# The CEQ Worksheet:

A Respondent Tool for Streamlining the Interview Experience and Improving Data Quality

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## The CE Survey

- The CED (Diary Survey)
- The CEQ (Quarterly Survey)
  - ► Collects data on large and recurring expenditures
  - Conducted with a computer assisted personal interviewing (CAPI) instrument



## **Background**

- In 2010, the CE Materials team worked on designing a "worksheet" to accompany the CEQ survey
- Support from Field Representative (FR) Focus Groups
- Support from Gemini Project to redesign the Consumer Expenditure Survey



## **Step 1: Information Gathering**

- Selected Six FRs (one from each Regional Office) to participate in one-on-one telephone interviews for this project
- Asked the FRs a series of questions based on an approved semi-structured interviewing protocol



## **Step 1: Information Gathering**

- The Worksheet: an optional tool that respondents can use in between, as well as during the interviews
- FR: "It would help streamline the process of the interview when it takes place; allows it to be efficient and less burdensome on the day of the interview."



## **Major Recommendations from FRs**

- Use the worksheet only for Interviews 2-4
   Allow the FR to hand the worksheet to the respondent at the end of the prior interview after they have built a relationship with the respondent
- Establish consistent guidelines as a starting point, but allow FRs flexibility in how they apply the worksheet
- Ask that the worksheet be filled out only by the main respondent
- 4. "Pitch" the worksheet to respondents as a tool that will help them to streamline and shorten the interview time



## **Major Recommendations from FRs**

- 5. Include expenses that are asked by month and items that are difficult to recall without records
- 6. The worksheet should be no more than one page (front and back); should be simple with large text that is clear and easy to read
- 7. The worksheet should look professional and include a privacy statement, the FR's contact information, a thank you, and the CE website so that the respondent can look up interesting statistical information

### **Proceed with development**



### **Benefits**

- Shorten interview time
- Reduce respondent burden
- Reduce proxy reporting
- Encourage record use
- Improve the quality of the data reported
- Remind respondents with its tangible presence



## **Step 2: Design and Evaluation**

- Proposed a Design
- Asked FRs to evaluate and provide feedback via an online evaluation form
- Obtained feedback from fifty-two FRs
- Revised the worksheet



## **Initial Design**

•••		
Census Version States	Our next interview is on	at

#### Consumer Expenditure Quarterly Interview Survey PREPARING FOR YOUR NEXT INTERVIEW

A Census field representative will visit you again in three months to ask you about your household's expenses. You may find the information below and the worksheet provided on the back helpful in preparing for your next interview.

To learn more about the survey and how valuable your response is, visit http://www.bls.gov/respondents/cex/.

Thank you for your participation!

Types of Records:

- Talk to everyone in your household family members and anyone else living in your home that you share expenses with. Be ready to answer questions for them or ask them to sit in on part of the interview.
- Collect records to help you remember details about your expenses. Ask others in the household if they have any records, too. Store the records where you can access them during the interview and print or download any online records before the interview. Records will only be used for reference during the interview; we will not keep them.

	✓ Bills	✓	Wallet or Purse
	✓ Receipts	✓	Online accounts
	✓ Statements	✓	Filing drawers
	✓ Checkbooks	✓	E-mail
	✓ Paystubs	✓	Smartphone apps
Question	ıs?		
FR Name:			
Phone:		Email:	

Places to Look:

#### Expense Worksheet

Housing Expenses and Utilities	Month 1	Month 2	Month 3	
Mortgage or Rent				
Other Housing Expenses (e.g. HOA/condo fees)				
Specify:				
Specify:				
Water				
Gas or Oil				
Electricity				
Internet/Cable/TV				
Specify:				
Cell Phone				
Other Utilities (e.g. other phone, trash, recycling, sewer)				
Specify:				
Specify:				

Insurance	Frequency of payment (Specify: monthly, annually, etc.)	Amount
Health Insurance		
Homeowner's or Renter's Insurance		
Car Insurance		
Life Insurance		
Long Term Care		
Other Insurance (e.g. pet, PMI,	credit card)	
Specify:		
Specify:		

