

Transparency for Public-Use Microdata from the Consumer Expenditure Survey

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CNSTAT Panel on Transparency and Reproducibility

10 September 2019

Which statistical business life cycle steps are affected?



Consumer Expenditure Surveys

- The Consumer Expenditure Surveys (CE) provides continuous and comprehensive information on the buying habits of U.S. consumers.
- The spending shares for items in the survey are used as weights for the Consumer Price Index.



Consumer Expenditure Surveys

- Survey conducted by BLS
- Data collected by Census
- Tabular data reported every 6 months
 - ▶ Based on past 12 months
- PUMD released yearly
- Reclassified data used as input to CPI



CE Surveys

■ Two surveys:

▶ Interview

- Respondents interviewed for 4 quarters (every 3 months)
- Questioned about previous 3 months
- Data collected every month through rotating sample
- Includes large or recurring expenses (e.g., rent)

▶ Diary

- Diary issued (almost) weekly, sent to each respondent once
- Covers expenses for 2 week period
- Each week handled separately
- Includes small, frequent expenses (e.g., groceries)

CE Processing

■ Production – 4 phases or subsystems

- ▶ 1) Data Collection Subsystem
- ▶ 2) Initial Edit Subsystem (IES)
 - Monthly processing of data received from Census
 - Edits, Recodes, Weighting
- ▶ 3) Estimation Edit Subsystem (EES)
 - Quarterly calculations of expenditure estimates; data sent to CPI
 - Additional edits, adjustments, estimation
- ▶ 4) Dissemination Subsystem
 - Measures; Tables; Microdata

Public-Use Microdata

- Annual release
 - ▶ 1996-2017
 - ▶ Pre-1996 at ICPSR
- Microdata provided in 2 formats
 - ▶ Household level data with adjustments
 - Some missing data estimated
 - Anonymized
 - ▶ Household level data without adjustments
 - Restricted use
 - Contains identifying information

Public-Use Microdata

- Documentation
 - ▶ Large PDF files per year
 - ▶ Newer resources are helpful
 - e.g., Getting Started Guide, Excel Data Dictionary
 - ▶ But, some problems remain
- Contain mistakes
- Hard to find particular information
- Hard to compare across years
- Difficult to determine when changes occur



What are the relevant classes of information needed?



Needs for PUMD Documentation

■ Describe variables

- ▶ List yearly sets
- ▶ Show how variables evolve over time
- ▶ Map back and forth to questions
- ▶ Show derivations
 - Constituent questions
 - Mapping cardinalities
 - One to one
 - Many to one
 - One to many

Needs for PUMD Documentation

■ Some things we can't show

- ▶ All processing steps
- ▶ Specific allocation or imputation
 - Example
 - Household vehicle ownership
 - 2018 Honda
 - 1998 Lexus
 - 1962 Ferrari
 - That information is almost certainly identifying
 - The way it gets changed could be reverse engineered
- ▶ We choose to avoid this problem
- ▶ Show beginning (questions) and end (microdata variables)

Problem: Current Metadata Structure

- Fragmentation among the subsystems
- Metadata exists in different folders and forms, for different surveys, subsystems, and years
- Many different points of manual input and alteration
- There is a need across all subsystems of CE to develop a standardized method for documenting and linking metadata



Road to Transparency - Needs

- Effectively describe PUMD
 - Relate questions and variables
 - Hide most internal processing steps
 - Show changes over time
 - Show similarities and differences across surveys
-
- How?

Identify or build metadata specification



Road to Transparency - Specification

- Either

- ▶ build a specification
 - time consuming

- or

- ▶ select a standard
 - may need to accept less than ideal solution

- that meets the needs

Data Documentation Initiative (DDI)

- International metadata standard
 - ▶ useful for describing social science datasets
- DDI currently comes in 2 flavors
 - ▶ DDI Codebook
 - Stand-alone descriptions / Does not support reuse
 - ▶ DDI Lifecycle
 - Supports reuse / Describes statistical lifecycle
 - Sophisticated description of variables



Realistic Solution: DDI for the Public

- Documenting the end state of the data across time
- Solves persistent user issues
 - ▶ Highlights discontinuities and adds context
- Documenting the beginning of the data at collection
 - ▶ Questions and responses
- Link these two things at a cursory level
 - ▶ Tells users what questions produce what PUMD variables
 - ▶ How that has changed over time

