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Abstract

This paper documents the Earnings and Benefits File (EBF). The EBF is a restricted dataset created for researchers working with the Health and Retirement Survey (HRS) under a set of limited access conditions. The EBF and all derived variables contained therein are intended for research purposes only, by registered users of the public use file of the Health and Retirement Survey, and may be linked only with HRS files containing no geographic detail below the Census Division level. Details on the rationale for, and definitions of, constructed employment, earnings, and social security wealth variables in the EBF are provided, as well as a bibliography for those wishing additional information on the rules by which social security earnings data are used in calculating benefits. The EBF contains information derived for respondents of the 1992 Health and Retirement Survey who authorized the University of Michigan's Institute for Social Research to obtain administrative records from the Social Security Administration. The EBF is described below, first in conceptual terms in Part I, and then in more technical detail in Part II. Appendices contain a detailed layout of variables and codebook for the data file along with additional descriptive statistics.

Keywords

Earning and Benefits File (EBF), Heath and Retirement Survey (HRS), retirement savings, Social Security Administration, earnings, benefits

Disciplines

Demography, Population, and Ecology | Family, Life Course, and Society | Social and Behavioral Sciences | Sociology

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Construction of the Earnings and Benefits File (EBF) for Use With the Health and Retirement Survey

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Construction of the Earnings and Benefits File (EBF) for Use With the Health and Retirement Survey

This paper documents the Earnings and Benefits File (EBF). The EBF is a restricted dataset created for researchers working with the Health and Retirement Survey (HRS) under a set of limited access conditions. The EBF and all derived variables contained therein are intended for research purposes only, by registered users of the public use file of the Health and Retirement Survey, and may be linked only with HRS files containing no geographic detail below the Census Division level. ¹

Details on the rationale for, and definitions of, constructed employment, earnings, and social security wealth variables in the EBF are provided, as well as a bibliography for those wishing additional information on the rules by which social security earnings data are used in calculating benefits. The EBF contains information derived for respondents of the 1992 Health and Retirement Survey who authorized the University of Michigan's Institute for Social Research to obtain administrative records from the Social Security Administration. The EBF is described below, first in conceptual terms in Part I, and then in more technical detail in Part II. Appendices contain a detailed layout of variables and codebook for the data file along with additional descriptive statistics.

I. A General Description of EBF Variables

The Earnings and Benefits File (EBF) contains three types of variables, aimed at meeting specific data needs of the research community working with the Health and Retirement Survey. First, HRS researchers often desire summary measures of labor market attachment, particularly useful for modeling retirement and saving patterns. Second, researchers often require information on aggregate earnings, measures of interest in their own right and also of use to those assessing respondents' retirement saving. Third, researchers need computed social

¹ Readers interested in obtaining detailed information about social security rules should consult the Bibliography for citations. The SSA world wide web site also provides useful information and references to social security data and rules (http://www.ssa.gov). The EBF is a restricted file and users are prohibited from linking the EBF dataset to any HRS file containing identifiers below the Census Division level. Questions regarding the EBF and HRS datasets should be directed by e-mail to hrsquest@umich.edu.

security wealth variables for studies of retirement behavior, and preparedness for retirement. In the context of the Health and Retirement Survey, first fielded in the year 1992, it is useful to have measures of social security wealth as of that year for comparability purposes with other wealth measures obtained at that interview date.

We have constructed measures of these three types of variables in the EBF dataset, derived only for ageeligible HRS respondents who authorized the release of earnings and benefit data to the University of Michigan's Institute for Social Research. Specifically, only HRS respondents and spouses age 51-61 in 1992 were eligible for inclusion in the EBF file. In this section we describe in general terms the nature of the data creation effort, and further technical details follow in Part II below.

A. Creation of Employment Summary Data in the EBF

The EBF contains a variety of employment summary measures created for Health and Retirement Survey respondents. These are derived from administrative records supplied by the Social Security Administration (SSA), in accordance with agreements signed between the Institute for Social Research (ISR) at the University of Michigan and the SSA. Of the HRS survey respondents asked to sign a permission form in 1992 allowing access to their earnings and benefit records at SSA, some 75% complied with the request. ² ISR provided identifiers to SSA, and individual earnings records were obtained for cases with matching identifiers. A final match rate of 66% of the entire Wave 1 HRS sample was obtained. If no permission was obtained, or if a match could not be generated, no employment variables were generated in the EBF file for that case ID.

Table 1 summarizes several of the labor market attachment variables included in the EBF. The sample included in this Table covers individuals who were not in receipt of disability benefits from social security as of 1991, and who had nonzero earnings at some point in their careers. ³ One summary measure indicates how many

² These figures refer to the HRS Wave 1 respondents. In Waves 2 and thereafter additional respondents supplied permission forms, but these respondents have not yet been included in the EBF dataset supplied with this release of the EBF file.

³ Respondents with no positive covered earnings are excluded from the EBF file. Some of these never worked for pay, but others probably worked in noncovered sectors. These latter sectors have narrowed over time, but most often would be thought of as government (e.g. federal, state, and local), agricultural, and nonprofit workers.

years a respondent's record showed zero covered earnings by decade of age from age 20-29, 30-39, ... to age 80-89 (see variables 44-50 in Appendix A). Only the years 1951 through 1991, inclusive, are used in this computation. If the respondent's current age was part-way through a decade at the time of the HRS survey, only the relevant years "at risk" are included in the count. Thus, for instance, a 52-year old respondent would have a value of at most 3 years in the column pertaining to the number of years with zero covered earnings from age 50-59.

Descriptive statistics on this variable by sex and marital status appear in Table 1 for respondents who had had some positive covered earnings over their lifetimes. ⁴ Here we see that men with at least some nonzero earnings in the HRS cohort devoted 80-90 percent of their potential work years in covered employment, whereas women with nonzero earnings devoted about half the time in covered jobs during their twenties and thirties, with the fraction rising to 60-80 percent thereafter. The fraction of time spent in covered employment varies with marital status: more married than nonmarried men were in covered employment all their lives, whereas more nonmarried than married women were in covered jobs.

See Table 1. Descriptive Statistics on EBF Covered Employment Variables

A different variable measuring respondents' length of time working under the social security system focuses on total quarters of coverage (QC's), or the number of quarters an individual worked in jobs covered by social security rules. Specific numbers of quarters of coverage (QC's) are needed for establishing eligibility for social security benefits; persons reaching age 62 after 1990, for instance, must have 40 quarters of coverage to be insured for Social Security retirement benefits. Historically, QC's referred to earnings in a calendar quarter, but more recently, one quarter of coverage has been credited for a specified amount of earnings. For example, in 1992, a worker was entitled to a quarter of coverage for each \$570 in earnings in covered employment, up to 4 per

⁴ Tabulations in Table 1 are weighted by HRS sample weights. Some HRS respondents do not have covered earnings reported in the administrative records, since their jobs were not covered by social security in times past. For a discussion of covered and uncovered jobs see Myers (1991).

year; that figure is indexed over time (SSA 1992, Table 2.A.7). For the EBF datafile, quarters of coverage requirements in the past were computed by the ANYPIA software program. This is a computer program prepared by the Office of the Actuary, Social Security Administration, that incorporates current as well as historical social security rules relevant to HRS respondents (Office of the Actuary 1995).

The EBF reports total quarters of coverage for each individual, as well as quarters of coverage over each two-year period from 1982 through 1991. Table 1 summarizes the total number of quarters reported in covered employment (variable 30; see Appendix A), the number of covered quarters by two-year pairs between 1982-1991 (variables 32-36), and our computation of the total number of years in covered employment between the ages of 20 and 50. As before, the employment variables indicate that married men have the highest numbers of years in covered employment between age 20 and 50 (26 years) as well as total quarters in covered employment (125) compared to nonmarried men (25 years, 115 quarters) as well as married and nonmarried women (16 years, 72 quarters; 18 years and 85 quarters respectively). Both men and women averaged 5-7 quarters of coverage within the last several pairs of years leading up to the HRS survey.

Also included in the EBF is a variable (31) indicating the individual's eligibility status for the Social Security Disability Insurance program as of yearend 1991. Table 1 shows that most married men (84%) and nonmarried men (75%) are eligible for SSDI based on their own work record, whereas somewhat fewer married women (59%) and nonmarried women (72%) are eligible. As is clarified in Part II of the discussion, any HRS respondents in receipt of Disability Insurance payments at the time of the survey have no social security retirement benefits computed in the EBF

(but their earnings and employment are shown). ⁵ Individuals receiving DI benefits are therefore excluded from computations in Table 1. ⁶

B. Computation of Aggregate Earnings Data

As described above, QC's measure the work attachment requirement for Social Security insured status. Once eligible, retiree benefit amounts are based on the respondentÕs average long-term covered earnings. Specifically, the number of years in the averaging period equals the number of full calendar years after 1950 (or, if later, after age 21) and up to the year in which the worker attains age 62, becomes disabled, or dies--generally minus 5 "dropout" years. For most HRS respondents, the result is 35 years. For the EBF, the Average Indexed Monthly Earnings (AIME) amount was computed using the ANYPIA program (Office of the Actuary, 1995).

To compute the respondent's current AIME (that is, based on earnings through 1991), the algorithm used covered earnings from 1951 to 1991, recorded up to the taxable maximum earnings ceiling in the administrative records file supplied by the Social Security Administration. (In 1992 this maximum was an annual \$55,500; for historical amounts, see SSA, 1995, Table 2.A.3). The program then indexes earnings up to age 60 by economy-wide average wage increases; for example, earnings in 1951 were inflated by a factor of almost 9 to convert them to 1992 dollars. Subsequently the respondent's highest indexed earnings are averaged after eliminating the requisite number of dropout years (see Part II for a more detailed discussion). This computation yields the respondent's current AIME amount, in \$1992 (variable 5). Zero earnings years -- including imputed future zeros -- are included as necessary in the AIME calculation. ⁷

⁵ As noted below, disability benefits are not included in the EBF file.

⁶DI recipients are identified (variable 4 is set to 1) and they have a missing value code (-9) inserted in lieu of social security benefit amounts in the social security benefit fields (variables 9-29 in Appendix A). In this way, DI recipients can be distinguished from those ineligible for benefits due to insufficient quarters of coverage; those not eligible to receive social security benefits have a 0 in their benefits variable fields (variables 9-29). If a DI recipient was married, no benefit is computed for that personÕs spouse either, and a missing data value (-9) appears in variables 9-29.

⁷ Users should note that the respondents' consent agreements allowed the provision only of records to date and annual earnings before 1951 are not available in electronic form at SSA.

Two other AIME measures were also created (but not retained in the EBF), namely the AIME that the respondent would have had at the early, and also at the normal, retirement age. Because some HRS respondents (and their spouses) were not old enough to be eligible to receive social security retirement benefits in 1992, it was necessary to project earnings forward in order to determine what these potential AIME amounts might be if they did work to the social security entitlement ages. Each non-disabled respondent's earnings were therefore projected to age 62, which is the earliest age he/she could file for retired worker benefits under social security rules, and also to that respondent's normal retirement age. This normal retirement age is age 65 for older members of the sample, but has been raised to age 67 for those born in 1960 or later, with gradual increases for ages in between. We projected earnings for each person using a weighted average of his/her own earnings over the past five years, corrected for inflation. (Details are given in Part II of this report).

These earnings calculations may be summarized in several ways. Table 2 describes respondents' average annual real taxable earnings by decade of life, computed beginning at age 20-29, and running to age 80-89. For each decade of age, average earnings are computed only to the social security taxable maximum, and only over the years in which the individual had nonzero earnings (variables 37-43). Table 2 indicates that average annual taxable earnings while age 50-59 stood at approximately \$27,700 for married men, with nonmarried men averaging about \$20,500, nonmarried women about \$14,700, and married women about \$10,600. ⁸ *See Table 2. Descriptive Statistics on Earnings Variables in the EBF*

Table 2 also replicates the computation representing respondents' current AIME amounts (variable 5), which as noted earlier include zero earnings years as necessary in the calculation. Married men's AIME averages \$1,990, with nonmarried men close behind at about \$1,570; married women's lower earnings and fewer years of covered employment no doubt contributed to the lower average AIME of about \$640, while nonmarried women are higher at about \$840. Additional information is also provided in the EBF file regarding the twenty lowest earnings years in the AIME average, arranged in ascending order (variables 51-70; we do not display the

⁸ Earnings while age 50-59 are averaged only over possible work years in Table 2.

results of these computations since lowest earnings tend to be zero in most cases.) These variables are included primarily to allow analysts to update the AIME using survey-reported earnings for 1992 and later. In addition, analysts wishing to compute alternative AIME figures may use these lowest earnings years to recompute AIME values for other retirement dates (Office of the Actuary 1995 ; Myers 1993).⁹

C. Computation of Social Security Wealth Amounts

Social security wealth variables were generated for EBF respondents for whom the AIME could be computed, and who were not currently receiving Social Security Disability Insurance (SSDI). ¹⁰ This was accomplished using the ANYPIA algorithm described above, which combines the respondentÕs AIME with the relevant formula to obtain that person's primary insurance amount, or PIA. The PIA is the monthly amount payable to a retired worker who begins to receive benefits at the normal retirement age (currently, age 65) or to a disabled worker who has never received a retirement benefit reduced for age. The 1992 formula is as follows (the "bend points" are indexed over time):

PIA = 90% of AIME up to \$387 Plus 32% of excess up to \$2333 Plus 15% of any excess above

that.

If a respondent was not eligible to receive social security benefits based on quarters of coverage through December 1991, the PIA and all social security wealth variables are set to zero (along with the spouse benefits if there was no spouse, or if the spouse was ineligible for benefits based on the respondent's earnings record).

Having computed the respondent's PIA, we then derived the social security benefits he/she and his/her

⁹ A different method of summarizing the AIME computations appears in Appendix B, which reports descriptive tabulations of linear regression coefficients for models using as dependent variables computed values of AIMEs and Primary Insurance Amounts (PIA).

¹⁰ Retirees may also qualify for other benefits including disability and Medicare payments, among others, but these are not the focus of the present analysis.

spouse (if any) could receive at the retirement ages under consideration. The rules for benefit determination specify that the PIA is the retirement benefit at the normal retirement age. Workers can also receive early retirement benefits (assuming eligibility) at age 62; under the law, early retirees receive a benefit equal to the PIA reduced by 5/9 of 1 percent or 1/180 per month of entitlement before age 65. The normal retirement benefit computations take into account the fact that the full PIA has been payable at age 65 but the normal retirement age will be gradually moved up in the future.

In addition to computing the retired worker benefits, we also derived spouse benefits if the HRS respondent had a spouse and if sufficient data were available with which to compute these. Each member of a married couple is entitled to receive social security benefits based on his/her own earnings record, and perhaps based on the spouse's PIA if such benefits would be higher. (Spouse benefits are generally equal to 50% of the worker's PIA). Specifically, dual entitlement arises if the woman's (man's) benefit computed on her (his) own earnings record is lower than that computed as a spouse. In this instance, at retirement she (he) will receive a dual benefit reflecting both her (his) own entitlement as well as an additional amount taking her/him to the level she/he is entitled to as a spouse.

To illustrate this point, suppose that a woman is married to a man who is eligible for retired worker benefits from social security based on his own work record. The wife in this case can receive 50% of his PIA as a spouse benefit if she were age 65 at retirement; if she were 62-64, her spouse benefit would be reduced by a monthly amount which comes to 8 1/3% per year she was under age 65. For the EBF complete computation, we also compute the benefits she would be entitled to based on her own work history. The computer algorithm inquires which calculation is higher, and associates with the wife the higher of the two benefit amounts. Users of the EBF file should note that the constructed spouse variables in the variable 10-29 series described in Appendix A do not distinguish between respondents projected to receive only spouse benefits, and those projected to be dually entitled.¹¹

¹¹ So for instance, if a spouse's dual entitlement benefit is higher than the benefit she could receive based on her own earnings record, the larger benefit is entered in her husband's variable 14 (see App. A) and a zero is entered in his variable 13. In her record (assuming she is included in the EBF file), the values of her variables would be

For currently married persons, the ANYPIA code was also used to project survivor's benefits under social security rules. If an eligible worker dies, the surviving widow/er can receive up to 100 percent of the deceased worker's PIA; such benefits, reduced for early retirement, can begin as early as age 60. Remarriage after age 60 does not result in the loss of benefits.

For nonmarried persons, eligibility for survivor or other auxiliary benefits could not be determined. For example, in the event that a couple was divorced after a marriage of at least ten years, the divorced spouse would be eligible for spouse benefits; after the death of the former spouse, to surviving divorced spouse benefits. Because the HRS did not obtain Social Security Numbers from surviving divorced former spouses in the HRS, we could not compute spouse benefits to which HRS divorced individuals might be entitled. Users of this database should therefore be alert to the possibility that social security benefits derived for divorced persons will be understated. Likewise benefits computed for persons widowed at the time of the survey recognize only prospective payments based on their own record as workers, since we cannot compute widow/er benefits to which an HRS widowed individual might be entitled. Evidence suggests the results will underestimate social security benefits and wealth of many widows and divorced women.¹²

Having computed these various social security benefit amounts, the question arises as to the best way to summarize their value to the retiree. In the EBF file we have adopted the concept of social security wealth for this purpose, which simply refers to the present value of the social security benefit payable in the form of an

compatible with those appearing in her husband's file (i.e., her variable 11 equals his variable 14, and her variable 10 equals his variable 13).

¹² Using a different data source, the Survey of Income and Program Participation (SIPP), estimates show that a large majority of aged widows receives benefits based on her husband's earnings record. An internal SSA study found that 77.6 percent of aged widows in 1990 who were receiving social security benefits, received benefits based wholly or partially on their deceased husband's earnings record. This suggests that EBF-computed benefits data for nonmarried women will underestimate the eventual benefits that many of these women will receive, since we do not have deceased spouses' earnings records linked to the file. For divorced women the in-house study suggested that approximately 30 percent of divorcees received social security benefits either wholly or partially based on their (deceased) former husbands' earnings records. This suggests that the understatement of likely benefits may be less serious for divorced than currently widowed women.

annuity from retirement until death. Benefit values after retirement are multiplied by survival probabilities from that age forward, and discounted to 1992 by multiplying by the conditional probability of being alive at that retirement age, given that he/she is alive at his current age in 1992.

