AN EXPERIMENTAL ANALYSIS OF MODIFICATIONS TO THE SURVIVOR BENEFIT INFORMATION WITHIN THE SOCIAL SECURITY STATEMENT

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Abstract

This paper examines the effect of modifications to the survivor benefit information in the Social Security Statement on the benefit knowledge and the expected claiming behavior of married men using an experimental survey of workers from the RAND American Life Panel (ALP). Critical components of this analysis include modifications to the survivor benefit information in the Statement’s benefit table and a “special insert” that explains the survivor benefit provisions. The key limitations of this study include the limited generalizability of the results due to the sampling frame (i.e., men) and the self-selection of ALP panel members into the study. Second, a worker’s claiming decision is likely the result of a more complicated decision-making process than was allowed for in this experiment. Our study assumes, for example, that married workers evaluate their benefit information and make a decision about when to claim independent of input from their spouse. While the occurrence and scope of such deliberations will vary by household, given the financial implications of this decision for each spouse, the assumption that married workers make this decision unilaterally is somewhat tenuous.

The paper found that:

- Providing individuals with comprehensive and complex survivor benefit information improved their awareness and understanding of these provisions.
- When workers are compelled to consider the effect that their claim age has on their survivor benefit, they appear to incorporate this into deciding when to claim. Each modification increased the expected claim ages of respondents by roughly one year relative to the control.
- While it is possible to foster a deeper understanding of the complex interaction among survivor benefit provisions through an informational insert, this level of comprehension does not appear necessary to induce prosocial claiming behavior. Instead, it was sufficient for respondents to merely see that their spouse would receive a lower survivor benefit at lower claim ages.
- The fade-out of the effects of the modifications considered in this analysis was rapid.
The policy implications of the findings are:

- Respondents in this study were not well informed about the survivor benefit, suggesting that more detailed information may help married workers prepare financially for retirement and the transition into widowhood.

- The finding that workers exposed to survivor benefit information were more likely to adjust their expected claim age suggests that they may not have already factored this information into their expectations and that it has value.

- The rapid fade-out of the improvements in benefit knowledge and expected claiming behavior evident in this study has important practical implications and suggests that workers may benefit most if online information and mailed paper statements were treated as complements as opposed to substitutes.
**Introduction**

Social Security benefits are the largest financial asset for the majority of U.S. households and have long been the largest source of income for elderly households (Poterba, Venti, and Wise, 2013; Social Security Administration, 2016a). This makes the choice about when to claim Social Security benefits one of the most important decisions that retiring workers must make. Not only does this decision help determine the amount of the monthly retirement benefit a worker will receive from Social Security for the rest of their lives, but it can also determine the amount of the “auxiliary benefits” the worker’s spouse is entitled to receive based on the worker’s earnings history. For these reasons, the Social Security Statement—a paper document that the Social Security Administration (SSA) periodically mails to workers to explain their benefits to them—is one of, if not the most, important financial documents most workers will receive during their working lives. The central components of this document detail the worker’s earnings history and calculate the retirement benefits he or she can expect to receive if claimed at age 62, at the worker’s full retirement age (FRA), or at age 70. The Statement also specifies the amounts of the auxiliary benefits the worker’s spouse is projected to receive based on the worker’s earnings history. However, it communicates considerably less information about these particular benefits to workers. For example, it does not fully explain whether and to what extent the auxiliary benefit amounts are affected by when the worker decides to claim, even though early claiming penalties applied to these benefits can have a significant effect on the total lifetime benefits married couples can expect to receive from Social Security (Sass, Sun, and Webb, 2007).

The absence of detailed auxiliary benefit information is perhaps most notable for the “widow(er),” or “survivor,” benefit, which is the most substantial of these benefits in terms of the number of beneficiaries (7.5 million), nearly all of whom are women, and the level of expenditures on both a total and a per-capita basis (Social Security Administration, 2016b). Survivor benefits are paid to the lower-earning surviving spouses of deceased workers who received, or were eligible to receive, a retirement benefit. Like the retirement benefit, the earlier a worker claims between age 62 and age 70, the lower the monthly survivor benefit amount that the worker’s spouse can expect to receive in widowhood. In fact, any reduction in the retirement benefit incurred by the worker for claiming before age 70 applies in equal measure to the
survivor benefit his spouse is entitled to receive in the event of his death.\textsuperscript{1} The results from empirical studies suggest that the provision linking the worker’s claim age to his spouse’s survivor benefit has important implications for the financial well-being of elderly women in widowhood. Early claiming by the primary earning spouse is associated with a significant reduction in Social Security income in widowhood and a significant increase in the likelihood that his spouse will enter poverty in widowhood (Diebold, Moulton, and Scott, 2016; Sass, Sun, and Webb, 2007).

Most men claim their benefits before their full retirement age—the age when workers become entitled to receive 100 percent of their primary insurance amount—and almost all claim before age 70, when both retirement and survivor benefit amounts are maximized (Johnson, Smith, and Haaga, 2013). As a result, these men receive a reduced retirement benefit, and their spouses can expect to receive a reduced survivor benefit. It is possible that many of these men are not fully aware that the timing of their claiming decision helps determine their spouse’s survivor benefit amount or, if they are aware, it may not be a salient consideration for them as they decide when to start receiving their retirement benefit. One plausible explanation for either of these possibilities is that, unlike the retirement benefit, information about the determinants of the survivor benefit are not clearly articulated within the Statement. This is important because the Statement is the primary source of information that workers use, and prefer to use, to learn about their benefits (Greenwald et al., 2010). Empirical studies consistently demonstrate that this document improves workers’ knowledge of their retirement benefit, although they vary in terms of the scope and scale of the observed improvements in these outcomes (Mastrobuoni, 2011; Biggs, 2010; Sass, 2015). The results from these studies indicate that the Statement is likely responsible, at least in part, for the near universal understanding among workers that early claiming will result in lower retirement benefit amounts (Brown and Perron, 2011). The Statement emphasizes this particular provision through detailed explanations and by empirically demonstrating its implications for the projected benefit amounts for the worker and for a stylized worker at different claim ages. These efforts are intended to foster awareness about this provision and signal its importance to workers as they consider when to start receiving their

\textsuperscript{1} The SSA pays survivor benefits to the lower-earning spouse in a married household in the event of the death of the higher-earning spouse, regardless of sex. However, to simplify the discussion of these benefits, we will refer to the higher-earning spouse as men and the lower-earning spouse as women.
benefits. By comparison, the Statement devotes little attention and resources to promote workers’ understanding of the survivor benefit provisions. Accordingly, studies show that a relatively smaller, but still remarkably high, proportion of workers are aware that their claim age can affect their spouse’s survivor benefit amount (Brown and Perron, 2011; Perron, 2015). However, the arguments and results presented here suggest that workers’ knowledge about this particular survivor benefit provision is likely lower than previously reported and it is almost non-existent for other important survivor benefit provisions relevant to the claiming decisions of married workers.²

As the Social Security Advisory Board (2009) noted in its review of the Statement, this document needs to include the information that workers need to know to make informed decisions. Yet, the omission of detailed information about the survivor benefit from the Statement may contribute to the asymmetries in workers’ knowledge about the benefits they and their spouse will likely depend upon during the financial dislocations associated with late-life transitions into retirement and widowhood. By clearly articulating the survivor benefit provisions to workers through modifications to the Statement, the SSA may be able to improve workers’ financial planning, signal the importance of this information to their claiming decision, and promote the financial security of survivor benefit beneficiaries in widowhood.

Due to the complex structure of the survivor benefit, however, there are unique challenges associated with this task. The SSA must balance the need to provide workers with relevant and complete information about their benefits with the need to avoid overburdening them with excessive details. The present study uses a randomized experimental design to analyze the effect of two modifications to the survivor benefit information within the Social Security Statement on benefit knowledge and expected claiming behavior, which, to date, has yet to be explored. Both modifications are modeled after the most prominent approaches the SSA currently uses to communicate benefit eligibility and expected benefit amounts to workers, which vary in terms of their scope of content: (1) benefit projections adjusted by claim age in the

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² One such provision concerns the effect of any retirement benefit amount the lower-earning surviving spouse is entitled to receive based on her own earnings history. Her own retirement benefit amount offsets the amount of any survivor benefit she will receive. Thus, her survivor benefit amount is only equal to the difference in the amount of her own retirement benefit and that of her higher-earning, now deceased, spouse. As a result, the claim age of her higher-earning spouse has a steadily diminishing effect on her survivor benefit amount as their earnings histories approach parity.
Statement’s benefit table and (2) a special, age-targeted “insert” that the SSA mails to workers along with the Statement.

We find that the insert approach was more successful at fostering a deeper understanding of the complex interaction of the network of survivor benefit provisions. However, we also find this level of comprehension does not appear necessary to promote prosocial claiming behavior among workers. Instead, it is merely sufficient for workers to see how their claim age affects their spouse’s survivor benefit amount after it has been adjusted to account for other, more esoteric, survivor benefit provisions. Thus, with only small adjustments to the information within the Statement, the SSA can make the effect of the worker’s claim age on the survivor benefit more salient among the mix of considerations that workers factor into their claiming decision. However, the fade-out of the effect of both modifications on almost all of the outcomes considered in this analysis was rapid. The observed effects, along with their rate of decay, have important implications for the policies and practices the SSA employs to educate workers about Social Security benefits.

Background

The SSA initiated the annual mailing of Statements to workers in selected age groups in 1995 (Smith and Couch, 2014a). Prior to 1995, individuals could access earnings and benefits information by requesting it from the SSA. Since the development of the Statement, the SSA has made several changes to its appearance, content, and mailing schedule (Smith and Couch, 2014a). Currently, the Statement is mailed to workers aged 25, 30, 35, 40, 45, 50, 55, and 60 or older who have not applied for online access to their benefit information through the SSA’s website. The purpose of this document is to improve the public’s understanding of the provisions of the Social Security system. To this end, the Social Security Advisory Board—the independent federal agency established by Congress in 1994 to advise the President, the Congress, and the SSA on matters related to the Social Security program—considers improvements to the content and design of the Statement to be “one of the highest priorities of the [SSA]” (Social Security Advisory Board, 2009).

With exception of the introductory passage on the first page of the Statement, the format and content of the main body of the document are the same for all workers (see Appendix C). The introductory passage of the document varies slightly depending on the worker’s age. The
passages provided to younger and middle-age workers list the benefits that workers and their families are entitled to receive based on the worker’s earnings history. They also emphasize the need for workers to supplement their Social Security benefits with other forms of retirement saving. In addition to this information, older workers nearing retirement receive information about online tools that they may use to estimate, apply for, and manage their benefits. Regardless of their age or current eligibility status, the SSA provides workers with a “benefit table” that contains individual-specific estimates of the benefit amounts that they project the worker and the worker’s family will be entitled to receive from Social Security based on the worker’s earnings history. The SSA then provides a brief explanation of the formula they use to calculate the amounts displayed in the table. This formula incorporates the history of the worker’s annual earnings, which are displayed, by year, in a table on the following page along with the Social Security and Medicare taxes paid by the worker.

The content of the Statement emphasizes the importance of the worker’s claim age to the monthly retirement benefit amount he can expect to receive from the SSA. From a retirement planning perspective, this information is critical because it helps establish the level of the income floor that Social Security provides. The specific implications of this provision are most clearly demonstrated in the benefit table displayed on the second page of the document. This table prominently displays the projected monthly amounts the worker will be entitled to receive if the benefit is claimed at age 62, the worker’s FRA, or age 70. The corresponding amounts signal to workers that the longer they postpone their claiming decision past age 62, the larger their monthly benefit amount will be. The Statement then elaborates more explicitly on this key provision in the following passage, which, unfortunately, may confuse more than it clarifies, as it conflates the worker’s retirement decision with their Social Security claiming decision, which are not necessarily mutually inclusive events:

“Some people retire before their full retirement age. You can retire as early as 62 and take benefits at a reduced rate. If you work after your full retirement age, you can receive higher benefits because of additional earnings and credits for delayed retirement.”

3 A worker can retire while continuing to postpone claiming their Social Security retirement benefit, thereby increasing the monthly amount they are entitled to receive. Alternatively, a worker age 62 or older can choose to claim their benefit before they retire, though, depending on their age and earnings, the benefits they receive may be subject to the Social Security retirement earnings test.
Finally, to reinforce the Statement’s explanation of this provision to workers, in 2000, the SSA began supplementing the claim age information in the benefit table with a special “insert” titled, “Thinking of retiring?” to accompany the Statements mailed to workers age 55 or older (Smith and Couch, 2014a). The insert describes the claim age provision in considerable detail and includes examples and text that are less open to misinterpretation. Unlike the benefit table, the information provided to workers in the insert is conceptual and generic. It provides an overview of the retirement benefit provisions as they apply to all workers without regard to their individual-specific circumstances or earnings histories. The insert reports the specific numerical adjustment—expressed as a percent—that the SSA will make to the worker’s benefit amount at each year of age between 62 and 70, which may help explain age-adjusted amounts included in the Statement’s benefit table to the worker. The insert also demonstrates the implications of the claim age provisions of the Social Security retirement benefit in practice using a hypothetical worker who is entitled to receive a $1,000 retirement benefit at age 66. No individual-specific information pertaining to the worker’s earnings history or benefit amounts are included in the insert. Workers must deduce and empirically apply this information to their own circumstances.

