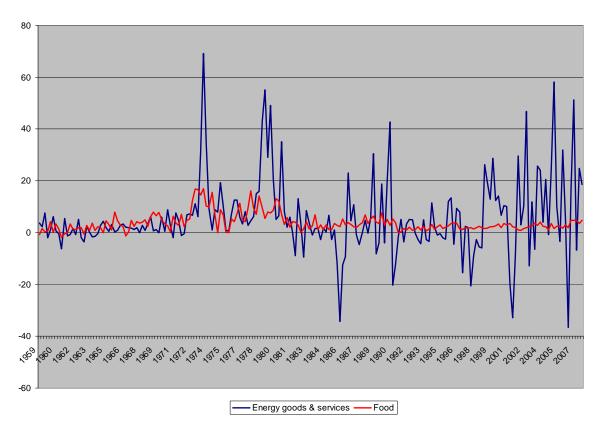


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PCE Food and Energy Price Indexes

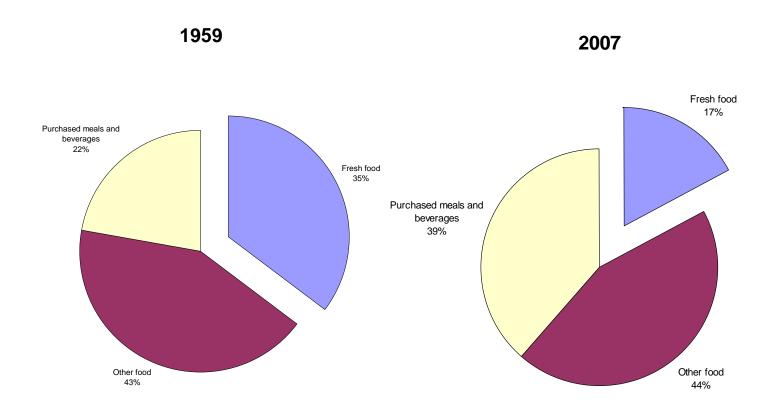
Percent change from previous quarter, annual rate







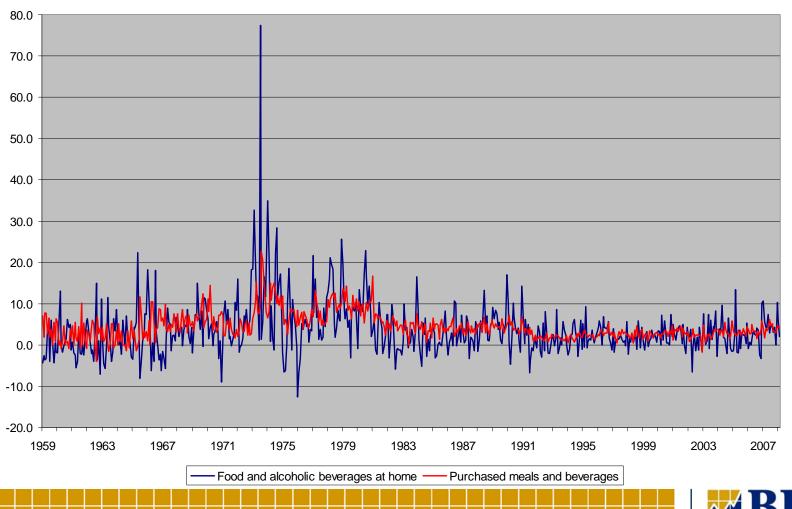
PCE Food Shares





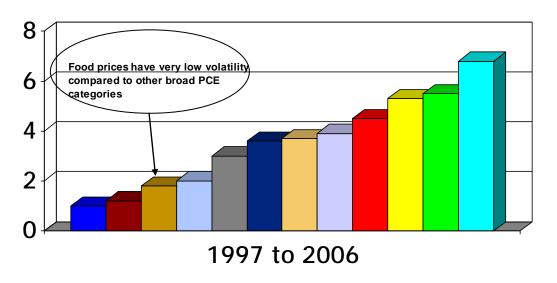
PCE Food Price Indexes

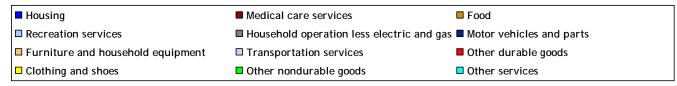
Percent change from previous month, annual rate



Volatility of PCE Food and Other Non-Energy Prices

RMSE of 1-month annual rate percent changes vs. trend









New PCE Classification & "Core" PCE Price Index

Volatility of prices excluded in current PCE excluding food and energy price index

- Purchased meals and beverages--Low
- Food purchased for off-premise consumption—Higher
 - Processed foods—Moderate
 - Fresh foods—High
- Energy—Very high

PCE excluding food and energy in the new classification will not exclude purchased meals and beverages

- Also true for market-based PCE excluding food and energy
- PCE less energy will also be available