Conformance criteria



Solution

■ Use commercial software

▶ Colectica

- Repository
- Portal – user interface

▶ Conforms to DDI Lifecycle

- Currently version 3.2

■ Iterative development

▶ 3rd pilot system

■ System overview --

Consumer Expenditure

Series Description

Title Consumer Expenditure

- Sub Series
- Diary (by quarter)
 - Interview (by quarter)
 - Diary (by dataset)
 - Interview (by dataset)

Data

- Topics
- Appliances, Household Equipment, and Other Selected Items
 - Clothing and Sewing Materials
 - Construction, Repairs, Alterations, and Maintenance of Property
 - Credit Liability
 - Educational Expenses
 - Expense Patterns for Food, Beverages, and Other Selected Items
 - General Survey Information
 - Home Furnishings and Related Household Items
 - Hospitalization and Health Insurance
 - Household Equipment Repairs, Service Contracts, and Furniture Repair and Reupholstering
 - Insurance Other Than Health
 - Medical and Health Expenditures
 - Miscellaneous Expenses

Clothing and Sewing Materials

Consumer Expenditure Variables Consumer Expenditure Variables

Appears Within

- Series
 - Consumer Expenditure
- Conceptual Variable Groups
 - Consumer Expenditure Variable
- Conceptual Variable Sets
 - Consumer Expenditure Variable

Label Clothing and Sewing Materials

Groups

- General
- Clothing
- Infants Clothing, Watches, Jewelry, and Hairpieces
- Sewing Materials
- Clothing Services

Appears Within

- Series
 - Consumer Expenditure
- Conceptual Variable Groups
 - Clothing and Sewing Materials
 - Consumer Expenditure Variable
- Conceptual Variable Sets
 - Consumer Expenditure Variable

Label Clothing

Conceptual Variables

Name	Label
CLOTHYA	Clothing Item code
CLOTHQA	Number of clothing items purchased
CLOTHMOA	Month clothing item purchased
CLOTHXA	Purchase price of clothing
AGE_SEXA	Age/sex code of person for whom clothing item was purchased
CLOGFTA	Was the purchase a gift or non-gift?
CLOTHA1	If CLOTHYA = 900, then CLOTHA1 will contain the first code mentioned of the multiple items indicated in CLOTHYA
CLOTHA2	If CLOTHYA = 900, then CLOTHA2 will contain the first code mentioned of the multiple items indicated in CLOTHYA
CLOTHA3	If CLOTHYA = 900, then CLOTHA3 will contain the first code mentioned of the multiple items indicated in CLOTHYA
CLOTHA4	If CLOTHYA = 900, then CLOTHA4 will contain the first code mentioned of the multiple items indicated in CLOTHYA
CLOTHA5	If CLOTHYA = 900, then CLOTHA5 will contain the first code mentioned of the multiple items indicated in CLOTHYA
CLOTHA6	If CLOTHYA = 900, then CLOTHA6 will contain the first code mentioned of the multiple items indicated in CLOTHYA
CLOTHA7	If CLOTHYA = 900, then CLOTHA7 will contain the first code mentioned of the multiple items indicated in CLOTHYA
CLOTHA8	If CLOTHYA = 900, then CLOTHA8 will contain the first code mentioned of the multiple items indicated in CLOTHYA
CLOTHA9	If CLOTHYA = 900, then CLOTHA9 will contain the first code mentioned of the multiple items indicated in CLOTHYA
CLAPURCH	Was this purchased online or in-person
AGESEX1	Which Age/Sex category was this purchased for?
AGESEX2	Which Age/Sex category was this purchased for?
AGESEX3	Which Age/Sex category was this purchased for?
AGESEX4	Which Age/Sex category was this purchased for?
AGESEX5	Which Age/Sex category was this purchased for?
AGESEX6	Which Age/Sex category was this purchased for?