Of course, the worker’s claim age affects the auxiliary benefits that the worker’s family is entitled to receive as well, most notably the amount of the survivor benefit the worker’s spouse is entitled to receive in widowhood. However, this claim age provision receives considerably less attention in both the benefit table and special insert. The benefit table includes an estimate of the survivor benefit amount along with the amounts of the other auxiliary benefits that the worker’s family and survivors are entitled to receive based on the worker’s earnings history, but it does not indicate whether or to what extent this amount varies according to the worker’s claim age. Nor is this amount adjusted by any Social Security retirement benefit that the worker’s spouse is expected to receive based on her own earnings history. Instead, the table only reports an estimate of what the survivor benefit will be if the worker claims his own retirement benefit at his FRA. The text of the Statement merely mentions that this benefit exists.

The insert establishes the existence of the survivor benefit as well, but also notes that the amount of this benefit will depend on the worker’s claim age. The full passage is as follows:

“If you are married and die before your spouse, he or she may be eligible for a benefit based on your work record. If you start benefits before your full retirement age, we cannot pay your surviving spouse a full benefit from your
record. Also, if you wait until after your full retirement age to begin benefits, the surviving spouse benefits based on your record will be higher.”

This statement is accurate, though it is far from complete. Most importantly, it fails to explain the survivor benefit formula used by the SSA to determine the eligibility of surviving spouses for this benefit as well as the amount they are entitled to receive. Workers need this information to understand whether and to what extent their claim age will actually affect their spouse’s survivor benefit amount. Survivor benefits are structured such that only lower-earning spouses are entitled to receive a survivor benefit based on their deceased spouse’s earnings record. This eligibility restriction is the result of the survivor benefit formula which entitles surviving spouses to a benefit equal only to the difference in the retirement benefits earned by each spouse. As a result, the importance of the worker’s claim age is a function of the relative spousal earnings histories. At one extreme, the worker’s claim age has a large effect on the survivor benefit amount when the worker has a longer history of higher earnings compared his spouse and is, therefore, entitled to receive a relatively larger retirement benefit. At the other extreme, the effect of the worker’s claim age ranges from negligible to non-existent for a worker in a two-earner household whose spouse has a comparable history of earnings wherein each spouse is entitled to similarly sized retirement benefit amounts. The nuances are important for workers to understand if they want to choose a claim age that maximizes the monthly and lifetime benefit amount that they and their spouse can expect to receive from Social Security.

Literature Review

What Do People Know?

Workers tend to be quite knowledgeable about the information pertaining to their own retirement benefit emphasized in the Statement. Brown and Perron (2011) examined the knowledge of specific aspects of Social Security benefit knowledge among a nationally representative sample of workers age 55 to 66. The authors found that the majority of

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4 Consider a worker who receives a $2,000 monthly retirement benefit from Social Security and whose spouse is not entitled to receive a retirement benefit based on her own earnings history. In the event of the worker’s death, his spouse will receive a survivor benefit of $2,000, the full amount of the retirement benefit paid to the worker before his death. Now suppose that the worker again receives a $2,000 monthly retirement benefit but that his spouse is entitled to receive a $1,300 retirement benefit based on her own earnings history. In the event of the worker’s death, his spouse will again receive $2,000 from Social Security, but only $700 of this amount will be based on his earnings history. Thus, the longer he postpones his own claiming decision, the higher the “cap” on the total amount his spouse can receive in widowhood, based on his earnings history.
respondents were aware of the effect of their claim age on the amount of their monthly Social Security retirement benefit, with 95 percent correctly reporting that delaying claiming from age 62 to 66 results in higher benefits. Comparably high levels of knowledge about this particular provision were evident in related studies by Liebman and Luttmer (2012) and Perron (2015). Workers, however, appeared to be less aware of how long they must postpone their claiming decision after age 62 to receive the highest possible monthly retirement benefit amount. Only 30 percent of respondents in the study by Brown and Perron (2011) correctly reported age 70 as the benefit maximizing claim age.

By comparison, workers appear to be somewhat less knowledgeable about the survivor benefit. Brown and Perron (2011) found that 78 percent of workers correctly stated that a worker’s claim age can affect the survivor benefit amount the worker’s spouse is eligible to receive. However, they also found that only 18 percent of these workers correctly identified age 70 as the age that maximizes the monthly survivor benefit amount. This last finding is consistent with survey results from Greenwald et al. (2010), who found that only about 20 percent of married individuals report being “very knowledgeable” about how their own or their spouse’s claim age affects their own or their spouse’s benefits. According to survey results from Liebman and Luttmer (2012), roughly 66 percent of higher-earning and lower-earning spouses in married households correctly indicated whether the amount they receive from Social Security would increase, decrease, or remain the same in the event of their spouse’s death. The authors interpreted this result as evidence of “widespread awareness” of the survivor benefit rules, though one in three do not appear to understand whether or to what extent their claim age will affect their spouse’s survivor benefit or vice versa. Equally important, it is not clear from their results whether workers understand the magnitude, in addition to the direction, of any changes in the amount they or their spouse can expect to receive in widowhood. From a financial planning perspective, it is critical to understand both. For example, a lower-earning spouse may correctly understand that the amount she can expect to receive from Social Security will increase in widowhood, but she may incorrectly assume that this increase is equal to the combination of the full amount of her own and her deceased spouse’s retirement benefit, rather than an amount capped at the larger of the two. In this example, the lower-earning spouse is expecting to have much more financial protection from Social Security in widowhood than the program will provide. It is also not clear whether workers understand that their claim age reduces their
retirement benefit and their eligible spouse’s survivor benefit by corresponding and equivalent amounts. Thus, it is not clear whether workers possess more than a vague sense of the relevance of their claim age for the survivor benefit they may leave to their spouse.

One possible explanation for the apparent gap between workers’ knowledge about the retirement and the survivor benefit provisions is that the Statement, understandably, prioritizes information about the provisions pertaining to the former and, less understandably, provides very little information about the latter. Decisions concerning the content of the Statement are central to workers’ benefit knowledge because this document is the primary resource that workers access to learn about their benefits, despite the growing number of similar resources the SSA makes available to them through the Internet (Greenwald et al., 2010). The paper Statement is also the preferred method of communication for workers. In an analysis of adults age 18 and over, Greenwald et al. (2010) found that 89 percent of respondents agreed that providing information through the mail is the best way for the SSA to disseminate educational materials. Only 15 percent of respondents in their sample reported that they had recently visited the SSA’s website, but almost 70 percent reported that they had recently received a Statement. Of those who remembered receiving a Statement, 83 percent reported that they read the Statement carefully and 85 percent reported that it improved their understanding of their own benefits. The insert was only slightly more successful at improving workers’ knowledge of their benefits (90 percent). In a related study, Perron (2012) found that if forced to choose between receiving a Statement by mail or on the Internet, 75 percent reported that they would choose to receive the documents in paper format only. Even younger respondents (age 25 to age 49) preferred the paper Statement by a sizable majority (66 percent).

Workers may prefer the paper Statement for good reason. Empirical studies generally confirm that the Statement has improved workers’ knowledge of the retirement benefit provisions (Sass, 2015). Interestingly, the magnitude of these improvements is a function of the conspicuousness of this information within the document (Smith and Couch, 2014b). Several of these studies focus on the retirement benefit provisions and demonstrate that the Statement is responsible for improving the level of knowledge among workers about the monthly retirement benefit amount they can expect to receive as well as about the provisions that determine the amount of this particular benefit. Mastrobuoni (2011) used the staggered introduction of the Statement beginning in 1995 to analyze the effect of the Statement on workers’ knowledge of the
amount of the retirement benefits they can expect to receive. He found that the Statement reduced the share of workers unable to provide an estimate of their expected benefit amount and improved the accuracy of the estimates provided. In a similar study using self-reported rather than administrative data, Biggs (2010) found that, while the initial distribution of the Statement did not result in an immediate increase in knowledge of retirement benefit levels, the continued receipt of this document over many years appears to have reduced errors in predicting benefits. Smith and Couch (2014b) also used the staggered introduction of the Statement to analyze its effect on Social Security benefit knowledge among younger workers. To do so, they compared correct responses to questions about the program from younger workers in 1998, who had never received a Statement, to those from younger workers in 2001, who had received a Statement. They found that the receipt of a Statement was associated with a better understanding of the program and how the SSA determines their benefit amounts. Importantly, the authors found that the increase in benefit knowledge associated with Statement receipt was largest for those provisions of the program featured more prominently within the body of the Statement. Taken together, the results from these studies suggest workers may better understand survivor benefit rules if this information were clearly and more prominently displayed within the Statement.

Why Does It Matter?

Whether and to what extent modifications to the Statement can improve workers’ knowledge of survivor benefit provisions and make this information more salient among the considerations that workers take into account when deciding at what age to claim their own retirement benefit, can have important implications for the well-being of surviving spouses, particularly women. Shortly after the onset of widowhood, elderly women tend to experience a significant decline in both their income and income-to-needs ratio (Karamcheva and Munnell, 2007; Sevak, Weir, and Willis, 2005; Zick and Holden, 2000). Gillen and Kim (2009) estimate that the household income of older women entering widowhood declines by 41 percent, placing these women at a greater risk of entering poverty. The survivor benefit is instrumental in helping offset this loss of income and keeping widows out of poverty. Following the death of their spouse, Social Security payments become the most important source of income for widows and, for a vast majority, the survivor benefit will account for some or all of the amount of the payment they receive (Social Security Administration, 2016a). As a result, the generosity of the
survivor benefit payment is strongly associated with the widow’s risk of entering poverty following the death of her spouse. Weaver (2010) found that poverty rates among elderly widows declined substantially in the years after Congress increased the amount of the survivor benefit from 75 percent of the value of the deceased worker’s retirement benefit to 100 percent in 1972.

Despite these improvements, the level of financial security the survivor benefit provides to eligible widows is still subject to the provision indirectly linking the amount they will receive to the claim age of their deceased spouse. Known, as the “widow(er)’s limit,” this provision stipulates that a widow(er)’s total Social Security income may not exceed the amount of the benefit the primary earner would receive if he (or she) was still alive, regardless of their own retirement benefit. If the primary earner claims his retirement benefit early, he reduces the amount he is entitled to receive and, consequently, the amount of the survivor benefit his spouse will receive in the event of his death. The earlier he claims his own retirement benefit before age 70, the larger the reduction in the survivor benefit. By claiming at age 62 as opposed to age 70, he can reduce the amount of the survivor benefit by as much as 40 percent.

The evidence from empirical studies indicate that early claiming by men diminishes the effectiveness of the survivor benefit as an income maintenance mechanism for their widowed spouses. Diebold, Moulton, and Scott (2016) found that the annual income a widow receives from Social Security is about $650 less for each year that her husband claimed before age 70. Extrapolating from these results, by claiming at age 62 as opposed to age 70, a worker reduces his spouse’s annual income in widowhood by $5,200, a substantial sum considering that 42 percent of widows live in or near poverty (Social Security Administration, 2016c). The authors also found that delayed claiming by the widow’s husband significantly reduced her risk of entering poverty in widowhood and that these reductions are most dramatic for those widows who are most dependent on Social Security and the survivor benefit for their income. Their results are consistent with an analysis by Sass, Sun, and Webb (2007) that projected that the reduction in survivor benefit income that results from early claiming by husbands is sufficiently large to move 13 percent of widows into poverty and 23 percent into near poverty, assuming that these widows had little or no income from other sources. Both studies conclude that the Social Security Statement should be modified to specifically outline the effect of claim ages on the amount of the survivor benefit. These recommendations are consistent with those of the Social
Security Advisory Board to provide “personalized information...and summaries of things that people need to know to make informed decisions” (Social Security Advisory Board, 2009).

*What Should These Changes Look Like?*

It is not immediately clear, however, how to most effectively expand and emphasize information about the survivor benefit provisions within the Statement. Provisions like the “widow(er)’s limit” are complex and there is a clear tension between the need to provide workers with relevant and complete benefit information and the need to avoid overwhelming them with extraneous detail. Indeed, research shows that additional information improves the quality of decision-making up to a certain point, beyond which additional information is no longer absorbed or integrated, but, rather, contributes to a heightened sense of being overwhelmed, confused, or stressed (Eppler and Mengis, 2004). Once the available information exceeds an individual’s processing capacity, its marginal effect on their decision-making process is no longer positive and may even be negative.

Adding to the difficulty of striking the balance between sufficient and excess benefit information is the fact that a substantial share of the American population cannot perform basic economic calculations and lacks an understanding of simple financial concepts (Lusardi and Mitchell, 2007; Lusardi, 2008; Lusardi, Mitchell, and Curto, 2009; Kimball and Shumway, 2010). Moreover, many people are unable to correctly identify optimal financial behaviors or fully comprehend the consequences of certain financial decisions (Hilgert, Hogarth, and Beverly, 2003). On the one hand, this implies that the threshold for what some consider burdensome may be well short of even the most basic descriptions of how survivor benefits are determined. On the other hand, research on “information overload” and the most effective ways to communicate complex retirement benefit information to workers is limited (Fleishman-Mayer et al., 2013). One such study by Agnew and Szykman (2005) analyzed the effect of simplifying complex financial information about investment choices on the quality of investment decisions. In contrast with their expectations, they found that more comprehensive financial information actually improved the investment decisions of less financially sophisticated individuals.

