

Revisiting the Survey Form: The Effects of Redesigning the Current Employment Statistics Survey's Iconic 1-Page Form with a Booklet Style Form

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Abstract: Since 1939, the Current Employment Statistics survey has used a single page form for capturing data. Over time, problems with the design of the form have become apparent. In 2009, research on how to improve the form was completed. Prototypes based on recent research were created and fielded for testing during 2011 and 2012. The test consisted of systematic random samples which were selected and sent to regional data collection centers each month. Samples were stratified by geography, industry, single location vs. multiple locations, and size of firm. Results show improvements in interview times and reduced item non-response.

1. Introduction

This paper presents the results of a large scale test of a new collection form for use in the Current Employment Statistics (CES) program. The test was conducted from March 2011 to February 2012 on a sample of approximately 5,800 firms. The sample was stratified by size, number of locations reported, industry, geography, and interviewer experience level. The goal of the redesign was to develop a form that would more effectively communicate the survey request to the respondent and would allow improved interviewer productivity. The new form builds on a long history of forms design. Important elements of the new form have been used for over 65 years in CES forms.

2. Introduction to the Current Employment Statistics Survey

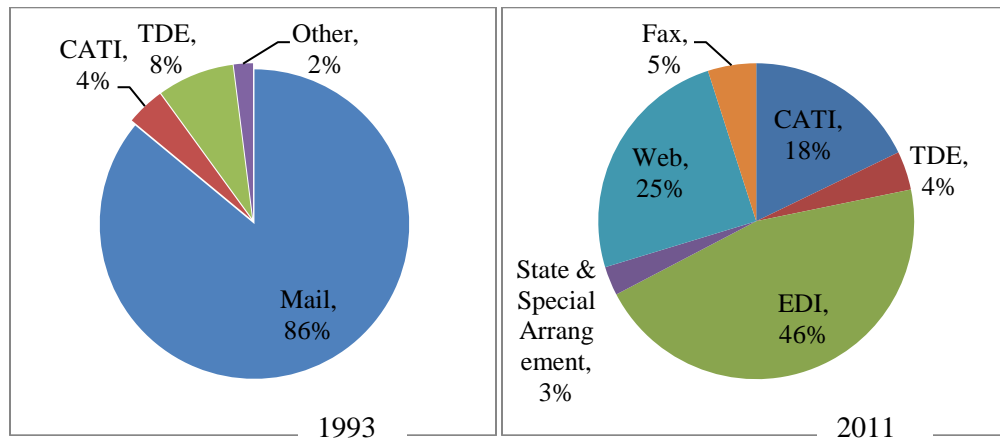
The Current Employment Statistics (CES) survey is conducted by the Bureau of Labor Statistics and is a monthly establishment survey. Its products include employment, hours and earnings at the Nation, State, and local area levels. Its scope includes nonagricultural industries classified by the 2012 North American Industry Classification System (NAICS). The survey's reference period is the pay period that includes the 12th of the month and results are generally on the first Friday of the following month. The sample currently includes about 141,000 businesses and government agencies, representing approximately 486,000 individual worksites.

3. Data Collection in the CES

The CES utilizes multi-mode data collection to meet respondent reporting needs and to collect data in a timely manner. The CES has four telephone centers located in Atlanta, Dallas, Kansas City, and Niceville, Florida. These sites enroll new firms and make Computer Assisted Telephone Interview (CATI) calls for the initial 5 months. After 5 months on CATI, respondents are moved to self response, fax collection, or permanent CATI. Self response methods include web reporting and Touchtone Data Entry (TDE). Files from very large firms are collected and processed by the Electronic Data Interchange center located in Chicago.

The CES program was originally conducted as a mail survey. A form was mailed to the respondent, the completed form was returned and processed, and the form was mailed again for the next month of collection. This “shuttle” process was used for many decades until the CES implemented electronic methods and eliminated mail collection. Figure 1 shows the magnitude of the transition. The data show that mail collection had been eliminated by 2011, with EDI, Web, and CATI becoming the dominant collection methods.

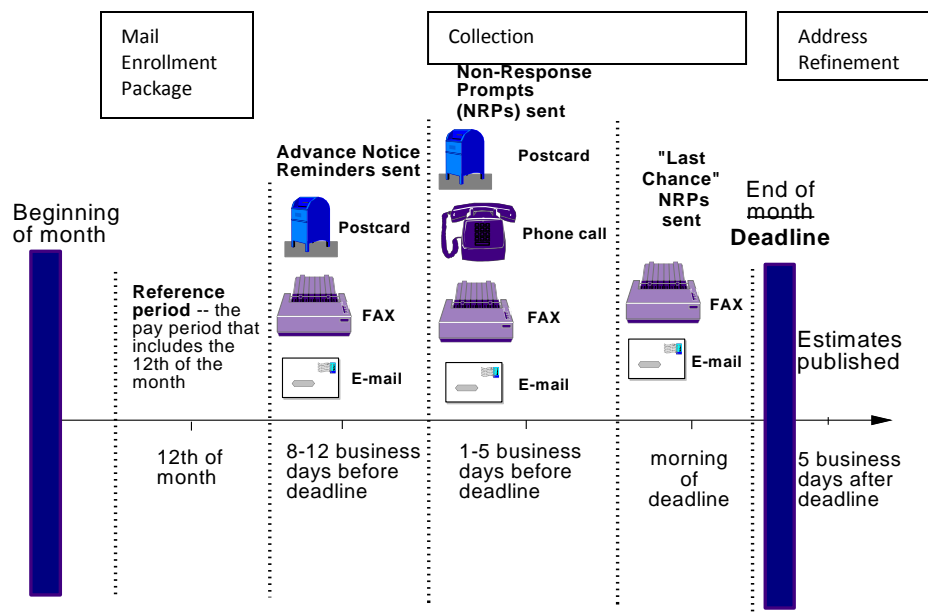
Figure 1. Distribution of Sample by Mode, 1993 and 2011.