Appears Within

- Conceptual Variable Groups
 - Clothing
 - Clothing and Sewing Materials
 - Consumer Expenditure Variable

Conceptual Variable

Name CLOTHYA

Label Clothing Item code

Statistics Code Comparison Correspondence Tree

cla17 - cla16 cla15 - cla14 cla13 - cla12 cla11 - cla08 cla07 - cla05 cla04 cla03 cla02 - cla96

% of valid	% of total		cla17 CLOTHYA	cla16 CLOTHYA
		100 - Coats, jackets, or furs	5.05%	5.07%
		110 - Sport coats, tailored jackets, or blazers	0.68%	0.75%
		120 - Suits	0.71%	0.72%
		130 - Vests	0.16%	0.20%
		145 - Shirts, sweaters, blouses, or tops	23.40%	23.01%
		150 - Pants, jeans, or shorts	17.82%	17.47%
		170 - Dresses	3.51%	3.47%
		180 - Skirts	0.64%	0.79%
		200 - Undergarments	5.78%	5.67%
		210 - Hosiery	3.25%	3.40%

	% of valid	% of total
1. <i>Chlorophyll a</i>	100	100
2. <i>Chlorophyll b</i>	100	100
3. <i>Chlorophyll c</i>	100	100
4. <i>Chlorophyll d</i>	100	100
5. <i>Chlorophyll e</i>	100	100
6. <i>Chlorophyll f</i>	100	100
7. <i>Chlorophyll g</i>	100	100
8. <i>Chlorophyll h</i>	100	100
9. <i>Chlorophyll i</i>	100	100
10. <i>Chlorophyll j</i>	100	100
11. <i>Chlorophyll k</i>	100	100
12. <i>Chlorophyll l</i>	100	100
13. <i>Chlorophyll m</i>	100	100
14. <i>Chlorophyll n</i>	100	100
15. <i>Chlorophyll o</i>	100	100
16. <i>Chlorophyll p</i>	100	100
17. <i>Chlorophyll q</i>	100	100
18. <i>Chlorophyll r</i>	100	100
19. <i>Chlorophyll s</i>	100	100
20. <i>Chlorophyll t</i>	100	100
21. <i>Chlorophyll u</i>	100	100
22. <i>Chlorophyll v</i>	100	100
23. <i>Chlorophyll w</i>	100	100
24. <i>Chlorophyll x</i>	100	100
25. <i>Chlorophyll y</i>	100	100
26. <i>Chlorophyll z</i>	100	100
27. <i>Chlorophyll aa</i>	100	100
28. <i>Chlorophyll ab</i>	100	100
29. <i>Chlorophyll ac</i>	100	100
30. <i>Chlorophyll ad</i>	100	100
31. <i>Chlorophyll ae</i>	100	100
32. <i>Chlorophyll af</i>	100	100
33. <i>Chlorophyll ag</i>	100	100
34. <i>Chlorophyll ah</i>	100	100
35. <i>Chlorophyll ai</i>	100	100
36. <i>Chlorophyll aj</i>	100	100
37. <i>Chlorophyll ak</i>	100	100
38. <i>Chlorophyll al</i>	100	100
39. <i>Chlorophyll am</i>	100	100
40. <i>Chlorophyll an</i>	100	100
41. <i>Chlorophyll ao</i>	100	100
42. <i>Chlorophyll ap</i>	100	100
43. <i>Chlorophyll aq</i>	100	100
44. <i>Chlorophyll ar</i>	100	100
45. <i>Chlorophyll as</i>	100	100
46. <i>Chlorophyll at</i>	100	100
47. <i>Chlorophyll au</i>	100	100
48. <i>Chlorophyll av</i>	100	100
49. <i>Chlorophyll aw</i>	100	100
50. <i>Chlorophyll ax</i>	100	100
51. <i>Chlorophyll ay</i>	100	100
52. <i>Chlorophyll az</i>	100	100
53. <i>Chlorophyll ba</i>	100	100
54. <i>Chlorophyll bb</i>	100	100
55. <i>Chlorophyll bc</i>	100	100
56. <i>Chlorophyll bd</i>	100	100
57. <i>Chlorophyll be</i>	100	100
58. <i>Chlorophyll bf</i>	100	100
59. <i>Chlorophyll bg</i>	100	100
60. <i>Chlorophyll bh</i>	100	100
61. <i>Chlorophyll bi</i>	100	100
62. <i>Chlorophyll bj</i>	100	100
63. <i>Chlorophyll bk</i>	100	100
64. <i>Chlorophyll bl</i>	100	100
65. <i>Chlorophyll bm</i>	100	100
66. <i>Chlorophyll bn</i>	100	100
67. <i>Chlorophyll bo</i>	100	100
68. <i>Chlorophyll bp</i>	100	100
69. <i>Chlorophyll bq</i>	100	100
70. <i>Chlorophyll br</i>	100	100
71. <i>Chlorophyll bs</i>	100	100
72. <i>Chlorophyll bt</i>	100	100
73. <i>Chlorophyll bu</i>	100	100
74. <i>Chlorophyll bv</i>	100	100
75. <i>Chlorophyll bw</i>	100	100
76. <i>Chlorophyll bx</i>	100	100
77. <i>Chlorophyll by</i>	100	100
78. <i>Chlorophyll bz</i>	100	100
79. <i>Chlorophyll ca</i>	100	100
80. <i>Chlorophyll cb</i>	100	100
81. <i>Chlorophyll cc</i>	100	100
82. <i>Chlorophyll cd</i>	100	100
83. <i>Chlorophyll ce</i>	100	100
84. <i>Chlorophyll cf</i>	100	100
85. <i>Chlorophyll cg</i>	100	100
86. <i>Chlorophyll ch</i>	100	100
87. <i>Chlorophyll ci</i>	100	100
88. <i>Chlorophyll cj</i>	100	100
89. <i>Chlorophyll ck</i>	100	100
90. <i>Chlorophyll cl</i>	100	100
91. <i>Chlorophyll cm</i>	100	100
92. <i>Chlorophyll cn</i>	100	100
93. <i>Ch</i>		