The social security wealth computation is straightforward for the case of a nonmarried respondent leaving the workforce at age 62. Mathematically, we simply sum annual benefit amounts payable from age 62 on, multiplied by the survival probability at each age, and divide by an appropriate discount rate. Age-specific mortality rates by birth cohort were supplied by the Office of the Actuary at the Social Security Administration; for the discount rate we use the interest rate profile consistent with the intermediate set of assumptions chosen by the Social Security Trustees (Board of Trustees 1995). A similar wealth value can be computed assuming the worker retires at the normal retirement age, by using the AIME and PIA computed as of that age.

Computing social security wealth for married respondents is somewhat more complex, since the system pays different benefit amounts depending on the couple's mortality experience. As long as both members of a couple survive, retired worker and/or spouse benefits can be paid. However when one of the members of the couple dies, the other may receive a survivor benefit if it exceeds the survivor's own retired-worker benefit.¹³ Hence the derivation of social security wealth here requires that the present value computation incorporate retiree, along with possibly spouse and survivor benefits, weighted by the probability of the different outcomes obtaining. Here too, the interest rate profile used is the one consistent with the Intermediate set of assumptions chosen by the Social Security Trustees.

An overview of the various social security variables created for the EBF file appears in Table 3. This Table reports descriptive statistics on each respondent's Primary Insurance Amount computed in 1992 when the HRS was first fielded based on the respondent's earnings to date, and also two projected PIA amounts using

¹³ Under current social security rules, persons receiving survivorÕs benefits are sometimes entitled to retiredworker benefits on their own record, and to higher survivor benefits based on their spouseÕs record. As noted above in the discussion of spouse benefits, these dually entitled beneficiaries are classified in the EBF simply as spouse or survivor beneficiaries.

earnings projected to the early retirement age and to the normal retirement age (variables 6-8). For married men, Table 3 indicates that the PIA based on earnings to 1992 totaled approximately \$800, rising to \$882 with earnings to the normal retirement age; levels for nonmarried men were, respectively, about \$680 and \$750. Women's PIAs are lower, rising to \$420 and \$520 at the normal retirement age for married and nonmarried women, respectively.¹⁴

See Table 3. Descriptive Statistics on Social Security Variables in the EBF

The EBF file also supplies three total social security wealth variables. One (variable 9) reflects HRS respondents' entitlements as of 1992 ("current"), filling in future years of earnings to age 62 with zeros. The other two social security wealth values are based on the benefits receivable if the respondent continued to work until the early retirement age (variable 16), and also if he/she worked until the normal retirement age (variable 23). These values are given as household social security wealth variables in the second panel of Table 3. The present values amount to about \$170,000-180,000 for married men and women working until their normal retirement age, much more than double the values for nonmarried men and women. The fact that married persons' social security wealth is larger reflects the fact that social security retirement benefits are payable to both members of an eligible couple, as well as survivor benefits if one of the members of the couple should die. By contrast, because of data limitations, the social security wealth computation for a nonmarried individual does not include any survivor or divorced spouse benefit, though as noted above, perhaps as many as three-quarters of the widows may receive a survivor benefit over their lifetimes.

A clearer idea of the separate computations that are incorporated into a married couple's security wealth figure is also available from Table 3. Here we report the expected present value of social security retirement benefits that an eligible respondent and spouse can collect based on his/her own earnings records, the spouse's earnings records (if any), and as a survivor based on his/her partner's earnings record (if applicable). Thus for example, the wealth value for married men's "respondent" benefits as of the normal retirement age totaled

¹⁴ Social security wealth variables are also described using linear regression models in Appendix C.

approximately \$89,000, with the spouse's benefit on her own account totaling \$28,000; the figures are roughly reversed when the married women are the unit of analysis. ¹⁵

These social security wealth variables will be reasonable representations of the expected future value of benefit payments in most cases, but the reader should be alert to two instances where the EBF projections may be low. ¹⁶ One case arises in the event of a widow/er whose actual future benefits will often be based on the deceased spouse's record. The HRS did not attempt to collect information on the social security numbers of deceased spouses, so for these people, earnings records for deceased spouses (and hence eventual social security survivor benefits) are not available • A second case is that of divorced persons who had been married 10 or more years prior to divorce. Under the regulations, divorced persons may file for benefits based on their former spouses' earnings history. For the purposes of the EBF file, however, we could not compute benefits based on the former spouse's earnings since these earning files were not available to us. Therefore the social security wealth variables in the EBF file may be a substantial understatement of benefits that will likely be received for nonmarried women, and specifically widows/ers and for divorced women who previously had been married for 10 or more years.

Users of the EBF file should also be alert to the point that estimated benefits and social security wealth are also likely to be low for those respondents having had Social Security disability benefits in their past. This is because during such periods, SSA protects against the loss of or the reduction in the amount of retirement insurance benefits, by providing that the period during which the person is disabled will generally be excluded

¹⁵ The higher benefit values reported for male as compared to female HRS respondents in Table 3 reflect the fact that HRS age-eligible male respondents are somewhat older on average, as compared to HRS women respondents.

¹⁶ Those already divorced or widowed at the time of the HRS survey will have benefit amounts computed based only on their own records, as noted above. No benefits are computed for those in disability benefit receipt status (or their spouses).

from determining either retirement benefits and social security wealth. ¹⁷

D. Layout of the EBF

In this section we offer an idea of the EBF layout, with the idea that a general reader may be satisfied with this description of the EBF variables along with the detailed variable list for the file supplied in Appendix A. Part II, below, provides more detailed file construction information.

The EBF contains one record for each individual in the HRS from whom a valid permission form was obtained, and who had nonzero earnings at some point in his/her career. Each person in the file is identified by a case ID, that matches the same variable in the HRS records and is the variable for linking these records to the HRS data set. ¹⁸ For individuals who were married at the time of the HRS interview, there is also a spouse ID, which is the HRS case ID of the record of the spouse. This variable has a value of 0 if there is no spouse, and a value of 99999 if there was a spouse but the spouse does not have a record in the main HRS data set. ¹⁹ All other variables are as described in Appendix A, with the caveats discussed above.

II. Technical Discussion of Algorithms and Assumptions in the EBF

This section is intended to provide additional technical details on how the EBF dataset was constructed. In addition to the case ID variables noted above, the other variables in the record are grouped into three categories and discussed in turn. These three sets of variables are: labor market attachment variables, earnings aggregates, and measures of family social security wealth.

A. Labor Market Attachment Variables

¹⁷ For each of these cases, the EBF total social security wealth variables can be modified using social security benefit files in conjunction with the earnings records.

¹⁸ The EBF can be linked only to HRS data containing no geographic detail below the Census Division level. Information about access to the restricted files is available over email from hrsquest@umich.edu.

¹⁹ This might occur if, for example, that spouse did not participate in the survey, or did not agree to permit the attachment of earnings record data to his or her file. Social security wealth variables are imputed using the hot deck procedure described in Part II.

The EBF dataset contains three groups of variables measuring labor market attachment. Variables 44 to 50 indicate the number of years by age decade that the individual reported zero earnings. These decades are the same decades used in calculating the average earnings by decade, and the same limitations apply. Specifically, only the years between 1951 and 1991, inclusive, are included. This means, for example, that an individual who is 56 years old in 1992 and who had four years of non-zero earnings and two years of zero earnings in the 1986-1991 time period will have a value of two assigned to variable 47. (Data in Table 1 correct for the fact that the number of potential years of work varies by respondent age.)

A second variable indicates the respondent's total quarters of coverage (or credits) as of year-end 1991. This is needed to establish whether the individual is presently insured under the old-age retirement program, or whether he or she may become insured on the basis of future work. The respondent's total quarters of coverage at the end of 1991 appear in variable 30. For workers attaining age 62 in 1991 or later, 40 quarters of coverage are required to be eligible for old age benefits when they retire.²⁰ Researchers can update the total quarters of coverage after 1991 using the work status and earnings figures available in the HRS surveys in 1992 and later. An individual receives one quarter of coverage for each \$570 of earnings in 1992, an amount adjusted annually according to the average annual earnings index.

A third group of variables is useful for establishing whether the individual is currently insured under the disability insurance program. Whether the individual was currently insured at the end of 1991 is given by variable 31. In most cases, the individual is required to be fully insured and have 20 quarters of coverage (or credits) in the previous 10 years to be disability insured. ²¹ Variables 32-36 can be used to update the disability insurance status at two year intervals for the following ten years, again using work status and earnings figures

²⁰ A person is fully insured if he or she has at least 1 credit for each calendar year after 1950, or if later, after the year in which he or she attained age 21, and prior to the year in which he or she attains age 62 (see SSA, various years).

²¹ A person has disability insured status if he/she has at least 20 credits during a 40-quarter period ending with the quarter in which the individual is determined to be disabled; and is fully insured as well (see SSA, various years).

from the household HRS surveys in 1992 and later. For example, if an individual had 3 quarters of coverage in 1982-1983 and 18 quarters of coverage in the period 1982-1991, and if the household survey indicates that the individual had 8 quarters of coverage in 1992 and 1993, then we can infer that the individual had 23 quarters during 1984-1993 (18 plus 8 minus 3), making him or her disability insured at the end of 1993.

A final entry in the labor market variable group indicates whether the individual was receiving social security disability insurance benefits as of December 1991. This is variable 4, taking a value of 1 if the individual was receiving disability benefits as of December 1991 and a value of 0 if he or she was not on disability at that time. Unlike most of the other variables in this file, this variable comes not from the summary earnings record but from the benefits record. If the individual was collecting social security disability as of December 1991, all variables described in the next two sections (average monthly earnings, primary insurance amount, social security wealth, etc.) are all set to -9. This is because the algorithms that are used to calculate these variables for the dataset are appropriate only for old-age benefits for persons without prior entitlement to disability benefits. Spouses of workers receiving social security disability insurance benefits are included if they are age-eligible respondents in their own right.

B. Earnings Aggregates

Variables 37 to 43 in the EBF file provide the average real taxable earnings by decade of life. These decades are age decades, not calendar decades, and run from ages 20-29 to ages 80-89. For each decade, the average is calculated using only the years in which the individual had positive earnings; years in which there were no earnings are excluded from the average. Further, these are real earnings, which means that each annual earnings amount is indexed to 1992 using the consumer price index (CPI-U). The indexing is done prior to averaging. The user is reminded that no annual earnings are available in the social security records before 1951 or after 1991. Further, only taxable earnings up to the maximum amount subject to social security taxes are available in these records, and zeros appear in the record for respondents too young to have worked the full decade.

C. Derived Social Security Retirement Benefit Variables

Social security benefits for HRS respondents are calculated in three stages. First, the Average Monthly Indexed Earnings (AIME) amount is calculated for everyone for whom earnings data are available, using the number of years of earnings as specified in the social security law. If a respondent does not have enough positive years of earnings, zeros are filled in for the remaining years. Next, the Primary Insurance Amount (PIA) is calculated from average monthly earnings using a formula that depends on when the individual turns age 62. Finally, an adjustment factor reflecting early or late retirement is applied to the PIA to determine the benefit amount, as required.

Variable 5 lists the calculated AIME amount based on earnings through 1991, rounded to the nearest \$10; for this computation zeros are filled in for years between 1991 and the year the respondent turns age 62. This AIME figure is calculated by a program created by the Social Security Administration called ANYPIA, that incorporates the many changes that Congress has made in social security law over the years (Office of the Actuary 1995).

For the AIME computation, earnings before the age of 60 are indexed upward to age 60 by a factor calculated from SSA's average annual wage series. Earnings after age 60 enter the average on an unindexed basis. In general, for persons without current or prior disability, the number of computation years equals the years after 1950 (or age 21 if later) to age 62, excluding 5 'dropout' years. For HRS respondents who turned 60 in 1992 and before, earnings before age 60 are indexed according to the average annual wage series, and the high 35 years are averaged. For respondents who turn 60 after 1992, the indexing amount was not known in 1992. For these individuals, earnings are indexed to 1992, and the high 35 years are averaged (including zero earnings years, if any).²²

The EBF also contains the variables necessary to update the AIME amount based on earnings in 1992 and subsequent years as reported in the household surveys, at least for those individuals who attained age 62 in

²²The average earnings computation for workers who attained age 62 prior to 1978 is computed slightly differently (see SSA, various years or the Social Security worldwide web page at www.ssa.gov).

1979 and after, and are thus governed by the indexed earnings formula (SSA, Table 2.A8). Variables 51 to 70 contain the lowest 20 years of earnings in the AIME computation, arranged from the lowest year and in ascending order. The amounts reported are indexed (and not nominal) amounts, meaning that they are indexed to age 60 if the earnings were before age 60 and the individual had reached 60 by 1992, or if the individual was under age 60 in 1992, they are indexed to 1992. The indexing rules are the same as those that are applied in computing the average indexed monthly earnings figure itself. Note that these variables may contain a number of zero amounts, which signifies that the individual thus far had positive earnings for fewer than the number of computation years. Also, this entire set of 20 variables is set equal to zero if the individual reached age 62 before 1979, in which case the monthly earnings were figured using unindexed earnings rather than indexed earnings.

To illustrate the updating process, suppose that we obtain a 1992 earnings figure from the household survey, and we want to see how this affects the AIME. First, the earnings amount is indexed to age 60 or 1992, as appropriate. Then the indexed amount is compared to the low year in the average (the figure in variable 51). If the new amount is less, then the 1992 earnings do not affect the AIME. If it is greater, then the difference, divided by 35 (or the number of computation years), is added to the AIME (variable 5). This is equivalent to substituting the 1992 figure for the low indexed amount in the average. For additional years of earnings after 1992, the process is repeated. The fact that the 20 lowest indexed earnings years are reported implies that, based on future observed earnings in the household survey, the AIME figure can be updated at least through the year 2011.

Next comes estimated primary insurance amounts (PIA), reported in variables 6-8. The PIA in variable 6 is based on earnings though 1991 and the AIME reported in variable 5. If the individual was 62 or older in 1991, the amount in variable 7 is the same as in variable 6. Otherwise, the PIA in variable 7 is based on projected earnings through age 61, with the projection method discussed later in this section. Variable 8 is similar to variable 7, except that earnings are projected through the year immediately before the normal retirement age. In calculating variable 8, it is assumed that the individual applies for benefits at the normal retirement age.

The PIA calculation is done by the ANYPIA program. The formula applied to the AIME figure is

determined by the year the individual attains 62. ²³ Those individuals who turn age 62 in or after 1978 have their PIA calculated using an AIME that depends on the year they turn 62 (variable 5). For instance, the formula for individuals who turn 62 in 1986 is 90% of the first \$297 of average indexed monthly earnings, 32% of the next \$1493, and 15% of anything beyond that. These "bend points" are indexed to the national average annual wage level, but there are always just three segments in the formula. As before, this formula gives the primary insurance amount for the year the individual turns 62, and the resulting amount is indexed upward every year by the cost of living index.

For individuals who attain 62 in or before 1992, the bend points are known (e.g. SSA 1995, Table 2.A.11), and the PIA indexed to 1992 is reported in variable 6. For individuals who attain 62 after 1992, the AIME is indexed to age 60 (if necessary) and the bend points are indexed to age 62, both using the increases in the national average annual wage index projected by the Social Security Administration. The PIA is calculated using the projected formula applied to the projected average indexed earnings, giving a PIA value that would apply to the year the individual turned 62. The resulting amount is then deflated to 1992 using the projected increases in the consumer price index. This gives the value of the primary insurance amount in 1992 dollars and is thus comparable to the amounts calculated for individuals who reach 62 in or before 1992. The assumptions used to forecast the national average annual wage and the consumer price index are the "intermediate" assumptions offered by the Office of the Actuary of the Social Security Administration and are reported in Table 4.²⁴

See Table 4 - Wage and Inflation Projections

As mentioned before, the primary insurance amount in variable 6 is calculated solely on the basis of the earnings in years up to and including 1991 (with zeros filled in to age 62 as necessary). The amounts in variables

²³Special rules apply if the individual turned 62 before 1979 (see SSA, various years). What is reported in variable 6 is the primary insurance amount as of 1992, reflecting the cost of living increases since the individual first became eligible.

²⁴ The consumer price index is the CPI-W, or the index for urban wage earners and clerical workers.

7 and 8 project future earnings up to the year before the retirement age (early for variable 7 and normal for variable 8) in cases where the individual was under that age in 1991. The method of projecting these future earnings adopted for the present purposes is to compute for each HRS respondent a weighted average of his or her own recent earnings and to project these earnings into future years.

More specifically, earnings in the five-year period 1987-1991 are indexed to 1991 levels using the National Average Wage Index of the Social Security Administration. The indexed wages are then averaged, with the 1987 through 1991 single-year earnings given weights of 1, 2, 3, 4, and 5, respectively. This procedure thus places more weight on more recent earnings. This weighted average is then indexed upward to each year up to and including the year before the individual reaches the early (for variable 7) or normal (for variable 8) retirement age, using the National Average Wage Index found in Table 4. The resulting wage series is then used to calculate a primary insurance amount in exactly the same way as before, and the resulting values appear as variables 7 and 8.

This procedure gives reasonable results for individuals with a steady work history who are planning to work at least until age 62. However, data users must be alert to the fact that there are several cases where it may not give good results. For instance, if a woman has an intermittent work history, her earnings in the last five years may give only a very noisy indication as to her work intentions for the future years. In such a case, it is probably difficult to produce an algorithm which will give accurate projections of the course of her future earnings. Another case where the algorithm is susceptible to error is if the individual has recently retired within the last year or two. The trouble here is that it is difficult to know whether the fact that there are no earnings in the last year or two signifies a permanent retirement or a temporary interruption of employment. Thus, users are cautioned that particularly for respondents with intermittent work histories and individuals who may have recently retired, the projected primary insurance amount and the projected social security wealth variables should be regarded as being subject to substantial potential errors.