The CES collection cycle is characterized by a process of address refinement, new sample enrollment, and on-going collection. The collection centers begin work on address refinement during the first week of the month. Enrollment packages for new firms are mailed the following week. The last two weeks of the month consist of calls to obtain cooperation from new firms and collect data from participating firms. Non-response prompting efforts using postcards, faxes, phone calls, and emails are also conducted.

Figure 2 illustrates the CES collection timeline.

Figure 2. The CES Collection Timeline



The current CES enrollment package consists of the following items:

- One page form with space for six months of data
- Cover letter
- Brochure about BLS data products
- Portfolio folder
- Single sheet of paper with mailing address
- 9"x13" window envelope

The design of the enrollment package is intended to obtain cooperation from the respondent by indicating the importance of the request. Information about the survey and BLS data products is provided along with a folder for storing the form and brochure. CES CATI interviewers are responsible for their assigned cases from address refinement and enrollment through conversion to a self-response method. Thus, each interviewer prints and assembles the packages and mails them.

4. History of the CES form

The BLS has been conducting monthly studies of employment and payroll since 1915. Since 1949, the CES program has been a Federal-State program that provides employment, hours, and earnings information by industry on a national, State, and metropolitan area basis. These agreements allowed the monthly production of employment, hours, and earnings data on a National, State, and Metropolitan Area basis (BLS, 2012). As the program grew, the forms also evolved. A review of the history of the CES form shows the stability of some the design elements in the form while also illustrating the impact of automation and changes in the industrial composition of the economy.

The 1947 form used design elements that are now obsolete. For example, the manufacturing industries form was colored yellow to ensure that it could be rapidly assigned to data entry staff for processing. Other form types had different colors. Special forms were available for Laundries, Dry Cleaning, and Dyeing firms, Hotels, and Telephone companies.

The form was intended to be stored as a permanent record of data received. Additional space was added to facilitate collection of information about the value of products produced by the firm. This information would aid in coding the appropriate industry. The form placed columns for production and related workers first, followed by columns for all employees. This form collected counts of female production workers, an item that was eventually discontinued. Other fields were available for written comments, counts of the number of days worked, and information on wage changes. The grid structure for reporting was retained by all future forms. Figure 3 shows a partial view of the form.

Figure 3. 1947 Manufacturing Form

This is our permanent office record; please handle carefully.

BUDGET BUREAU NO. 44-R467.1
APPROVAL EXPIRES JANUARY 31, 1948

Confidential Employment Report—Manufacturing

(BELOW IS MAILING ADDRESS. INCLUDE POSTAL ZONE NUMBER—CHANGE IF INCORRECT.)

Location of Establishment
(A separate report is requested for each establishment)

STREET _____
CITY _____
COUNTY _____ (If within corporate limits)

#Est State-Ind.Est# IG Met-City CalCode

I. PRINCIPAL PRODUCTS IN ORDER OF IMPORTANCE OF ANNUAL SALES VALUE

II. EMPLOYMENT, PAY ROLL, AND HOURS (Before entering data, see instructions on other side)

Year and Month	Period Reported		Do Not Use	Production and Related Workers—(See Instruction 1)			PAY ROLL		HOURS		All Employees NUMBER		Do Not Use
	From	To		L/P	Total both sexes	Female	Total both sexes	Female	Total both sexes	Female	Total both sexes	Female	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		
1946													
Dec.													
1947													
JAN.													
FEB.													
MAR.													

The instructions for the 1947 form were single column, in a small serif font. They were printed on the back of the collection page along with a letter from an official.

The Small Business Report Form of 1947 was only able to capture employment data. While very simple to understand, it was eventually discontinued. It used a simple grid structure to facilitate reporting. It also had a different reference period than the one now used.

Figure 4. 1947 Small Business Report form.

B. L. S. 1714
U. S. DEPARTMENT OF LABOR
BUREAU OF LABOR STATISTICS

Budget Bureau No. 44-R466.4
Approval expires 9-30-48.

CONFIDENTIAL EMPLOYMENT REPORT, SEPTEMBER 1947—AUGUST 1948

Please indicate in the space below the total number of full- and part-time employees on your pay roll in this establishment who worked or received pay during the week ending nearest the 15th of the current month. Do NOT include proprietors, partners, firm heads, and unpaid family workers.

Total Number of Paid Employees

(State)	(Tab.)	(Ind.)	(City)	(Block)	(Est.)	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
						Mar.	Apr.	May	June	July	Aug.

(If you have no paid employees, write "0")

PLEASE REPORT PROMPTLY
(Enclosed envelope requires no postage)

Do not hold. This form will be returned to you for next month's report.

16-47229-3 GPO

Other reports specified different deadlines for reporting than are used now. The District of Columbia Government Report, 1947-1948 specified a due date after the 5th of the month. Figure 5 has detail from the form. Unlike other forms of the period, this form used Courier font.