- Conceptual Variable Groups
 - Clothing
 - Clothing and Sewing Materials
 - Consumer Expenditure Variable

	cla17 CLOTHYA	cla16 CLOTHYA
100 - Coats, jackets, or furs	5.05%	5.07%
110 - Sport coats, tailored jackets, or blazers	0.68%	0.75%
120 - Suits	0.71%	0.72%
130 - Vests	0.16%	0.20%
145 - Shirts, sweaters, blouses, or tops	23.40%	23.01%
150 - Pants, jeans, or shorts	17.82%	17.47%
170 - Dresses	3.51%	3.47%
180 - Skirts	0.64%	0.79%
200 - Undergarments	5.78%	5.67%
210 - Hosiery	3.25%	3.40%
220 - Nightwear and loungewear	2.68%	2.72%
230 - Accessories	3.56%	3.81%
240 - Swimsuits or warm-up or ski suits	1.92%	1.83%
250 - Uniforms (for which not reimbursed)	0.70%	0.70%
260 - Costumes	0.83%	0.81%
270 - Combined clothing (100-260)	2.97%	3.05%
275 - Combined pants/slacks/jeans and shirts/blouses/tops (145, 150)	2.46%	2.50%
280 - Footwear, including athletic footwear	15.03%	15.11%
310 - Diapers	2.21%	2.32%
330 - Layettes	0.21%	0.23%
331 - Bedroom Linens	0.15%	0.00%
332 - Bathroom Linens	0.14%	

	cla13 CLOTHYA	cla12 CLOTHYA
100 - Coats, jackets, or furs	5.01%	4.80%
110 - Sport coats and tailored jackets	0.55%	0.44%
120 - Suits	0.59%	0.64%
130 - Vests	0.15%	0.12%
140 - Sweaters and sweater sets	1.73%	4.25%
150 - Pants, jeans, or shorts	17.67%	17.58%
170 - Dresses	3.26%	3.14%
180 - Skirts	0.94%	1.10%
190 - Shirts, blouses and tops	3.80%	16.50%
200 - Undergarments	5.52%	5.56%
210 - Hosiery	3.50%	3.59%
220 - Nightwear and loungewear	2.61%	2.50%
230 - Accessories	4.54%	4.24%
240 - Swimsuits or warm-up or ski suits	1.79%	1.81%
250 - Uniforms (for which not reimbursed)	0.71%	0.67%
260 - Costumes	0.76%	0.65%
270 - Combined clothing (100-260)	3.04%	3.13%
275 - Combined pants/slacks/jeans and shirts/blouses/tops (150, 190)	2.28%	2.10%
280 - Footwear, including athletic footwear	14.47%	14.01%
310 - Diapers	3.40%	4.94%
330 - Layettes	0.32%	0.31%
331 - Bedroom Linens	0.01%	

- Appears Within
- Conceptual Variable Groups
 - Clothing
 - Clothing and Sewing Materials
 - Consumer Expenditure Variable

Conceptual Variable

Name CLOTHYA

Label Clothing Item code

Statistics **Code Comparison** Correspondence Tree

cla17 - cla16 cla15 - cla14 cla13 - cla12 cla11 - cla08 cla07 - cla05 cla04 cla03 cla02 - cla96