One possible solution is for the SSA to adapt the instruments it already uses to explain the effect that the worker’s claim age has on their retirement benefit amount—through early claiming penalties and the delayed retirement credit—within the Statement to the survivor
benefit provisions. Perhaps the simplest approach is to provide estimates of the survivor benefit amount at each claim age within the benefit table. A more comprehensive and rigorous, but less personalized and more costly, approach would be to develop a special insert that describes the survivor benefit provisions in detail. The relative impact of each approach on benefit knowledge and claiming behavior is not clear, though they may depend importantly on both the amount of information provided to workers as well as on the manner in which it is presented. In essence, the relative effect of these modifications may depend on whether individuals are more sensitive to an understanding of a provision when the consequences of that provision are not immediately clear or to an understanding of the consequences of a provision when the provision itself is not clear. Such distinctions are important from a theoretical and practical standpoint to the SSA and other organizations that need to provide all of the information their constituents need to make informed decisions without providing needlessly complex information that may negatively affect their decision-making process.

_How Long Do Any Improvements Last?_

The periodic distribution of the Social Security Statement raises important practical questions about the fade-out of any effect the information in this document may have on benefit knowledge and expected claiming behavior. Over time, fewer workers will remember the benefit information they read. However, according to the online model of information processing, it is possible for any immediate effect of this information on their expected claim age to endure even while they no longer remember the information that prompted the adjustment to their expectations. In this context, the model posits that individuals will update their claiming preferences based on the new information provided to them and, once integrated, the information contributing to the adjusted claiming preference can be forgotten while the effect of that information remains. In essence, the effect of new information on an individual’s preferences is thought to be more stable than his or her recollection of the specific information that contributed to the stated preference. Political scientists have employed this model to understand the effect of campaign information on voter preferences (Gerber et al., 2011; Lodge, Steenbergen, and Brau, 1995). In this study, it is possible that the longevity of any adjustment in claiming preferences associated with a modification to the survivor benefit information within the Statement is a function of the scope and scale of that modification. It is possible, for example, that more
comprehensive information, like that provided in the insert, leads to more deliberative decision-making and therefore, more durable attachments to newly established preferences.

**Analysis**

This analysis will test whether modifications to the Social Security Statement can improve workers’ knowledge about the survivor benefit provisions and influence their expected claim ages. To do this, we developed two approaches for explaining survivor benefits to workers whose spouses can expect to receive a survivor benefit. Both approaches are consistent with those employed by the SSA to inform workers about the retirement benefit provisions. The first, the Modified Table, simply adds projected survivor benefit amounts that the worker’s spouse can expect to receive in widowhood if the worker claims at age 62, age 66, and age 70 to the benefit table in the Statement, beneath the corresponding projections of the worker’s retirement benefit amounts. The second, the Insert, is modeled after the “Thinking of Retiring” informational retirement benefit insert that the SSA sends to workers. Like this document, we provide generic information about the survivor benefit provisions along with examples that demonstrate how they function using hypothetical benefit information for married couples.

We are interested in whether these modifications can improve workers’ knowledge of the survivor benefit provisions. Because it is more comprehensive and explicit, we expect the Insert to be the more effective of the two approaches at promoting knowledge about the specific provisions of the survivor benefit due to the comprehensiveness of the information that this vehicle allows. We expect the Modified Table, by contrast, to have a smaller, more limited effect on workers’ survivor benefit knowledge because the modification simply shows workers the value of the survivor benefit available to their spouses when the worker claims their own benefit at different ages, leaving it to them to intuit that their claim age affects the amount of the benefit. It does not explain how the spouse’s own earnings history factors into the amounts displayed in the table. Specifically, we expect that workers who receive the Insert will be more likely to know the following: that their claim age has an effect on the amount of the survivor benefit their spouse can expect to receive, that their spouse will receive the largest benefit if the worker claims at age 70, and that the survivor benefit they leave to their spouse is equal to the difference between the amount of their retirement benefit and the amount of their spouse’s own retirement benefit.
We are also interested in whether these modifications to the Statement influence workers’ expected claim ages. Any such effect may also vary by modification type but, a priori, it is not obvious which modification will yield the largest increase. On the one hand, if the Insert is most effective at improving survivor benefit knowledge as expected, then it may also lead to later expected claim ages, as workers assigned to this modification may better understand the impact that their claim age has on their spouse’s monthly survivor benefit amount. On the other hand, unlike the Modified Table, it does not convey the specific survivor benefit information to the worker like the amount the worker’s spouse can expect to receive when the worker claims at a given age. Instead, workers must determine whether and how these amounts change depending on when they claim for themselves by combining the complex, depersonalized information contained within the Insert. Due to the computational complexity of this task, it is possible that the implications of expected claiming decisions for survivor benefit amounts are more effective when these calculations are performed for them and the results are displayed prominently within the benefit table. In other words, information on the practical implications of the survivor benefit provisions are easier to evaluate in the Modified Table and, therefore, this modification may be more useful to workers.

Survey

To examine these issues, we administered an experimental survey to a group of married men who have at least 5 years of covered employment.\textsuperscript{5} We informed all respondents that the survey concerned their understanding of the benefits provided through the Social Security system. Then, we randomly assigned these men to one of the following four conditions: the Default Table, the Modified Table, the Insert, and the combination of the Modified Table and the Insert. Each condition provided the respondents with benefit projections and benefit information that varied in terms of form and content depending on their treatment assignment. Using the same basic formula constructed by Brown, Kapteyn, and Mitchell (2016), we generated projections of the retirement and survivor benefit amounts that the respondents and their spouses can expect to receive, respectively, based on the earnings history of each, as reported by the

\textsuperscript{5} Covered employment refers to employment in a position that reports wage or salary information to the SSA for the purpose of determining the worker’s eligibility for Social Security benefits and the amount of those benefits.
respondent. These projections were then included in the benefit information we presented to respondents assigned to conditions viewing the Modified Table.

Respondents assigned to the control condition viewed the benefit information in the Default Table in Figure 1, which is identical in form and content to that of the Social Security Statement currently distributed by the SSA.

Respondents assigned to the Modified Table condition viewed the benefit table in Figure 2, which is identical to the Default Table except that it also details the respondent-specific estimates of the survivor benefit amount the respondent’s spouse can expect to receive if he claims at age 62, age 66, or age 70.

Those assigned to the Insert condition viewed the Default Table in Figure 1 as well as the passages in Figure 3 that explain the survivor benefit provisions but do not provide any respondent-specific projections of the survivor benefit amounts that will be available to the respondent’s spouse at each claim age.

Finally, those respondents assigned to the combination of the Modified Table and the Insert condition were exposed to both of these treatments. That is, this group of respondents viewed the benefit information in Figure 2 and Figure 3.

After viewing the information associated with their assigned experimental condition, the respondents were asked a series of questions assessing their knowledge of the survivor benefit and a question about their expected claim age. First, we asked respondents to indicate whether their claim ages can affect their spouses’ survivor benefit amount. Then, we asked those who answered this question correctly to identify the claim age that maximizes the amount of the survivor benefit. Third, we asked all respondents to assume that they are entitled to receive a retirement benefit of $1,800 and that their spouse is entitled to receive a retirement benefit of $700 based on her own work history. Using these hypothetical amounts, we asked the respondents to calculate the amount of the survivor benefit that their spouse could expect to receive from the respondent’s earnings history. Correct responses of $1,100 were coded “1” and all other responses were coded “0.” Next, we asked the respondents to indicate the age at which they expect to claim Social Security between age 62 and age 70. Finally, we asked respondents a series of questions about factors that may moderate the impact of the survivor benefit information on responses to these questions including their financial literacy, their financial time
preferences, the status of their own health as well as the health of their spouse, and their perceived likelihood that Social Security benefits will be reduced over the next 10 years.

To evaluate the duration of any initial changes in benefit knowledge or expected claiming behavior associated with the modifications, we administered a follow-up survey to those respondents who completed the initial experimental survey. At follow-up, we asked each of the survivor benefit knowledge and claiming expectation questions again, although we changed the hypothetical amounts of the retirement benefits in the question asking them to derive their spouse’s survivor benefit. Both the initial and follow-up surveys are presented in Appendix B.

Data

We administered the experimental survey to 560 married men between the ages of 30 and 61 from the RAND American Life Panel (ALP). The ALP is an Internet-based survey of 6,000 working age adults living in the U.S. The probability-based sample is representative of the U.S. population on key demographic and economic characteristics following a weighting adjustment. Several related studies also recruited participants through the ALP to examine Social Security knowledge and the claiming decision (Brown, Kapteyn, and Mitchell, 2016; Brown, Kapteyn, Mitchell, and Mattox, 2013; Greenwald et al., 2010). The survey was administered by the RAND Corporation between July 28th and September 9th. A follow-up survey was administered between October 13th and December 2nd. Of the 560 men who completed the initial survey, 531 completed the follow-up survey for a response rate of 94.8 percent. The 531 men who completed both surveys comprise the estimation sample of this study. We found no evidence of differential attrition across the experimental conditions at follow-up (see Table 1A and Table 2A in Appendix A). We merged our survey data with the respondents’ socioeconomic and demographic data available for all ALP respondents from RAND.

We restricted the sample to married, working age men because they are more likely to leave a survivor benefit to their spouse in the event of their death due to the fact that they tend to have higher lifetime earnings compared to their spouse (Munnell and Sass, 2008). As noted, 97 percent of all current survivor benefit recipients are female (Social Security Administration, 2016b). As a result, the husband’s claim age is more likely to have implications for his wife’s financial security in widowhood than the converse. Finally, we focus on heterosexual couples
because the SSA had not begun to recognize survivor benefit claims from same-sex marriages until after we administered the initial survey.

**Descriptive Statistics**

Table 1 displays the mean values of the variables included in this analysis for the men assigned to each condition in the initial and the follow-up surveys. The table indicates the statistically significant differences between the means of the treatment groups and the control group. A few notable differences emerged across the experimental conditions in this analysis which underscores the fact that randomization provides the expectation, but not the guarantee, of equivalence across the experimental conditions. However, each of the statistically significant differences do not appear to be meaningfully large. Most notably, there is a significant difference \( p < 0.05 \) between the average Survivor Benefit Amount of those assigned to the combination of the Modified Table and the Insert condition and those assigned to the Control group. Fewer respondents assigned to the Modified Table condition report having finished college compared to those in the Control condition. This difference was also significant at the 0.05 level. Other differences were detected at the 0.10 level between the Primary Insurance Amounts of those assigned to the Control condition and those assigned to the Modified Table and the combination of the Modified Table and the Insert conditions. Another such difference exists between the proportion of those who report being neither likely nor unlikely to outlive their spouse between those assigned to the Control condition and those assigned to the Insert and the combination of the Modified Table and the Insert conditions. Finally, the share of Hispanic respondents is lower among the Modified Table condition relative to the Control condition.

**Results**

Regression results estimating the effects of the various modifications to the Social Security Statement on knowledge about the survivor benefit provisions and expected claim ages are displayed in Table 2 and in Table 3.

*Worker’s Claim Age affects Spouse’s Survivor Benefit Amount*

Columns 1 through 4 of Table 2 report the effect of these modifications on whether the respondent understands that the age at which a worker claims his own retirement benefit can
affect the amount of the survivor benefit his spouse can expect to receive. Although the amount of the survivor benefit in the Modified Table varied according to the possible claim age of the respondent, individuals in this treatment condition were no more likely to report that a worker’s claim age has an effect on this amount than those in the control group. That is, presenting respondents in this group with the corollary implications of this provision does not improve their understanding of the provision itself. Detectable differences were not present between these two groups even after limiting the estimation sample to include only those workers who are projected to bequeath a benefit to their spouse and, therefore, had nonzero amounts in this portion of the Modified Table.⁶

The Insert, by contrast, had a large and statistically significant effect on the likelihood that a respondent correctly reported that a worker’s own claim age affects the amount of their spouse’s survivor benefit. The likelihood that respondents assigned to this condition understood this provision was 14 percentage points (p < 0.05) higher than it was for those in the control group (column 1), a change that amounts to a 22 percent increase in the baseline likelihood. The magnitude of this effect is only slightly attenuated once control variables were added to the models (column 2). This improvement suggests that, in general, respondents assigned to the Insert were not overwhelmed by the information about this provision provided through this comprehensive approach.

A comparable improvement was evident among respondents assigned to receive both the Modified Table and the Insert. The similarity of the point estimates across the two groups exposed to the Insert is evidence against a possible additive or multiplicative effect when the two modifications are combined. It also suggests that the Insert alone is responsible for the observed increase in the knowledge of this particular provision within this group.

The results in columns 3 and 4 of Table 2 indicate that any initial effects of the modifications were temporary. At follow-up, the group receiving the Insert was 10.7 percentage points more likely to correctly indicate that a worker’s claim age can affect the amount of the survivor benefit the worker’s spouse can expect to receive, but this difference was only significant at the 0.10 level. The increase evident among those receiving both the Modified Table and the Insert was no longer significant at any conventional level. This result is surprising given that the average time to follow-up was just 77 days and the fact that this particular

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⁶ Results available upon request.
provision is so similar to the widely understood provision linking workers’ claim ages to their retirement benefit amount.

Worker’s Claim Age that Maximizes His Spouse’s Survivor Benefit Amount

Columns 5 through 8 of Table 2 report the effects of these modifications on whether the respondent correctly identified the survivor benefit maximization age as 70. Those assigned to receive the Modified Table were 11 percentage points (p < 0.05) more likely than those in the control group to correctly identify the survivor benefit maximization age (column 5). This result is hard to reconcile with the evidence that respondents in this group were no more likely to report that their claim age can affect the survivor benefit amount their spouse can expect to receive in columns 1 through 4. Taken together, these results imply that respondents exposed to only the Modified Table gained knowledge, but not an understanding, of the survivor benefit provisions.

