



Imputation of Non-Response on Economic Variables in the Mexican Health and Aging Study (MHAS/ENASEM) 2001.

Project Report

Draft: June 30, 2004

by

Rebeca Wong
Maryland Population Research Center
University of Maryland
rwong@popcenter.umd.edu

and

Monica Espinoza
Population Studies Center
University of Pennsylvania
mepinoz@pop.upenn.edu

Research supported by NIA grant no. 18016, *Mexican Health and Aging Study (B.Soldo, P.I.)*.

We acknowledge assistance from Yannú Cruz from the University of Maryland in the analysis of the data and construction of tables.

Note: A first draft of this report was produced with date of August 8, 2003, to accompany *version 1* of the imputed data. The only change made in *version 2* is that revisions were made to the total household consumption variable, which changed slightly the imputed values for the total assets variables as well.

Abstract

The report describes the levels of non-response and the imputation procedure used in the Mexican Health and Aging Study (MHAS/ENASEM) 2001, to assign an exact amount to questions on economic value that had a non-response, or a response using unfolding brackets. A multiple imputation technique, involving the regression sequencing method with a SAS-based software routine (IVEware) provided by the University of Michigan, was used on economic quantity variables such as income, assets, health care expenditures, and monetary help received.

The method implemented offers several appealing characteristics for the MHAS population: it allows for imputation of zero as a possible value for amounts, it takes into account other variables being imputed as regressors in the imputation of a particular variable, and the imputation method allows for the brackets that were used in the survey to recover the non-response on amounts.

The MHAS data files corresponding to each Section of the survey instrument contain the original variables as they were responded in the interview. All constructed variables on the monetary amounts (with missing values) and the corresponding imputed variables (without missing values) are provided to the user in separate data files. In addition, we have constructed a file at the individual level that contains a variable for total individual income, and a file at the household level with a variable for total (individual or couple) net worth. The table below provides a list of these data files, containing the imputed variables and constructed variables that are available to the user in the study website.

Section	Section Name	Record unit	No. of variables	No. of observations
Section D – imp	Health Care Services	Individual	19	15,176
Section G – imp	Help and Children	Individual/Couple	58	9,834
Section J – imp	Housing	Individual/Couple	16	9,815
Section K – imp	Pension, Income and Assets	Individual/Couple	146	9,811
INCOME	Total Individual Income	Individual	3	15,313
ASSETS	Total Net Worth	Individual/Couple	3	9,811

Introduction

The 2001 baseline survey of the Mexican Health and Aging Study (MHAS/ENASEM) is representative of the slightly more than 13 million Mexicans born prior to 1951 (hereafter referred as population aged 50 or older). The survey was conducted in the summer of 2001, and a follow-up visit is being carried out starting in June 2003. The sample for MHAS was selected from residents of both rural and urban areas, from the National Employment Survey (Encuesta Nacional de Empleo, ENE), carried out by the Mexican Statistical Bureau (Instituto Nacional de Estadística, Geografía e Informática, INEGI) in Mexico. The ENE survey covers both urban and rural areas and has sample in all 32 states of Mexico. The households with at least one resident of ages 50 or older were eligible to be part of the MHAS sample. From this sample frame, there were 11,000 households selected with at least one person of eligible age.

If more than one age-eligible person resided in the household, then one was randomly selected to be part of MHAS prior to the fieldwork. If the selected MHAS person was married or in a consensual union, with the spouse residing in the same household, then the spouse or partner was also interviewed as part of MHAS regardless of his/her age. Experienced personnel from INEGI conducted the survey, with an average duration of 90 minutes per interview. The goal was to obtain direct interviews with the person of interest (selected or spouse). When it was not possible to obtain a direct interview due to illness, hospitalization, or temporary absence, a proxy interview was conducted. Direct or proxy interviews were conducted with 9,806 sampled persons, and 5,424 spouses. In total, 15,230 individual interviews were obtained for a global response rate of 91.85%. The INEGI personnel in Mexico conducted the fieldwork.

It is common to obtain high non-response rates on financial questions in household surveys, both because respondents may be reluctant to talk about financial matters but also because the respondent may not know the information exactly. Thus the MHAS instrument was designed with this particular concern in mind, implementing the strategy of using bracket questions to minimize non-response. This report describes the patterns of non-response obtained in MHAS for the economic variables, with emphasis on the questions used to calculate total income and net worth of an individual or couple. We first present a summary of the economic variables that were asked about in MHAS, followed by a description of the response rates obtained, and the distribution of non-response according to main attributes of the respondents. We follow with a description of the imputation methodology used, and a comparison of the distribution of the original variables and the imputed variables.