Figure 5. Report of Employment and Payrolls for the District of Columbia

B. L. S. 783-A U. S. DEPARTMENT OF LABOR BUREAU OF LABOR STATISTICS WASHINGTON 25, D. C. Budget Bureau No. 44-8632.2 Approval expires 7-31-1949

REPORT OF EMPLOYMENT AND PAY ROLLS FOR THE DISTRICT OF COLUMBIA GOVERNMENT

Name of department or unit _____

Report for month of _____

PAY-ROLL PERIOD		EMPLOYEES	PAY ROLLS	REASON FOR CHANGE
Date ending	Length	Number of full-time, part-time, and intermittent employees on the pay roll with pay	Gross amount before deductions	If there is any marked change since previous month, or any discrepancy between employment and pay rolls, please state reason
(1)	(2)	(3)	(4)	(5)

The CES form had significant revisions in the 1960's and 1970's. The form changed to landscape format, a confidentiality statement became more prominent, and the ordering of data items changed so that the all employees columns came first, followed by the production workers columns. Women production workers were dropped from the 1968 form and Production Worker Overtime Payroll data were dropped from the 1972 version.

Figure 6. Manufacturing form, 1968

BLS Codes Form BLS 790 C

State Report No. Ind. _____

LOCATION OF ESTABLISHMENT COVERED IN THIS REPORT (Number of establishments) (City) (County) (State)

Before entering data see explanations on other side.

Year and Month	PAY PERIOD					ALL EMPLOYEES		PRODUCTION AND RELATED WORKERS				YOUR COMMENTS	
	From (State date)	Through (State date)	Ending the period (State date)	Beginning the period (State date)	Days worked (State date)	NUMBER	Women only	Number of Production Workers	Total Production Workers (1967-1968) (1969-1970)	Total Production Workers (1971-1972)	Production Workers (1973-1974)		Production Workers (1975-1976)
1967	Jan	Jan	Jan	Jan	Jan								
1968	Jan	Jan	Jan	Jan	Jan								
1969	Jan	Jan	Jan	Jan	Jan								
1970	Jan	Jan	Jan	Jan	Jan								
1971	Jan	Jan	Jan	Jan	Jan								
1972	Jan	Jan	Jan	Jan	Jan								
1973	Jan	Jan	Jan	Jan	Jan								
1974	Jan	Jan	Jan	Jan	Jan								
1975	Jan	Jan	Jan	Jan	Jan								
1976	Jan	Jan	Jan	Jan	Jan								

(Print in to address all questions on reverse side of this report)

The instructions for the 1968 Manufacturing form were changed to a two column portrait format that is still used today.

The 1996 Manufacturing form returned to earlier designs as the data collection page was again in portrait format. The font had changed to a more modern Arial style. Space was available for collecting an e-mail address along with the more traditional contact information. Touchtone Data Entry was introduced as a collection mode, so features were added to facilitate reporting. To remove any ambiguity, the numeric equivalents of dates were added to the reference period column. For example, December was equal to 12, and January was equal to 1. Additional guidance was added to remind respondents to omit cents and fractions. Additional legal and collection burden statements were added to the top of the form. Figure 7 shows some of the detail from the 1996 form. Instead of asking the respondent to enter start and end dates of the pay period, checkboxes were added so that the respondent could check the appropriate length of pay.

Figure 7. 1996 Manufacturing Form

Bureau of Labor Statistics Report on
Employment, Payroll, and Hours – Manufacturing

U.S. Department of Labor

Form Approved
O.M.B. No. 1220-0011

This report is authorized by law 29 U.S.C. 2. Your voluntary cooperation is needed to make the results of this survey comprehensive, accurate, and timely. The Bureau of Labor Statistics and the State Agency collecting this information will use the information you provide for statistical purposes only and will hold the information in confidence to the full extent permitted by law.

We estimate that it will take an average of 7 minutes to complete this form each month including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this information. If you have any comments regarding these estimates or any other aspect of this survey, send them to the Bureau of Labor Statistics, Division of Monthly Industry Employment Statistics (1220-0011), 2 Massachusetts Avenue, Washington NE, DC 20212. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number.

A. Contact person, in case of questions:

Your Name	Title	Phone Number	FAX Number	E-mail Address
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B. Please provide the number and location of establishments covered by this report.

Number of establishments	City	County	State
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C. Please check one: Production workers are paid

each week
 every 2 weeks
 twice a month
 once a month
 other, specify:

D. Please complete columns 1-6 for the single pay period checked above which includes the 12th of the month. Detailed directions are on the back.

Reference Period	(1) All Employees:	(2) Women Employees:	(3) Production Workers:	(4) Production Worker Payroll:	(5) Production Worker Hours:	(6) Production Worker Overtime Hours:	(7) Comment Code	BLS Use Only
12=DEC	Report the number of paid employees who worked during or received pay for any part of the pay period that includes the 12th of the month	Report the number of employees from column 1 who are women	Report the number of employees from column 1 who are production workers	Report the total production worker payroll, including overtime and excluding lump sum payments for the pay period that includes the 12th of the month	Report the total production worker hours paid, including overtime, for the pay period that includes the 12th of the month	Report the total production worker overtime hours paid included in column 5		LP
1=JAN				OMIT CENTS	OMIT FRACTIONS	OMIT FRACTIONS		
2=FEB				\$				

The 1996 Manufacturing form instructions contained a box referencing common sources of adjustments to data. The adjustments were determined from the results of the 1995 Response Analysis Survey (Werking, Clayton, Rosen, 1995). Forms for other industries had similar information. An example of the changes to the instructions is shown in Figure 8.