D. Computed Social Security Wealth Variables

As described above, we have computed social security wealth several different ways for the EBF dataset.

Our intention was to make these variables as comparable as possible, in conceptual terms, to the other measures of wealth reported in the HRS.

Three versions of social security wealth appear in the EBF. The first (variable 9) is the expected present value of benefits already accrued by the respondent, based on his covered earnings up to and including 1991. (This computation assumes the person would have no covered earnings between 1992 and the year he turns age 62; a zero is entered if the person would not be eligible for benefits based on this work record). The second and third wealth variables (positions 16 and 23) represent the expected present value of benefits based on a respondent's projected earnings if he/she was younger than age 62 at the time of the survey, up to the year before attaining the early or normal retirement age. These projections, described in the previous section, are carried out for all individuals and for both spouses of a married couple (with caveats to be explained below). In the case of a married couple, if one spouse was at or over the retirement age and the other was under it, the projection is done only for the spouse who was under the retirement age, and the full earnings through 1991 are used for the older spouse.

Social security wealth calculations depend on a number of assumptions. One set of assumptions has to do with mortality, since the calculation multiplies the expected benefit each year times the probability that the individual will live to collect it. In the next section we discuss the specific mortality tables used in creating the EBF file. In all cases, social security wealth calculations are discounted back to the respondent's age in 1992, taking into account the conditional survival probability of the person living to that future age, given his/her current age. Another set of assumptions has to do with the expected future paths of wages, prices and interest rates. Needless to say, there are differing opinions of the likely future course of these variables, but we have chosen to evaluate the social security wealth on the basis of the "intermediate" assumptions supplied by the Board of Trustees of the Federal Old-Age and Survivors Insurance and Disability Insurance Trust Funds (Board of Trustees 1995, p. 56).²⁵

²⁵ The 1995 report was the latest year available at the time that these wealth variables were calculated.

The wealth calculations were handled as follows. For each nonmarried respondent, we consider each year beginning with the year 1992. For each member of a married couple, benefits are computed for each spouse separately; here we consider each year beginning with either age 60 (which is the youngest age a married individual could collect surviving spouse benefits) or the year 1992, whichever is later. For married persons, two calculations are undertaken, depending on whether the partner is or is not projected to be still living; we weight each calculation by the probabilities (as calculated from the mortality tables) that the individual is still living and the partner is either living or not, respectively. For every year in which the spouse is still living, the approach was to first ask whether that spouse is age 62 or older. If he or she was under 62 years old, that individual may only receive benefits based on his or her own earnings record. If the spouse is 62 years old or older, then we compared the benefits the retiring individual could receive on the basis of his or her own earnings with the amount that he or she could receive as a spouse based on the spouse's earnings. The individual would then be assigned the higher benefit amount. ²⁶

To determine the benefits that would be available on the basis of a respondent's own earnings history, the PIA in nominal dollars is calculated by the ANYPIA program on the basis of the earnings history. For persons older than the retirement age in 1992, we assume that they became entitled (that is, they were eligible and applied to receive benefits) in the first year that at least some benefits would have been received, but in no case later than the normal retirement age that would apply to their birth cohort. For individuals younger than the retirement age, we assume that they will first become entitled at the early retirement age of 62 (for variables 9 and 16), and at the normal retirement age (for variable 23), assuming they have sufficient quarters of coverage to be entitled to receive benefits. ²⁷ The benefit amount is then the product of the primary insurance amount times

²⁶ In generating variables 16 and 23, the individual is assumed to begin collecting benefits when he or she first applies for social security benefits. This is held to be the early retirement age for variable 16 and the normal retirement age for variable 23. In addition, the individual cannot collect spouse benefits until the spouse has applied as well, in accordance with the rules (Myers 1993).

²⁷ If a respondent was not entitled to social security benefits based on his own work record as of his age in 1992 his social security wealth benefit variable 10 would be set to zero; similarly for benefits based on work until age 62 (in which case variable 17 would be set to zero), and until the normal retirement age (and variable 24 would be

any reduction or augmentation factor that depends on the personÕs age of retirement. ²⁸

In addition to benefits to which a respondent might be entitled on his or her own record, a married respondent might also be entitled to benefits as a spouse of a retired worker. Where possible, the EBF file reports these spouse benefits, calculated based on the other partner's earnings record as of the previous year by the ANYPIA program for married couples.²⁹ The basic spouse benefit is 50% of the husband's (or wife's, as relevant) PIA. A reduction factor is then applied which is determined by when the individual would have first started collecting spouse benefits. The reduction factor, calculated monthly, totals 8.33 percentage points for each year before age 65 that the individual first collects spouse benefits; that is, the benefit is reduced by 25/36 of one percent multiplied by the number of months preceding age 65. This reduction factor is scheduled to be modified when the normal retirement age increases from its present level of 65. The spouse benefit is then 50% of the partner's PIA multiplied by the spouse reduction factor.³⁰ For married respondents, therefore, the EBF reports a total benefit due the individual as *either* the benefit based on his/her own earnings record, or the spouse benefit are classified in the EBF as spouse benefits or survivor benefits as relevant; increasing numbers of women are dually entitled

zero).

²⁸ Normally, the benefit would be subject to the earnings test which may reduce benefits for those continuing to earn after receipt of benefits. The potential benefit may also be increased because of the delayed retirement credit if the individual has worked after the normal retirement age and lost some benefits to the earnings test. The earnings test does not apply after 70 years of age. Here, earnings are imputed only before 1992 or if the individual is under the retirement age; benefits are calculated only on or after 1992 and if the individual is above the retirement age. As a result the wealth program assumes no earnings in years after the individual becomes eligible for that benefit.

²⁹The data user should understand that there are some cases where spouse benefits for HRS respondents married at the time of the 1992 survey could not be computed based on the married parties' earnings records; see Section F for hot deck and missing data cases.

³⁰ In reality this benefit would be subject to earnings tests, both one based on the individual's own work and also one based on the work of the partner (since the individual cannot collect benefits in any month the partner does not also collect benefits). However, the wealth program assumes no work past the retirement age as indicated in the previous footnote.

over time).

If the worker is deceased, a widow/er may be eligible both for survivor benefits based on the earnings record of the deceased and for retired-worker benefits based on his or her own record. If the widow(er) is entitled to both, he or she is dually entitled and receives a full benefit based on his or her own record plus a partial benefit based on the deceased spouse's record. The amount of the partial benefit is the difference between the widow/er's own retired-worker benefit and the amount to which he or she is entitled as a widow/er. Because the benefit amount received in this case is equal to the higher, surviving spouse benefit, the variable is identified in Appendix A as the "surviving spouse benefit". The calculations based on the individual's own benefits are exactly the same as in the previous situation.

Unlike other social security retirement benefits, surviving spouse benefits may begin as early as age 60. For the surviving spouse calculations (variables 12, 19, and 25), there is an additional problem: these benefits may depend on when the partner died. Hence, a separate calculation is made for each possible year of death between 1992 and the year immediately before the year for which the benefits are being calculated, and the weights on the calculated amounts are proportional to the partner's mortality probability in the successive years.

For each possible year in which the retired-worker partner could have died, the calculations require several steps. First, the worker's PIA is calculated based on his/her earnings record up to the year immediately prior to death. Note that if the age at death was younger than 62, these calculations differ from the regular old-age calculations because there are fewer years in the calculation of average indexed monthly earnings. Next, if the worker was eligible for any delayed retirement credits, these are added to the primary insurance amount. If the worker died before the spouse turned 65, the PIA is subject to a reduction of 5.7% (not 5.7 percentage points) for each year the spouse collects survivor benefits before age 65. Again, the calculation of this reduction is modified when the normal retirement age rises above its current value of 65. Finally, if the spouse had applied

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³¹ Variable 9 assumes no projected earnings, and the widow/er applies for benefits at age 60 (or immediately, if she/he is older than age 60). For variables 16 and 23 the widow/er is assumed to continue his/her employment status until, respectively, the early or the normal retirement age, before applying for these benefits.

for benefits, the surviving spouse benefit would be subject to a limitation that it should not be any larger than the amount payable to the worker had he/she still been alive (as long as this restriction does not lower the benefit below 82.5% of the worker's primary insurance amount).

In overview, then, for every year that a member of a married couple could collect benefits, the person is modeled as receiving either (a) benefits based on his or her own earnings record or spouse benefits (conditional on the partner being alive), or (b) benefits based on his or her own earnings record or surviving spouse benefits (conditional on the partner being deceased). As noted, those modeled as dually entitled are shown as spouse or survivor beneficiaries. Data for the partner are computed similarly. Finally, the amounts are weighted by the probabilities that the two partners will be individually and/or jointly alive, and the amounts of the two partners are added. These calculations are carried out in nominal terms of the year the benefits are to be collected, and projected using the "intermediate" assumptions regarding wage growth and consumer price index growth.

To form a wealth measure, future benefits are discounted according to the interest rate in the set of "intermediate" assumptions (Table 4), and the discounted amounts summed for all the years that either member of the couple might collect benefits. The wealth measure for unmarried individuals is similar, except that there is no partner, no spouse benefit, and no surviving spouse benefit. The wealth is simply the discounted value of the future benefits based on the individual's own earnings history. All values are reported as of the respondent's current age in 1992, discounted using conditional survival probabilities based on the respondent's current age.

In the case of married couples, there are additional components for each of these social security wealth variables (variables 10-15, 17-22, and 24-29; these variables are set to zero for nonmarried respondents). One set

³² If an individual was not eligible for own retirement benefits, his/her own worker benefits would be set to zero. In a married couple, if either spouse was receiving DI in 1991, the wealth variables for both spouses are set to -9 and the AIME and PIA are set to zero. If either partner would be projected to be eligible for benefits by the early or normal retirement age, the relevant wealth variables is positive.

³³ As noted, this will probably underestimate wealth for potentially three-quarters of the currently widowed women, and some unknown fraction of divorced women, inasmuch as we do not have their former spouse's earnings records.

of variables represents the expected present value of components of social security wealth that the respondent could collect, and others represent the expected present value of components that his or her spouse could collect. Each set of three is comprised of (a) benefits that the individual could collect on his/her own earnings record, (b) spouse benefits that the individual could collect on the basis of the partner's record, and (c) surviving spouse benefits that the individual could collect on the basis of the partner's record if that partner died.

For example, if the wife has a PIA substantially greater than twice her husband's, and if she is younger than her husband, then it is likely that variables 10, 13, 14, and 15 in her record would have positive amounts, and variables 11 and 12 would contain zeros. This is because she will collect benefits on her own account but never on her husband's account, while the husband will be dually entitled with the larger amounts received as spouse benefits and surviving spouse benefits rather than benefits based on his own account. However, since the older husband reaches retirement age before she does, he will collect benefits for a few years on his own account until she applies and he is able to collect spouse benefits. The same figures will appear on the husband's record, but the pairs of three variables will be reversed. That is, variables 10-12 will refer to benefits he is expected to collect, and variables 13-15 will refer to variables she is expected to collect.

These component quantities can be combined in different ways for different purposes. For example, if the interest is in an individual's lifetime retirement benefits, then the appropriate combination would be the sum of variables 10-12 (or alternatively variables 17-19 or 24-26). This will give the total expected value of the social security benefits that that individual is expected to collect. Alternatively, if a researcher were instead interested in retirement incentives, then variable 10 should be combined with variables 14 and 15 to give the total expected benefits based on the individual's own earnings history, assuming no change in spouse labor force behavior.

The EBF data user must be aware that in a minority of cases, the social security wealth variables computed for the EBF file are subject to potentially severe measurement problems. Two instances involve individuals who

³⁴Depending on whether the individual gives full weight to benefits that the spouse will collect after the death of the individual, the researcher may want to alter the relative weights of variable 15 and perhaps variable 14 in the sum.

were single at the time of the HRS survey but who were previously married. For such individuals, the social security wealth just described is necessarily based on their own earnings records in the EBF. However, if the individual is a widow or widower, his or her actual social security benefits might in reality be higher if they are computed based on the deceased spouse's record. ³⁵ Alternatively, if the individual had been divorced from a marriage that lasted for 10 or more years, the individual might be eligible for benefits based on the former spouse's earnings record. In neither case were the relevant records for deceased or divorced spouses obtained from the Social Security Administration. In fact, until someone files for benefits, the Social Security Administration does not necessarily know that any two people are linked.

A different measurement problem arises for persons married in 1992 who might divorce, in that spouseÕs benefits are only payable to married persons who had been married at least 10 years by the time of the divorce. Our computations for elements of social security wealth available to members of a couple assuming that they remain married at least 10 years.

Eventually, it will be possible to fine-tune these wealth measures for divorced and widowed individuals once they begin collecting benefits; for now the best that can be done is to calculate the wealth based on the respondent's own record and to note there may be understatement of benefits for widows or widowers and for divorced women who previously were married for a decade or more. ³⁶

E. Mortality Data

The mortality data used in calculating the wealth variables are taken from the Social Security Administration's actuarial projections. ³⁷ These projections contain, among other things, the estimated probability

³⁵ As noted earlier, three-quarters of aged widows with benefits received survivor benefits based on their deceased husbands' earnings records (unpublished SSA estimate).

³⁶ Widows age 60-61 who were already receiving benefits in the HRS are handled like other widows in the survey, namely their social security wealth was calculated on the basis of their own earnings even if they are already receiving benefits as widows.

³⁷ Felicitie Bell in the SSA's Office of the Actuary kindly supplied these data. A comparison of the SSA data with the 1990 Vital Statistics figures (Table 5) suggests that the lower survival rates in the Vital Statistics tables would have resulted in lower social security wealth figures than those reported here.

of survival, by sex, for each year of age up to 120 and for each birth cohort from 1900 to 1980; this time span includes all cohorts of interest for purposes of the HRS.

Summary statistics from these mortality data, reported in Table 5, indicate very strong trends in increasing life expectancy over time. The most dramatic increases in life expectancy are those at birth, but a large part of this increase comes from reduced infant mortality, which is clearly not relevant for the HRS respondents. Even so, there are projected to be non-trivial increases in life expectancy at age 25 and, perhaps more importantly, at age 65, and it is clear that the percentage of individuals living to very old ages (age 85 or 100) is going to grow very rapidly in the coming years, given recent mortality trends.

See Table 5 - Mortality Rates by Cohort

The EBF user should be aware that these mortality statistics, and the social security wealth variables calculated from them, are population averages by sex and birth cohort. These mortality data are not available separately by race, and they also do not reflect any individual differences which might make individuals perceive their own mortality probabilities to be either higher or lower. Vital Statistics mortality probabilities are calculated separately by race, but they are not projected into the future, and they are only available to age 85. Given the increasing percentage of the population, particularly women, who survive past 85, this last limitation is a matter of concern.

Our decision to employ mortality statistics furnished by the Social Security Administration is therefore a compromise. Neither these figures nor those supplied by Vital Statistics reflect all the variables observable by individuals that might plausibly affect individuals' estimates of their own mortality probabilities. Among such factors are peoples' current health status including the presence and severity of disease, family income levels, and whether they participate in any activities or occupations which elevate the mortality risk. The construction of such individual-specific mortality tables would be a research program in itself, not one which we undertake here. Hence it should be understood that the social security wealth variables reported in the EBF are approximations.

Users exploring differences in social security wealth arising from mortality probabilities that differ according to factors other than age and sex should derive their own social security wealth variables.

F. Hot Deck Procedures

The social security variables just described are calculated for each 1992 HRS respondent for whom the HRS received an earnings record from the Social Security Administration. That is, there is a one-to-one correspondence between respondents' records in the EBF, and the earnings summary file supplied by the SSA to the Health and Retirement Survey. All of the variables except the couple's social security wealth amounts can be calculated from the respondent's own earnings record, and it does not matter whether the record for the spouse is present, or for that matter even whether the individual has a spouse.

The situation is different for a married coupleÕs social security wealth variables, since in this case it is necessary to have a record for the spouse as well. For some 1356 out of 4077 married HRS sample couples, the social security file contains a record for one spouse but not for the other. ³⁸ This could have occurred either because the spouse did not grant permission to access the earnings record, or because a valid match to the earnings record could not be found at the Social Security Administration. In these cases, for the missing spouse record, we substituted an actual earnings record from another respondent with the same sex and similar levels of earnings and labor force attachment. ³⁹ This procedure is known as "hot-decking" in the survey literature. We emphasize that in such cases, there is only one record in the summary social security variables file; we did not create a record for the "hot-decked" or missing spouse's earnings history. Rather, this hot deck record was used only to impute the family social security wealth variables for the respondent for whom we did receive a social

³⁸ Some of those without an earnings record had never worked for pay in covered employment. Of the 1356 spouses without social security records for instance, 614 were women.

³⁹ If there were no records which matched exactly the five categories, adjacent cells were searched until a match was found. Adjacent earnings cells were searched first, followed by adjacent age cells and adjacent experience cells. In no case was it necessary to vary earnings, age, and experience by more than one category to find a match. Also, in no case was male record substituted for a female or vice versa, or a record for someone not working in 1992 substituted for someone working or vice versa.

security earnings record. (It will be recalled that respondents surveyed by the HRS, who were outside the HRS age range of 51-61 in 1992, appear in the HRS by virtue of being married to age-eligible spouses. The EBF contains records only for age-eligible respondents, as noted above, though family social security wealth computations include benefit estimates for age-ineligible spouses).