	% of valid	% of total		cla17 CLOTHYA	cla16 CLOTHYA
100 - Coats, jackets, or furs				5.05%	5.07%
110 - Sport coats, tailored jackets, or blazers				0.68%	0.75%
120 - Suits				0.71%	0.72%
130 - Vests				0.16%	0.20%
145 - Shirts, sweaters, blouses, or tops				23.40%	23.01%
150 - Pants, jeans, or shorts				17.82%	17.47%
170 - Dresses				3.51%	3.47%
180 - Skirts				0.64%	0.79%
200 - Undergarments				5.78%	5.67%
210 - Hosiery				3.25%	3.40%

Conceptual Variables - Consumer

top The smaller the issue, the more it

Clothing Item code - Consumer

bls.eval.colectica.org/item/us.bls/c9e69e77-20ca-468c-885e-03518ddcad64

UNITED STATES DEPARTMENT OF LABOR

BUREAU OF LABOR STATISTICS

Consumer Expenditures

Search

Explore

Basket 1

Help

Conceptual Variable

Name CLOTHYA

Label Clothing Item code

Statistics

Code Comparison

Correspondence Tree

cla17 - cla16

This representation is used by 2 variables.

- 100 Coats, jackets, or furs
- 110 Sport coats, tailored jackets, or blazers
- 120 Suits
- 130 Vests
- 145 Shirts, sweaters, blouses, or tops
- 150 Pants, jeans, or shorts
- 170 Dresses
- 180 Skirts
- 200 Undergarments
- 210 Hosiery
- 220 Nightwear and loungewear
- 230 Accessories
- 240 Swimsuits or warm-up or ski suits
- 250 Uniforms (for which not reimbursed)
- 260 Costumes
- 270 Combined clothing (100-260)
- 275 Combined pants/slacks/jeans and shirts/blouses/tops (145, 150)
- 280 Footwear, including athletic footwear
- 310 Diapers
- 330 Layettes
- 331 Bedroom Linens
- 332 Bathroom Linens
- 370 Watches
- 380 Jewelry
- 900 Combined expense (any item in section / part which is not a combined item code)

cla15 - cla14

This representation is used by 2 variables.

- 100 Coats, jackets, or furs
- 110 Sport coats and tailored jackets
- 120 Suits
- 130 Vests
- 145 Shirts, sweaters, blouses, or tops
- 150 Pants, jeans, or shorts
- 170 Dresses
- 180 Skirts
- 200 Undergarments
- 210 Hosiery
- 220 Nightwear and loungewear
- 230 Accessories
- 240 Swimsuits or warm-up or ski suits
- 250 Uniforms (for which not reimbursed)
- 260 Costumes
- 270 Combined clothing (100-260)
- 275 Combined pants/slacks/jeans and shirts/blouses/tops (145, 150)
- 280 Footwear, including athletic footwear
- 310 Diapers
- 330 Layettes
- 331 Bedroom Linens
- 332 Bathroom Linens
- 370 Watches
- 380 Jewelry
- 900 Combined expense (any item in section / part which is not a combined item code)

cla13 - cla12

This representation is used by 2 variables.

- 100 Coats, jackets, or furs
- 110 Sport coats and tailored jackets
- 120 Suits
- 130 Vests
- 140 Sweaters and sweater sets
- 150 Pants, jeans, or shorts
- 170 Dresses
- 180 Skirts
- 190 Shirts, blouses and tops
- 200 Undergarments
- 210 Hosiery
- 220 Nightwear and loungewear
- 230 Accessories
- 240 Swimsuits or warm-up or ski suits
- 250 Uniforms (for which not reimbursed)
- 260 Costumes
- 270 Combined clothing (100-260)
- 275 Combined pants/slacks/jeans and shirts/blouses/tops (150, 190)
- 280 Footwear, including athletic footwear
- 310 Diapers
- 330 Layettes
- 331 Bedroom Linens
- 332 Bathroom Linens
- 370 Watches
- 380 Jewelry
- 900 Combined expense (any item in section / part which is not a combined item code)

cla11 - cla08

This representation is used by 4 variables.