Figure 8. 1996 Manufacturing Form Instructions with Common Reporting Adjustments

<p>Include in "All Employees":</p> <ul style="list-style-type: none"> * salaried officials of corporations * executives and their staff * persons on paid vacation * persons on paid sick leave * persons on other paid leave * part-time employees * trainees <p>Exclude from "All Employees":</p> <ul style="list-style-type: none"> proprietors pensioners unpaid family workers partners of unincorporated firms persons on strike the entire pay period * persons on leave without pay the entire pay period 	<p>COMMON REPORTING ADJUSTMENTS: Please pay special attention to items marked with an asterisk (*).</p>	<p>Report pay <i>before</i> employee deductions for:</p> <ul style="list-style-type: none"> FICA (Social Security) unemployment insurance health insurance pensions pay deferral plans (401K plans) Federal, State, and local income taxes bonds union dues <p>Include pay for:</p> <ul style="list-style-type: none"> * bonuses paid each pay period overtime holidays vacations sick leave other paid leave <p>Exclude:</p> <ul style="list-style-type: none"> * bonuses not paid each pay period * lump sum payments * retroactive pay payments-in-kind annual pay for unused leave
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The current form includes information to support the change from a quota-based sample to a probability design. In particular, a field was added to display the Unemployment Insurance account number, which is the sampling unit. Another change was to link the name of the form with the name of the survey. Formerly the form was called Report on Employment, Payroll, and Hours. The new name became Report on Current Employment Statistics. Since a significant number of firms have two payrolls reporting under one Unemployment Insurance number, support was also added for a second payroll. If needed, interviewers can generate a form with an additional page for the second payroll. A partial view of the current form is shown in Figure 9.

Figure 9. Current Manufacturing Form Showing Space for an Unemployment Insurance Number and the New Form Name

Current Employment Statistics Report Form — Manufacturing U.S. Department of Labor

START HERE for Report Number reptnum **THIS FORM REQUESTS INFORMATION FOR:**

What and who to count: See reverse side of this form. Primary Name

Same pay schedule for all employees? Enter the information requested in Pay Group 1 below. address

Different pay schedules for some employees—for example, weekly pay for some and monthly for others? Enter the information for one group in Pay Group 1 on this page and for the second group in Pay Group 2 on the next page. city, state zipcode

About YOU: If this information is not correct, please tell the data specialist. Location: location

Your name: Attn: Payroll Manager Title: Your report # reptnum2

Phone: Ext: Fac: **FOR MORE INFORMATION:**

E-mail: 1- Data Collection Center

ALL EMPLOYEES IN PAY GROUP 1

Employees receive pay: (check one) Each week Every 2 weeks Twice a month Once a month

Do employees receive commissions? Yes No

(IF YES) Employees receive commissions: (check one) Each week Every 2 weeks Twice a month Once a month

If you checked one of the boxes above, report commissions in Column 4 for the most recent complete period available.

Less often than once a month. Enter 0 in Column 4.

(IF NO).... Enter 0 in Column 4.

Report columns 1-7 for the pay period that includes the 12th of the month

Month	1 Employee Count	2 Women Employee Count	3 Payroll, Excluding Commissions (Whole dollars)	4 Commissions Paid at Least Monthly (Whole dollars)	5 Hours, Including Overtime (Whole hours)	6 Overtime Hours (Whole hours)	7 Reason for Large Changes (D1-D2 below)
All Workers			\$	\$			
Production Workers			\$	\$			

The current form instructions are more streamlined than the instructions used in the 1996 form. The 1996 form had a complicated grid that allowed respondents to select a particular comment code for employment, payroll, or hours data types. This grid was dropped on the current form. The Common Reporting Adjustment instructions were also dropped.

In summary, the early forms used in the CES consisted of a variety of specialized forms. This collection approach was easily implemented in a mail-based, labor intensive environment. As automation increased, form design was standardized and the number of forms became more restricted. Program changes led to efforts to pack more information on a single sheet of paper, leading to a complex form. However, some features have

remained consistent for decades. The grid for monthly reporting has been retained for at least 65 years. The two-column instruction page has been in use since 1968.

5. Why Redesign the Form?

In 2008, BLS started a research program to address problems with the design of the current form and produce a redesigned enrollment package. Objectives of the research were to improve efficiency of the interviewers through improved ability to explain the reporting task, to improve the respondent's comprehension of the task, and to decrease respondent burden. In May 2008, BLS contracted with Dr. Don Dillman, of the Social and Economic Sciences Research Center (SESRC) at Washington State University, to conduct this research. A final report was prepared in January 2009 (Dillman, 2009) based on research conducted at the Kansas City Data Collection Center. Revisions to the form are based on principles described in *The Tailored Method*, 3rd ed., (Dillman, Smyth, Christian, 2009).

Four goals for the redesigned package were identified. Two of the goals, items 3 and 4, were seen as significant for the project:

1. Convince the recipient to open the package.
2. Convince the recipient to read and attempt to understand the contents of the mail-out package.
3. Provide a reasonably clear explanation of what the recipient is being asked to do.
4. Persuade the recipient to comply with the request.

Research found five problems that affected the form's ability to provide a reasonably clear explanation of the survey task:

1. The cover letter is not well connected to the form.
2. The reference period is not understood.
3. Respondents do not understand that they will be called each month.
4. Some respondents complete all months of reporting at once.
5. The complexity of instructions for reporting multiple payrolls caused non-response.

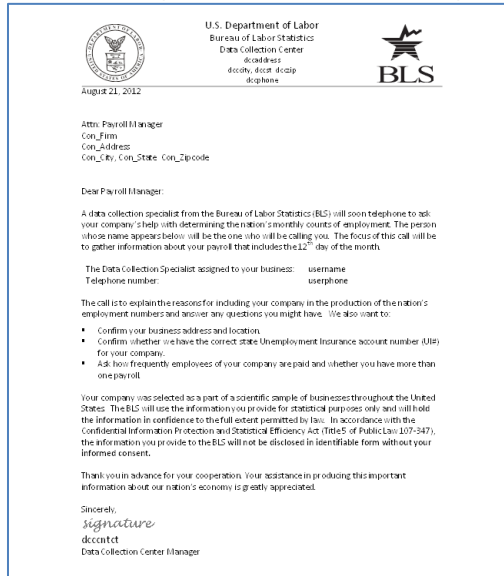
Persuading the recipient to comply with the request requires addressing a variety of different considerations: These are addressed by the current enrollment package, but could be more optimally placed in a revised form. These issues include:

1. Who is asking for the information?
2. Will the results be confidential?
3. Will my cooperation make a difference?
4. Is this voluntary or mandatory?
5. How am I being treated by whoever makes the request?
6. Who authorized this study and does it have an OMB number?
7. How long does it take?
8. Does my boss want me to do or not do this?