A larger effect size is evident for the other two treatment conditions. Respondents assigned to receive the Insert were 21 percentage points more likely to correctly identify the survivor benefit maximization age than those in the control group, with the difference growing to 23 percentage points for those who received both the Modified Table and the Insert. Each of these differences were significant at the 0.01 level. The results from unreported Wald tests found significant differences between the estimated effect of the Modified Table and the other two modification conditions but did not detect significant differences between the effects of the Insert and the Modified Table plus the Insert conditions.

Similar to the follow-up survey results for the first outcome, columns 7 and 8 indicate that these effects were not sustained over time. Surprisingly, those assigned to the Insert condition were 9 percentage points less likely than those in the control group to correctly identify the survivor benefit maximization age at follow-up (column 8). However, this difference was only significant at the 0.10 level. The effects of the other two treatment conditions were no longer significant at any conventional level.

Survivor Benefit Estimate for Hypothetical Couple

Only a very small share of the control group (8.7 percent) was able to correctly estimate the amount of the survivor benefit they would leave to their spouse given a hypothetical combination of retirement benefit amounts that each spouse is projected to receive based on their
own work history. This suggests that most workers are either uniformed or misinformed about this particular provision. Surprisingly, exposure to the Modified Table alone appeared to add to this confusion. Exposure to the Modified Table reduced the likelihood that respondents correctly estimated this amount by 7.9 percentage points \( (p < 0.05) \) relative to those in the control condition. By contrast, the Insert was highly successful at improving the knowledge of how survivor benefit amounts are determined. The likelihood that respondents were able to correctly calculate the survivor benefit amount the lower-earning spouse was entitled to receive increased by 20 percentage points \( (p < 0.05) \). A nearly identical increase in this likelihood was evident among respondents viewing both the Modified Table and the Insert.

At follow-up, respondents were presented with a similar scenario, but with slightly different hypothetical retirement benefit amounts promised to each spouse. The lone sustained effect was evident among those respondents exposed to the Insert only. By this time, individuals in the Insert group were 7.1 percentage points \( (p <0.05) \) more likely than those in the control group to correctly calculate the survivor benefit amount the lower-earning spouse could expect to receive. While still considerable, this difference represents a substantial fade-out of the initial effect.

**Expected Claim Age**

The remaining and most important question is whether the modifications to the survivor benefit information in the Statement influenced expected claim ages. We analyzed this relationship among the full sample of respondents (columns 1-6) and among the subsample who were projected to bequeath a survivor benefit to their spouse (columns 7-12) and, therefore, were more likely to be sensitive to the information about this benefit in the Modified Table and the Insert. The estimated effects of the modification for the full and restricted estimation samples are presented in Table 3. The results provide strong evidence that viewing the Modified Table increased expected claim ages relative to the control group.

Among the full sample, viewing the Modified Table increased the expected claim age by 0.68 years but this relationship was only significant at the 0.10 level. Once controls were added to the model (column 3), the expected increase in the claim age for this group rose to 0.76 years, a change that is statistically significant at the 0.05 level. The most important reason for the change in the statistical significance of this estimated effect is the addition of variables indicating
the employment status of respondents to the regression model in column 2. Specifically, retired respondents were much more likely to report earlier expected claim ages, regardless of their treatment assignment. Once we adjusted for employment status and retirement in particular, the effect of the Modified Table on expected claim ages became statistically significant. This pattern is evident across treatment conditions and the analytic samples in Table 3. Not surprisingly, the immediate effect of the Modified Table on expected claim ages were larger and more robust among those respondents projected to leave a survivor benefit behind to their spouse. The results in column 9 indicate that exposure to the Modified Table increased expected claim ages by one year ($p < 0.05$). However, the effect of the Modified Table on expected claim ages was not sustained over time. At follow-up, there were no differences in the expected claim age of this group compared to the control group.

The immediate effect of the Insert on expected claim ages was limited to the subgroup of respondents projected to bequeath a survivor benefit to their spouse based on their relative earnings histories (columns 7-9). However, the effect was not significantly different from zero at the 0.05 level until we adjusted for employment status. This modification increased expected claim ages by roughly 0.82 years ($p < 0.05$) in the models in columns 8 and 9. Here again, the effects of this modification to the Statement were short-lived. There were no significant differences in the expected claim ages between this group and the control at follow-up.

Finally, the magnitude of the effects of exposure to both the Modified Table and the Insert on expected claim ages are largely consistent with those of the other two treatment groups. This is evidence against the possibility of an additive or multiplicative effect of the combined modifications. Among the full sample, respondents in this group reported claim ages that were roughly 0.80 years later than those in the control group immediately following their exposure to these modifications (columns 1-3). This effect was statistically significant at the 0.05 level. Among the subgroup of respondents with higher earnings relative to their spouse (columns 7-9), the magnitude of the increase in expected claim ages increased slightly. These individuals reported expected claim ages that were roughly one year later than those in the control condition ($p < 0.05$). Consistent with the other treatments groups, these differences were no longer evident at follow-up.
Discussion

There are four major findings from this study. The first is that the baseline level of knowledge about the survivor benefit provisions may be lower than expected. Only 65 percent of the men assigned to the control condition understand that their own claim age may affect their spouse’s survivor benefit amount. In other nationally representative surveys, around 80 percent of respondents appear to understand this provision (Brown and Perron, 2011; Perron, 2015).

There are several possible explanations for this discrepancy. Most importantly, unlike the other studies, the estimation sample in this study is comprised entirely of men who are not representative of the broader population. However, most of the men in this study have at least a college degree, which, ostensibly, makes the relatively low level of knowledge about this basic survivor benefit provision among the respondents in this study more surprising. It is also possible that women are much more familiar with survivor benefit provisions because they are almost always the exclusive recipients of this benefit (Social Security Administration, 2016b). However, evidence from Brown and Perron (2011) suggest that excluding women from the sample is not responsible for the low level of knowledge, as they found women to be less knowledgeable than men about survivor benefit provisions.

The relatively lower level of survivor benefit knowledge evident among respondents in this study may also be due, in part, to the fact that this study focuses on this particular benefit in isolation. Other studies that assess respondent knowledge of survivor benefit provisions also assess their knowledge across all or several of the benefits Social Security provides. This distinction is important from the standpoint of possible anchoring effects that may result from the ordering of the survey questions in the more comprehensive surveys. For example, of the survey instruments we could access, without exception, questions about the survivor benefit followed those about the retirement benefit (Brown and Perron, 2011; Leibman and Luttmer, 2012; Perron, 2015). When asked, respondents in these surveys overwhelmingly understand that their claim age affects their retirement benefit amount. As a result, they may respond similarly to subsequent, similarly worded, questions about their claim age and the survivor benefit amount even if they are less certain that the two are related. Anchoring effects related to ordering of questions within a survey can occur when respondents are uncertain about their responses but they are able to draw from their responses to preceding questions in the survey. This survey design issue is well established and is a basic concept covered in survey design textbooks.
(Dillman, Smyth, and Christian, 2009). Thus, the lower level of survivor benefit knowledge evident in this study may be due, in part, to the lack of such anchoring, as this study did not ask respondents any questions about the effect of their claim age on their retirement benefit.

Second, when information is provided to workers about the impact of their claiming decision on the amount of the survivor benefit their spouse may receive, they appear to integrate this fact into the mix of considerations that determine when they expect to claim. This provides additional evidence in support of the conclusion drawn by Sass, Sun, and Webb (2007) that married men claim early out of ignorance rather than caddishness. It is possible that the information provided to the men in this study fostered a sense of responsibility that they have to financially indemnify their spouses for the reduction in income that would accompany their death. It is possible that men would give additional weight to the survivor benefit information when evaluating their claiming decision if it were combined with information on the financial hardship typically associated with widowhood, as well as information on how dependent widows become on this particular source of income to maintain a level of income above the amount minimally necessary to meet their needs (Diebold, Moulton, and Scott, 2016).

Third, the Insert was the dominant modification for improving survivor benefit knowledge. In the immediate term, however, the Modified Table was equally successful as the Insert at encouraging workers to report later expected claim ages. Thus, from the standpoint of encouraging socially optimal claiming decisions, it does not appear necessary to promote a deep understanding of survivor benefits provisions among workers but, rather, it appears sufficient merely to ensure that they are aware of the ramifications of their decision for the projected amounts their spouse will receive. Respondents were not, however, able to intuit the survivor benefit provisions from the information in the Modified Table. It appears necessary to explain these provisions directly in order for respondents to be aware that they exist. In addition, the observed improvement in survivor benefit knowledge among those exposed to the Insert provides evidence against the concern that respondents may not be able to process the detailed information within this particular modification or feel overwhelmed by it. This last finding is consistent with those from Agnew and Szykman (2005) and is of practical import to the SSA as they continue to modify their approach to informing workers about their benefits in the Statement and online through their website.
Finally, almost all of the observed effects of the modifications to the Statement on survivor benefit knowledge and the expected claiming behaviors of workers in this study were temporary. These results are not consistent with the online model of information processing and suggest that improving knowledge and claiming behavior may require more sustained access to the benefit information than is currently available to workers. Very little attention has been given to the fade-out as it relates to the impact of the Statement. This is an important oversight given the SSA’s periodic, and frequently amended, distribution schedule of this document. The apparent inability of workers to retain benefit information, even over short intervals, has important practical implications for the SSA policy to provide continuous and instantaneous online access to their electronic earnings histories and projected benefit amounts to only those workers who agree to no longer receive a paper Statement. Workers may benefit most if the SSA supplied online and paper records as complements as opposed to substitutes. Indeed, online records obviate the need for workers to retain information within the Statement or the Statement itself, while the paper copy can function as an occasional automated nudge to workers to review their records and assess their projected benefits.

Conclusion

The Social Security Statement is one of the most important financial documents retiring workers receive as they contemplate when to claim their benefits. However, the connection between the primary earner’s claim age and the survivor benefit amount his spouse can expect to receive in the event of his death is not clearly communicated in this document. The omission of this information may result in some workers making suboptimal claiming decisions because they are less than fully informed about the negative consequences of that decision for the financial security of their lower-earning spouses in widowhood. In this study, we used an experimental survey design to examine the effects of slight modifications to the Social Security Statement on respondent survivor benefit knowledge and expected claiming behavior. The results indicate a low level of baseline knowledge regarding the relationship between the primary earner’s claim age and their spouse’s survivor benefit amount among workers. However, when this relationship is highlighted in the Statement, workers’ knowledge improves and they report that they are more likely to delay their expected claim age. While the modifications tested here provide evidence that the Statement can be an effective medium for communicating survivor benefit provision
information, workers did not appear to retain the information, with most of the initial effects having either disappeared or faded substantially at follow-up. Both the relative strength of the initial effect of the Insert and the fade out of those effects have important policy implications for whether and how the SSA should inform workers about these provisions as well as for the restrictive conditions under which they will provide workers with immediate and permanent access to their benefit information online.

Several limitations of this study should be noted. First, the generalizability of the results is limited due to the sampling frame and the self-selection of ALP panel members into the study. In order to focus our analysis on those who are most likely to leave a survivor benefit to their spouse, we restricted the sample to working-age, married, heterosexual men. Due to this restriction, we ignore the possibility that male primary earners would respond differently than female primary earners to the modifications analyzed in this study. This is potentially important as the male breadwinner model is gradually being replaced with dual-earner households in which women receive Social Security benefits based, at least in part, on their own earnings history (Tamborini and Whitman, 2007). The same is true of primary earners in same-sex marriages, who are now entitled to receive benefits based on their spouse’s earnings record. Also, the relatively high levels of educational attainment of the respondents in the sample means that this study is too under-powered to detect any differential effects of the augmented survivor benefit information by socioeconomic circumstances.