- 100 Coats, jackets, or furs
- 110 Sport coats and tailored jackets
- 120 Suits
- 130 Vests
- 140 Sweaters and sweater sets
- 150 Pants, jeans, or shorts
- 170 Dresses
- 180 Skirts
- 190 Shirts, blouses and tops
- 200 Undergarments
- 210 Hosiery
- 220 Nightwear and loungewear
- 230 Accessories
- 240 Swimsuits or warm-up or ski suits
- 250 Uniforms (for which not reimbursed)
- 260 Costumes
- 270 Combined clothing (100-260)
- 275 Combined pants/slacks/jeans and shirts/blouses/tops (150, 190)
- 280 Footwear(include athletic shoes not specifically purchased for sports related use)
- 900 Combined expense (any item in section / part which is not a combined item code)

cla07 - cla05

This representation is used by 3 variables.

- 100 Coats, jackets, furs
- 110 Sport coats and tailored jackets
- 120 Suits
- 130 Vests
- 140 Sweaters and sweater sets
- 150 Pants, slacks & jeans

Appears Within

Conceptual Variable Groups

Clothing

Clothing and Sewing Materials

Consumer Expenditure Variable

12:03 PM

- Appears Within
- Conceptual Variable Groups
 - Clothing
 - Clothing and Sewing Materials
 - Consumer Expenditure Variable

180 - Skirts	0.64%	0.79%
200 - Undergarments	5.78%	5.67%
210 - Hosiery	3.25%	3.40%
220 - Nightwear and loungewear	2.68%	2.72%
230 - Accessories	3.56%	3.81%
240 - Swimsuits or warm-up or ski suits	1.92%	1.83%
250 - Uniforms (for which not reimbursed)	0.70%	0.70%
260 - Costumes	0.83%	0.81%
270 - Combined clothing (100-260)	2.97%	3.05%
275 - Combined pants/slacks/jeans and shirts/blouses/tops (145, 150)	2.46%	2.50%
280 - Footwear, including athletic footwear	15.03%	15.11%
310 - Diapers	2.21%	2.32%
330 - Layettes	0.21%	0.23%
331 - Bedroom Linens	0.15%	0.00%
332 - Bathroom Linens	0.14%	
370 - Watches	0.51%	0.56%
380 - Jewelry	1.50%	1.56%
900 - Combined expense (any item in section / part which is not a combined item code)	4.12%	4.25%

Dataset	Variable	Valid	Invalid	Min	First Quartile	Median	Third Quartile	Max	Mean	StdDev
cl17	CLOTHYA	126679	0	100				900		
cl16	CLOTHYA	131006	0	100				900		

Appears Within

- Series
 - Consumer Expenditure
- Studies
 - 2017
 - Clothing and Jewelry - Clothing, Accessories, and Footwear
- Data Files
 - cla17

REC_ORIG

cla17 (6 of 46)

CLOTHYA_

Variable Description

Name CLOTHYA

Label Clothing Item code

Flag CLOTHYA_

Dataset cla17

Value	Label	Frequency	% of valid	% of all
145	Shirts, sweaters, blouses, or tops	29,647	23.40%	23.40%
150	Pants, jeans, or shorts	22,570	17.82%	17.82%
280	Footwear, including athletic footwear	19,036	15.03%	15.03%
200	Undergarments	7,323	5.78%	5.78%
100	Coats, jackets, or furs	6,403	5.05%	5.05%
900	Combined expense (any item in section / part which is not a combined item code)	5,221	4.12%	4.12%
230	Accessories	4,507	3.56%	3.56%
170	Dresses	4,452	3.51%	3.51%
210	Hosiery	4,117	3.25%	3.25%
270	Combined clothing (100-260)	3,766	2.97%	2.97%
220	Nightwear and loungewear	3,391	2.68%	2.68%
275	Combined pants/slacks/jeans and shirts/blouses/tops (145, 150)	3,120	2.46%	2.46%
310	Diapers	2,801	2.21%	2.21%
240	Swimsuits or warm-up or ski suits	2,437	1.92%	1.92%