For the hot deck procedure, we relied on all the earning records received from the Social Security Administration. Each non-missing record was assigned to a single cell in a five-way classification table, based on the information the respondent gave in the household survey. The table was chosen to reflect the five variables that we believed were closely associated with different levels of average monthly earnings and, therefore, potential benefit amounts. These five variables are: sex (male or female), work status at the time of the 1992 interview (working or not working), 12 categories of age in 1992, 26 categories of annual earnings, and 6 categories of observed work experience. ⁴⁰ For individuals who were working at the time of the 1992 interview, annual earnings are taken as the reported earnings for the calendar year 1991, while if the individual was not working at the time of the 1992 interview, annual earnings are calculated from the wage (which could be given as an amount per hour, per week, per month, or annual) in the last job. Total observed experience is the sum of the tenures in the current job in 1992 (if employed at the time), the last job (if not employed at the time), and up to three previous jobs that lasted for more than 5 years. ⁴¹

The rationale for the earnings and experience variables is fairly clear: since the average monthly earnings figure in the social security calculations depends on the average earnings and the number of years the individuals have been in covered employment, it is important to take this information into account when matching. Age is

⁴⁰ The age categories used were five years in width for ages between 25 and 74. Individuals 24 years old and younger were grouped into a single category, as were people 75 years and older. The earnings categories are \$2,000 wide between \$0 and \$24,000, \$3,000 wide up to \$42,000, \$4,000 wide up to \$50,000, \$5,000 wide up to \$60,000 and \$10,000 wide up to \$100,000. Earnings over \$100,000 were grouped into a single cell, since this is considerably above the social security taxable maximum. The experience categories are 0-5, 6-10, 11-20, 21-30, 31-40, and 41+ years.

⁴¹ The HRS did not ask respondents directly about the total number of years they had been employed in all jobs, so experience must be proxied by the total experience in jobs reported in the survey.

important in considering whether a given number of years of experience represents a large or moderate percentage of the number of years of eventual experience when the individual retires. Also, sex is important if it is likely that participation patterns vary considerably between men and women, even for those with similar earnings. Finally, it probably makes a considerable difference, especially for the projected wealth variable, whether the individual is or is not currently working. The projected earnings of a married women who has worked in the past but who is not currently working may well be quite different from those of a married women with a same average earnings but who is continuing to work.

Having grouped all available earnings records into this five-way table, the records were then randomized within each cell of the table. Since there are 7,488 potential cells in the table, and we have 8,394 earnings records, each cell has on average a little more than one record. Then, when we have an individual with a social security earnings record but no matched record for the spouse, we select a "donor" HRS household file to construct the gender, 1992 work status, wage, and experience variables for the spouse, and use a randomly chosen record from the same age-gender-work status-wage-experience cell to represent the spouse's missing record. When necessary, the wage, experience, and/or age cells are broadened until a match is found. Again, this matched record is used only to construct measures of family social security wealth for those individuals for whom we do have an actual earnings record.

III. Conclusion

Researchers using the Health and Retirement Survey require information on earnings, labor market attachment, and social security benefits, in order to better understand the factors affecting both the retirement decision and well-being in old age. It is anticipated that analysts will find the aggregated variables in the restricted Earnings and Benefits File to be of substantial use toward this end. It is expected that the average user will be able to use these created variables as they are; other analysts will desire to combine these variables along with their own algorithms to derive alternate outcomes.

The Earnings and Benefits File, along with full documentation and datafiles from the Health and

Retirement Survey, is a restricted file available from the University of Michigan's Institute for Survey Research under a series of limited data access conditions. It can be merged only with versions of the HRS that contain no geographic detail below the Census Division level. Queries regarding the HRS and the EBF should be directed by e-mail to hrsquest@umich.edu.

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Construction of the Earnings and Benefits File (EBF) for Use With the Health and Retirement Survey

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Abstract

Analysts using the Health and Retirement Survey (HRS) often require information on earnings, labor market attachment, and social security benefits, in order to better understand the factors affecting retirement and well-being at older ages. To this end, several derived variables were constructed and documented in the Earnings and Benefits File (EBF) described here. The EBF provides a set of summary earnings, employment, and social security wealth measures for a subset of HRS respondents in Wave 1 of the survey, for whom administrative records are available.

The EBF, a restricted data file, is available from the University of Michigan's Institute for Social Research for matching with only with versions of the HRS containing geographic detail no finer than the Census Division level. Interested users should contact hrsquest@umich.edu by email for further information on access to the data.

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Table 1. Descriptive Statistic	s on EBF (Covered Employmen	t Variables
I Fraction of years by doesd	<u>Mean</u> o with zoro	Std. Dev.	(04)
1. Flaction of years by decau Married Man	e with zero	reported earnings	(70)
$\Delta ge 20-29$	15/13	24.80	
Age 30-39	10.45	24.80	
Age $10-19$	12.10	27.63	
Age 50-59	12.44	27.05	
Married Women	12.00	23.00	
Age 20-29	52.44	33.12	
Age 30-39	52.96	37.61	
Age 40-49	39.42	39.85	
Age 50-59	28.68	34.60	
Nonmarried men			
Age 20-29	15.62	24.99	
Age 30-39	13.91	27.58	
Age 40-49	20.88	33.14	
Age 50-59	20.53	32.14	
Nonmarried women			
Age 20-29	47.67	34.71	
Age 30-39	39.95	37.41	
Age 40-49	29.30	37.39	
Age 50-59	20.33	31.29	
II. Work in Covered Employ	ment		
Married Men			
Total QC's (#)	125.00	34.90	
QC 1982-83(#)	7.40	2.73	
QC 1984-85(#)	6.90	2.78	
QC 1986-87(#)	6.71	2.78	
QC 1988-89(#)	6.69	2.79	
QC 1990-91(#)	6.60	32.85	
Yrs. Cov. Employment			
Age 20-50	26.20	6.37	
Married Women			
Total QC's (#)	71.65	41.88	
OC 1982-83(#)	4.50	3.78	
QC 1984-85(#)	4.62	3.71	
QC 1986-87(#)	4.78	3.70	
QC 1988-89(#)	4.81	3.70	
QC 1990-91(#)	4.72	3.73	
Yrs. Cov. Employment			
Age 20-50	15.52	8.48	
Nonmarried Men			
Total QC's (#)	114.71	38.42	

QC 1982-83(#)	5.83	3.32
QC 1984-85(#)	5.90	3.36
QC 1986-87(#)	5.90	3.29
QC 1988-89(#)	5.79	3.37
QC 1990-91(#)	5.75	3.38
Yrs. Cov. Employment		
Age 20-50	24.96	6.95

Table 1 (cont.)		
	Mean	Std. Dev.
Nonmarried Women		
Total QC's (#)	85.11	44.43
QC 1982-83(#)	5.40	3.55
QC 1984-85(#)	5.48	3.49
QC 1986-87(#)	5.64	3.46
QC 1988-89(#)	5.76	3.38
QC 1990-91(#)	5.74	3.41
Yrs. Cov. Employment		
Age 20-50	18.31	8.67
C Disability Insured	as of 12/91 (%)	
Married Mar	01	
Married Men	84	
Married Women	59	
Nonmarried Men	75	
Nonmarried Women	72	

Note: Number of observations reported as Sample 2 in Appendix D. All tabulations weighted by HRS sample weights.

Table 2. Descriptive Statistics on Earnings Variables in the EBF							
-	Mean						
I. Average Annual Real	Taxable Earn	ings by Decade of Life	(\$)				
Married Men							
Age 20-29	14544	5974					
Age 30-39	23929	9280					
Age 40-49	28823	14095					
Age 50-59	27692	18084					
Married Women							
Age 20-29	6566	5412					
Age 30-39	7407	7625					
Age 40-49	10484	10145					
Age 50-59	10578	12170					
Nonmarried Men							
Age 20-29	12551	6334					
Age 30-39	20538	10282					
Age 40-49	22070	14755					
Age 50-59	20476	17869					
Nonmarried Women							
Age 20-29	6450	5556					
Age 30-39	9613	8532					
Age 40-49	13511	11491					
Age 50-59	14692	13639					
II Average Indexed Monthly Farnings (\$)							
Married Men	1992	858					
Married Women	641	585					
Nonmarried Men	1567	895					
Nonmarried Women	838	703					

Note: Number of observations reported as Sample 2 in Appendix D. In Panel I earnings are included only up to the Social Security taxable maximum earnings and averages computed only over those with at least one nonzero earnings year using years over which there were positive earnings. For the group age 50-59, average earnings are computed only over relevant years. In Panel II zero years of earnings are included in AIME formula as relevant; see text.

Table 3. Descriptive Statistics on Social Sector	urity Variables in the EBF	
Maan	Std Dev	

	Mean	Std. Dev.
I. Respondent's Average Primary	Insurance Amoun	t (1992\$)
Married Men		
Based on		
Earnings through 1991	808	277
Earnings to early ret. age	866	295
Earnings to normal ret. age	882	304
Married Women		
Based on		
Earnings through 1991	337	268
Earnings to early ret. age	396	298
Earnings to normal ret. age	423	316
Nonmarried Men		
Based on		
Based on earnings through 1991	677	306
Earnings to early ret. age	732	335
Earnings to normal ret. age	754	347
Nonmarried Women		
Based on		
Based on earnings through 1991	419	291
Earnings to early ret. age	487	320
Earnings to normal ret. age	518	337
II. Social Security Wealth Forecas	sts (Present value.	1992\$)
Married Men (Couple's benefits)	(,	
As of 1992	148198	47263
As of early ret. age	161641	47559
As of normal ret. age	175457	50818
Married Women (Couple's benefit	s)	
As of 1992	161780	51001
As of early ret. age	170994	50003
As of normal ret. age	187650	55284
Nonmarried Men*		
Current	67777	31436
As of early ret. age	72942	33383
As of normal ret. age	75761	34643
Nonmarried Women*		
As of 1992	50678	35826
As of early ret. age	58474	38265
As of normal ret. age	64644	41749

Table 3 (cont.)	Mean	Std. Dev.
B. Components of Social Security	Wealth For	ecasts for Married Couples
(Present value, 1992\$)		-
Married Men		
Based on Earnings Through 1991		
Respondent's own	80804	30351
Respondent's spouse	486	3268
Respondent's surv. sps.	902	3197
Spouse's own	19258	26207
Spouse's spouse	14709	15776
Spouse's surv. sps.	32039	14602
Based on Earnings To Early Retir	ement Age	
Respondent's own	85832	31275
Respondent's spouse	646	3897
Respondent's surv. sps.	1383	3936
Spouse's own	26507	31511
Spouse's spouse	14197	16696
Spouse's surv. sps.	33077	16435
Based on Earnings To Normal Re	tirement Age	
Respondent's own	88808	32346
Respondent's spouse	729	4242
Respondent's surv. sps.	1852	5144
Spouse's own	27854	34906
Spouse's spouse	14923	17419
Spouse's surv. sps.	41291	21566
Married Women		
Based on Earnings Through 1991		
Respondent's own	22535	28754
Respondent's spouse	16344	16803
Respondent's surv. sps.	34719	17723
Spouse's own	86565	33902
Spouse's spouse	682	3896
Spouse's surv. sps.	936	3033
Based on Earnings To Early Retir	ement Age	
Respondent's own	27373	32588
Respondent's spouse	15941	17513
Respondent's surv. sps.	35757	18372
Spouse's own	89923	33693
Spouse's spouse	778	4311
Spouse's surv. sps.	1220	3626
Based on Earnings To Normal Re	tirement Age	
Respondent's own	28613	35933
Respondent's spouse	16931	18194
Respondent's surv. sps.	43451	22374
Spouse's own	96150	37963
Spouse's spouse	785	4276

Spouse's surv. sps.

1721

4914

Note: Number of observations reported as Sample 3 in Appendix D. *Wealth values for nonmarried persons are based on respondent's own earnings records, and underestimate benefits available as survivors (for widows/ers) and divorced spouses (if the marriage lasted 10 years prior to divorce); see text.

	Projected Annual Changes in				
	Average Annual	Consumer			
	Wage in Covered	Price			
Year	Employment	Index			
1993	1.3%	2.8			
1994	3.5	2.5			
1995	4.0	3.1			
1996	4.1	3.2			
1997	4.3	3.3			
1998	4.1	3.4			
1999	4.2	3.5			
2000	4.5	3.7			
2001	4.7	3.9			
2002	4.8	4.0			
2003	4.9	4.0			
2004-2010	5.1	4.0			
2011+	5.0	4.0			

Table 4. Wage and Inflation Projections

Source: Board of Trustees (1995), Table II. D1.

Table 5. Longevity Patterns Over Time

	Birth Cohort								
	1900	<u>1910</u>	<u>1920</u>	<u>1930</u>	<u>1940</u>	<u>1950</u>	<u>1960</u>	<u>1970</u>	<u>1980</u>
Life Expectancies									
At birth: Men	52.0	56.7	62.3	66.6	69.7	72.3	73.4	74.8	76.2
Women	58.8	64.4	70.2	73.9	76.8	79.4	80.4	81.7	82.9
At age 25: Men	68.8	70.7	72.8	74.4	75.8	76.6	77.1	77.8	78.4
Women	75.1	77.8	79.5	80.6	81.6	82.5	83.2	83.8	84.4
At age 65: Men	79.0	79.8	80.8	81.4	81.9	82.3	82.8	83.2	83.6
Women	83.5	84.4	84.9	85.4	85.8	86.2	86.7	87.1	87.5
Survival Rates from									
Birth to 65: Men	46.7	52.4	60.2	66.8	72.2	75.6	77.1	79.0	80.7
Women	57.8	65.3	72.7	77.7	81.5	84.6	85.9	87.2	88.4
Birth to 85: Men	11.0	14.1	18.6	22.3	25.6	28.3	30.3	32.5	34.6
Women	25.5	31.3	36.7	40.5	43.8	47.0	49.1	51.2	53.1
Birth to 100:Men	0.2	0.3	0.5	0.7	1.0	1.3	1.7	2.0	2.5
Women	1.3	1.8	2.5	3.2	4.1	5.1	6.0	7.1	8.2

Source: Computed by authors using data supplied by the Office of the Actuary, Social Security Administration.

Variable <u>Number</u>	Beginning <u>Column</u>	Length	Variable Name_
1	1	5	Case ID
2	7	5	Spouse ID (=0 if no spouse,=999999 if no HRS data record for spouse)
3	13	5	Hot deck ID (=0 if not married or spouse has social security record, 99999 if spouse was not interviewed)
4	19	1	Disability insurance benefits code (=1 if in benefit receipt, $0 = else$)
5 ^a	21	5	Average indexed monthly earnings (\$)
6 ^a	27	5	Primary insurance amount, earnings to 1991(\$)
7 ^a	33	5	Projected primary insurance amount, earnings to age 62 (\$)
8 ^a	39	5	Projected primary insurance amount, earnings to NRA (\$)
9 ^b	45	6	Current individual or couple social security wealth (\$)
10 ^b	52	6	Respondent's own benefit (\$)
11 ^b	59	6	Respondent's spouse benefit (\$ including dual)
12 ^ь	66	6	Respondent's surviving spouse benefit (\$ including dual)
13 ^b	73	6	Spouse's own benefit (\$)
14 ^b	80	6	Spouse's spouse benefit (\$ including dual)
15 ^b	87	6	Spouse's surviving spouse benefit (\$ including dual)
16 ^b	94	6	Projected individual/couple social security wealth; age 62 (\$)
17 ^ь	101	6	Respondent's own benefit (\$)
18 ^b	108	6	Respondent's spouse benefit (\$ including dual)
19 ^b	115	6	Respondent's surviving spouse benefit (\$ including dual)
20 ^b	122	6	Spouse's own benefit (\$)
21 ^ь	129	6	Spouse's spouse benefit (\$ including dual)
22 ^b	136	6	Spouse's surviving spouse benefit (\$ including dual)
23 ^b	143	6	Projected individual/couple social security wealth; NRA (\$)
24 ^b	150	6	Respondent's own benefit (\$)
25 ^b	157	6	Respondent's spouse benefit (\$ including dual)
26 ^b	164	6	Respondent's surviving spouse benefit (\$ including dual)
27 ^b	171	6	Spouse's own benefit (\$)
28 ^b	178	6	Spouse's spouse benefit (\$ including dual)
29 ^b	185	6	Spouse's surviving spouse benefit (\$ including dual)
30	192	3	Total quarters of coverage (through 1991)
31	196	1	Social security disability insurance status in 1991 (=1 disability insured, 0 = not)

Appendix A: Variable List for the Earnings and Benefit File (EBF) See text for full description of all variables listed below.

32	198	1	Number of nonzero quarters of coverage 1982-83
33	200	1	Number of nonzero quarters of coverage 1984-85
34	202	1	Number of nonzero quarters of coverage 1986-87
35	204	1	Number of nonzero quarters of coverage 1988-89
36	206	1	Number of nonzero quarters of coverage 1990-91
37 °	208	6	Aver. taxable real earnings, age 20 through 29 (\$)
38 °	215	6	Aver. taxable real earnings, age 30 through 39 (\$)
39 °	222	6	Aver. taxable real earnings, age 40 through 49 (\$)
40 °	229	6	Aver. taxable real earnings, age 50 through 59 (\$)
41 ^c	236	6	Aver. taxable real earnings, age 60 through 69 (\$)
42 °	243	6	Aver. taxable real earnings, age 70 through 79 (\$)
43 °	250	6	Aver. taxable real earnings, age 80 through 89 (\$)
44 ^c	257	2	Zero earnings years, age 20 through 29
45 °	260	2	Zero earnings years, age 30 through 39
46 °	263	2	Zero earnings years, age 40 through 49
47 °	266	2	Zero earnings years, age 50 through 59
48 °	269	2	Zero earnings years, age 60 through 69
49 °	272	2	Zero earnings years, age 70 through 79
50 °	275	2	Zero earnings years, age 80 through 89
51 d	278	6	Lowest earnings year in AIME average
52 ^d	285	6	Next lowest earnings year in AIME average
53 d	292	6	Third lowest earnings year in AIME average
70 ^d	411	6	20th lowest earnings year in AIME average

Note: Respondents who declined permission to link HRS and administrative records have no EBF record; see text. Variables 5-8 rounded to nearest \$10 and variables 37-43 are rounded to nearest \$100. Variables 9-29 hotdecked as required; cf Sect. II.F.