Second, a worker’s claiming decision is likely the result of a more complicated process than was allowed for in this experiment. Our study assumes, for example, that married workers evaluate their benefit information and make a decision about when to claim independently, without input from their spouse. While the occurrence, scope, and scale of such deliberations will vary by household, given the financial implications of this decision for each spouse, the assumption that married workers make this decision unilaterally is somewhat tenuous. The information provided in these modifications may inform such deliberations or even increase the likelihood that they occur in ways not captured in this experiment. For example, it is possible that households would give greater weight to the survivor benefit provisions when both spouses understand them, particularly when there is a wider disparity in income or expected longevity between spouses. Unfortunately, our study cannot speak to these possibilities.
Policymakers and retirement researchers might want to consider a continued focus on the effect of the content and format of the Statement on benefit knowledge and claiming behavior. It is important that the document provide complete and clear information in order to avoid influencing retirement and claiming decisions in unintended ways (Social Security Advisory Board, 2009). One critical unanswered question related to this study concerns the effects of inexact descriptions of the retirement benefit provisions appearing in the Statement. For example, in the benefit table, workers are told the amounts they can expect to receive if they “continue working” until age 62, their full retirement age, and age 70. However, monthly retirement benefit amounts are not a function of when they retire or exit the labor force. Instead, this table could describe these amounts as what they can expect to receive if they “claim” or “start receiving benefits” at these ages. The conflation of these two related, but not interchangeable decisions, within the Statement may unintentionally encourage suboptimal early claiming as well as early retirement. As long as the Statement remains the preferred resource that workers use to become informed about what is, for most, their most valuable financial asset, the document could be modified in ways that may improve workers’ understanding of their benefits and their financial planning for retirement.
References


### Tables and Figures

**Table 1. Descriptive Statistics by Treatment Assignment**

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<td>2065*</td>
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Notes: ***, **, and * indicate statistically significant at the 1, 5, 10 percent levels between the treatment and control group. The questions used to generate these variables are located in Appendix B.
Table 2. Regression Results for Analysis Correct Responses Regarding the Survivor Benefit

<table>
<thead>
<tr>
<th></th>
<th>Worker's Claim Age affects Survivor Benefit Amount</th>
<th>Worker's Claim Age that Maximizes Spouse's Survivor Benefit</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Initial Survey (1)</td>
<td>Follow-Up (2)</td>
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<td>.118**</td>
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</table>

Notes: ***, **, and * indicate statistically significant at the 1, 5, 10 percent levels between the treatment and control group. Control variables include the respondents' primary insurance amount, the survivor benefit amount the respondent is expected to bequeath to his spouse, age, employment status, race, education, financial literacy, financial time preferences, their health, their spouse's health, and their reported probability that Social Security benefits will be reduced in the next 10 years. Each dichotomous dependent variable indicates whether the respondent answered the corresponding questions about the survivor benefit correctly. OLS was used to assess the likelihood of correct responses across the treatment and control conditions. The resulting coefficients express differences between the respective treatment group and the control group in terms of percentages points. We used robust standard errors to correct for the heteroscedasticity inherent in linear probability models.
Table 2. Continued

<table>
<thead>
<tr>
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<th>Survivor Benefit Estimate for Hypothetical Couple</th>
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Notes: ***, **, and * indicate statistically significant at the 1, 5, 10 percent levels between the treatment and control group. Control variables include the respondents' primary insurance amount, the survivor benefit amount the respondent is expected to bequeath to his spouse, age, employment status, race, education, financial literacy, financial time preferences, their health, their spouse's health, and their reported probability that Social Security benefits will be reduced in the next 10 years. Each dichotomous dependent variable indicates whether the respondent answered the corresponding questions about the survivor benefit correctly. OLS was used to assess the likelihood of correct responses across the treatment and control conditions. The resulting coefficients express differences between the respective treatment group and the control group in terms of percentages points. We used robust standard errors to correct for the heteroscedasticity inherent in linear probability models.
Table 3. Expected Claim Age by Treatment Assignment for Respondents Whose Spouses May Receive a Survivor Benefit

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<tr>
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<td>.858**</td>
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<td>(.342)</td>
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<tr>
<td>Retired</td>
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<tr>
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<td>5.096***</td>
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<td>(.267)</td>
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</table>

Notes: ***, **, and * indicate statistically significant at the 1, 5, 10 percent levels between the treatment and control group. Control variables include the respondents' primary insurance amount, the survivor benefit amount the respondent is expected to bequeath to his spouse, age, employment status, race, education, financial literacy, financial time preferences, their health, their spouse's health, and their reported probability that Social Security benefits will be reduced in the next 10 years. The dependent variable is a continuous measure of expected claim ages ranging from age 62 to age 70. OLS was used to model this outcome, so the reported coefficients represent differences in the average claim age of the respective treatment group and the control group. The effect of the modifications is likely limited to those respondents who are the primary earners and, therefore, are projected to bequeath a survivor benefit to their spouse, so the table reports the results from the whole sample (columns 1-6) as well as from this subgroup (columns 7-12).
Table 3. Continued

<table>
<thead>
<tr>
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<th>Respondents Projected to Bequeath a Survivor Benefit</th>
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<td></td>
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<td>.881**</td>
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Notes: ***, **, and * indicate statistically significant at the 1, 5, 10 percent levels between the treatment and control group. Control variables include the respondents' primary insurance amount, the survivor benefit amount the respondent is expected to bequeath to his spouse, age, employment status, race, education, financial literacy, financial time preferences, their health, their spouse's health, and their reported probability that Social Security benefits will be reduced in the next 10 years. The dependent variable is a continuous measure of expected claim ages ranging from age 62 to age 70. OLS was used to model this outcome, so the reported coefficients represent differences in the average claim age of the respective treatment group and the control group. The effect of the modifications is likely limited to those respondents who are the primary earners and, therefore, are projected to bequeath a survivor benefit to their spouse, so the table reports the results from the whole sample (columns 1-6) as well as from this subgroup (columns 7-12).
### Figure 1. Default Table

**Your Estimated Benefits**

- **Retirement**: You have earned enough credits to qualify for benefits. At your current earnings rate. If you claim your Social Security retirement benefit at age 62, your payment would be about $975 a month. Age 67, your payment would be about $1,152 a month. Age 70, your payment would be about $1,237 a month.

- **Disability**: You have earned enough credits to qualify for benefits. If you became disabled right now, your payment would be about $1,527 a month.

- **Family**: If you get retirement or disability benefits, your spouse and children also may qualify for benefits.

- **Survivors**: You have earned enough credits for your family to receive survivors benefits. If you die this year, certain members of your family may qualify for the following benefits:
  - Your child: $1,176 a month
  - Your spouse who is caring for your child: $1,176 a month
  - Your spouse: if benefits start at full retirement age: $1,527 a month

---

### Figure 2. Modified Table

**Your Estimated Benefits**

- **Retirement**: You have earned enough credits to qualify for benefits. At your current earnings rate. If you claim your Social Security retirement benefit at age 62, your payment would be about $975 a month. Age 67, your payment would be about $1,152 a month. Age 70, your payment would be about $1,237 a month.

- **Survivor**: The amount of your spouse’s survivor benefit will depend on your age when you claim your Social Security retirement benefit. If you claim at age 62, your spouse’s payment would be about $575 a month. Age 67, your spouse’s payment would be about $675 a month. Age 70, your spouse’s payment would be about $775 a month.

- **Family**: If you get retirement or disability benefits, your spouse and children also may qualify for benefits.
  - Your child: $1,176 a month
  - Your spouse who is caring for your child: $1,176 a month

- **Disability**: You have earned enough credits to qualify for benefits. If you became disabled right now, your payment would be about $1,237 a month.
Figure 3. Insert

If you are married and die before your spouse, he or she may be eligible for a “survivor” benefit from Social Security based on your work record. The amount of the survivor benefit that you leave to your surviving spouse will depend on two factors: (1) your spouse’s own work record and (2) your age when you start receiving your retirement benefit (i.e., your “claim age”).

The following examples illustrate how those factors affect the amount your spouse receives from Social Security based on your work record in the event of your death.

(1) Your Spouse’s Work Record Your spouse is eligible to receive a survivor benefit that is equal to the full amount of your retirement benefit, less the amount of any retirement benefit your spouse received based on his or her own work record. To see how your spouse’s work record affects the amount of the survivor benefit he or she will receive, consider the following hypothetical examples:

Hypothetical 1: You are entitled to receive a retirement benefit of $1,600 per month. Your spouse is not entitled to receive a retirement benefit based on his or her own work record.
- Your surviving spouse will receive $1,600 each month from Social Security. The survivor benefit based on your work history will account for $1,600 of this amount.

Hypothetical 2: You are entitled to receive a retirement benefit of $1,600 per month. Your spouse is entitled to a retirement benefit of $600 based on his or her own work record.
- Your surviving spouse will receive $1,600 each month from Social Security. The survivor benefit based on your work history will account for $1,000 of this amount.

(2) Your Claim Age Your spouse’s survivor benefit is reduced for each month that you start receiving benefits before age 70. Thus, the earlier you claim your retirement benefit, the smaller your spouse’s survivor benefit will be. If you claim at age 62 instead of at age 70, you can reduce the amount that your surviving spouse can expect to receive by as much as 37.5 percent. The following hypothetical examples illustrate how your claim age can affect the amount of the survivor benefit your spouse is eligible to receive.

Hypothetical 3: You are entitled to receive a retirement benefit of $1,600 per month at age 66. Your spouse is not entitled to receive a retirement benefit based on his or her own work record.
- If you claim at age 62, your surviving spouse will receive $1,320 each month from Social Security. The survivor benefit based on your work history will account for $1,320 of this amount.
- If you claim at age 66, your surviving spouse will receive $1,600 each month from Social Security. The survivor benefit based on your work history will account for $1,600 of this amount.
- If you claim at age 70, your surviving spouse will receive $2,110 each month from Social Security. The survivor benefit based on your work history will account for $2,110 of this amount.

Hypothetical 4: You are entitled to receive a retirement benefit of $1,600 per month at age 66. Your spouse is entitled to a retirement benefit of $600 based on his or her own work record.
- If you claim at age 62, your surviving spouse will receive $1,320 each month from Social Security. The survivor benefit based on your work history will account for $720 of this amount.
- If you claim at age 66, your surviving spouse will receive $1,600 each month from Social Security. The survivor benefit based on your work history will account for $1,000 of this amount.
- If you claim at age 70, your surviving spouse will receive $2,110 each month from Social Security. The survivor benefit based on your work history will account for $1,510 of this amount.
Appendix A

Table 1A. Test for Differential Attrition from Initial Survey to Follow-Up across Experimental Conditions

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</table>

Notes: ***, **, and * indicate statistically significant at the 1, 5, 10 percent levels between the treatment and control group. The dependent variable is a dichotomous variable coded "1" if the respondent completed both the initial and the follow-up survey and coded "0" if the respondent completed the initial survey, but not the follow-up survey. All models are estimated using robust standard errors.

The results from Table 1A indicate that the likelihood of respondents completing both interviews does not significantly differ between the treatment and control conditions. The results from Table 2A indicate that there are also no significant differences in these likelihoods between the treatment groups. The coefficients from the regression model in Table 1A were used to derive the p-values from the Wald Tests for equality of coefficients in Table 2A.

Table 2A. Wald Tests for Equality of Coefficients

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<th>P-Value</th>
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<tr>
<td>( \beta(\text{Modified Table}) = \beta(\text{Insert}) )</td>
<td>0.75</td>
</tr>
<tr>
<td>( \beta(\text{Modified Table}) = \beta(\text{Modified Table + Insert}) )</td>
<td>0.17</td>
</tr>
<tr>
<td>( \beta(\text{Insert}) = \beta(\text{Modified Table + Insert}) )</td>
<td>0.28</td>
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</tbody>
</table>

Notes: ***, **, and * indicate statistically significant at the 1, 5, 10 percent levels. The values in the table are the p-values generated from Wald Tests for equality of the coefficients from Table 1A. Significant differences would indicate differences in the likelihood of respondents completing the follow-up survey by group.
Appendix B

Figure 2A. Initial Survey Instrument

**Well Being 443**

IF xrandom = empty THEN

ENDIF

**introduction**

We are interested in understanding people's beliefs about Social Security benefits including how much they expect to receive and what factors might influence the amount they receive. We are also interested in understanding people's beliefs about survivor benefits that widowed spouses can expect to receive based on the deceased spouse's work history. This study will help create clearer and easier-to-understand materials about the Social Security program. In this survey, some questions may be hard to answer exactly. Please take time to consider the questions and give us your best guess even if you do not know the exact answer. Having even your best guess will be very helpful to us. Thank you very much for your help.

**WORK_FOR_PAY**

Have you worked for pay for more than 5 years?
1 Yes
2 No

**SS_STATUS**

In this survey, the term "Social Security benefits" includes any benefits that you yourself receive or will receive from the Social Security program, including retiree, disability, spouse, or survivor benefits. Which of the following statements best describes you?
1 I receive Social Security benefits now.
2 I don't receive Social Security benefits now but, under current law, I will be eligible to receive them in the future.
3 I will never be eligible under current law to receive Social Security benefits.

IF WORK_FOR_PAY = No and SS_STATUS = I don't receive Social Security benefits now but, under current law, I will be eligible to receive them in the future.

THEN

| notlongenoughwork
| You have not worked long enough for us to estimate the amount of the retirement benefit you can expect to receive from Social Security. The typical Social Security retirement benefit is $1,488 per month. For the purpose of this survey, let's assume that you will receive a Social Security retirement
benefit of this amount.