Different people think different issues are important and the new enrollment package was intended to address all concerns. Arguments should not be long, laborious, or unnecessarily detailed. One other design concept is to distribute arguments across all components of the mail-out package rather than concentrating them in a cover letter, form, or brochure.

The revised package consists of an 11x17 sheet of paper folded to yield 4 pages. The first page contains the cover letter, the second page contains the instructions, the third page contains a page for recording data, and the final page contains a “thank you” message along with the burden statements and a reference to a Frequently Asked Questions page on the BLS website. The components of the new enrollment package are displayed in Figures 10 through 13.

Figure 10. Redesigned Enrollment Package -Page 1



Page 1 of the new package replaces the original cover letter with a message that spells out who will be calling and the nature of the questions that the interviewer will ask. The letter also emphasizes the Confidential Information Protection and Statistical Efficiency Act protection for the respondent’s data.

Figure 11. Redesigned Enrollment Package -Page 2

► Definitions for the Questions on the Next Page

<p>Column 1 EMPLOYEE COUNT – All Workers Total number of persons in this pay group who worked or received pay for any part of the pay period that includes the 12th of the month.</p> <p><u>Include:</u></p> <ul style="list-style-type: none"> Executives and their staff Trinages Salaries officials of corporations Full-time and part-time workers Workers on active duty, if receiving pay from employer Workers on paid sick leave Workers on paid vacation Workers on other paid leave <p><u>Exclude:</u></p> <ul style="list-style-type: none"> Outside contractors and their employees Proprietors, owners, or partners of unincorporated firms Workers on active duty, if NOT receiving pay from employer Workers on leave without pay for entire pay period Workers on strike for entire pay period Unpaid family members 	<p>Column 3 PAYROLL, EXCLUDING COMMISSIONS (continue) <u>Report pay BEFORE employee deductions for:</u></p> <ul style="list-style-type: none"> Taxes FICA (Social Security) Health insurance Pay deferral plans such as 401K Bonds Pensions Unemployment insurance Union dues <p><u>Include:</u></p> <ul style="list-style-type: none"> Wages and salaries Paid holidays, vacation, sick Leave, and other paid leave Incentive pay Bonuses paid EACH pay period Overtime pay Tips, if included on 10-25 Severance, if paid over multiple pay periods <p><u>Exclude:</u></p> <ul style="list-style-type: none"> Commissions Annual pay for unused leave Awards or bonuses not paid each pay period EMPLOYEE contributions to pay such as 401K Pay advances such as vacation pay advances Payments "in kind" Ratio active or back pay Severance, if provided as one payment Travel or work-related reimbursements
<p>EMPLOYEE COUNT – Nonsupervisory Workers Number of "All Workers" defined above who are not supervisory workers. "Nonsupervisory Workers" includes every employee EXCEPT those whose major responsibility is to supervise, plan, or direct the work of others.</p> <p><u>Exclude:</u></p> <ul style="list-style-type: none"> Department heads Executives Managers Officers Superintendents 	<p>Column 4 COMMISSIONS, PAID AT LEAST ONCE A MONTH Report separately for "All Workers" and for "Nonsupervisory Workers".</p> <ul style="list-style-type: none"> Report for the most recent COMPLETE period for which commissions are available, which might be different from the pay period that includes the 12th of the month. Enter 0 if none paid for the period or pay group. EXCLUDE base pay, drawing accounts, or basic guarantees.
<p>Column 2 WOMEN EMPLOYEE COUNT Number of "All Workers" as defined above who are women.</p>	<p>Column 5 HOURS, INCLUDING OVERTIME Total number of hours for which employees received pay during the entire pay period that includes the 12th of the month. Report separately for "All Workers" and "Nonsupervisory Workers".</p> <ul style="list-style-type: none"> INCLUDE overtime, stand-by or reporting time, and hours not worked, but for which workers received pay (holidays, vacations, sick leave, etc.). Report hours for salaried and commission-only employees based on their standard work week. DO NOT convert overtime or other premium hours to straight-time equivalent hours.
<p>Column 3 PAYROLL, EXCLUDING COMMISSIONS Total gross pay earned during the entire pay period that includes the 12th of the month. Report separately for "All Workers" and for "Nonsupervisory Workers".</p>	

The content of the directions are unchanged from the previous version of the form. The improvements come from changes to improve readability. In particular, a larger font is used along with more white space. To make the linkage to the columns on the data reporting page explicit, the Column text prior to the individual instructions are framed with a rectangle.

Figure 12. Redesigned Enrollment Package -Page 3

► Information We Have For Your Firm: [1 of 6]

Firm: Primary Name address city, state zipcode State Unemployment Insurance #: Industry Code:	Location for this report: location Contact: Attn: Payroll Manager3 Tel: Ext: con_ext Fax: con_fax Email: email_addr
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Your Report Number is: reptnum Pay Group 1 paygr1

► When you report your payroll for the pay period that includes the date of **mon1_expl 12th**, we will only ask for answers to these questions.