^a Values based on respondent's own earnings record; equal to 0 if none, or -9 if worker (or spouse) receiving DI in 1991.

^b Includes earnings only to maximum social security taxable earnings. Equal to -9 if the respondent (or spouse) receiving DI in 1991. Equal to 0 if respondent not eligible for benefits or eligibility is unknown (e.g. for current widows). Equal to 0 for spouse benefits where spouse could not be interviewed in the HRS.

^c Excludes years before 1951 and after 1991.

^d Equal to -9 if respondent receiving DI.

Appendix B. Descriptive Linear Regression Models for Selected EBF Constructed Employment and **Earnings Variables**

(NB: Variable definitions appear in note at end of table)

Married Men (N=2186) I. Dep. Var. AIME

<u>1. Dep. val. 71</u>	Coef.	Std.	Err.	t	P> t		[95% Conf.	Inter	val]
age	162	.0102	210.1328		0.771	0.441	-250.	.073	574.0933
agesq	-1.26	56802	1.876826		-0.675	0.500	-4.947	7371	2.413767
educ	10.1	L4772	5.984941		1.696	0.090	-1.589	€108	21.88455
white	514	.0386	48.82037		10.529	0.000	418.2	2989	609.7783
numkids	.200	08707	8.857105		0.023	0.982	-17.16	5845	17.57019
walk2dv	70.8	36046	113.3773		0.625	0.532	-151.4	1792	293.2002
carrydv	352	.0026	88.42219		3.981	0.000	178.6	5014	525.4038
cancer	-16.5	56807	96.95156		-0.171	0.864	-206.6	5959	173.5598
stroknow	-230	.8241	199.3255		-1.158	0.247	-621.7	7135	160.0653
heartevr	-26.6	51319	48.92647		-0.544	0.587	-122.5	5609	69.33455
workpay	-201	.4448	163.3245		-1.233	0.218	-521.	.734	118.8444
annearn	3.51	L5241	.446399		7.875	0.000	2.639	9826	4.390657
hourswk	2	.2085	1.575573		1.402	0.161	881	L293	5.298293
jobten	4.00)4937	1.817856		2.203	0.028	.4400)129	7.569861
ntwth000	.112	20795	.0314269		3.566	0.000	.0504	1494	.1737096
numjobs5	31.0)4625	16.87751		1.840	0.066	-2.051	L552	64.14406
pension	256	.1111	48.75037		5.254	0.000	160.5	5087	351.7135
selfemp	-121	L.229	56.1719		-2.158	0.031	-231.3	3855	-11.07251
annage2	3.73	31618	2.056246		1.815	0.070	3008	3036	7.764041
weeksyr	2.1	L4291	3.0287		0.708	0.479	-3.796	5552	8.082373
cons	-466	7.447	5867.72		-0.795	0.426	-1617	74.4	6839.505
Adj R-squ	ared =	0.191	.4						
II. Dep. Var. I	PIANOW	_							

Ш.	Dep.	Var.	PIANOW	
	_			

II. Dep. var.	PIANOW									
	Coef.	Std.	Err.	t	₽> t		[95% (Conf.	Interv	al]
age	-32.	54948	69.52398		-0.468	0.640		-168.8	 8902	103.7912
agesg	.30	83792	.6209616		0.497	0.620		9093	3639	1.526122
educ	.9	51867	1.980161		0.481	0.631		-2.93	1348	4.835082
white	169	.7814	16.15258		10.511	0.000		138.1	1052	201.4576
numkids	1.0	12055	2.930438		0.345	0.730		-4.734	4709	6.75882
walk2dv	25.	30195	37.5117		0.675	0.500		-48.20	6076	98.86465
carrydv	102	.5761	29.25513		3.506	0.000		45.20	0501	159.9471
cancer	-3.3	70763	32.07713		-0.105	0.916		-66.2	7594	59.53442
stroknow	-118	.5516	65.94831		-1.798	0.072		-247.8	8802	10.77697
heartevr	-9.8	75619	16.18768		-0.610	0.542		-41.62	2063	21.86939
workpay	-62.	85508	54.0371		-1.163	0.245		-168.8	8251	43.11493
annearn	.88	88182	.1476944		6.018	0.000		.5991	1807	1.178456
hourswk	.85	01509	.5212897		1.631	0.103		1723	1296	1.872431
jobten	.74	03838	.6014508		1.231	0.218		4390	0973	1.919865
ntwth000	.03	17684	.0103978		3.055	0.002		.0113	3776	.0521591
numjobs5	13.	63573	5.584046		2.442	0.015		2.68	5079	24.58638
pension	83.	48613	16.12942		5.176	0.000		51.85	5538	115.1169
selfemp	-22.	17276	18.58488		-1.193	0.233		-58.63	1883	14.27331
annage2	1.9	93323	.6803239		2.930	0.003		.6591	1665	3.327479
weeksyr	.78	25226	1.002067		0.781	0.435		-1.182	2592	2.747637
cons	112	9.506	1941.378		0.582	0.561		-2677	.653	4936.665

Married Men (cont.) III. Dep Var PIAER

-	Coef.	Std.	Err.	t	P> t		[95% Conf.	Interva	al]
aqe	+ -103.	3762	73.13524		-1.413	0.158	-246.'	7988	40.04644
agesq	.846	51478	.653216		1.295	0.195	434	3481	2.127144
educ	2.4	4439	2.083016		1.173	0.241	-1.64	4053	6.529309
white	158.	6821	16.99158		9.339	0.000	125.3	3606	192.0037
numkids	201	.1117	3.082653		-0.065	0.948	-6.24	5379	5.844155
walk2dv	26.5	0877	39.46016		0.672	0.502	-50.8	7498	103.8925
carrydv	112.	3873	30.77471		3.652	0.000	52.03	3619	172.7383
cancer	-5.48	4903	33.7433		-0.163	0.871	-71.6	5755	60.68774
stroknow	-110.	0829	69.37384		-1.587	0.113	-246.2	1291	25.9634
heartevr	-11.3	80081	17.02851		-0.664	0.507	-44.6	9473	22.09312
workpay	-67.8	3552	56.84393		-1.193	0.233	-179.3	3099	43.63885
annearn	1.09	1606	.155366		7.026	0.000	.786	9243	1.396288
hourswk	1.18	6366	.5483669		2.163	0.031	.110	9856	2.261746
jobten	.701	.2654	.6326917		1.108	0.268	539	4812	1.942012
ntwth000	.031	6042	.0109379		2.889	0.004	.010	1543	.0530541
numjobs5	12.8	9811	5.874096		2.196	0.028	1.37	3649	24.41756
pension	83.7	0923	16.96722		4.934	0.000	50.43	3548	116.983
selfemp	-35.	3124	19.55023		-1.806	0.071	-73.6	5158	3.026781
annage2	2.10	3849	.7156618		2.940	0.003	.700	3935	3.507305
weeksyr	.945	2184	1.054117		0.897	0.370	-1.12	1969	3.012406
_cons	3418	8.651	2042.218		1.674	0.094	-586.2	2617	7423.564
Adj R-squ	ared =	0.180	0						

IV. Dep.Var. PIANR Coef. Std. Err. t P>|t| [95% Conf. Interval] age
agesq-182.1574.74326-2.4370.015-328.7261-35.57398agesq1.522968.66757832.2810.023.21380642.832129educ3.4442322.1288151.6180.106-.7305037.618967white147.657517.365188.5030.000113.6034181.7117 agesq 17.36518 3.150431 40.32777 numkids -.7899623 -0.251 0.802 -6.968147 5.388222 0.641 -53.23099 walk2dv 25.8542 0.522 104.9394 31.45136 34 /07 carrydv 117.5303 0.000 55.85232 179.2083 3.737 -4.778592 -72.40617 62.84899 -0.139 0.890 cancer 70.89916 -106.468 -1.502 -245.5055 stroknow 0.133 32.5695 heartevr -12.74492 17.40291 -0.732 0.464 -46.87308 21.38324 -195.683 -81.75767 58.09376 -1.407 0.159 32.1677 workpay .906957 .158782 annearn 1.218338 7.673 0.000 1.529719 2.374 hourswk 1.330471 0.018 .2314464 2.429496 .6466027 .6737857 1.042 2.841 -.5942412 0.298 1.941813 jobten .0098311 .7722257 ntwth000 .0317527 0.005 .0536742 numjobs5 12.54496 6.00325 2.090 0.037 24.31769 pension 84.91433 17.34028 4.897 0.000 50.909 118.9197 19.98008 -78.79636 -39.61422 -1.983 0.048 -.4320765 selfemp .7313971 2.872 .6665166 2.10083 0.004 3.535144 annage2 1.297082 -.8155573 weeksyr 1.077294 0.229 3.409721 5709.484 2087.12 2.736 0.006 1616.515 9802.453 _cons |

Adj R-squared = 0.1952

Married Men (cont.) V. Dep. Var. Worklt50

-	Coef. Std	. Err.	t P>	t	[95% Conf. Int	erval]
age	1.655217	1.629063	1.016	0.310	-1.539473	4.849907
agesq	0169917	.0145502	-1.168	0.243	0455255	.011542
educ	2043534	.0463985	-4.404	0.000	2953436	1133631
white	4.256968	.3784818	11.247	0.000	3.514743	4.999194
numkids	.0674527	.068665	0.982	0.326	0672036	.202109
walk2dv	0685121	.8789618	-0.078	0.938	-1.792209	1.655185
carrydv	1.274463	.6854964	1.859	0.063	0698367	2.618763
cancer	.0716281	.7516206	0.095	0.924	-1.402345	1.545601
stroknow	-1.681668	1.545279	-1.088	0.277	-4.712053	1.348717
heartevr	007997	.3793043	-0.021	0.983	7518355	.7358415
workpay	.7027019	1.266179	0.555	0.579	-1.780352	3.185756
annearn	.0024512	.0034607	0.708	0.479	0043355	.0092379
hourswk	.0158606	.0122147	1.298	0.194	0080931	.0398143
jobten	.0242441	.014093	1.720	0.086	0033931	.0518813
ntwth000	.000394	.0002436	1.617	0.106	0000838	.0008718
numjobs5	.4841964	.1308435	3.701	0.000	.2276044	.7407884
pension	.8633358	.3779391	2.284	0.022	.1221744	1.604497
selfemp	3605491	.4354748	-0.828	0.408	-1.214541	.4934432
annage2	.0773521	.0159411	4.852	0.000	.0460906	.1086136
weeksyr	0144786	.0234801	-0.617	0.538	0605245	.0315673
_cons	-22.60566	45.48972	-0.497	0.619	-111.8137	66.60241
Adi R-squa	ared = 0.1058	3				

AQJ K-Squateu - 0.1000

Married Women (N=2089) <u>I. Dep. Var. AIME</u>

	Coef.	Std.	Err.	t	P> t		[95% Conf. Int	erval]
	+		122 2124		0 0 2 0	0 249	125 101	
age	1 124.	7200	1 100007		0.939	0.340	-133.191	J 303.3749
agesq	9//	/382	1.18069/		-0.828	0.408	-3.29321	3 1.33//41
educ	15.8	1753	4.639884		3.409	0.001	6.71819	9 24.91686
white	-22.7	1313	32.21558		-0.705	0.481	-85.8914	7 40.46521
numkids	-18.	4554	5.318291		-3.470	0.001	-28.8851	5 -8.025634
walk2dv	83.6	5422	62.20458		1.345	0.179	-38.3359	205.6444
carrydv	17.4	8063	32.39892		0.540	0.590	-46.0572	5 81.01852
cancer	38.	1801	41.08699		0.929	0.353	-42.3960	7 118.7563
stroknow	-158.	4834	134.7127		-1.176	0.240	-422.670	1 105.7033
heartevr	25.3	7603	36.04533		0.704	0.482	-45.3128	9 96.06494
workpay	-495.	9378	88.6042		-5.597	0.000	-669.700	5 -322.1751
annearn	13.7	0094	.9093184		15.067	0.000	11.9176	7 15.48422
hourswk	3.87	0961	1.139838		3.396	0.001	1.63561	2 6.10631
jobten	9.30	7789	1.612379		5.773	0.000	6.14573	4 12.46984
ntwth000	.022	9028	.0187185		1.224	0.221	013806	2.0596117
numjobs5	119	.277	12.52695		9.522	0.000	94.7102	143.8438
pension	123.	3738	32.56853		3.788	0.000	59.503	3 187.2443
selfemp	-78.2	6161	43.25042		-1.809	0.071	-163.080	6.557294
annage2	-4.52	5376	1.231398		-3.675	0.000	-6.94028	5 -2.110467
weeksyr	6.32	8893	1.740316		3.637	0.000	2.91593	9.741847
_cons	-3458	.492	3691.62		-0.937	0.349	-10698.1	7 3781.187
Adj R-squ	ared =	0.344	8					

Married	Women	(cont.)
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IL	Den	Var	PIANOW
11.	DUU.	va.	ILANOW

-	Coef. S	Std.	Err.	t	P> t		[95% Conf. Inte	rval]
	+	 			0.246	0 7 2 0	120 0222	07 02607
age	-20./98	353	60.18//		-0.346	0.730	-138.8333	97.23627
agesq	.2345.	335	.53/494/		0.436	0.663	8195536	1.288621
educ	5.0334	198	2.112237		2.383	0.017	.8911651	9.17583
white	-5.3169	928	14.66565		-0.363	0.717	-34.07791	23.44406
numkids	-8.8203	378	2.421071		-3.643	0.000	-13.56837	-4.072386
walk2dv	40.647	768	28.31769		1.435	0.151	-14.88649	96.18184
carrydv	10.763	333	14.74912		0.730	0.466	-18.16133	39.688
cancer	25.044	107	18.70423		1.339	0.181	-11.63701	61.72516
stroknow	-58.864	173	61.32594		-0.960	0.337	-179.1317	61.40229
heartevr	83860	026	16.40909		-0.051	0.959	-33.01866	31.34146
workpay	-209.54	453	40.33572		-5.195	0.000	-288.6482	-130.4425
annearn	5.2309	994	.4139535		12.637	0.000	4.419185	6.042803
hourswk	1.6122	238	.5188938		3.107	0.002	.5946292	2.629847
jobten	3.8199	965	.7340112		5.204	0.000	2.380487	5.259443
ntwth000	.00410	014	.0085213		0.481	0.630	0126098	.0208126
numjobs5	65.600)49	5.702706		11.503	0.000	54.41684	76.78413
pension	56.673	376	14.82633		3.823	0.000	27.59768	85.74985
selfemp	-40.796	584	19.6891		-2.072	0.038	-79.40937	-2.184316
annage2	-2.1286	549	.5605754		-3.797	0.000	-3.228	-1.029298
weeksyr	3.7566	507	.7922526		4.742	0.000	2.202911	5.310303
_cons	660.40	077	1680.554		0.393	0.694	-2635.347	3956.162
Adj R-squa	ared = 0	.353	8					

III. Dep. Var	PIAER_											
	Coef. Std	. Err.	t P>	t	[95% Conf. Inte	erval]						
aqe	-47.25734	63.30749	-0.746	0.455	-171.4104	76.89572						
agesg	.3997041	.5653554	0.707	0.480	709021	1,508429						
educ	5.438073	2.221723	2.448	0.014	1.081025	9.79512						
white	-11.46381	15,42584	-0.743	0.457	-41.7156	18.78798						
numkids	-8.571915	2.546566	-3.366	0.001	-13.56602	-3.577814						
walk2dv	45.00403	29.78553	1.511	0.131	-13.40871	103.4168						
carrvdv	13.6341	15.51363	0.879	0.380	-16.78986	44.05806						
cancer	24.28951	19.67375	1.235	0.217	-14.29292	62.87194						
stroknow	-75.69336	64.50473	-1.173	0.241	-202.1943	50.80762						
heartevr	.0919847	17.25965	0.005	0.996	-33.75611	33.94008						
workpay	-205.3396	42.4265	-4.840	0.000	-288.5427	-122.1365						
annearn	6.691108	.4354105	15.367	0.000	5.837219	7.544997						
hourswk	1.973456	.5457904	3.616	0.000	.9031003	3.043812						
jobten	2.970664	.7720582	3.848	0.000	1.456571	4.484756						
ntwth000	.0058141	.008963	0.649	0.517	0117633	.0233916						
numjobs5	61.13551	5.998302	10.192	0.000	49.37217	72.89886						
pension	72.27498	15.59484	4.635	0.000	41.69175	102.8582						
selfemp	-54.99805	20.70967	-2.656	0.008	-95.61203	-14.38406						
annage2	-2.082421	.5896325	-3.532	0.000	-3.238756	9260857						
weeksyr	4.257598	.8333186	5.109	0.000	2.623367	5.891829						
_cons	1630.228	1767.665	0.922	0.357	-1836.36	5096.815						
Adj R-squa	ared = 0.4232	L										

Married Women (cont.) IV. Dep. Var PIANR

	Coef. S	Std.	Err.	t	P> t		[95% Conf. Inte	erval]
aqe	-105.43	333	66.13624		-1.594	0.111	-235.1338	24.26729
agesq	.90429	969	.5906169		1.531	0.126	2539689	2.062563
educ	5.4370	022	2.320996		2.343	0.019	.8852901	9.988755
white	-8.5496	598	16.11511		-0.531	0.596	-40.15322	23.05383
numkids	-6.3892	294	2.660353		-2.402	0.016	-11.60654	-1.172044
walk2dv	45.148	891	31.11642		1.451	0.147	-15.87387	106.1717
carrydv	17.013	376	16.20682		1.050	0.294	-14.76962	48.79714
cancer	25.28	588	20.55283		1.230	0.219	-15.02051	65.59227
stroknow	-82.29	102	67.38697		-1.221	0.222	-214.4444	49.86236
heartevr	.09923	364	18.03085		0.006	0.996	-35.26128	35.45975
workpay	-205.50	064	44.32223		-4.637	0.000	-292.4273	-118.5856
annearn	7.404	149	.4548658		16.278	0.000	6.512107	8.296192
hourswk	2.0628	817	.5701777		3.618	0.000	.9446344	3.180999
jobten	2.8452	281	.8065558		3.528	0.000	1.263535	4.427027
ntwth000	.00689	933	.0093635		0.736	0.462	0114695	.0252562
numjobs5	59.750	542	6.266322		9.536	0.000	47.46746	72.04538
pension	78.399	916	16.29166		4.812	0.000	46.44939	110.3489
selfemp	-62.57	791	21.63504		-2.892	0.004	-105.0066	-20.14919
annage2	-2.2284	476	.6159788		-3.618	0.000	-3.43648	-1.020473
weeksyr	4.4970	072	.8705534		5.166	0.000	2.789819	6.204324
_cons	3305.2	271	1846.648		1.790	0.074	-316.2125	6926.755
Adj R-squa	ared = 0	.440	5					