ENDIF

IF SS_STATUS != I receive Social Security benefits now. THEN
  IF SS_STATUS = I will never be eligible under current law to receive Social Security benefits. THEN
    [The following questions are displayed as a table]
    
    SS_ELIG  social security eligibility
    Why do you think you will never be eligible to receive Social Security benefits?
    1 My main job was/is not covered by Social Security.
    2 I don't have or will not have a sufficient work history to become eligible for Social Security benefits.
    3 I do not think Social Security will be around by the time I would start claiming benefits.
    4 Other (please specify): $Answer2$

    SS_ELIG_other  social security eligibility other
    String
    [End of table display]
    IF SS_ELIG = I do not think Social Security will be around by the time I would start claiming benefits. THEN
      IF WORK_FOR_PAY = No THEN
      ELSE
        ENDIF
        Q5  assume ss will be around
        Please assume for the remainder of the survey that Social Security will be around when you start claiming benefits. [fill for Q5]
      ELSE
        Q4  not eligible but assume you are
        Even though we understand that you are not eligible to receive a Social Security retirement benefit, we would like to ask you to complete this survey assuming you would be eligible. In other words, please answer in this survey what you would have done or chosen if you would be eligible
for a Social Security retirement benefit. The typical Social Security retirement benefit is $1,488 per month. For the purpose of this survey, let's assume that you will receive a Social Security retirement benefit of this amount.

| Questions IN002 to birthyear are displayed as a table |

**IN002** BIRTH DATE HEADER
What is your birth date?

**birthmonth** BIRTH MONTH
Month
1 January
2 February
3 March
4 April
5 May
6 June
7 July
8 August
9 September
10 October
11 November
12 December

**birthday** BIRTH DAY
Day
1 01
2 02
3 03
4 04
5 05
6 06
7 07
8 08
9 09
10 10
11 11
12 12
13 13
14 14
15 15
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IF birthyear >= 1944 and birthyear <= 1954 THEN
ELSEIF birthyear = 1955 THEN
ELSEIF birthyear = 1956 THEN
ELSEIF birthyear = 1957 THEN
ELSEIF birthyear = 1958 THEN
ELSEIF birthyear = 1959 THEN
ELSEIF birthyear >= 1960 and birthyear <= 1993 THEN
ENDIF

**highesteducation** HIGHEST EDUCATION
What is the highest level of school you have completed or the highest degree you have received?
1 Less than 1st grade
2 1st, 2nd, 3rd, or 4th grade
3 5th or 6th grade
4 7th or 8th grade
5 9th grade
6 10th grade
7 11th grade
8 12th grade NO DIPLOMA
9 HIGH SCHOOL GRADUATE high school DIPLOMA or the equivalent (For example: GED)
10 Some college but no degree
11 Associate degree in college Occupational/vocational program
12 Associate degree in college Academic program
13 Bachelor's degree (For example: BA,AB,BS)
14 Master's degree (For example: MA,MS,MEng,MEd,MSW,MBA)
15 Professional School Degree (For example: MD,DDS,DVM,LLB,JD)
16 Doctorate degree (For example: PhD,EdD)

IF highereducation <= 12th grade NO DIPLOMA THEN
ELSEIF highereducation = HIGH SCHOOL GRADUATE high school DIPLOMA or
| the equivalent (For example: GED) THEN
ELSEIF highereducation >= Some college but no degree and
| highereducation <= Associate degree in college Academic program THEN
ELSEIF highereducation = Bachelor's degree (For example: BA,AB,BS) THEN
ELSE
ENDIF

IF EDUCATION = Less than high school (< 12 years) THEN
ELSEIF EDUCATION = High school degree (12 years) THEN
ELSEIF EDUCATION = Some college (>12 and < 16 years) THEN
ELSEIF EDUCATION = College degree (16 years) THEN
ELSE
ENDIF

INTRODUCTON_TO_SECTION_1 introduction to section 1
We are interested in understanding how and when people would like to receive
their Social Security benefits. In this survey, we sometimes ask questions
that are difficult to answer exactly. Please take time to consider the
questions and give us your best guess even if you do not know the exact
answer. Having your best guess will be very helpful to us. Thank you very
much for your participation!

IF !( ( SS_STATUS = I will never be eligible under current law to receive
| Social Security benefits. and ( SS_ELIG = My main job was/is not covered
| by Social Security. or SS_ELIG = I don't have or will not have a sufficient
In what year did you first start to work for pay?

1900 1900
1901 1901
1902 1902
1903 1903
1904 1904
1905 1905
1906 1906
1907 1907
1908 1908
1909 1909
1910 1910
1911 1911
1912 1912
1913 1913
1914 1914
1915 1915
1916 1916
1917 1917
1918 1918
1919 1919
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1921 1921
1922 1922
1923 1923
1924 1924
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1926 1926
1927 1927
1928 1928
1929 1929
1930 1930
1931 1931
1932 1932
1933 1933
1934 1934
1935 1935
1936 1936
1937 1937
1938 1938
1939 1939
1940 1940
workedtooearly start working before 14
You indicated that you started working before you were 14 years old. For
what follows, we will just assume that pay from age 14 on counts. If you
believe you made an error in entering the date you began working, you may
go back and change it.

ENDIF

incomeintro income intro
We would now like to ask you some more about the time period from between
when you started working for pay (in [year start work for pay]) until now.

IF incomeyearsinperiod > 40 THEN
ELSEIF incomeyearsinperiod > 30 THEN
ELSEIF incomeyearsinperiod > 20 THEN
ELSEIF incomeyearsinperiod > 10 THEN
ENDIF
LOOP FROM 1 TO [number of question income cat] DO
IF incomecnt2 = 1 THEN
ELSE
ENDIF
IF incomecnt2 = incomenumberofq THEN
ELSE
ENDIF
ENDDO
LOOP FROM 1 TO [number of question income cat] DO

income not work
[income cat start year fill] - [income cat end year fill] Was there ever a time when you did not work in the [income cat start year fill] - [income cat end year fill] period?
1 Yes
2 No
IF incomenotworkq{null} = Yes THEN

income not work months
[income cat start year fill] - [income cat end year fill] How many months in total do you estimate not working for pay in the [income cat start year fill] - [income cat end year fill] period? Range: 0..96
ENDIF
IF !( FLIncomeCat1{null} = and FLIncomeCat2{null} = and FLIncomeCat3{null} = and FLIncomeCat4{null} = ) THEN
**incomecat** income categories

[income cat start year fill] - [income cat end year fill] Could you please give us an estimate of how much were you making on average per year in the [income cat start year fill] - [income cat end year fill] period? [fill for income cat question]

1 more than $[income cat fill amount 1]
2 between $[income cat fill amount 2] and $[income cat fill amount 1]
3 between $[income cat fill amount 3] and $[income cat fill amount 2]
4 between $[income cat fill amount 4] and $[income cat fill amount 3]
5 less than $[income cat fill amount 4]

ENDIF

LOOP FROM [income cat start year fill] TO [income cat end year fill] DO

IF ( incomenotworkq{null} = Yes ) THEN

IF ( cnt2 = incomecatstartyear{null} AND incomenotworkhowlong{null} < 12 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} AND incomenotworkhowlong{null} >= 12 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} + 1 AND incomenotworkhowlong{null} >= 24 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} + 2 AND incomenotworkhowlong{null} >= 36 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} + 3 AND incomenotworkhowlong{null} >= 48 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} + 4 AND incomenotworkhowlong{null} >= 60 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} + 5 AND incomenotworkhowlong{null} >= 72 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} + 6 AND incomenotworkhowlong{null} >= 84 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} + 7 AND incomenotworkhowlong{null} >= 96 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} + 8 AND
incomenotworkhowlong{null} >= 108 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} + 9 AND
incomenotworkhowlong{null} >= 120 ) THEN

ELSEIF ( cnt2 = incomecatstartyear{null} + 10 AND
incomenotworkhowlong{null} >= 132 ) THEN

ELSE

ENDIF

ELSE

ENDIF

ENDDO

ENDDO

showpia1  show pia

String

IF showpia1_array{1} != 'unable' and showpia1_array{1} != empty THEN

ELSE

ENDIF

IF SS_STATUS = I receive Social Security benefits now. THEN

BEN_LEVEL  social security benefits level

Approximately how much are your monthly Social Security benefits? Even if you do not know exactly, please give your best guess. (As before, please report any Social Security benefits paid to you yourself (by check or direct deposit), not benefits paid to any other member in your household).

Integer

IF BEN_LEVEL > 4000 THEN

checkBEN_LEVEL4000  social security benefits level check > 4000

Due to how Social Security calculates your benefits, it is very unlikely that your monthly benefit will be this high. Please go back and change your answer to something between $0 and $4000 per month.
IF BEN_LEVEL < THEN

checkBEN_LEVEL < 0
Monthly Social Security benefits cannot be negative. Please go back and change your answer to something between $0 and $4000 per month.

ENDIF
ELSE

IF BEN_EST_CLAIMAGE != empty THEN

[The following questions are displayed as a table]

BEN_OVERRIDE estimated social security benefits
Based on the information you have provided to us about your own earnings history, we estimate that, under current Social Security Law, you are supposed to get a Social Security retirement benefit of approximately $ per month if you claim benefits at age [claiming age]. Think of any dollar amount mentioned in this survey in terms of what a dollar buys you today (because Social Security will adjust future dollar amounts for inflation). Our estimate does not take into account Social Security benefits you may receive based on the earnings of a past or current spouse. Do you think our estimate is about right?

1 Yes, I believe the Social Security benefits I am supposed to get at [claiming age] are roughly $ per month.
2 No, I believe the Social Security benefits I am supposed to get are roughly $ per month.

BEN_NEW benefits new

Integer

[End of table display]

IF BEN_NEW > 4000 THEN

checkBEN_NEW > 4000
Due to how Social Security calculates your benefits, it is very unlikely that your monthly benefit will be this high. Please go back and change your answer to something between $0 and $4000 per month.

ENDIF
IF BEN_NEW < THEN

checkBEN_NEW0 benefits new check < 0
Monthly Social Security benefits cannot be negative. Please go back and change your answer to something between $0 and $4000 per month.

ENDIF

IF BEN_OVERRIDE = No, I believe the Social Security benefits I am supposed to get are roughly $$Answer2$$ per month. and BEN_NEW = empty THEN

checkBEN_NEWempty benefits new check value empty
You selected the second option but did not fill in a value. Your answers are important to us. Please go back and fill in a value.

ENDIF

IF BEN_OVERRIDE = No, I believe the Social Security benefits I am supposed to get are roughly $$Answer2$$ per month. and BEN_NEW != empty THEN

ELSEIF BEN_OVERRIDE = No, I believe the Social Security benefits I am supposed to get are roughly $$Answer2$$ per month. and BEN_NEW = empty THEN

ENDIF

ENDIF

IF BEN_OVERRIDE = No, I believe the Social Security benefits I am supposed to get are roughly $$Answer2$$ per month. THEN

[The following questions are displayed as a table]

**OVERRIDE WHY** Reason why R changed our estimate
Thank you for correcting our estimate of your Social Security benefits. We are interested in knowing what this correction was based on. Please check all boxes that apply.

<table>
<thead>
<tr>
<th>1</th>
<th>I know the amount of Social Security that I am supposed to get from my annual Social Security mailing</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>I included Social Security survivor benefits that you did not include in your estimate</td>
</tr>
<tr>
<td>3</td>
<td>I included Social Security spousal benefits that you did not include in your estimate</td>
</tr>
<tr>
<td>4</td>
<td>I included Social Security disability benefits that you did not include in your estimate</td>
</tr>
</tbody>
</table>
5 Your estimate simply didn't appear right to me
6 Other (please specify): $Answer2$

Reason why R changed our estimate other

String

[End of table display]

ENDIF

ELSE

ENDIF

Has your spouse worked for pay for more than 5 years?
1 Yes
2 No

[Questions IN002_spouse to birthyear_spouse are displayed as a table]

What is your spouse's birth date?

Month
1 January
2 February
3 March
4 April
5 May
6 June
7 July
8 August
9 September
10 October
11 November
12 December

Day
1 01
2 02
<table>
<thead>
<tr>
<th>birthyear_spouse</th>
<th>BIRTH YEAR spouse</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year</strong></td>
<td></td>
</tr>
<tr>
<td>11 1911</td>
<td></td>
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<tr>
<td>12 1912</td>
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<td>23 1923</td>
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<tr>
<td>24 1924</td>
<td></td>
</tr>
</tbody>
</table>
IF birthyear_spouse >= 1944 and birthyear_spouse <= 1954 THEN

ELSEIF birthyear_spouse = 1955 THEN

ELSEIF birthyear_spouse = 1956 THEN

ELSEIF birthyear_spouse = 1957 THEN

ELSEIF birthyear_spouse = 1958 THEN

ELSEIF birthyear_spouse = 1959 THEN

ELSEIF birthyear_spouse >= 1960 and birthyear_spouse <= 1993 THEN

ENDIF
The highest level of school your spouse has completed or the highest degree they have received:

1. Less than 1st grade
2. 1st, 2nd, 3rd, or 4th grade
3. 5th or 6th grade
4. 7th or 8th grade
5. 9th grade
6. 10th grade
7. 11th grade
8. 12th grade
9. High school graduate
10. Some college but no degree
11. Associate degree in college Occupational/vocational program
12. Associate degree in college Academic program
13. Bachelor's degree (For example: BA, AB, BS)
14. Master's degree (For example: MA, MS, MEng, MEd, MSW, MBA)
15. Professional school degree (For example: MD, DDS, DVM, LLB, JD)
16. Doctorate degree (For example: PhD, EdD)

If highest education spouse <= 12th grade NO DIPLOMA THEN
ELSEIF highest education spouse = High school graduate THEN
ELSEIF highest education spouse >= Some college but no degree and
highest education spouse <= Associate degree in college Academic program THEN
ELSEIF highest education spouse = Bachelor's degree (For example: BA, AB, BS) THEN
ELSE
ENDIF

If EDUCATION spouse = Less than high school (< 12 years) THEN
ELSEIF EDUCATION spouse = High school degree (12 years) THEN
ELSEIF EDUCATION spouse = Some college (>12 and < 16 years) THEN
ELSEIF EDUCATION spouse = College degree (16 years) THEN
ELSE
ENDIF

IF WORK_FOR_PAY_spouse = Yes THEN
yearstartwork_spouse  year start work for pay spouse
In what year did your spouse first start to work for pay?
1900 1900
1901 1901
1902 1902
1903 1903
1904 1904
1905 1905
1906 1906
1907 1907
1908 1908
1909 1909
1910 1910
1911 1911
1912 1912
1913 1913
1914 1914
1915 1915
1916 1916
1917 1917
1918 1918
1919 1919
1920 1920
1921 1921
1922 1922
1923 1923
1924 1924
1925 1925
1926 1926
1927 1927
1928 1928
1929 1929
1930 1930
1931 1931
1932 1932
1933 1933
1934 1934
1935 1935
1936 1936
1937 1937
IF yearstartwork_spouse < (birthyear_spouse + 1900) + 1914 THEN
workedtooearly_spouse  start working before 14 spouse
You indicated that your spouse started working before she was 14 years
old. For what follows, we will just assume that pay from age 14 on counts.
If you believe you made an error in entering the date your spouse began
working, you may go back and change it.

ENDIF

incomeintro_spouse  income intro spouse
We would now like to ask you some more about the time period from between
when your spouse started working for pay (in [year start work for pay spouse]) until now.