Value	Label	Frequency	% of valid	% of all
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145	Shirts, sweaters, blouses, or tops	29,647	23.40%	23.40%
150	Pants, jeans, or shorts	22,570	17.82%	17.82%
280	Footwear, including athletic footwear	19,036	15.03%	15.03%
200	Undergarments	7,323	5.78%	5.78%
100	Coats, jackets, or furs	6,403	5.05%	5.05%
900	Combined expense (any item in section / part which is not a combined item code)	5,221	4.12%	4.12%
230	Accessories	4,507	3.56%	3.56%
170	Dresses	4,452	3.51%	3.51%
210	Hosiery	4,117	3.25%	3.25%
270	Combined clothing (100-260)	3,766	2.97%	2.97%
220	Nightwear and loungewear	3,391	2.68%	2.68%
275	Combined pants/slacks/jeans and shirts/blouses/tops (145, 150)	3,120	2.46%	2.46%
310	Diapers	2,801	2.21%	2.21%
240	Swimsuits or warm-up or ski suits	2,437	1.92%	1.92%
380	Jewelry	1,902	1.50%	1.50%
260	Costumes	1,049	0.83%	0.83%
120	Suits	901	0.71%	0.71%
250	Uniforms (for which not reimbursed)	890	0.70%	0.70%
110	Sport coats, tailored jackets, or blazers	859	0.68%	0.68%
180	Skirts	815	0.64%	0.64%
370	Watches	646	0.51%	0.51%
330	Layettees	260	0.21%	0.21%
130	Vests	198	0.16%	0.16%
331	Bedroom Linens	190	0.15%	0.15%
332	Bathroom Linens	178	0.14%	0.14%

Conceptual Variables - Consumer

top The smaller the issue, the more it

Clothing Item code - Consumer

bls.eval.colectica.org/item/us.bls/a7c7a09f-0c9a-4fc6-92af-2cea4317063b

UNITED STATES DEPARTMENT OF LABOR
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Consumer Expenditures Search Explore Basket 1 Help

Appears Within

- Series
 - Consumer Expenditure
- Studies
 - 2017
 - Clothing and Jewelry - Clothing
- Data Files
 - cla17

Representation

TypeCode List

Selection StyleSelectOne

CodesCLOTHYA Codes

- 100☒ Coats, jackets, or furs
- 110☒ Sport coats, tailored jackets, or blazers
- 120☒ Suits
- 130☒ Vests
- 145☒ Shirts, sweaters, blouses, or tops
- 150☒ Pants, jeans, or shorts
- 170☒ Dresses
- 180☒ Skirts
- 200☒ Undergarments
- 210☒ Hosiery
- 220☒ Nightwear and loungewear
- 230☒ Accessories
- 240☒ Swimsuits or warm-up or ski suits
- 250☒ Uniforms (for which not reimbursed)
- 260☒ Costumes
- 270☒ Combined clothing (100-260)
- 275☒ Combined pants/slacks/jeans and shirts/blouses/tops (145, 150)
- 280☒ Footwear, including athletic footwear
- 310☒ Diapers
- 330☒ Layettees
- 331☒ Bedroom Linens
- 332☒ Bathroom Linens
- 370☒ Watches
- 380☒ Jewelry
- 900☒ Combined expense (any item in section / part which is not a combined item code)

Roleinput

Aggregation MethodUnspecified

TemporalFalse

GeographicFalse

Represented VariableClothing Item code

12:10 PM

Series

- Consumer Expenditure
- Studies
 - 2017
 - Clothing and Jewelry - Clothing
- Data Files
 - cla17

Source Questions

CLOTHYA CLOTHYA

Lineage

cla17 - CLOTHYA Clothing Item code

CLOTHYA Since the first of ^REF_MONTH, have ^YOU_ANYMEM purchased any of the following items either for members of your household or for someone outside your household?

CLOTHYA "Have ^YOU_ANYMEM purchased any --

Concordance

Statistics		Code Comparison	Correspondence Tree
cla17 - cla16		cla15 - cla14	cla13 - cla12
		cla11 - cla08	cla07 - cla05
		cla04	cla03
		cla02	cla96
% of valid		% of total	
		cla17 CLOTHYA	cla16 CLOTHYA
100 - Coats, jackets, or furs		5.05%	5.07%
110 - Sport coats, tailored jackets, or blazers		0.68%	0.75%
120 - Suits		0.71%	0.72%
130 - Vests		0.16%	0.20%
145 - Shirts, sweaters, blouses, or tops		23.40%	23.01%
150 - Pants, jeans, or shorts		17.82%	17.47%
170 - Dresses		3.51%	3.47%

Home

Welcome

The Consumer Expenditure Survey (CE) collects data on expenditures, income, and demographics in the United States. The public-use microdata (PUMD) files provide this information for individual respondents, without any information that could identify respondents. PUMD files include adjustments for information that is missing because respondents were unwilling or unable to provide it. The files also have been adjusted to reduce the likelihood of identifying respondents, either directly or through inference.