Month	Column 1	Column 2	Column 3	Column 4	Column 5
	EMPLOYEE COUNT	WOMEN EMPLOYEE COUNT	PAYROLL EXCLUDING COMMISSIONS <small>(W-2 Basis)</small>	COMMISSIONS, PAID AT LEAST ONCE A MONTH <small>(Other Basis)</small>	HOURS, INCLUDING OVERTIME <small>(W-2 Basis)</small>
Pay period that includes mon1 12th year1	All Workers Nonseasonal Workers	Not applicable. Do not collect.	\$	\$	

► Each following month, we will call for the pay period that includes the 12th of each month. You can keep a record of what's reported each month below:

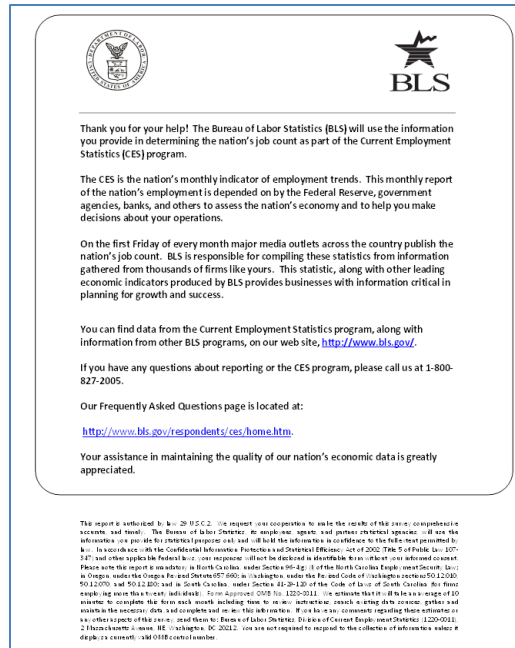
Month	EMPLOYEE COUNT	WOMEN EMPLOYEE COUNT	PAYROLL EXCLUDING COMMISSIONS <small>(W-2 Basis)</small>	COMMISSIONS, PAID AT LEAST ONCE A MONTH <small>(Other Basis)</small>	HOURS, INCLUDING OVERTIME <small>(W-2 Basis)</small>
Pay period that includes mon2 12th	All Workers Nonseasonal Workers	Not applicable. Do not collect.	\$	\$	
mon3 12th	All Workers Nonseasonal Workers	Not applicable. Do not collect.	\$	\$	
mon4 12th	All Workers Nonseasonal Workers	Not applicable. Do not collect.	\$	\$	
mon5 12th	All Workers Nonseasonal Workers	Not applicable. Do not collect.	\$	\$	
mon6 12th	All Workers Nonseasonal Workers	Not applicable. Do not collect.	\$	\$	

We will send you another form for reporting after mon6_footer year6_footer.

Please keep this form to use when the Data Collection Specialist calls you to complete the survey. Thank You!

The collection page incorporates some significant changes from previous versions of the form. First, the box at the top of the page highlights important information about the reporter, so that confusion about the coverage of the report is minimized. Second, the first month is split off from the other months. This change has the effect of reducing the perceived burden of the task—the request is just for two rows of data per month rather than completing the entire grid. Finally, there is a statement at the bottom of the form saying that we will send them another form after the enrollment form is filled.

Figure 13. Redesigned Enrollment Package -Page 4



Page 4 contains a “thank you” message along with general information about the survey. Links are provided to the BLS web site along with a Frequently Asked Questions page. The burden statement and legal citations are available at the bottom of the page.

6. Design of Test

To evaluate the effectiveness of the new form, a systematic random sample of new firms to be enrolled was selected. Test and control samples were stratified by size, whether the firm had a single or multiple locations, industry, geography, and interviewer tenure. Because CATI is used for the initial 5 months, the goal of the test is to find efficiency gains from the new form rather than increases in response rates. Firms are defined by an Unemployment Insurance account number. Each Unemployment Insurance account number can represent multiple locations and each location will have a unique report number.

The test began in March 2011. Each center received a monthly panel of 120 test firms and 120 control firms. We stopped sending new test panels to the centers in February 2012. Every month, the centers would refine the addresses, prepare the appropriate enrollment package, contact the respondent, and collect data. It was important to ensure that the participants in the test were entirely new to the CES and had no previous experience with the current report form. Therefore, firms were dropped from the test if the interviewer determined that the reporter was already being contacted for another Unemployment Insurance account. As of the end of the test in February 2012, the test sample had 4009 reports and the control sample had 3628 reports.

7. Results

The following figures show the results obtained by the collection centers. Since the project is focused on efficiency gains from the new forms, we were looking for improvements in average data collection time and enrollment time. Item response rates

were also evaluated to assess data quality improvements. Finally, response and collection rates were tracked over the project.