Income	Total for last 12 months
Wages/salary (include tips, bonuses, and commissions before taxes	
Interest or Dividends	
Other Income (e.g. self-employment, retirement unemployment, child support, government benefit	
Specify:	

Paycheck	
Amount of last pay before deductions	
Deductions for retirement	
Deductions for Social Security/Medicare	

Assets	Current balance	Liabilities		Current
Retirement accounts (e.g. 401(k)s, IRAs, TSP)		Major credit	Cards (include store and gas cards)	
Stocks, bonds, or mutual funds (not in retirement)		Student Loa	ns	
Checking, savings, money market, CDs		Other liabilities (e.g. medical, personal, do NOT includ		
Other financial assets (e.g. annuities, trusts, ro	yalties)	mortgage, hon	ne equity or vehicle loans)	
Specify:		Specify:		
Specify:		Specify:		

PRIVACY ACT STATEMENT The U.S. Census Bureau is conducting the Consumer Expenditure Quarterly Interview Survey for the Bureau of Labor Statistics of the U.S. Department of Labor under Title 29, United States Code. The survey's purpose is to obtain information on what people are purchasing in order to update the Consumer Price Index. All survey information will be used for stratistical purposes only. Any information toy up provide for this survey is conditionally by law, under Title 13, United States Code. Participation in this survey is conditionally and there are no penalties for refusing to answer any question(s). However, your cooperation is extremely important to help ensure the completeness and accuracy of these data.



### FR Feedback

#### Regarding the Front of the CEQ Worksheet

Census Our next inter	view is on at
Consumer Expenditure Quarterly PREPARING FOR YO	Interview Survey DUR NEXT INTERVIEW
about your household's expenses	visit you again in three months to ask you . You may find the information below and ack helpful in preparing for your next
To learn more about the survey as http://www.bls.gov/respondents	nd how valuable your response is, visit
Thank you for your participation!	
	d – family members and anyone else living in your h. Be ready to answer questions for them or ask w.
household if they have any records, during the interview and print or do	ber details about your expenses. Ask others in the too. Store the records where you can access them ownload any online records before the interview. nce during the interview; we will not keep them.
Types of Records:	Places to Look:
✓ Bills	✓ Wallet or Purse
✓ Receipts	✓ Online accounts
✓ Statements	✓ Filing drawers
· Statements	✓ E-mail
✓ Checkbooks	
otate::iei	✓ Smartphone apps
✓ Checkbooks	✓ Smartphone apps
✓ Checkbooks ✓ Paystubs	✓ Smartphone apps

#### **Appearance**

- 83% Positive about the appearance
- 63% of FRs felt respondents would have a positive reaction

#### Content

- 73% positive about the content
- 21% negative about the content
  - ► Concerned that the worksheet might scare busy respondents away



+ Consumer Expenditure Quarterly Interview Survey PREPARING FOR YOUR NEXT INTERVIEW A Census field representative will visit you again in three months to ask you about your household's expenses. You may find the information below and the worksheet provided on the back helpful in preparing for your next To learn more about the survey and how valuable your response is, visit http://www.bls.gov/respondents/cex/. Thank you for your participation! > Talk to everyone in your household - family members and anyone else living in your home that you share expenses with. Be ready to answer questions for them or ask them to sit in on part of the interview. > Collect records to help you remember details about your expenses. Ask others in the household if they have any records, too. Store the records where you can access them during the interview and print or download any online records before the interview. Records will only be used for reference during the interview; we will not keep them. Types of Records: Places to Look: ✓ Bills ✓ Wallet or Purse ✓ Online accounts √ Receipts √ Statements √ Filing drawers ✓ Checkbooks ✓ E-mail ✓ Pavstubs ✓ Smartphone apps Ouestions?



Consumer Expense

PREPAR

Changed "A Census field representative..." to "Your Census field representative..." to make it more personal.

Your Census field representative will visit you again in three months to ask you about your household's expenses. You may find the information below and the worksheet provided on the back helpful in preparing for your next interview. The worksheet shows you some of the types of spending that I'll be asking about, and if you note these expenses on the worksheet, the interview may be faster while also making it easier for you to give accurate amounts.

To learn more about the survey and how valuable your response is, visit http://www.bls.gov/respondents/cex/.