Quick Links

[CE Series](#)[WAGEX](#)[EDUCA](#)[Process Flow](#)[2013 UCC Codes](#)

Series



Consumer Expenditure

🔍 Search all Series

Search



405

Questions



5,018

Conceptual Variables

Conceptual Variables - Consumer Expenditures

top The smaller the issue, the more it

bls.eval.colectica.org/search/conceptualvariables?Query=clothing&ResultOrdering=Relevance&IncludeDeprecated=false&PageNumber=1

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Consumer ExpendituresSearchExploreBasket 1Help

Series

clothing

Sort by: Relevance

Item types: Conceptual Variables

Query: clothing

Results 1 to 20 of 30 (0.03 seconds)

CLOTHYA

Clothing Item code

Conceptual Variable Group: Clothing / Conceptual Variable Group: Clothing and Sewing Materials / Conceptual Variable Group: Consumer Expenditure Variables

CLOTHYD

Clothing Item code

Conceptual Variable Group: Clothing and Sewing Materials / Conceptual Variable Group: Clothing Services / Conceptual Variable Group: Consumer Expenditure Variables

CLOTHYB

Clothing Item code

Conceptual Variable Group: Clothing and Sewing Materials / Conceptual Variable Group: Consumer Expenditure Variables / Conceptual Variable Group: Infants Clothing, Watches, Jewelry, and Hairpieces

CLOTHMOA

Month clothing item purchased

11:45 AM

Home

Welcome

The Consumer Expenditure Survey (CE) collects data on expenditures, income, and demographics in the United States. The public-use microdata (PUMD) files provide this information for individual respondents, without any information that could identify respondents. PUMD files include adjustments for information that is missing because respondents were unwilling or unable to provide it. The files also have been adjusted to reduce the likelihood of identifying respondents, either directly or through inference.

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Series

 Consumer Expenditure

🔍 Search all Series

Search

 **405**
Questions

 **5,018**
Conceptual Variables

Series >


Questions

cloth 🔍 Sort by: Relevance ▼


- clothing
- clothes
- clothya**
- clothyd
- clothyb

(2 seconds)


How much?

 SLFEMPSM


What was the amount of self-employment income or loss?

 HISPANIC

^AreIs_C ^YouName -

 SOCRRX

DURING THE PAST 12 MONTHS - Did (you/NAME) receive any Social Security or Railroad Retirement benefits?

 SALARYXM

Series

Questions

clothya Sort by: Relevance

Item types: Questions
Query: clothya

Results 1 to 2 of 2 (0.00 seconds)

CLOTHYA

"Have ^YOU_ANYMEM purchased any --

Series: [Consumer Expenditure](#) / Study: [2017](#) / Study: [Clothing and Jewelry - Clothing, Watches, and Jewelry](#) / Variable: [CLOTHYA - Clothing Item code](#)

CLOTHYA

Since the first of ^REF_MONTH, have ^YOU_ANYMEM purchased any of the following items either for members of your household or for someone outside your household?

Series: [Consumer Expenditure](#) / Study: [2017](#) / Study: [Clothing and Jewelry - Clothing, Watches, and Jewelry](#) / Variable: [CLOTHYA - Clothing Item code](#)

Appears Within

- Series
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 - 2017
 - Clothing and Jewelry - Clothing
- Data Files
 - cla17

Clothing Item code | Consumer Expenditure

2017 | cla17

REC_ORIG | cla17 (6 of 46) | CLOTHYA_

Variable Description

Name CLOTHYA

Label Clothing Item code

Flag CLOTHYA_

Dataset cla17

Value	Label	Frequency	% of valid	% of all
145	Shirts, sweaters, blouses, or tops	29,647	23.40%	23.40%
150	Pants, jeans, or shorts	22,570	17.82%	17.82%
280	Footwear, including athletic footwear	19,036	15.03%	15.03%
200	Undergarments	7,323	5.78%	5.78%
100	Coats, jackets, or furs	6,403	5.05%	5.05%
900	Combined expense (any item in section / part which is not a combined item code)	5,221	4.12%	4.12%
230	Accessories	4,507	3.56%	3.56%
170	Dresses	4,452	3.51%	3.51%
210	Hosiery	4,117	3.25%	3.25%
270	Combined clothing (100-260)	3,766	2.97%	2.97%

Contact Information

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