Figure 14. Average Enrollment Time in Seconds

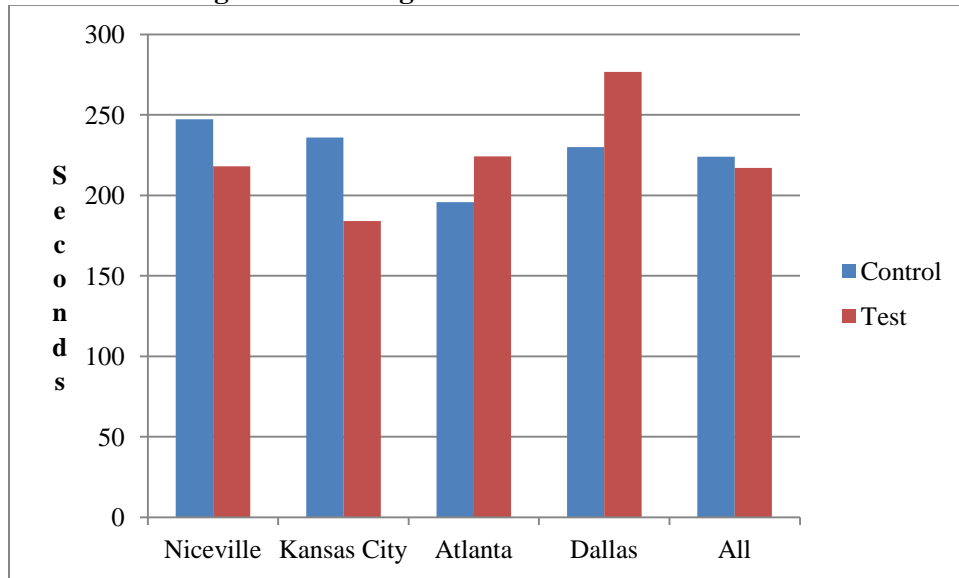


Figure 14 shows average time in seconds for enrollment efforts across the four collection centers. Enrollment is the effort of contacting a firm and obtaining an agreement to provide data. As expected, enrollments using the test form in Niceville and Kansas City took less time than those using the standard form. The Atlanta and Dallas results showed that the current form enrollment times were faster than those using the test form. Atlanta's control panel results were faster than the other collection centers and its test panel results were comparable to those obtained by Niceville. We have some suspicions that the Dallas results are due to issues with the phone system impacting the time tracking software built into the CATI software used by the centers. Atlanta has interviewers who have long tenure with the current form, suggesting the possibility that experience was driving the exceptional performance with the control panel. Both the Atlanta and Dallas interviewers liked working with the new forms.

Figure 15. Average Collection Time in Seconds

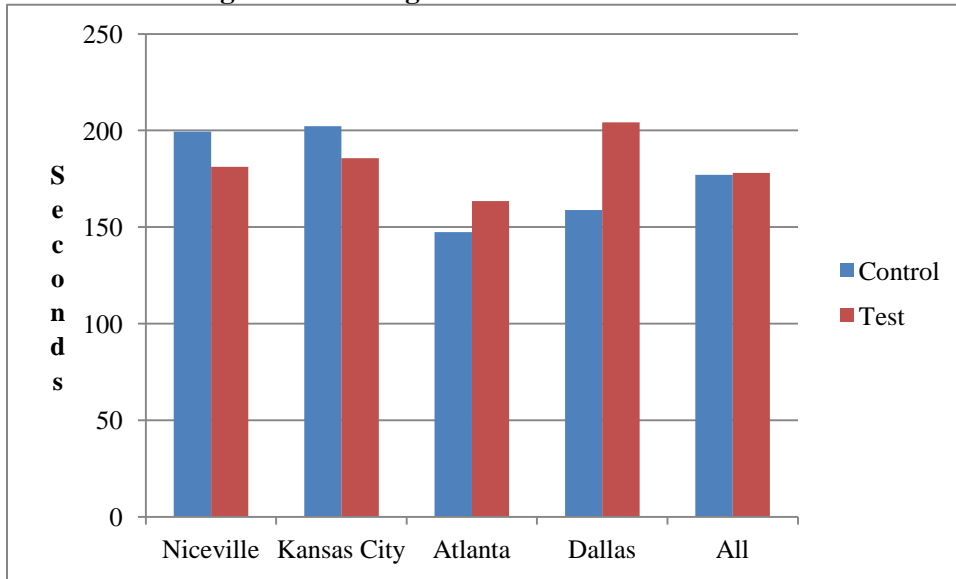


Figure 15 shows average collection times by collection center. Collection time is defined as the amount of time needed to collect data each month. Niceville and Kansas City had similar results and found that the test form outperformed the standard form used with the control sample. Interestingly, Atlanta had shorter collection times than the other centers, but the standard form outperformed the test form. Dallas results indicated that the test form yields slower collection times than the standard form. Like the enrollment rate findings, we have a suspicion that issues with the phone system affected the Dallas results.

Figure 16. Item Response Rates

Date	Group	Women Workers	Production or Non-supervisory Workers	All Employee Hours	Production Worker Hours
Jun-11	Test	91.0%	84.0%	73.0%	60.0%
	Control	91.0%	88.0%	67.0%	60.0%
Jul-11	Test	90.0%	87.0%	72.0%	61.0%
	Control	90.0%	87.0%	64.0%	56.0%
Aug-11	Test	88.0%	87.0%	71.0%	63.0%
	Control	89.0%	84.0%	65.0%	56.0%
Sep-11	Test	87.0%	86.0%	69.0%	60.0%
	Control	87.0%	82.0%	64.0%	54.0%
Oct-11	Test	87.0%	86.0%	67.0%	58.0%
	Control	87.0%	81.0%	63.0%	52.0%
Nov-11	Test	87.0%	85.0%	66.0%	57.0%
	Control	86.0%	80.0%	61.0%	51.0%
Dec-11	Test	86.0%	84.0%	61.0%	53.0%
	Control	85.0%	80.0%	58.0%	48.0%
Jan-12	Test	86.0%	85.0%	61.0%	53.0%
	Control	84.0%	80.0%	58.0%	48.0%
Feb-12	Test	86.0%	86.0%	62.0%	55.0%
	Control	85.0%	80.0%	58.0%	48.0%

Figure 16 shows item response rates for selected data items. The test forms had better item response rates for all of the items during the last four months of the test, possibly reflecting a learning curve. Improvements were observed for some of the items in prior months. These differences are highlighted in bold.