-OR

Thank you for your participation!

- Talk to everyone in your household family members and anyone else living in your home that you share expenses with. Be ready to answer questions for them or ask them to sit in on part of the interview.
- Collect records to help you remember details about your expenses. Ask others in the household if they have any records, too. Store the records where you can access them during the interview. This worksheet and all records will only be used for reference; we will not keep them.

#### Types of Records:

Bills ✓ Checkbooks

✓ Receipts ✓ Paystubs

✓ Statements ✓ Online Records

#### Questions?

Field Representative Name: \_\_\_\_\_\_\_Phone:

#### **Initial**





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Our next interview is on at

ur response is, visit

Consumer Expenditure Quarterly Interview Survey

#### PREPARING FOR YOUR NEXT INTERVIEW

Your Census field representative will visit you again in three months to ask you about your household's expenses. You may find the information below and the worksheet provided on the back helpful in preparing for your next interview. The worksheet shows you some of the types of spending that I'll be asking about, and if you note these expenses on the worksheet, the interview may be faster while also making it easier for you to give accurate amounts.

To learn more about the survey and how va http://www.bls.gov/respondents/cex/.

Thank you for your participation!

- Talk to everyone in your household home that you share expenses with, to sit in on part of the interview.
- Collect records to help you remembe household if they have any records, t during the interview. This worksheet will not keep them.

Types of Records:

- √ Bi
- √ Receipts
- ✓ Stateme

#### Questions?

Field Representative Name:

Added the following sentence: The worksheet shows you some of the types of spending that I'll be asking about, and if you note these expenses on the worksheet, the interview may be faster while also making it easier for you to give accurate amounts.

**Initial** 

Revised



Census Our ne	ext interview is onat		Cunited States  Our next interview is onatat
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	uation! ousehold – family members and anyone else living uses with. Be ready to answer questions for them o		To learn more about the survey and how valuable your response is, visit <a href="http://www.bls.gov/respondents/cex/">http://www.bls.gov/respondents/cex/</a> .  Thank you for your participation!
household if they have any during the interview and pr	remember details about your expenses. Ask other records, too. Store the records where you can acce int or download any online records before the inter or reference during the interview; we will not	55	Talk to everyone in your household – family members and anyone else living in your home that you share expenses with. Be ready to answer questions for them or ask them to sit in on part of the interview.  Collect records to help you remember details about your expenses. Ask others in the
Types of Records:  ✓ Bills	Places to Look:  ✓ Wallet or Purse	Look" for records	household if they have any records, too. Store the records where you can access them during the interview. This worksheet and all records will only be used for reference; we will not keep them.
✓ Receipts ✓ Statement ✓ Checkbook ✓ Paystubs		and the associated examples.	Types of Records:  ✓ Bills ✓ Checkbooks ✓ Receipts ✓ Paystubs ✓ Statements ✓ Online Records
Questions?		Qu	estions?
	Email:		eld Representative Name:

Initial

Revised



Census Our next inte	rview is on	at	Cunited States  Our next interview is on at at
Consumer Expenditure Quarterly PREPARING FOR Y		•	Consumer Expenditure Quarterly Interview Survey PREPARING FOR YOUR NEXT INTERVIEW
A Census field representative wil about your household's expense the worksheet provided on the b interview.  To learn more about the survey a http://www.bls.gov/respondents	s. You may find the ack helpful in prep and how valuable y	e information below and aring for your next	Your Census field representative will visit you again in three months to ask you about your household's expenses. You may find the information below and the worksheet provided on the back helpful in preparing for your next interview. The worksheet shows you some of the types of spending that I'll be asking about, and if you note these expenses on the worksheet, the interview may be faster while also making it easier for you to give accurate amounts.
Thank you for your participation			To learn more about the survey and how valuable your response is, visit
Talk to everyone in your househol home that you share expenses wi them to sit in on part of the intervi-	th. Be ready to answe		http://www.bls.gov/respondents/cex/. Thank you for your participation!
Collect records to help you remen household if they have any record during the interview and print or d	nber details about you s, too. Store the recor ownload any online re	ds where you can access them	Talk to everyone in your household – family members and anyone else living in your home that you share expenses with. Be ready to answer questions for them or ask them to sit in on part of the interview.
Records will only be used for refer Types of Records: Bills	Places to Lo  ✓ Wall	Deleted the FR email line. Two FRs	Collect records to help you remember details about your expenses. Ask others in the household if they have any records, too. Store the records where you can access them during the interview. This worksheet and all records will only be used for reference; we will not keep them.
✓ Receipts ✓ Statements	✓ Onlin ✓ Filins		Types of Records:
✓ Checkbooks	✓ E-ma	mentioned that they	✓ Bills    ✓ Checkbooks     ✓ Receipts    ✓ Paystubs
✓ Paystubs	✓ Sma	were afraid	✓ Statements ✓ Online Records
Questions?		respondents may	Quartiana
		unknowingly send PII.	Questions?
FR Name:		armanovinigny soma <u>rmi</u>	