V. Dep. Var. Worklt50

V. Dep. Var.	Worklt50									
	Coef.	Std.	Err.	t	P> t		[95% (Conf.	Inter	val]
age	+	2411	2.055242		-1.475	0.140		-7.0	 6297	.9981484
agesg	.024	5526	.0183539		1.338	0.181		011	4415	.0605468
educ	0588	3457	.072127		-0.816	0.415		200	2948	.0826034
white	1199	9997	.5007912		-0.240	0.811		-1.10	2107	.8621077
numkids	3536	5638	.0826728		-4.278	0.000		515	7945	1915332
walk2dv	1.000	5885	.9669703		1.041	0.298		889	4517	2.903222
carrydv	-1.13	1974	.5036412		-2.223	0.026		-2.10	7437	1320433
cancer	1.576	5059	.6386973		2.468	0.014		.323	5027	2.828616
stroknow	7423	3657	2.09411		-0.355	0.723		-4.84	9149	3.364417
heartevr	0063	3204	.5603247		-0.011	0.991		-1.1	0518	1.092539
workpay	-3.90	5222	1.377352		-2.835	0.005		-6.60	6364	-1.20408
annearn	.0806	5679	.0141354		5.707	0.000		.052	9469	.108389
hourswk	.0473	3267	.0177188		2.671	0.008		.012	5782	.0820752
jobten	.1413	1983	.0250644		5.633	0.000		.092	0441	.1903524
ntwth000	000	5397	.000291		-1.855	0.064		001	1104	.0000309
numjobs5	2.702	1987	.1947315		13.875	0.000		2.32	0097	3.083878
pension	.736	5246	.5062778		1.455	0.146		256	3426	1.729392
selfemp	-1.720	0914	.6723278		-2.560	0.011		-3.03	9424	4024044
annage2	048	3164	.0191421		-2.516	0.012		085	7038	0106242
weeksyr	.0689	9475	.0270532		2.549	0.011		.015	8932	.1220019
_cons	108.8	3546	57.38623		1.897	0.058		-3.68	6229	221.3954

Nonmarried Men (N=405) I. Dep. Var. AIME

-	Coef.	Std.	Err.	t	P> t		[95% Conf. Inte	rval]
	+	4054	404 0750					1101 740
age	168.	4054	484.8/59		0.347	0.729	-/84.9385	1121.749
agesq	-1.39	4454	4.334342		-0.322	0.748	-9.916466	7.127559
educ	31.0	0217	13.35372		2.322	0.021	4.7466	57.25774
white	468	.396	89.89946		5.210	0.000	291.6392	645.1528
numkids	50.6	9285	19.98284		2.537	0.012	11.40338	89.98233
walk2dv	-44.7	4019	191.9007		-0.233	0.816	-422.0479	332.5675
carrydv	327.	1591	141.1547		2.318	0.021	49.62629	604.6919
cancer	-119.	3315	210.5488		-0.567	0.571	-533.3044	294.6413
stroknow	-366.	3083	258.1595		-1.419	0.157	-873.8914	141.2747
heartevr	535	2844	106.6608		-0.005	0.996	-210.2477	209.1771
workpay	-640.	5215	348.3369		-1.839	0.067	-1325.408	44.36485
annearn	7.96	4314	2.059281		3.868	0.000	3.915436	12.01319
hourswk	-1.04	8988	4.209749		-0.249	0.803	-9.326031	7.228055
jobten	8.24	3224	4.416382		1.867	0.063	4400943	16.92654
ntwth000	.031	1545	.1437863		0.217	0.829	2515525	.3138615
numjobs5	67.4	8787	36.26549		1.861	0.064	-3.815918	138.7917
pension	84.3	4369	114.5908		0.736	0.462	-140.9603	309.6477
selfemp	-43.3	7646	146.2204		-0.297	0.767	-330.8694	244.1165
annage2	-4.1	1432	5.048956		-0.815	0.416	-14.04138	5.812739
weeksyr	16.5	1517	5.961603		2.770	0.006	4.793695	28.23664
_cons	-4722	.698	13533.9		-0.349	0.727	-31332.52	21887.12
Adj R-squa	ared =	0.325	1					

<u>11. Dep. var.</u>	Coef.	Std.	Err.	t	P>	t	[95% Co	nf.	Inter	val]
+										
age	-5.67	612	168.1614	-	-0.034	0.973	-33	6.30	84	324.9562
agesq	.0598	992	1.503207		0.040	0.968	-2.	8956	48	3.015446
educ	9.375	343	4.631249		2.024	0.044	. 2	6956	35	18.48112
white	143.	219	31.17833		4.594	0.000	81	.917	43	204.5206
numkids	18.60	784	6.930313		2.685	0.008	4.	9817	32	32.23395
walk2dv	-5.863	805	66.55372	-	-0.088	0.930	-13	6.71	91	124.9915
carrydv	145.2	386	48.95431		2.967	0.003	48	.986	55	241.4907
cancer	-48.77	866	73.02112	-	-0.668	0.505	-19	2.34	99	94.79261
stroknow	-180	.02	89.53312	-	-2.011	0.045	-35	6.05	66	-3.983506
heartevr	5.509	219	36.99139		0.149	0.882	-67	.221	81	78.24025
workpay	-167.3	121	120.8078	-	-1.385	0.167	-40	4.83	98	70.21554
annearn	2.084	716	.714186		2.919	0.004	.6	8051	13	3.488921
hourswk	8338	089	1.459997	-	-0.571	0.568	-3.	7043	97	2.036779
jobten	2.727	672	1.53166		1.781	0.076	2	8381	76	5.739162
ntwth000	.004	382	.049867		0.088	0.930	0	9366	46	.1024285
numjobs5	31.09	945	12.57735		2.473	0.014	б.	3703-	48	55.82854
pension	21.60	543	39.74161		0.544	0.587	-56	.532	98	99.74383
selfemp	-8.985	088	50.71119	-	-0.177	0.859	-10	8.69	14	90.72127
annage2	-1.078	736	1.751045	-	-0.616	0.538	-4.	5215	72	2.3641
weeksyr	5.396	527	2.067563		2.610	0.009	1.	3313	66	9.461688
_cons	339.7	841	4693.735		0.072	0.942	-88	88.8	53	9568.422

Nonmarried Men (cont.
III. Dep Var PIAER

-	Coef.	Std.	Err.	t	P>	t		[95% Conf.	Int	erval]
age	-55.86	18	178.5183		0.313	0.75	 55	-406.85	75	295.1339
agesq	.43331	96	1.595789		0.272	0.78	86	-2.7042	57	3.570897
educ	10.834	14	4.916484		2.204	0.02	28	1.1675	42	20.50074
white	152.33	82	33.09858		4.603	0.00	00	87.26	11	217.4154
numkids	20.230	22	7.357147		2.750	0.00	06	5.7648	85	34.69555
walk2dv	-10.144	78	70.65272	-	0.144	0.88	86	-149.05	94	128.7698
carrydv	143.88	95	51.96937		2.769	0.00	06	41.709	33	246.0696
cancer	-64.739	44	77.51844	-	0.835	0.40	04	-217.15	32	87.67428
stroknow	-197.87	92	95.04741	-	2.082	0.03	38	-384.75	77	-11.00074
heartevr	-1.0254	44	39.26967	-	0.026	0.97	79	-78.235	93	76.18504
workpay	-163.10	97	128.2483	-	1.272	0.20	04	-415.26	65	89.04716
annearn	2.5864	68	.7581722		3.411	0.00	01	1.095	78	4.077157
hourswk	74071	75	1.549917	-	0.478	0.63	33	-3.7881	03	2.306668
jobten	2.4143	27	1.625994		1.485	0.13	38	78263	85	5.611292
ntwth000	00559	63	.0529383	-	0.106	0.91	16	10968	14	.0984889
numjobs5	30.380	03	13.35198		2.275	0.02	23	4.1278	82	56.63217
pension	45.049	62	42.18927		1.068	0.28	86	-37.901	28	128.0005
selfemp	-24.083	13	53.83446	-	0.447	0.65	55	-129.93	03	81.76407
annage2	45576	73	1.85889	-	0.245	0.80	06	-4.1106	45	3.19911
weeksyr	5.4888	07	2.194903		2.501	0.01	13	1.1732	76	9.804339
_cons	1942.3	57	4982.819		0.390	0.69	97	-7854.6	66	11739.38
Adj R-squa	ared = 0 .	3470								

IV. Dep.Var. PIANR

	Coef.	Std.	Err.	t	P> t		[95% Conf. In	iterval]
age	-137.	.0776	183.3214		-0.748	0.455	-497.51	69 223.3617
agesq	1.14	12869	1.638723		0.697	0.486	-2.0791	4.364863
educ	11.6	51463	5.048762		2.300	0.022	1.6879	49 21.54131
white	149.	.6319	33.9891		4.402	0.000	82.803	88 216.4599
numkids	21.	.7102	7.555091		2.874	0.004	6.8556	72 36.56472
walk2dv	-10.9	91138	72.55363		-0.150	0.881	-153.56	35 131.7407
carrydv	142.	.6288	53.36761		2.673	0.008	37.699	47 247.5581
cancer	-74.6	55942	79.60408		-0.938	0.349	-231.17	38 81.85501
stroknow	-204.	.8773	97.60466		-2.099	0.036	-396.78	37 -12.97078
heartevr	197	78544	40.32622		-0.005	0.996	-79.485	69 79.08999
workpay	-162.	.9904	131.6988		-1.238	0.217	-421.93	15 95.95075
annearn	2.81	L4475	.7785709		3.615	0.000	1.2836	79 4.345271
hourswk	632	25145	1.591617		-0.397	0.691	-3.761	89 2.496861
jobten	2.36	53908	1.669741		1.416	0.158	91907	18 5.646888
ntwth000	006	54935	.0543626		-0.119	0.905	1133	.1003921
numjobs5	30.4	10801	13.71122		2.218	0.027	3.4495	47 57.36647
pension	52.7	74275	43.32438		1.217	0.224	-32.439	95 137.9254
selfemp	-31.1	L9088	55.28288		-0.564	0.573	-139.88	59 77.50414
annage2	334	41824	1.908904		-0.175	0.861	-4.0873	95 3.41903
weeksyr	5.57	70112	2.253957		2.471	0.014	1.1384	71 10.00175
_cons	4250	0.428	5116.882		0.831	0.407	-5810.1	84 14311.04

Nonmar	ried l	Men ((cont.)
V. Dep.	Var.	Work	dt50

	Coef.	Std.	Err.	t	P> t		[95% Conf. Ir	nterval]
aqe	3.8	 85613	4.252192		0.907	0.365	-4.5043	64 12.21662
agesq	03	65825	.0380107		-0.962	0.336	11131	.0381526
educ	14	72497	.1171075		-1.257	0.209	37750	.0830025
white	2.	73422	.7883869		3.468	0.001	1.1841	25 4.284316
numkids	.18	45048	.1752425		1.053	0.293	16005	.5290599
walk2dv	.29	01705	1.682903		0.172	0.863	-3.0186	87 3.599028
carrydv	3.4	64239	1.237877		2.799	0.005	1.0303	73 5.898105
cancer	-1.1	48745	1.84644		-0.622	0.534	-4.7791	43 2.481652
stroknow	-5.6	40705	2.263968		-2.492	0.013	-10.092	03 -1.189379
heartevr	.67	93956	.9353784		0.726	0.468	-1.1597	09 2.5185
workpay	-1.4	94179	3.054793		-0.489	0.625	-7.5003	93 4.512035
annearn	.01	13858	.0180592		0.767	0.443	02164	92 .0493653
hourswk		02192	.036918		-0.594	0.553	09450	68 .0506668
jobten	.02	63977	.0387301		0.682	0.496	0497	.1025474
ntwth000	00	03774	.001261		-0.299	0.765	00285	.0021019
numjobs5	.67	65597	.3180357		2.127	0.034	.05125	04 1.301869
pension	25	73915	1.004921		-0.256	0.798	-2.2332	29 1.718446
selfemp	20	88744	1.282302		-0.163	0.871	-2.7300	87 2.312338
annage2	00	26483	.0442776		-0.060	0.952	08970	.0844085
weeksyr	.07	75552	.0522812		1.483	0.139	0252	.1803484
_cons	-81.	87659	118.6876		-0.690	0.491	-315.23	54 151.4822
Adj R-squ	ared =	0.137	6					

Nonmarried Women (N=958) I. Dep. Var. AIME

	Coef.	Std.	Err.	t	P>	t	[95% C	& Conf. Interval]		
+										
age	-278.4	633	227.6947		-1.223	0.222	-	725.314	168.3874	
agesq	2.687	258	2.03406		1.321	0.187	-1	.304581	6.679098	
educ	16.64	521	7.719616		2.156	0.031	1	.495471	31.79495	
white	44.	148	40.15906		1.099	0.272	-3	4.66411	122.9601	
numkids	-67.47	443	9.35246		-7.215	0.000	-8	5.82862	-49.12024	
walk2dv	73.91	702	77.11661		0.959	0.338	-7	7.42424	225.2583	
carrydy	41.97	459	50.93704		0.824	0.410	-5	7.98931	141.9385	
cancer	48.17	743	66.47236		0.725	0.469	-	82.2745	178.6294	
stroknow	-70.39	489	174.9704		-0.402	0.688	-4	13.7741	272.9843	
heartevr	28.39	225	59.29613		0.479	0.632	-8	7.97634	144.7608	
workpay	-482.9	805	198.1334		-2.438	0.015	-8	71.8172	-94.1439	
annearn	13.59	088	1.534241		8.858	0.000	1	0.57994	16.60183	
hourswk	1.095	975	1.934929		0.566	0.571	-2	.701321	4.893271	
jobten	13.62	386	2.378519		5.728	0.000	8	.956017	18.2917	
ntwth000	033	291	.0958874		-0.347	0.729		22147	.1548879	
numiobs5	94.14	978	18.8694		4.990	0.000	5	7.11859	131.181	
pension	141.6	162	50.3888		2.810	0.005	4	2.72823	240.5042	
selfemp	177.8	137	87.07981		2.042	0.041	6	.919656	348.7077	
annage2	-3.113	207	2.43192		-1.280	0.201	-7	.885848	1.659434	
weeksvr	7.810	638	3.888445		2.009	0.045		1795684	15,44171	
cons	7587	738	6366,699		1,192	0.234	-4	906.901	20082.38	
Adi R-squa	ared = 0	4039					-			

Nonmarried Women (cont.
II. Dep. Var. PIANOW

	Coef.	Std.	Err.	t	P>	t	[95% Conf.	. Int	erval]
age	-168.	465	95.13677		-1.771	0.077	-355.1	708	18.24086
agesq	1.568	706	.8498829		1.846	0.065	0991	885	3.2366
educ	2.907	842	3.225456		0.902	0.368	-3.422	112	9.237796
white	24.29	465	16.7795		1.448	0.148	-8.635	096	57.2244
numkids	-24.27	847	3.9077		-6.213	0.000	-31.94	733	-16.60962
walk2dv	39.78	969	32.22132		1.235	0.217	-23.44	462	103.024
carrydv	24.82	156	21.28282		1.166	0.244	-16.94	596	66.58907
cancer	42.92	786	27.77388		1.546	0.123	-11.57	834	97.43406
stroknow	-21.97	503	73.10718		-0.301	0.764	-165.4	478	121.4977
heartevr	-4.982	906	24.77546		-0.201	0.841	-53.60	472	43.63891
workpay	-161.9	883	82.78529		-1.957	0.051	-324.4	544	.4777164
annearn	4.255	469	.6410456		6.638	0.000	2.997	418	5.51352
hourswk	.6781	848	.8084636		0.839	0.402	9084	241	2.264794
jobten	4.878	727	.9938069		4.909	0.000	2.928	382	6.829072
ntwth000	0202	183	.0400642		-0.505	0.614	0988	443	.0584077
numjobs5	50.79	038	7.884127		6.442	0.000	35.31	779	66.26297
pension	68.90	581	21.05375		3.273	0.001	27.58	785	110.2238
selfemp	44.81	618	36.3842		1.232	0.218	-26.58	778	116.2201
annage2	-1.386	944	1.016119		-1.365	0.173	-3.381	077	.6071898
weeksyr	3.765	216	1.624693		2.317	0.021	.5767	574	6.953675
_cons	4745.	518	2660.172		1.784	0.075	-475.0	665	9966.103
Adj R-squa	ared = 0	.3932							