Economic Variables in MHAS

The questions to measure income and assets were asked in MHAS within three sections of the questionnaire: Family Help, Housing, and Income & Assets. In addition, there were questions on health care expenditures by the individuals. The survey instrument was designed to ask the help from children, housing, and financial sections only from *one* of the two respondents in couple-households, usually the first interviewed, although the individuals were offered the choice about who could best provide answers to the economic sections. The chosen financial respondent

provided information on each of the spouses' labor income, pension income, and other public transfers. For couples, the questions on business income, real estate rents, financial assets income, and private transfers refer to the couple (jointly). For the cases of single-person households, these questions refer only to the individual respondent. For assets, the information was asked about the couple's net worth of assets in the form of homes, businesses, rental properties, capital, vehicles, other debts, and other assets.

Of the 9,834 households in the sample, 4,321 (44%) gave financial information in one-person households, and 5,513 (56%) provided economic information on two-persons. The woman provided the information in about 60% of the couple-households because she tended to be the first interview of the two. Interviewers were instructed to obtain the information from the first informant if he/she was willing to provide it in order not to risk losing the information if the second respondent refused to grant an interview.

Questions with unfolding brackets were used to recover non-response on the questions about income, assets and other variables that asked for monetary amounts. This technique has been applied in the U.S. Health and Retirement Survey (HRS) with random entry-point, and the advantages of the strategy to reduce non-response in financial questions has been reported in the literature (Hurd 1998, Hurd 1999). Hurd shows that the point of entry of the bracket questions affects the respondents' answers on income and may bias the distribution of the financial variables, thus a random entry point is recommended. In a paper-and-pencil instrument such as the one used in MHAS, a random entry point seemed impractical, thus we opted for a mid-point entry. According to the yes/no response to the initial bracket question, the instrument proceeded to ask about a lower or higher amount. See Diagram 1 for an example of the unfolding bracket questions. In the example, if the respondent provides no exact amount in K.88, then the series of questions in K.89 are asked. If an amount is given in K.88, then the interview proceeds to ask K.90.

[Diagram 1 about here]

MHAS included 38 different components of annual flows to measure total income of a person (and his/her spouse if applicable), and 18 different types of assets to calculate total net worth of the individual (or couple). Table 1 provides a list of items that were asked regarding income, and Table 2 provides the equivalent for assets.

Distribution of Non-Response

We summarize first the results for the components of income. The first column of Table 1 presents the 38 components of income that were asked in the survey, and the number of cases that received each series of questions. The second column decomposes the total number of observations into those that stated that they *receive* the source of income, those that replied that they *do not receive* such source, and those *who refused or don't know* the answer. Column 3 of the table decomposes those who receive the source of income into: those that gave an exact value for the amount, those that provided an answer through brackets, and those that refuse/don't know the amount.

From Column 2, it is evident that a relatively small proportion of respondents report receiving income from each type considered. The sources of income with more than 20% of cases stating that they receive it are: own labor (26%), spouse's labor (37%), business income (21%), family help_1 (34%) and family help_2¹ (22%). The column of (No-Response/Don't Know) shows low prevalence, with a maximum of 2% for business expenditures. From the results in Column 3 about those that report receiving each source of income, we obtain high exact-amount response (80 to 95% of cases for most questions), and relatively good recovery through the bracket questions as well (an additional 2 to 30% of cases for most questions). The prevalence of (Refuse/Don't know) the amount, conditional on receiving income exhibits low prevalence. For the main sources of income mentioned above, we obtain non-response rates as follows: own labor (4%), spouse's labor (7%), business income (5%), family help_1 (8%) and family help_2 (9%). These results reveal that non-response is low for the components of total income considered by the survey². The overall distribution of non-response indicates that imputing the missing values can be a good strategy, since there are a relatively large number of cases that can be used in the imputation equations to assign a value for a relatively small number of cases.

[Table 1 about here]

Table 2 presents the distribution of responses for the components of total net worth considered in the study. Most respondents report that they have assets in the form of their home (75%). In addition to this type, relatively few cases report ownership of assets. Business (27%), vehicles (26%) and Other Assets (44%) were the next most-prevalent types reported by respondents. The non-response to ownership in Column number 2 shows low-prevalence (less than 2%), with one exception. The item in row number 17 refers to the net value of "Other Assets," and 25% of the respondents refuse/don't know if they own this type of asset. This high-non response may be due to the lack of specificity of the question³.