### Initial





### FR Feedback

#### Regarding the Back of the CEQ Worksheet

#### Expense Worksheet

Housing Expenses and Utilities	Month 1	Month 2	Month 3
Mortgage or Rent			
Other Housing Expenses (e.g. HOA/condo fees)			
Specify:			
Specify:			
Water			
Gas or Oil			
Electricity			
Internet/Cable/TV			
Specify:			
Cell Phone			
Other Utilities (e.g. other phone, trash, recycling, sewer)			
Specify:			
Specify:			

Income

commissions before taxes Interest or Dividends

Insurance	Frequency of payment (Specify: monthly, annually, etc.)	Amount
Health Insurance		
Homeowner's or Renter's Insurance		
Car Insurance		
Life Insurance		
Long Term Care		
Other Insurance (e.g. pet, PMI,	credit card)	
Specify:		
Specify:		

Specify:	
Paycheck	
Amount of last pay before deductions	
Deductions for retirement	
Deductions for Social Security/Medicare	

Other Income (e.g. self-employment, retirement, disability, unemployment, child support, government benefits or assistance)

Wages/salary (include tips, bonuses, and

12 months

Assets	Current balance	
Retirement accounts (e.g. 401(k)s, IRAs, TSP)		
Stocks, bonds, or mutual funds (not in retirement)		
Checking, savings, money market, CDs		
Other financial assets (e.g. annuities, trusts, royalties)		
Specify:		
Specify:		

Liabilities	Current balance	
Major credit cards (include store and gas cards)		
Student Loans		
Other liabilities (e.g. medical, personal, do NOT mortgage, home equity or vehicle loans)	r include	
Specify:		
Specify:		

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#### **Appearance**

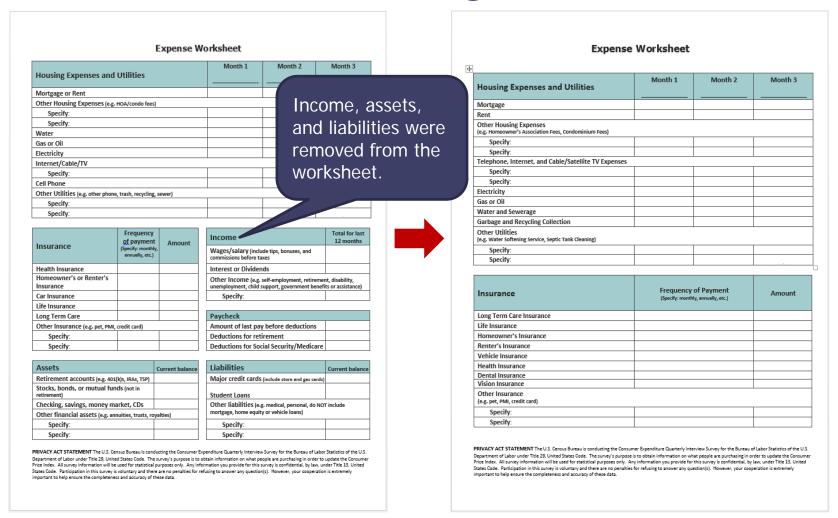
73% of FRs said they liked the appearance

#### **Content**

- 40% of FRs said to add more categories
- 38% of FRs said that some categories should be removed