IF incomeyearsinperiod_spouse > 40 THEN

ELSEIF incomeyearsinperiod_spouse > 30 THEN

ELSEIF incomeyearsinperiod_spouse > 20 THEN

ELSEIF incomeyearsinperiod_spouse > 10 THEN

ENDIF

LOOP FROM 1 TO [number of question income cat spouse] DO

IF incomecn2_spouse = 1 THEN

ELSE

ENDIF

IF incomecn2_spouse = incomenumberofq_spouse THEN

ELSE

ENDIF

ENDDO

LOOP FROM 1 TO [number of question income cat spouse] DO

incomenotworkq_spouse income not work spouse

[income cat start year fill spouse] - [income cat end year fill spouse]

Was there ever a time when your spouse did not work in the [income cat start year fill spouse] - [income cat end year fill spouse] period?

1 Yes
2 No

IF incomenotworkq_spouse\{null\} = Yes THEN

incomenotworkhowlong_spouse income not work months spouse

[income cat start year fill spouse] - [income cat end year fill spouse]

How many months in total do you estimate your spouse not working for pay in the [income cat start year fill spouse] - [income cat end year fill spouse] period?

Range: 0..96
IF !( FLIncomeCat1_spouse{null} = and FLIncomeCat2_spouse{null} = and FLIncomeCat3_spouse{null} = and FLIncomeCat4_spouse{null} = ) THEN

incomecat_spouse income categories spouse

Could you please give us an estimate of how much were your spouse was making on average per year in the [income cat start year fill spouse] - [income cat end year fill spouse] period?[fill for income cat question spouse]?

1 more than $[income cat fill amount 1 spouse]
2 between $[income cat fill amount 2 spouse] and $[income cat fill amount 1 spouse]
3 between $[income cat fill amount 3 spouse] and $[income cat fill amount 2 spouse]
4 between $[income cat fill amount 4 spouse] and $[income cat fill amount 3 spouse]
5 less than $[income cat fill amount 4 spouse]

ENDIF

LOOP FROM [income cat start year fill spouse] TO [income cat end year fill spouse] DO

IF ( incomenotworkq_spouse{null} = Yes ) THEN

IF ( cnt2_spouse = incomecatstartyear_spouse{null} AND incomenotworkhowlong_spouse{null} < 12 ) THEN

ELSEIF ( cnt2_spouse = incomecatstartyear_spouse{null} AND incomenotworkhowlong_spouse{null} >= 12 ) THEN

ELSEIF ( cnt2_spouse = incomecatstartyear_spouse{null} + 1 AND incomenotworkhowlong_spouse{null} >= 24 ) THEN

ELSEIF ( cnt2_spouse = incomecatstartyear_spouse{null} + 2 AND incomenotworkhowlong_spouse{null} >= 36 ) THEN

ELSEIF ( cnt2_spouse = incomecatstartyear_spouse{null} + 3 AND incomenotworkhowlong_spouse{null} >= 48 ) THEN

ELSEIF ( cnt2_spouse = incomecatstartyear_spouse{null} + 4 AND incomenotworkhowlong_spouse{null} >= 60 ) THEN

ELSEIF ( cnt2_spouse = incomecatstartyear_spouse{null} + 5 AND incomenotworkhowlong_spouse{null} >= 72 ) THEN

63
ELSEIF (cnt2_spouse = incomematstartyear_spouse\{null\} + 6 AND incomenotworkhowlong_spouse\{null\} >= 84 ) THEN

ELSEIF (cnt2_spouse = incomematstartyear_spouse\{null\} + 7 AND incomenotworkhowlong_spouse\{null\} >= 96 ) THEN

ELSEIF (cnt2_spouse = incomematstartyear_spouse\{null\} + 8 AND incomenotworkhowlong_spouse\{null\} >= 108 ) THEN

ELSEIF (cnt2_spouse = incomematstartyear_spouse\{null\} + 9 AND incomenotworkhowlong_spouse\{null\} >= 120 ) THEN

ELSEIF (cnt2_spouse = incomematstartyear_spouse\{null\} + 10 AND incomenotworkhowlong_spouse\{null\} >= 132 ) THEN

ELSE

ENDIF

ELSE

ENDIF

ENDDO

ENDDO

showpia1_spouse show pia spouse

String

IF showpia1_array_spouse\{1\} != 'unable' and showpia1_array_spouse\{1\} != empty THEN

ELSE

ENDIF

IF BEN_EST_CLAIMAGE_spouse != empty THEN

[The following questions are displayed as a table]

BEN OVERRIDE_spouse estimated social security benefits spouse

Based on the information you have provided to us about your spouse's earnings history, we estimate that, under current Social Security Law,
your spouse is supposed to get a Social Security retirement benefit of
approximately $[] per month if she claims benefits at age [claiming age
spouse]. Think of any dollar amount mentioned in this survey in terms of
what a dollar buys you today (because Social Security will adjust future
dollar amounts for inflation). Our estimate does not take into account
Social Security benefits you may receive based on the earnings of a past
or current spouse. Do you think our estimate is about right?
1 Yes, I believe the Social Security benefits my spouse is supposed to get at [claiming
age spouse] are roughly $[] per month.
2 No, I believe the Social Security benefits my spouse is supposed to get are roughly
$Answer2$ per month.

BEN_NEW_spouse  benefits new spouse

Integer

[End of table display]
IF BEN_NEW_spouse > 4000 THEN

checkBEN_NEW4000_spouse  benefits new check > 4000 spouse
Due to how Social Security calculates your spouse's benefits, it is very
unlikely that your spouse's monthly benefit will be this high. Please
go back and change your answer to something between $0 and $4000 per
month.

ENDIF

IF BEN_NEW_spouse < THEN

checkBEN_NEW0_spouse  benefits new check < 0 spouse
Monthly Social Security benefits cannot be negative. Please go back and
change your answer to something between $0 and $4000 per month.

ENDIF

IF BEN_OVERRIDE_spouse = No, I believe the Social Security benefits my
spouse is supposed to get are roughly $Answer2$ per month. and
BEN_NEW_spouse = empty THEN

checkBEN_NEWempty_spouse  benefits new check value empty spouse
You selected the second option but did not fill in a value. Your answers
are important to us. Please go back and fill in a value.

ENDIF

IF BEN_OVERRIDE_spouse = No, I believe the Social Security benefits my
spouse is supposed to get are roughly $\text{Answer2}$ per month. and $\text{BEN\_NEW\_spouse} \neq \text{empty}$ THEN

ELSEIF $\text{BEN\_OVERRIDE\_spouse} = \text{No}, I$ believe the Social Security benefits my spouse is supposed to get are roughly $\text{Answer2}$ per month. and $\text{BEN\_NEW\_spouse} = \text{empty}$ THEN

ENDIF

ENDIF

IF $\text{BEN\_OVERRIDE\_spouse} = \text{No}, I$ believe the Social Security benefits my spouse is supposed to get are roughly $\text{Answer2}$ per month. THEN

[The following questions are displayed as a table]

\textbf{OVERRIDE\_WHY\_spouse} Reason why R changed our estimate spouse

Thank you for correcting our estimate of your spouse's Social Security benefits. We are interested in knowing what this correction was based on.

Please check all boxes that apply.

1 I know the amount of Social Security that my spouse supposed to get from her annual Social Security mailing

2 I included Social Security survivor benefits that you did not include in your estimate

3 I included Social Security spousal benefits that you did not include in your estimate

4 I included Social Security disability benefits that you did not include in your estimate

5 Your estimate simply didn't appear right to me

6 Other (please specify): $\text{Answer2}$

\textbf{OVERRIDE\_WHY\_other\_spouse} Reason why R changed our estimate other spouse

String

[End of table display]

ENDIF

ELSE

ENDIF

IF survivor1_round < THEN

ENDIF

IF survivor2_round < THEN


Periodically, the Social Security Administration provides workers with personalized earnings and benefits statements. They provide information on your earnings history, your normal retirement age, and your benefit estimates for retirement, disability, family, and survivors. You may have received it in the mail or accessed it online through the Social Security Administration's website. When was the last time you reviewed your benefit statement from the Social Security Administration?

1. In the past week
2. In the past month
3. In the past 6 months
4. In the past year
5. I can't remember
6. I've never reviewed my Social Security benefit statement

We're going to take a look at a version of the Benefit Table that is included within the Social Security statement available to you through the Social Security Administration. In the table, the "retirement benefit" refers to the monthly benefit amount you are entitled to receive based on your earnings history. The "survivor benefit" refers to the monthly amount your spouse is entitled to receive based on your earnings history in the event of your death. The dollar amounts you will see are calculated based on your responses to the questions in this survey and therefore only approximate the actual Social Security benefit amounts. Please review the figures in the table and answer the questions that follow.

Your Estimated Benefits

*Retirement You have earned enough credits to qualify for benefits. At your current earnings rate, if you claim your Social Security retirement benefit at: age 62, your payment would be about $[] a month. age 67, your payment would be about $[] a month. age 70, your payment would be about $[] a month. *Disability You have earned enough credits to qualify for benefits. If you became disabled right now, your payment would be about $1,527 a month. *Family If you get retirement or disability benefits, your spouse and children also may qualify for benefits. *Survivors You have earned enough credits for your family to receive
survivors benefits. If you die this year, certain members of your family may qualify for the following benefits: Your child.................................................$1,176 a month Your spouse who is caring for your child......................$1,176 a month Your spouse, if benefits start at full retirement age...$[] a month

ELSEIF randomTreatment = 2 THEN

Q18 Treatment 2
Your Estimated Benefits *Retirement You have earned enough credits to qualify for benefits. At your current earnings rate, if you claim your Social Security retirement benefit at: age 62, your payment would be about $[] a month. age 67, your payment would be about $[] a month. age 70, your payment would be about $[] a month. *Survivor The amount of your spouse's survivor benefit will depend on your age when you claim your Social Security retirement benefit. If you claim at: age 62, your spouse's payment would be about $[survivor 62] a month. age 67, your spouse's payment would be about $[survivor 67] a month. age 70, your spouse's payment would be about $[survivor 70] a month. *Family If you get retirement or disability benefits, your spouse and children also may qualify for benefits. Your child..................................................$1,176 a month Your spouse who is caring for your child...$1,176 a month *Disability You have earned enough credits to qualify for benefits. If you became disabled right now, you payment would be about $1,527 a month.

ELSEIF randomTreatment = 3 THEN

Q19 vignette for treatment 3
If you are married and die before your spouse, he or she may be eligible for a "survivor" benefit from Social Security based on your work record. The amount of the survivor benefit that you leave to your surviving spouse will depend on two factors: (1) your spouse's own work record and (2) your age when you start receiving your retirement benefit (i.e., your "claim age"). The following examples illustrate how these factors affect the amount your spouse receives from Social Security based on your work record in the event of your death. (1) Your Spouse's Work Record Your spouse is eligible to receive a survivor benefit that is equal to the full amount of your retirement benefit, less the amount of any retirement benefit your spouse receives based on his or her own work record. To see how your spouse's work record affects the amount of the survivor benefit he or she will receive, consider the following hypothetical examples: Hypothetical 1: You are entitled to receive a retirement benefit of $1,600 per month. Your spouse is not entitled to receive a retirement benefit based on his or her own work record. Your surviving spouse will receive $1,600 each month from Social Security. The survivor benefit based on your work history will account for $1,600 of this amount. Hypothetical 2: You are entitled to receive a
Your estimated benefits:

- **Retirement**
  - You have earned enough credits to qualify for benefits. At your current earnings rate, if you claim your Social Security retirement benefit at: age 62, your payment would be about $\[ \] a month. age 67, your payment would be about $\[ \] a month. age 70, your payment would be about $\[ \] a month.

- **Disability**
  - You have earned enough credits to qualify for benefits. If you became disabled right now, your payment would be about $1,527 a month.

- **Family**
  - If you get retirement or disability benefits, your spouse and children also may qualify for benefits.

- **Survivors**
  - You have earned enough credits for your family to receive survivors benefits. If you die this year, certain members of your family may qualify for the following benefits: Your child: $1,176
Q21 vignette for treatment 4

If you are married and die before your spouse, he or she may be eligible for a "survivor" benefit from Social Security based on your work record. The amount of the survivor benefit that you leave to your surviving spouse will depend on two factors: (1) your spouse's own work record and (2) your age when you start receiving your retirement benefit (i.e., your "claim age").

The following examples illustrate how these factors affect the amount your spouse receives from Social Security based on your work record in the event of your death. (1) Your Spouse's Work Record Your spouse is eligible to receive a survivor benefit that is equal to the full amount of your retirement benefit, less the amount of any retirement benefit your spouse receives based on his or her own work record. To see how your spouse's work record affects the amount of the survivor benefit he or she will receive, consider the following hypothetical examples: Hypothetical 1: You are entitled to receive a retirement benefit of $1,600 per month. Your spouse is not entitled to receive a retirement benefit based on his or her own work record. Your surviving spouse will receive $1,600 each month from Social Security. The survivor benefit based on your work history will account for $1,600 of this amount. Hypothetical 2: You are entitled to receive a retirement benefit of $1,600 per month. Your spouse is entitled to a retirement benefit of $600 based on his or her own work record. Your surviving spouse will receive $1,600 each month from Social Security. The survivor benefit based on your work history will account for $1,000 of this amount.