III. Dep Var PIAER Std. Err. P>|t| [95% Conf. Interval] t Coef. _____ -211.9344 99.51045 -2.130 0.033 -407.2236 age 2.105 1.268 1.687 1.871558 .8889541 0.036 .1269862 agesq 4.276669 3.373738 0.205 educ -2.344288 0.092 17.55089 white 29.60138 -4.84222364.04499 -21.27525 4.087347 -5.205 1.086 0.000 numkids -29.29667 -13.25384walk2dv 36.60671 33.70261 0.278 -29.53463 102.7481 1.363 carrydv 30.34336 22.26124 0.173 -13.34431 cancer 38.34659 29.05071 1.320 0.187 -18.6654 -8.673755 76.46809 -0.113 0.910 -158.7423 stroknow heartevr 6.016669 25.91445 0.232 0.816 -44.84041 86.59113 -25.14742 -195.0824 -2.253-365.0174 workpay 0.024 9.001 annearn 6.035441 .670516 0.000 4.719554 7.351328 hourswk .8786783 .8456306 1.039 0.299 -.7808709 4.026279 3.873 1.986272 jobten 1.039495 0.000 ntwth000 -.0186262 .0419061 -0.444 0.657 -.1008669 0.000 45.5389 8.246579 5.522 29.355 numjobs5 22.81889 pension 66.03633 22.02164 2.999 0.003

0.942

-1.233

3.005

0.347

0.218

0.003

0.026

-38.85539

-3.395825

1.77192

749.8971

38.05688

1.062833

1.699384

5.1002 6210.485 2782.467 cons Adj R-squared = 0.4502

35.83119

-1.310017

5.10696

selfemp

annage2

weeksyr

-16.6453

3.616129

10.89763

74.03102

95.35857

141.3948

56.87375

2.538228

6.066287

.0636144

61.72281

109.2538

110.5178 .775792 8.442

11671.07

Nonmarried Women (cont.
IV. Dep.Var. PIANR

	-262.4847					
agesq educ	2.310397 4.445204	103.3997 .923698 3.505598	-2.539 2.501 1.268	0.011 0.013 0.205	-465.4065 .4976407 -2.434527	-59.56284 4.123153 11.32494
numkids walk2dv	34.61761 -19.53077 38.04633	18.23685 4.247097 35.01985	-4.599 1.086	0.058	-1.172196 -27.8657 -30.68009	-11.19585
carrydv cancer stroknow	32.41049 40.54162 -3.234158	23.1313 30.18613 79.45678	1.401 1.343 -0.041	0.161 0.180 0.968	-12.98467 -18.69863 -159.168	77.80565 99.78186 152.6997
heartevr workpay annearn	7.760719 -206.4859 6.727449	26.92729 89.97546 .6967225	0.288 -2.295 9.656	0.773 0.022 0.000	-45.08406 -383.0627 5.360132	60.6055 -29.9092 8.094767
jobten ntwth000	1.101369 3.816501 0195642	.8786813 1.080122 .043544	1.253 3.533 -0.449	0.210 0.000 0.653	6230423 1.696762 1050192	2.82578 5.93624 .0658908
numjobs5 pension selfemp	44.4077 66.5087 30.66268	8.568889 22.88234 39.54429	5.182 2.907 0.775	$0.000 \\ 0.004 \\ 0.438$	27.59126 21.60214 -46.94295	61.22414 111.4153 108.2683
annage2 weeksyr _cons Adi R-squar	-1.358204 5.566279 7657.787 red = 0.4663	1.104373 1.765803 2891.217	-1.230 3.152 2.649	0.219 0.002 0.008	-3.525534 2.100892 1983.777	.8091265 9.031666 13331.8

V. Dep. Var. Worklt50

<u></u>	Coef.	Std.	Err.	t	P>	t	[95%	Conf.	Inte	erval]	
age	-6.031	014	3.045411		-1.980	0.048		-12.007	763	054	3974
agesq	.052	739	.0272055		1.939	0.053	-	00065	517	.106	1298
educ	0925	275	.1032497		-0.896	0.370	-	29515	548	.110	0999
white	4833	166	.5371264		-0.900	0.368	-	-1.5374	127	.570	7933
numkids	9167	328	.1250889		-7.329	0.000		-1.162	222	67	1246
walk2dv	.6916	657	1.031433		0.671	0.503		-1.332	252	2.71	5851
carrydv	.4661	079	.6812816		0.684	0.494	-	87090	066	1.80	3122
cancer	1.621	621	.889066		1.824	0.068	-	12316	596	3.36	6413
stroknow	2281	025	2.340225		-0.097	0.922	-	4.8207	791	4.36	4586
heartevr	-1.138	208	.7930841		-1.435	0.152	-	-2.6946	534	.41	8219
workpay	-4.331	395	2.650029		-1.634	0.102	-	9.5320)74	.869	2851
annearn	.0355	501	.0205204		1.732	0.084	-	00472	212	.075	8214
hourswk	0112	033	.0258796		-0.433	0.665	-	06199	921	.039	5854
jobten	.1737	699	.0318126		5.462	0.000		.11133	376	.236	2021
ntwth000	0032	436	.0012825		-2.529	0.012	-	00576	505	000	7267
numjobs5	2.075	933	.2523778		8.225	0.000		1.5806	542	2.57	1224
pension	2.088	993	.6739489		3.100	0.002		.76636	586	3.41	1617
selfemp	1.170	685	1.16469		1.005	0.315	-	-1.1150	018	3.45	6388
annage2	0162	678	.0325269		-0.500	0.617	-	08010	017	.047	5662
weeksyr	.1262	099	.0520079		2.427	0.015		.02414	145	.228	2752
_cons	188.6	944	85.15443		2.216	0.027		21.578	394	355.	8099
Adi R-squa	ared = 0	.2981									

Note: Number of observations reported in Appendix D as Sample 4. All analysis conducted with HRS sample weights; see text. Dependent variables are Average Indexed Monthly Earnings (AIME, var.5), current PIA (PIANOW, var 6), early and normal retirement age PIA (PIAER and PIANR, vars. 7 and 8), and years worked to age 50 (computed by authors using vars. 44-46). All explanatory variables are taken from HRS Wave 1: Age: respondent's age. Agesq: Square of age. Educ.: years of education. White: 1–yes, 0=no. Numkids: number of own children. Walk2dv: =1 can walk 2 blocks readily, =0,no. Carrydv: =1 can carry 10 lb. weight readily, =0 no. Cancer: =1 ever had, =0 no. Stroknow: =1 recent stroke, =0 no. Heartnow: =1 recent heart trouble, 0 no. Workpay: =1 current have paid job, =0 no. Annearn: annual earnings/1000. Hourswk: Hours of work per week. Jobten: yrs on current job. NetWorth(000): Net worth /1000. NumJobs<50: No. of jobs held by age 50. Pension: =1 have pension, =0 no. Selfemp:=1 self employed, 0 no. Annage2: age expects to receive pension (or social security if no pension age). WeeksWork/yr: number of weeks worked/year.

Appendix C. Descriptive Linear Regression Models for Selected EBF Constructed Social Security Wealth Variables

(NB: Variable definitions appear in note at end of table)

Married Men (N= 2186) I. Dep. Var. Respondent's Own SSW at Normal Retirement

I. Dep. Var. R	espondent's	Uwn S	SW at Normal I	Kenre	ment			
	Coef.	Std.	Err.	t	₽> t		[95% Conf. In	terval]
	+							
age	-264	75.3	8008.824		-3.306	0.001	-42181.0	9 -10769.5
agesq	250.1	1029	71.53117		3.496	0.000	109.825	8 390.3799
educ	3.974	1589	230.8065		0.017	0.986	-448.651	1 456.6003
white	155	77.2	1861.703		8.367	0.000	11926.2	9 19228.11
numkids	161.0)844	337.9194		0.477	0.634	-501.596	2 823.765
walk2dv	2807	.912	4320.717		0.650	0.516	-5665.27	9 11281.1
carrydv	1261	7.61	3370.174		3.744	0.000	6008.49	6 19226.73
cancer	-1446	.567	3695.553		-0.391	0.696	-8693.77	3 5800.638
stroknow	-9713	.965	7600.556		-1.278	0.201	-24619.1	2 5191.191
heartevr	-767.	.175	1866.509		-0.411	0.681	-4427.51	4 2893.164
workpay	-240.2	2068	6504.127		-0.037	0.971	-12995.	2 12514.78
paylfive	87.18	3764	23.90533		3.647	0.000	40.3078	2 134.0675
paylast	222.8	3958	54.57015		4.085	0.000	115.880	4 329.9112
annearn	111.0)773	17.30033		6.421	0.000	77.1502	6 145.0043
hourswk	147.6	5985	60.05867		2.459	0.014	29.9197	5 265.4772
jobten	134.4	4027	71.73393		1.874	0.061	-6.27193	7 275.0773
ntwth000	3.229	9469	1.199471		2.692	0.007	.877232	9 5.581705
numjobs5	840.0)105	660.4324		1.272	0.204	-455.137	8 2135.159
pension	9025.	.789	1860.606		4.851	0.000	5377.02	12674.55
selfemp	-4425	.026	2144.554		-2.063	0.039	-8630.62	7 -219.4251
annage2	196.4	1277	78.72237		2.495	0.013	42.0483	1 350.8071
weeksyr	100.0	5626	115.43		0.872	0.383	-125.702	6 327.0279
_cons	71927	72.7	223658		3.216	0.001	280665.	7 1157880
Adj R-squa	ared = ().183	0					
II. Dep. Var.	Couple's SS	W at N	ormal Retireme	nt				
II. Dep. Var.	Couple's SS Coef.	<u>W at N</u> Std	ormal Retireme	nt_ t	. P>	t	[95% Conf. 1	Interval]
II. Dep. Var.	Couple's SS Coef.	<u>W at N</u> Std	ormal Retireme	ntt	. P>	t 	[95% Conf.]	Interval]
II. Dep. Var.	Couple's SS Coef. +	<u>W at N</u> Std 5.43	ormal Retireme . Err. 12397.43	<u>nt</u> t	P> -2.781	t 0.005	[95% Conf. 1 	Interval] 5 -10164.31
II. Dep. Var. age agesq	Couple's SS Coef. +	<u>W at N</u> Std 5.43 1868	ormal Retireme Err. 12397.43 110.7282	<u>nt</u> t	P> 	t 0.005 0.003	[95% Conf. 1 -58788.5 114.34	Enterval] 5 -10164.31 2 548.6316
II. Dep. Var. age agesq educ	Couple's SS Coef. +	<u>W at N</u> Std 5.43 1868 .475	ormal Retireme Err. 12397.43 110.7282 357.2819	<u>nt</u> 	P> -2.781 2.994 3.777	t 0.005 0.003 0.000	[95% Conf. I 	Interval] 5 -10164.31 2 548.6316 6 2050.127
II. Dep. Var. age agesq educ white	Couple's SS Coef. +	W at N Std 5.43 4868 .475 5.98	ormal Retireme Err. 12397.43 110.7282 357.2819 2881.863	<u>nt</u> t	P> -2.781 2.994 3.777 7.827	t 0.005 0.003 0.000 0.000	[95% Conf. I 	Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49
II. Dep. Var. age agesq educ white numkids	Couple's SS Coef. +	W at N Std 5.43 4868 .475 5.98 5741	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895	<u>nt</u> t	P> -2.781 2.994 3.777 7.827 -1.546	t 0.005 0.003 0.000 0.000 0.122	[95% Conf. 1 -58788.5 114.34 648.823 16905.4 -1834.48	5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364
II. Dep. Var. age agesq educ white numkids walk2dv	Couple's SS Coef. +	W at N Std 5.43 4868 .475 5.98 5741 .611	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770	t 0.005 0.003 0.000 0.000 0.122 0.441	[95% Conf.] -58788.5 114.34 648.823 16905.4 -1834.48 -7963.64	<pre>Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87</pre>
II. Dep. Var. age agesq educ white numkids walk2dv carrydv	Couple's SS Coef. - 3447(331.4 1349 22556 - 808.6 5152 20880	Wat N Std 5.43 4868 .475 5.98 5741 .611).48	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933	<u>nt</u> t	-2.781 2.994 3.777 7.827 -1.546 0.770 4.002	t 0.005 0.003 0.000 0.000 0.122 0.441 0.000	[95% Conf.] 	Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21
II. Dep. Var. age agesq educ white numkids walk2dv carrydv cancer	Couple's SS Coef. - 3447(331.4 1349 2255(- 808.6 5152 2088(4877.	W at N Std 5.43 4868 .475 5.98 5741 .611).48 .025	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61	<u>nt</u> 	 -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394	[95% Conf.] 	<pre>Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49</pre>
II. Dep. Var. age agesq educ white numkids walk2dv carrydv carcer stroknow	Couple's SS Coef. +	W at N Std 5.43 4868 .475 5.98 5741 .611).48 .025 →.87	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355	[95% Conf.] 	Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88
II. Dep. Var. age agesq educ white numkids walk2dv carrydv cancer stroknow heartevr	Couple's SS Coef. +	W at N Std 5.43 4868 .475 5.98 5741 .611).48 .025).87 .434	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154	[95% Conf.] -58788.5 114.34 648.823 16905.4 -1834.48 -7963.64 10649.7 -6341.44 -33952.6 -9783.53	5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88 4 1548.666
II. Dep. Var. age agesq educ white numkids walk2dv carrydv carcer stroknow heartevr workpay	Couple's SS Coef. - 3447(331.4 1349 2255(- 808.6 5152 2088(4877) - 10879 - 4117 - 10769	W at N Std 5.43 4868 .475 5.98 5741 .611 0.48 .025 ∂.87 .434 ∂.08	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.070	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285	[95% Conf.] -58788.5 114.34 648.823 16905.4 -1834.48 -7963.64 10649.7 -6341.44 -33952.6 -9783.53 -30513.4	5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281
II. Dep. Var. age agesq educ white numkids walk2dv carrydv cancer stroknow heartevr workpay paylast	Couple's SS Coef. - 3447(331.4 1349(2255(- 808.6 5152(2088(4877) - 10879(- 4117) - 10769(337.9	W at N Std 5.43 4868 .475 5.98 5741 .611 0.48 .025 9.87 .434 9.08 9298	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.070 4.000	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000	[95% Conf.] 	Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865
II. Dep. Var.	Couple's SS Coef. - 34476 331.4 1349 22556 - 808.6 5152 20886 4877 - 10879 - 10879 - 4117 - 10766 337.9 145.4	W at N Std 5.43 4868 .475 5.98 5741 .611 0.48 .025 9.87 .434 9.08 9298 4625	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.425 -1.070 4.000 5.432	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.000	[95% Conf.] 	<pre>Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806</pre>
II. Dep. Var. age agesq educ white numkids walk2dv carrydv carrydv cancer stroknow heartevr workpay paylast annearn hourswk	Couple's SS Coef. - 34476 331.4 1349 22556 - 808.6 5152 20880 4877 - 10875 - 4117 - 10765 337.5 145.4 106.5	W at N Std 5.43 4868 .475 5.98 5741 .611 0.48 .025 .434 2.08 2.98 4.34 .08 2.98 4.34 .08 2.98 4.34 .08 .025 .313	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042 92.96909	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.425 -1.070 4.000 5.432 1.144	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.000 0.253	[95% Conf.] 	<pre>Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806 6 288.6494</pre>
II. Dep. Var. age agesq educ white numkids walk2dv carrydv carrydv carcer stroknow heartevr workpay paylast annearn hourswk paylfive	Couple's SS Coef. - 34477 331.4 1349 22556 - 808.6 5152 20880 4877 -10875 -4117 -10765 337.5 145.5 106.3 104.5 -	W at N Std 5.43 4868 .475 5.98 .611 0.48 .025 ∂.87 .434 ∂.08 2298 3298 .859	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042 92.96909 37.00477	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.070 4.000 5.432 1.144 2.834	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.000 0.253 0.005	[95% Conf.] 	5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806 6 288.6494 6 177.4276
II. Dep. Var. age agesq educ white numkids walk2dv carrydv carrydv carcer stroknow heartevr workpay paylast anmearn hourswk paylfive paylast	Couple's SS Coef. - 3447(331.4 1349 22556 - 808.6 5152 2088(4877 - 10875 - 4117 - 10769 337.5 145.4 106.2 104.1 (dropr	W at N Std 5.43 4868 475 5.98 5741 .611 0.425 9.87 .434 9.08 9298 4625 3313 .859 ped)	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042 92.96909 37.00477	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.070 4.000 5.432 1.144 2.834	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.000 0.253 0.005	[95% Conf. 1 -58788.5 114.34 648.823 16905.4 -1834.48 -7963.64 10649.7 -6341.44 -33952.6 -9783.53 -30513.4 172.27 92.9444 -75.9867 32.2903	5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 3111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806 6 288.6494 6 177.4276
II. Dep. Var. of age agesq educ white numkids walk2dv carrydv cancer stroknow heartevr workpay paylast annearn hourswk paylfive paylast jobten	Couple's SS Coef. - 3447(331.4 1349 22555 - 808.6 5152 2088(4877, - 10875 - 4117, - 10765 337.5 145.4 1064 1064 (dropp 248.7	W at N Std 6.43 4868 .475 5.98 5741 .611 0.48 9.87 .434 9.08 9.298 1625 3313 .859 ped) 7416	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042 92.96909 37.00477 111.0421	<u>nt</u> 	-2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.070 4.000 5.432 1.144 2.834 2.240	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.000 0.253 0.005 0.025	[95% Conf.] -58788.5 114.34 648.823 16905.4 -1834.48 -7963.64 10649.7 -6341.44 -33952.6 -9783.53 -30513.4 172.27 92.9444 -75.9867 32.2903 30.9813	5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 18268.87 6 3111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806 6 288.6494 6 177.4276 4 466.5019
II. Dep. Var. of age agesq educ white numkids walk2dv carrydv cancer stroknow heartevr workpay paylast annearn hourswk paylfive paylast jobten ntwth000	Couple's SS Coef. - 3447(331.4 1349(22556) - 808.6 5152(2088(4877) - 10879 - 4117 - 10765 337.9 145.4 106.3 1045.4 104.2 (dropp 248.7) 6.103	W at N Std 6.43 4868 .476 5.98 5741 .611).48 .025 9.87 4.34 9.08 9298 4625 3313 .859 7416 L021	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042 92.96909 37.00477 111.0421 1.856747	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.070 4.000 5.432 1.144 2.834 2.240 3.286	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.253 0.005 0.025 0.001	[95% Conf.] -58788.5 114.34 648.823 16905.4 -1834.48 -7963.64 10649.7 -6341.44 -33952.6 -9783.53 -30513.4 172.27 92.9444 -75.9867 32.2903 30.9813 2.45982	Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 117.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806 6 288.6494 6 177.4276 4 466.5019 8 9.742215
II. Dep. Var. of age agesq educ white numkids walk2dv carrydv cancer stroknow heartevr workpay paylast annearn hourswk paylfive paylast jobten ntwth000 numjobs5	Couple's SS Coef. - 34476 331.4 1349 22556 - 808.6 5152 20880 4877 - 10879 - 4117 - 10766 337.9 145.4 106.3 145.4 106.3 145.4 (dropp 248.7 6.101 1828	W at N Std 6.43 4868 5741 .611 0.425 9.87 .434 9.298 4625 3313 .859 9298 1625 3313 .859 9298 1625 3313 .859 9298 1625 1021 .506	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042 92.96909 37.00477 111.0421 1.856747 1022.33	<u>nt</u> 	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.070 4.000 5.432 1.144 2.834 2.240 3.286 1.789	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.285 0.000 0.265 0.005 0.025 0.005	[95% Conf.] 	Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806 6 288.6494 6 177.4276 4 466.5019 8 9.742215 3 3833.358
II. Dep. Var. of age agesq educ white numkids walk2dv carrydv carrydv carcer stroknow heartevr workpay paylast annearn hourswk paylfive paylast jobten ntwth000 numjobs5 pension	Couple's SS Coef. - 34477 331.4 1349 22556 - 808.6 5152 20880 4877 -10875 -4117 -10765 337.5 145.4 104.5 105.5 1	W at N Std 5.43 4868 5741 .611 0.425 9.87 .434 9.298 3434 9.298 3434 9.298 3434 9.298 3434 9.298 3431 .611 0.425 9.87 .434 9.298 3432 .611 0.425 9.87 .434 9.298 .611 0.425 .611 0.425 .611 0.425 .611 0.425 .611 0.425 .611 0.425 .611 0.425 .611 0.425 .611 0.425 .611 .611 .612 .612 .612 .612 .625 .6377 .6377 .6377 .6377 .637	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042 92.96909 37.00477 111.0421 1.856747 1022.33 2880.165	<u>nt</u> t	-2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.070 4.000 5.432 1.144 2.834 2.240 3.286 1.789 5.425	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.000 0.253 0.005 0.025 0.005	[95% Conf.] -58788.5 114.34 648.823 16905.4 -1834.48 -7963.64 10649.7 -6341.44 -33952.6 -9783.53 -30513.4 172.27 92.9444 -75.9867 32.2903 30.9813 2.45982 -176.346 9977.72	5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806 6 288.6494 6 177.4276 4 466.5019 8 9.742215 3 3833.358 4 21274.08
II. Dep. Var. age agesq educ white numkids walk2dv carrydv carrydv carcer stroknow heartevr workpay paylast annearn hourswk paylfive paylast jobten ntwth000 numjobs5 pension selfemp	Couple's SS Coef. -3447(331.4 1349 22556 -808.6 5152 20886 4877 -10875 -10875 -10875 -4117 -10769 337.5 145.2 106.2 106.2 106.2 104.1 (dropp 248.7 6.101 1828 1562 -5772	W at N Std 5.43 4868 5741 .611 0.425 9.87 .434 9.08 9298 4625 .434 9.08 9298 4625 .859 ped) 7416 L021 .5509 .775	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042 92.96909 37.00477 111.0421 1.856747 1022.33 2880.165 3319.708	<u>nt</u> t	-2.781 2.994 3.777 7.827 -1.546 0.770 4.002 4.002 5.432 1.144 2.834 2.240 3.286 1.789 5.425 -1.739	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.253 0.005 0.025 0.005 0.025 0.001 0.074 0.082	[95% Conf. 1 -58788.5 114.34 648.823 16905.4 -1834.48 -7963.64 10649.7 -6341.44 -33952.6 -9783.53 -30513.4 172.27 92.9444 -75.9867 32.2903 30.9813 2.45982 -176.346 9977.72 -12282.9	5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 3111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806 6 288.6494 6 177.4276 4 466.5019 8 9.742215 3 3833.358 4 21274.08 2 737.375
II. Dep. Var. of age agesq educ white numkids walk2dv carrydv cancer stroknow heartevr workpay paylast annearn hourswk paylfive paylast jobten ntwth000 numjobs5 pension selfemp annage2	Couple's SS Coef. -3447(331.4 1349 22555 -808.6 5152 2088(4877, -10879 -4117, -10769 337.9 145.4 1064.1 1044, (dropp 248.7 6.101 1828 1562 -5772 28.55	W at N Std 6.43 4868 5.98 5.025 5.98 5.025 5.08 5.025 5.08 5.08 5.08 5.08 5.08 5.08 5.08 5.08 5.08 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.09 5.775 L0001	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042 92.96909 37.00477 111.0421 1.856747 1022.33 2880.165 3319.708 121.86	<u>nt</u> t	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.070 4.000 5.432 1.144 2.834 2.240 3.286 1.789 5.425 -1.739 0.234	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.253 0.005 0.025 0.001 0.074 0.001 0.074 0.002 0.002 0.002	[95% Conf.] -58788.5 114.34 648.823 16905.4 -1834.48 -7963.64 10649.7 -6341.44 -33952.6 -9783.53 -30513.4 172.27 92.9444 -75.9867 32.2903 30.9813 2.45982 -176.346 9977.72 -12282.9 -210.464	Interval] 5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 18268.87 6 3111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806 6 288.6494 6 177.4276 4 466.5019 8 9.742215 3 3833.358 4 21274.08 2 737.375 8 267.4849
II. Dep. Var. of age agesq educ white numkids walk2dv carrydv cancer stroknow heartevr workpay paylast annearn hourswk paylfive paylast jobten ntwth000 numjobs5 pension selfemp annage2 weeksyr	Couple's SS Coef. -3447(331.4 1349(2255(-808.6 5152(2088(4877) -10879 -4117 -10769 337.9 145.4 1064 1044 (dropp 248.7 6.101 1828 1562 -5772 28.55 389.8	W at N Std 6.43 4868 .475 5.98 5741 .611 0.48 9.87 .434 9.08 9298 4625 3313 .859 .434 9.08 9298 4625 .313 .021 .506 .775 L021 .506 25.95 L001 3052	ormal Retireme . Err. 12397.43 110.7282 357.2819 2881.863 523.0895 6688.346 5216.933 5720.61 11765.44 2889.303 10068.2 84.47302 26.78042 92.96909 37.00477 111.0421 1.856747 1022.33 2880.165 3319.708 121.86 178.6823	<u>nt</u> t	P> -2.781 2.994 3.777 7.827 -1.546 0.770 4.002 0.853 -0.925 -1.425 -1.070 4.000 5.432 1.144 2.834 2.240 3.286 1.789 5.425 -1.739 0.234 2.182	t 0.005 0.003 0.000 0.122 0.441 0.000 0.394 0.355 0.154 0.285 0.000 0.253 0.005 0.025 0.005 0.025 0.001 0.074 0.002 0.082 0.082 0.815 0.029	[95% Conf.] -58788.5 114.34 648.823 16905.4 -1834.48 -7963.64 10649.7 -6341.44 -33952.6 -9783.53 -30513.4 172.27 92.9444 -75.9867 32.2903 30.9813 2.45982 -176.346 9977.72 -12282.9 -210.464 39.398	5 -10164.31 2 548.6316 6 2050.127 7 28208.49 5 217.1364 5 18268.87 6 31111.21 1 16095.49 2 12192.88 4 1548.666 4 8975.281 3 503.5865 9 197.9806 6 288.6494 6 177.4276 4 466.5019 8 9.742215 3 3833.358 2 737.375 8 267.4849 3 740.2121