## **Revised Design: Back**



Initial

Revised



## **Revised Design: Back**

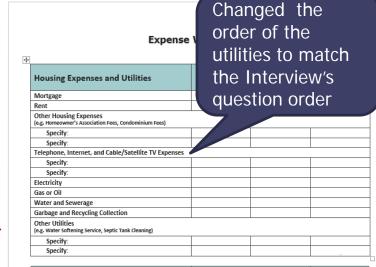
#### Expense Worksheet

Housing Expenses and Utilities	Month 1	Month 2	Month 3
Mortgage or Rent			
Other Housing Expenses (e.g. HOA/condo fees)			
Specify:			
Specify:			
Water			
Gas or Oil			
Electricity			
Internet/Cable/TV			
Specify:			
Cell Phone			
Other Utilities (e.g. other phone, trash, recycling, sewer)			
Specify:			
Specify:			

	Frequency of payment (Specify, monthly, annually, etc.)  Amount Wages/salary (include tips, bonuses, al commissions before taxes	Income	Total for last 12 months	
(Spe		7 III Cant	Wages/salary (include tips, bonuses, and commissions before taxes	
Health Insurance			Interest or Dividends	
Homeowner's or Renter's Insurance			Other Income (e.g. self-employment, retirement, disability, unemployment, child support, government benefits or assistance)	
Car Insurance			Specify:	
Life Insurance				
Long Term Care			Paycheck	
Other Insurance (e.g. pet, PMI, credit card)		Amount of last pay before deductions		
Specify:			Deductions for retirement	
Specify:			Deductions for Social Security/Medicare	

Assets	Current balance	Liabilities	Current balance
Retirement accounts (e.g. 401(k)s, IRAs, TSP)		Major credit cards (include store and gas cards)	
Stocks, bonds, or mutual funds (not in retirement)		Student Loans	
Checking, savings, money market, CDs Other financial assets (e.g. annuities, trusts, royalties)		Other liabilities (e.g. medical, personal, do NOT include mortgage, home equity or vehicle loans)	
Specify:		Specify:	

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Insurance	Frequency of Payment (Specify: monthly, annually, etc.)	Amount		
Long Term Care Insurance				
Life Insurance				
Homeowner's Insurance				
Renter's Insurance				
Vehicle Insurance				
Health Insurance				
Dental Insurance				
Vision Insurance				
Other Insurance (e.g. pet, PMI, credit card)				
Specify:				
Specify:				

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### **Field Test**

### Test the feasibility and effectiveness of the CEQ Worksheet

- What is the effect of the CEQ Worksheet on response rates?
- What is the impact of the CEQ worksheet on data quality?
- What is the feedback from respondents?
- What is the impact of the addition of the CEQ worksheet on production data collection and/or processing activities?



## Sample Design and Placement Period

- There will be an independent test group in the production sample with the remaining Quarterly Interview production sample as a control
- 200 cases per month (600 total) will be eligible for the Worksheet
- Placement Period: 3<sup>rd</sup> quarter of 2018 (Only households going into their 3<sup>rd</sup> interview will be eligible)

2018	July	August	September
Test group N=600	<b>200</b> eligible for CEQW	<b>200</b> eligible for CEQW	<b>200</b> eligible for CEQW
Control Group N=TBD	Remaining CEQ Production Sample	Remaining CEQ Production Sample	Remaining CEQ Production Sample



## Methodology

#### At the end of the 3rd Interview:

- The FR will have the option to offer the respondent a Worksheet
- If a Worksheet is offered, respondent will keep over the next 3 months

#### At the 4th interview:

- The FRs would ask the respondents whether they used the Worksheet and if so, will have the respondent reference the Worksheet during the interview to help report their expenditures
- The FR will ask the respondent a few questions about the Worksheet



### FR Feedback

Following the test, debriefing will be conducted to obtain FRs feedback about the worksheet



### **Next Steps**

Recommend whether and/or how to implement the CEQ Worksheet in the CE redesign and/or current CE production



# **Contact Information**

## **Nhien To**

**Economist** 

Division of Consumer Expenditure Surveys/ Office of Prices and Living Conditions

> www.bls.gov/cex 202-691-6866 to.nhien@bls.gov