(2) Your Claim Age Your spouse's survivor benefit is reduced for each month that you start receiving benefits before age 70. Thus, the earlier you claim your retirement benefit, the smaller your spouse's survivor benefit will be. By claiming at age 62 instead of at age 70, you can reduce the amount that your surviving spouse can expect to receive by as much as 37.5 percent. The following hypothetical examples illustrate how your claim age can affect the amount of the survivor benefit your spouse is eligible to receive. Hypothetical 3: You are entitled to receive a retirement benefit of $1,600 per month at age 66. Your spouse is not entitled to receive a retirement benefit based on his or her own work record. If you claim at age 62, your surviving spouse will receive $1,320 each month from Social Security. The survivor benefit based on your work history will account for $1,320 of this amount. If you claim at age 66, your surviving spouse will receive $1,600 each month from Social Security. The survivor benefit based on your work history will account for $1,600 of this amount. If you claim at age 70, your surviving spouse will receive $2,110 each month from Social Security. The survivor benefit based on your work history will account for $2,110 of this amount. Hypothetical 4: You
are entitled to receive a retirement benefit of $1,600 per month at age 66.
Your spouse is entitled to a retirement benefit of $600 based on his or her
own work record. If you claim at age 62, your surviving spouse will
receive $1,320 each month from Social Security. The survivor benefit based
on your work history will account for $720 of this amount. If you claim
at age 66, your surviving spouse will receive $1,600 each month from Social
Security. The survivor benefit based on your work history will account for
$1,000 of this amount. If you claim at age 70, your surviving spouse
will receive $2,110 each month from Social Security. The survivor benefit
based on your work history will account for $1,510 of this amount.

Q22  Treatment 4
Your Estimated Benefits *Retirement
You have earned enough credits to
qualify for benefits. At your current earnings rate, if you claim your
Social Security retirement benefit at: age 62, your payment would be about
$[ ] a month. age 67, your payment would be about $[ ] a month. age 70, your
payment would be about $[ ] a month. *Survivor
The amount of your spouse's
survivor benefit will depend on your age when you claim your Social Security
retirement benefit. If you claim at: age 62, your spouse's payment would be
about $[survivor 62] a month. age 67, your spouse's payment would be about
$[survivor 67] a month. age 70, your spouse's payment would be about
$[survivor 70] a month. *Family
If you get retirement or disability
benefits, your spouse and children also may qualify for benefits. Your
child..................................................$1,176 a month
spouse who is caring for your child...$1,176 a month *Disability
You have earned enough credits to qualify for benefits. If you became disabled right
now, you payment would be about $1,527 a month.

ENDIF

Q23  age start SS affect spouse SS if die
According to the table, can the age when you decide to start receiving your
own Social Security retirement benefit affect the amount of the monthly
survivor benefit your spouse can expect to receive from Social Security if you
die?
1 Yes, it can.
2 No, it cannot.
3 Not sure.

IF Q23 = Yes, it can. THEN

Q24  earliest age spouse highest survivor benefit
What is the earliest age at which you should start receiving your Social
Security retirement benefit if you want your spouse to receive the highest
possible monthly survivor benefit in the event of your death?
1 62
Q25 monthly survivor benefit your spouse can expect to receive
If you claim at age 62, what is the approximate value of the monthly survivor benefit your spouse can expect to receive? Please enter the dollar amount below. (Do not use commas.)
Integer

Q26 survivor and retirement benefit concept
Let's say you receive a retirement benefit of $1800 from Social Security based on your work history. Let's also say that your spouse receives a retirement benefit of $700 from Social Security based on her own work history. If you die, what is the amount of the survivor benefit your spouse will receive from Social Security based on your work history? Please enter the dollar amount below. (Do not use commas.)
Integer

Q27 thought about claim age
You may start receiving your Social Security benefit at any time between age 62 and age 70. Have you ever tried to figure out when you should start receiving your retirement benefit from Social Security?
1 Yes
2 No

IF Q27 = Yes THEN

Q28 thought about claim age
How much time would you say that you have spent thinking about when you will start receiving your benefit?
1 A great deal
2 A lot
3 A moderate amount
4 A little
5 None at all

ENDIF
**Q29** age think start receiving SS retirement benefit

At what age do you think you will start receiving your Social Security retirement benefit?

1 Age 62
2 Age 63
3 Age 64
4 Age 65
5 Age 66
6 Age 67
7 Age 68
8 Age 69
9 Age 70

ENDIF

**IF ! ( WORK_FOR_PAY = Yes and SS_STATUS = I receive Social Security benefits now. ) THEN**

[The following questions are displayed as a table]

**Q30** factors in claiming

What are the factors do you think will matter the most to you when you decide when to start receiving your benefit? Please check all that apply.

1 How my claim age will affect the amount I will receive
2 How my claim age will affect the amount my family is eligible to receive
3 The financial strength of the Social Security system
4 The age when I will stop working
5 My health and longevity
6 My income needs at the time
7 My retirement savings
8 Other (please specify): $Answer2$

**Q30_other** factors in claiming other

String

[End of table display]

**Q31** chance of reduction

On a scale from 0 to 100 - where 0 = "absolutely no chance" and 100 = "absolutely certain" - what do you think is the percent chance that over the next 10 years there will be changes to Social Security that will reduce your future benefits compared to what you would get under the current system?

0 0
1 1
2 2
3 3
IF Q31 > 0 THEN

Q32 promised benefit
Thinking about changes to Social Security that will reduce your future benefit, indicate how much of your promised benefit you expect to receive from the options below.
1 I expect to receive most of the benefits currently promised to me.
2 I expect to receive about half of the benefits currently promised to me.
3 I expect to receive very little of the benefits currently promised to me.
4 I do not expect to receive any of the benefits currently promised to me.

ENDIF

Q33 discount
Next we would like to ask you some questions which assess how people use numbers in everyday life. Would you rather receive 100 Dollars today or 200 Dollars in 12 months?
1 100 Dollars today
2 200 Dollars in 12 months

Q34 lottery
If 5 people all have the winning numbers in the lottery and the prize is two million dollars, how much will each of them get? (Do not use commas.)
Integer

Q35 disease
If the chance of getting a disease is 10 percent, how many people out of 1,000 would be expected to get the disease?
Integer

Q36 interest
Suppose you had $100 in a savings account and the interest rate was 2% per year. After 5 years, how much do you think you would have in the account if you left the money to grow?
1 More than $102
2 Exactly $102
3 Less than $102
4 Do not know

Q37 inflation
Imagine that the interest rate on your savings account was 1% per year and inflation was 2% per year. After 1 year, would you be able to buy more than today, exactly the same as today, or less than today with the money in this account?
1 More than today
2 Exactly the same as today
3 Less than today
4 Do not know

Q38 stocks
Do you think that the statement "Buying a single company stock usually provides a safer return than a stock mutual fund." Is this true or false?
1 True
2 False
3 Do not know

ENDIF

lifeexpectancyself life expectancy self
The life expectancy of the average male is currently 76.3 years of age. The life expectancy of the average female is 81.1 years of age. With this in mind, how likely do you believe it is that you will live longer than the average life expectancy?
1 Very likely
2 Somewhat likely
3 Neither likely nor unlikely
4 Somewhat unlikely
5 Very unlikely

lifeexpectancyspouse life expectancy spouse
The life expectancy of the average male is currently 76.3 years of age. The life expectancy of the average female is 81.1 years of age. With this in mind, how likely do you believe it is that your spouse will live longer than the average life expectancy?
1 Very likely
2 Somewhat likely
3 Neither likely nor unlikely
4 Somewhat unlikely
5 Very unlikely

relativelifeexpectancy relative life expectancy
How likely do you believe it is that you will live longer than your spouse?
1 Very likely
2 Somewhat likely
3 Neither likely nor unlikely
4 Somewhat unlikely
5 Very unlikely

**CS_001 HOW PLEASANT INTERVIEW**
Could you tell us how interesting or uninteresting you found the questions in this interview?
1 Very interesting
2 Interesting
3 Neither interesting nor uninteresting
4 Uninteresting
5 Very uninteresting

**CS_003 comments**
Do you have any other comments on the interview? Please type these in the box below.
Open

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Figure 3A. *Follow-up Survey Instrument*

**Well Being 463**

**Introduction** introduction
This is a brief follow-up to a survey you took a few weeks ago. We would like to ask you a few questions about the information you read when you took the survey. As before, we are interested in understanding people's beliefs about Social Security benefits including how much they expect to receive and what factors might influence the amount they receive. We are also interested in understanding people’s beliefs about the survivor benefits that widowed spouses can expect to receive based on the deceased spouse's work history.
This study will help create clearer and easier-to-understand materials about the Social Security program. Like the previous survey, some questions may be hard to answer exactly. Please take time to consider the questions and give us your best guess even if you do not know the exact answer. Having even your best guess will be very helpful to us. Thank you very much for your help.

**Q1 remember taking survey**
A few weeks ago, you took part in a survey that calculated the Social Security benefits you and your spouse can expect to receive based on your earnings history. After they were calculated, these benefits were presented to you in a table and you were asked a few questions related to them. Do you remember taking the survey described above?
1 Yes
2 No
IF Q1 = No THEN

Q2 participation helpful
Even if you did not take the survey, or do remember taking the survey, please
take time to consider the questions that follow to the best of your ability.
Your participation will be very helpful to us.

ENDIF

Q7 age think start receiving SS retirement benefit
At what age do you think you will you start receiving your Social Security
retirement benefit?
1 62
2 63
3 64
4 65
5 66
6 67
7 68
8 69
9 70

Q3 age start SS affect spouse SS if die
Can the age when you decide to start receiving your own Social Security
retirement benefit affect the amount of the monthly survivor benefit your spouse
can expect to receive from Social Security if you die?
1 Yes, it can
2 No, it cannot
3 Not sure

IF Q3 = Yes, it can THEN

Q4 earliest age spouse highest survivor benefit
What is the earliest age at which you should start receiving your Social
Security retirement benefit if you want your spouse to receive the highest
possible monthly survivor benefit in the event of your death?
1 62
2 63
3 64
4 65
5 66
6 67
7 68
8 69
9 70
Q6 survivor and retirement benefit concept
Let's say you receive a retirement benefit of $2200 from Social Security based on your work history. Let’s also say that your spouse receives a retirement benefit of $1000 from Social Security based on her own work history. If you die, what is the amount of the survivor benefit your spouse will receive from Social Security based on your work history? Please enter the dollar amount below. (Do not use commas.)
Integer

ELSE

Q6_noback survivor and retirement benefit concept
Let's say you receive a retirement benefit of $2200 from Social Security based on your work history. Let’s also say that your spouse receives a retirement benefit of $1000 from Social Security based on her own work history. If you die, what is the amount of the survivor benefit your spouse will receive from Social Security based on your work history? Please enter the dollar amount below. (Do not use commas.)
Integer

ENDIF

Q8 retirement benefit recall
How much did the survey indicate that you can expect to receive from Social Security if you claim at age 66? Please enter the dollar amount below. (Do not use commas.)
Integer

Q9 spouse retirement benefit recall
How much did the survey indicate that your spouse can expect to receive from Social Security if your spouse claims at age 66? Please enter the dollar amount below. (Do not use commas.)
Integer

Q10 spouse survivor benefit recall
If you claim at age 66, what is the approximate value of the monthly survivor benefit your spouse can expect to receive? Please enter the dollar amount below. (Do not use commas.)
Integer

Q5 monthly survivor benefit your spouse can expect to receive
If you claim at age 62, what is the approximate value of the monthly survivor benefit your spouse can expect to receive? Please enter the dollar amount below. (Do not use commas.)
Integer
**CS_001** HOW PLEASANT INTERVIEW
Could you tell us how interesting or uninteresting you found the questions in this interview?
1 Very interesting
2 Interesting
3 Neither interesting nor uninteresting
4 Uninteresting
5 Very uninteresting

**CS_003** comments
Do you have any other comments on the interview? Please type these in the box below. (If you have no comments, please click next to complete this survey.)
Open
Actuarial Inputs and the Valuation of Public Pension Liabilities and Contribution Requirements: A Simulation Approach
Gang Chen and David S. T. Matkin, May 2017

Why Are U.S. Households Claiming Social Security Later?
Wenliang Hou, Alicia H. Munnell, Geoffrey T. Sanzenbacher, and Yinji Li, April 2017

Rising Inequality in Life Expectancy by Socioeconomic Status
Geoffrey T. Sanzenbacher, Anthony Webb, Candace M. Cosgrove, and Natalia S. Orlova, April 2017

The Effect of Job Mobility on Retirement Timing by Education
Geoffrey T. Sanzenbacher, Steven A. Sass, and Christopher M. Gillis, February 2017

Would Reducing the Price of Employing an Older Worker Improve Labor Market Outcomes by Socioeconomic Status? Evidence from Health Insurance Premium Restrictions
Matthew S. Rutledge and Caroline V. Crawford, December 2016

The Impact of Massachusetts Health Insurance Reform on Labor Mobility

Work, Retirement, and Social Networks at Older Ages
Eleonora Patacchini and Gary V. Engelhardt, November 2016

Calculating Expected Social Security Benefits by Race, Education, and Claiming Age
Geoffrey T. Sanzenbacher and Jorge D. Ramos-Mercado, November 2016

Do Late-Career Wages Boost Social Security More for Women than Men?
Matthew S. Rutledge and John E. Lindner, November 2016

Cognitive Impairment and Social Security’s Representative Payee Program
Anek Belbase and Geoffrey T. Sanzenbacher, November 2016

How Would Reducing the Price of Older Workers Improve Labor Market Outcomes by Socioeconomic Status? Evidence from Health Insurance Premium Restrictions
Matthew S. Rutledge and Caroline V. Crawford, October 2016

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