Figure 17. Enrollment Rates at Preliminary Estimate

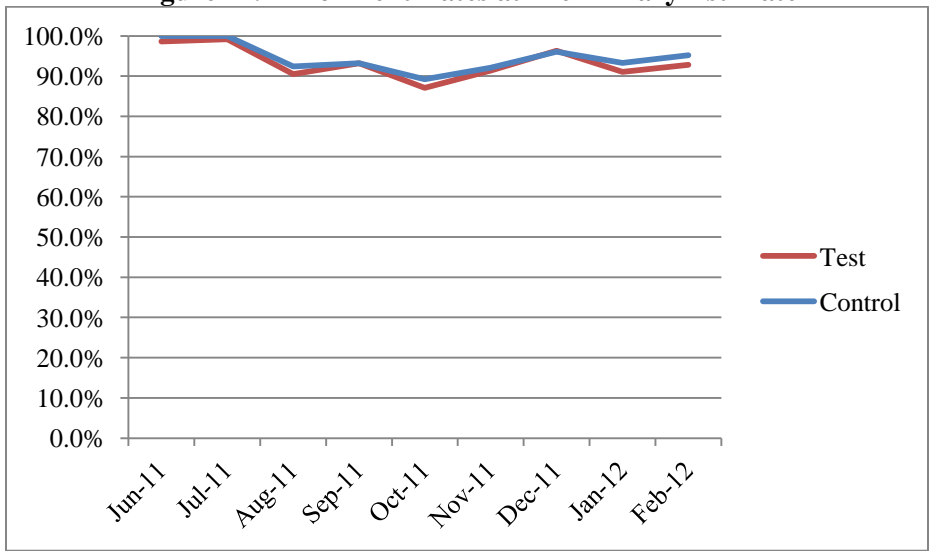


Figure 17 shows enrollment rates over 90% for most months of the test. There is little difference between the control and test groups. June and July had very high enrollment rates due to the long collection periods in those months.

Figure 18. Response Rates at Preliminary Estimate

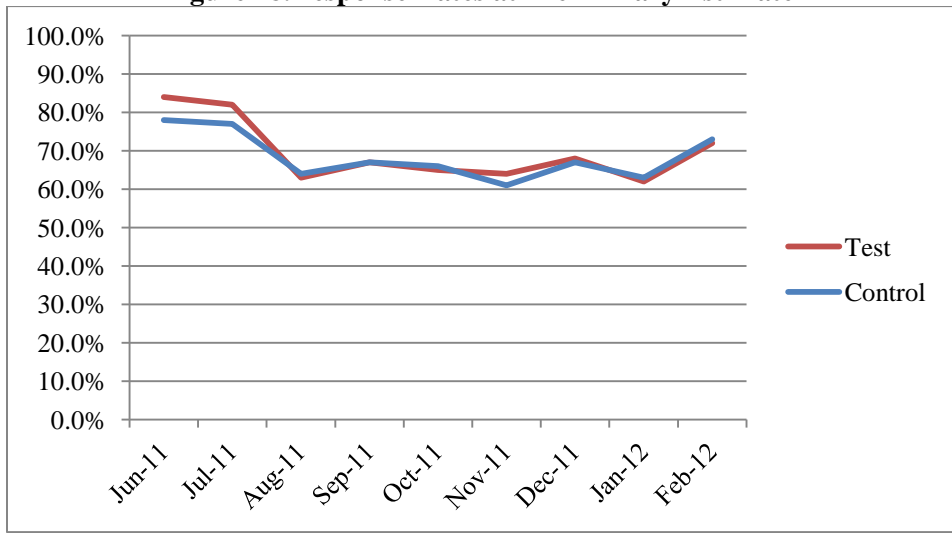


Figure 18 shows response rates achieved during the test. Response rates have been stable, staying between 60% and 70% during most months of the test. The test and control rates are very similar.

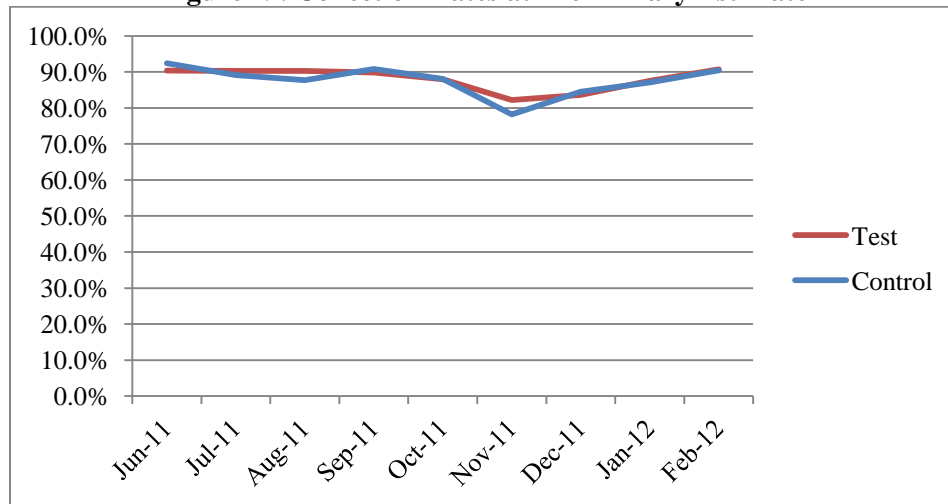
Figure 19. Collection Rates at Preliminary Estimate

Figure 19 shows collection rates for all months of the test. Like the response rates, collection rates are very similar between the test and control samples.

8. Summary

We believe that the new form offers improvements in interviewer efficiency and data quality. These benefits include:

- Converting to a four page design eliminated a source of mismatched letters and forms.
- Improvements in Item Non-response were observed.
- Interviewers reported that it was easier to enroll firms with the new form. Kansas City and Niceville enrollment time results confirmed this observation.
- Collection times were also faster in Kansas City and Niceville.
- Response and Collection rates were similar between test and control samples.

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