Married	Women	(N=	2089)
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I. Dep. Var. Respondent's Own SSW at Normal Retirement

	Coef. S	Std.	Err.	t	P>	t	[95% Conf. In	terval]
age agesq educ white numkids walk2dv carrydv carcydv stroknow heartevr	Coef. 5 451.40 76290 60.139 -3484.6 -737.96 3638.6 -1354.9 1930.9 -616.21 1445.5	Std. 93 87 79 89 24 17 47 06 24 78	Err. 7705.862 68.82291 271.9399 1875.033 309.4729 3618.495 1884.832 2390.402 7840.773 2097.076	t	P> 0.059 -0.011 0.221 -1.858 -0.385 1.006 -0.719 0.808 -0.079 0.689	t 0.953 0.991 0.825 0.063 0.017 0.315 0.472 0.419 0.937 0.491	[95% Conf. In -14660.66 -135.7324 -473.165 -7161.841 -1344.874 -3457.659 -5051.316 -2756.942 -15992.85 -2667.024	terval] 15563.47 134.2066 593.4446 192.463 -131.0512 10734.89 2341.422 6618.754 14760.43 5558.18
workpay paylfive paylast annearn hourswk jobten ntwth000 numjobs5 pension selfemp annage2 weeksyr cons Adj R-squa	-17580. 327.05 990.94 853.82 346.0 419.2 37570 1811.5 8070.5 -7031.0 -106.66 338.89 -13001. ared = 0.	85 29 54 95 37 34 75 84 73 05 34 21 4142	5194.305 54.10812 83.2557 53.79409 66.44474 95.01235 1.089255 787.8264 1898.69 2517.949 10.2434 215183.8		$\begin{array}{c} -3.385\\ 6.044\\ 11.902\\ 15.872\\ 5.209\\ 4.412\\ -0.345\\ 2.299\\ 4.251\\ -2.792\\ -1.477\\ 3.347\\ -0.060\end{array}$	0.001 0.000 0.000 0.000 0.000 0.730 0.022 0.000 0.005 0.140 0.001 0.952	-27767.47 220.9408 827.6715 748.3286 215.7894 232.907 -2.511856 266.5588 4347.038 -11969.06 -248.1924 140.3436 -435000.9	$\begin{array}{c} -7394.236\\ 433.1651\\ 1154.219\\ 959.3212\\ 476.4006\\ 605.5669\\ 1.760449\\ 3356.592\\ 11794.13\\ -2093.09\\ 34.98245\\ 557.4432\\ 408998.4 \end{array}$

II. Dep. Var. Couple's SSW at Normal Retirement

	Coef. Std	. Err.	t P>	t	[95% Conf. Inte	erval]
age	-19142.99	14481.99	-1.322	0.186	-47543.81	9257.82
agesq	201.3328	129.3421	1.557	0.120	-52.32169	454.9874
educ	1626.678	511.0694	3.183	0.001	624.4135	2628.943
white	20933.85	3523.838	5.941	0.000	14023.21	27844.5
numkids	-30.6216	581.6069	-0.053	0.958	-1171.218	1109.975
walk2dv	3550.126	6800.407	0.522	0.602	-9786.24	16886.49
carrydv	6793.592	3542.254	1.918	0.055	-153.168	13740.35
cancer	-4587.699	4492.395	-1.021	0.307	-13397.79	4222.393
stroknow	-23250.29	14735.53	-1.578	0.115	-52148.34	5647.75
heartevr	3572.643	3941.133	0.907	0.365	-4156.364	11301.65
workpay	-13326.38	9761.901	-1.365	0.172	-32470.57	5817.813
paylast	304.0696	156.4664	1.943	0.052	-2.778596	610.9178
annearn	419.157	101.0978	4.146	0.000	220.8929	617.4211
hourswk	29.41773	124.8727	0.236	0.814	-215.4718	274.3072
pay1five	289.99	101.6879	2.852	0.004	90.56852	489.4115
paylast	(dropped)					
jobten	509.2743	178.5612	2.852	0.004	159.0957	859.453
ntwth000	6.681046	2.047089	3.264	0.001	2.666474	10.69562
numjobs5	1810.451	1480.599	1.223	0.222	-1093.171	4714.073
pension	7277.839	3568.298	2.040	0.042	280.0034	14275.67
selfemp	-6163.664	4732.101	-1.303	0.193	-15443.85	3116.519
annage2	-193.5618	135.6841	-1.427	0.154	-459.6537	72.53017
weeksyr	69.76094	190.2715	0.367	0.714	-303.383	442.9049
_cons	581199.1	404405	1.437	0.151	-211884.7	1374283

Nonmarried	l Men	ι (N=	405)
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Dep. Var. Respondent's Own SSW at Normal Retirement

Dep. var. Res	spondent s	5 Uwn 55	w at Normai Re	urem	ent				
	Coef.	Std.	Err.	t	P> t		[95% Conf.	Inte	rval]
age	-232	261.69	17819.2		-1.305	0.193	-582	97.69	11774.31
agesq	215	5.7932	159.282		1.355	0.176	-97.	38608	528.9725
educ	j 58	87.856	500.7284		1.174	0.241	-396	.6728	1572.385
white	118	351.87	3328.768		3.560	0.000	530	5.869	18396.87
numkids	192	26.633	740.4626		2.602	0.010	470	.7402	3382.525
walk2dv	-57	44.29	7055.083		-0.814	0.416	-196	15.95	8127.368
carrydv	124	42.21	5208.363		2.389	0.017	220	1.561	22682.86
cancer	-102	299.43	7743.982		-1.330	0.184	-255	25.59	4926.74
stroknow	-147	766.27	9527.453		-1.550	0.122	-334	99.08	3966.548
heartevr	144	13.942	3926.156		0.368	0.713	-627	5.641	9163.525
workpay	-384	15.317	13202.65		-0.291	0.771	-298	04.29	22113.66
paylfive	290).2537	96.86878		2.996	0.003	99.	79091	480.7164
paylast	998	3.9454	177.3632		5.632	0.000	650	.2149	1347.676
annearn	19	2.893	76.99281		2.505	0.013	41.	51028	344.2758
hourswk	-61.	75424	154.3011		-0.400	0.689	-3	65.14	241.6315
jobten	415	5.0395	167.1194		2.483	0.013	86.	45044	743.6285
ntwth000	-1.0	20955	5.26662		-0.194	0.846	-11.	37615	9.334238
numjobs5	171	6.783	1481.799		1.159	0.247	-119	5.721	4630.286
pension	768	38.727	4257.369		1.806	0.072	-682	.0843	16059.54
selfemp	-905	5.6941	5368.825		-0.169	0.866	-114	51.84	9650.455
annage2	-33.	25068	185.7862		-0.179	0.858	-398	.5424	332.041
weeksyr	64	10.846	218.4704		2.933	0.004	21	1.291	1070.401
_cons	6	536990	497381.4		1.281	0.201	-340	958.1	1614938
R-squared	- =	0.430	0						

Nonmarried Women (N=958)

Dep. Var. Respondent's Own SSW at Normal Retirement

	Coef. S	Std.	Err.	t	P> t		[95% Conf	. Inte	rval]
 age	+	83	12682 69			0 027		947 65	
aresr	261 2	696	113 3066		2 306	0.027	32.	90496	483 6343
agesq	1 400 2	100	420 7210		2.300	0.021	141	- 0640	101.0545
eauc	400.2	409	430./319		0.929	0.355	-44:	00042	1245.502
white	4369.		2232.012		1.957	0.051	-12	.23340	8/50./8/
numkids	-2246.	957	521.4404		-4.309	0.000	-32	/0.28/	-1223.628
walk2dv	2721.	851	4303.325		0.632	0.527	-572	23.443	11167.14
carrydv	4152.'	749	2832.103		1.466	0.143	-140)5.265	9710.763
cancer	5445.0	667	3693.524		1.474	0.141	-18	302.89	12694.22
stroknow	-1614.9	946	9782.834		-0.165	0.869	-20	0813.8	17583.91
heartevr	289.8	103	3301.304		0.088	0.930	-618	39.013	6768.633
workpay	-14277	.24	11092.27		-1.287	0.198	-360	045.87	7491.399
paylfive	66.01	287	45.83834		1.440	0.150	-23	.94507	155.9708
paylast	892.7	003	134.2245		6.651	0.000	63	29.284	1156.117
annearn	773.8	802	85.39738		9.062	0.000	606	5.2875	941.4729
hourswk	132.6	382	108.2617		1.225	0.221	-79	.82582	345.1021
jobten	496.1	386	133.3307		3.721	0.000	234	4.4765	757.8006
ntwth000	-2.124	435	5.328161		-0.399	0.690	-12	.58097	8.332103
numjobs5	4293.	726	1093.033		3.928	0.000	214	48.643	6438.809
pension	8738.3	329	2801.99		3.119	0.002	32	239.41	14237.25
selfemp	3885.0	041	4846.575		0.802	0.423	-562	26.384	13396.47
annage2	-144.3	357	135.1136		-1.068	0.286	-40	09.518	120.8041
weeksyr	654.2	103	216.0426		3.028	0.003	230).2257	1078.195
_cons	77159:	2.2	354616.8		2.176	0.030	756	555.13	1467529
Adj R-squ	ared = 0	.478	0						

Note: Number of observations reported in Appendix D as Sample 4. All analysis conducted with HRS sample weights; see text. Dependent variables are the respondent's social security wealth as of the normal retirement age (var. 24) and (for married persons) the couple's social security wealth as of the respondent's normal retirement age (var. 23). All explanatory variables are as defined in Appendix B plus pay1five is pay on first 5-year job (/1000), and paylast is pay on last job (/1000).

Appendix D. Sample Size in Analysis

Sample 1: EBF File	8257				
Sample 2: Sample 1 minus age ineligible minus those in					
receipt of SSDI in 1991	5999				
Married 4606					
Men	2326				
Women	2280				
Nonmarried	1393				
Men	413				
Women	980				
Sample 3: Sample 2 minus married respondents where spouse not interv	viewed in HRS				
or spouse in current receipt of SSDI					
Married 4335					
Men	2217				
Women	2118				
Nonmarried (same as sample 1)					
Sample 4: Sample 2 minus those with missing					
data on regressors of Appendix B or C	5638				
Married 4275					
Men					
Women	2089				
Nonmarried	1363				
Men	405				
Women					