Conditional on ownership of the asset, we find low rates of non-response. If we focus on the most commonly owned type of asset, the home, Column 3 shows that 63% provided an exact amount for their home value and for the debt on the home. Another 28% of cases provided the value through the use of brackets, and 9% provided no value. Thus the combined non-response (whether own or not, and value of the asset) is around 10% for the respondent's home. These rates of non-response compare quite favorably with non-response reports from the HRS (see Smith 1995, table 3), which yield non-response on value amounts, conditional on ownership of the asset of 4.3% on house, 7.9% on mortgage, and about 30% on other real estate, on business equity, and on financial assets.

[Table 2 about here]

¹ Family help_1 and family help_2 are the economic help received from Child 1 and Child 2 respectively.

² We find relatively high non-response rates only in cases in which the absolute number of observations is small. For example, Capital-assets-income-2 (with 25% of missing values conditional on receiving income) and Capital-assets-income-3 (with 36% of exact-amount reports conditional on receiving income) represent a total of 8 and 14 households, respectively.

³ The question (K42) asked: "In case of a family emergency for which you had to sell all the other assets that you have not mentioned, about how much would they give you?" This question was not followed by bracket questions if non-response was given as an answer.

Appendix A contains a series of tables, one for each of the economic variables. Each table presents the distribution of the observations according to ranges of the amount and whether an actual value or a bracket value was provided, as well as those for which no information is known. The tables show that the number of cases that provided bracket information is small compared to those that provided an exact amount. Also, the tables show where the bracket responses concentrate among the range of values that the variable takes.

The Impact of the Unfolding Brackets to Reduce Non-Response

As was indicated by the numbers provided in Tables 1 and 2, only a small proportion of the respondents receive or own most of the income sources or types of assets that were asked about in the survey. Of a maximum of 38 different sources of income possible for a couple, for example, the most that a respondent reported to receive was 12. Table 3 presents the distribution of the respondent households, according to the number of income components that were received by the MHAS individual (or couple) in the household.

The columns on the table indicate that the majority of the respondents receive only one (23%) or two (26%) sources of income, while 11% report no income. Over 90% of the households receive 5 or fewer sources of income among those contained in the survey. We include also the distribution of respondents by the number of sources of income for which an exact-value of the amount was given. For example, of those that receive one source of income (n=2,246), 87% gave exact-amount response to the value of the one source, and 13% gave no answer on the value. Of those who receive 2 sources of income (n=2,605), 84% gave exact response on the value of the two sources, 9% gave exact value on only one of the two sources declared, and 7% gave no exact value on any of the two income sources. Thus the diagonal terms indicate the percentage of full-exact-responses, that is, the proportion of cases for which the survey obtained exact-value amounts on *all* the income sources received by the MHAS individuals (or couples), according to the number of income sources declared. As would be expected, the higher the number of income sources, the lower the percentage of cases that provide exact amounts for *all* their sources of income.

Table 4 contains similar information, except that the cases in each column are distributed according to whether exact- or bracket-response was provided. For example, of the respondents that receive one source of income (n=2,246 as before), 93% gave exact- or bracket-response on the amount of the one source, and 7% gave no answer on the value. Of those who receive two sources of income (n=2,605), 92% gave exact- or bracket-response to the value of both sources of income, 5% provided a value either exact or in brackets about one of the two sources, and 3% gave no exact or bracket answer on any of the two income sources. Comparing Tables 3 and 4 provides an assessment of the recovery of non-response that was achieved with the unfolding brackets. The difference in the diagonal terms indicates, for example, of those who declared to have one source of income (n=2,246) the unfolding brackets allowed the response rate to go from 87% to 93%. Among those with four sources of income (n=1,073) the full response rate, that is, a response on the amount of all four sources of income, goes from 80% to 90% with the use of brackets. The gains in income reports are significant, ranging from 4% for those who receive seven sources of income, to 20% for those who receive 10.

[Tables 3 and 4 about here]

Tables 5 and 6 present the comparable analysis for the types of assets owned by the MHAS respondents. Of the total of 18 possible types of assets that an individual (or couple) could own among those asked about in the survey, the maximum number reported is 10 (n=1). Relatively few respondents own the majority of assets. Table 5 shows that while 38% of the respondents own none or one type of asset, 93% of the individuals/couples report ownership of four or fewer types of assets. Of those who only own one type of asset, 56% provided an exact value, and among those who own three types of assets, 57% provided an exact value for the 3 of them. Table 6 presents the response rates considering both exact- and bracket-responses. Again, the difference in the diagonal terms of tables 5 and 6 illustrate the gains obtained in response rates through the use of brackets. For those with one type of asset, the response rate increases by 27%, and this gain steadily rises with the number of types of assets reported. For example, for those who report ownership of three types of assets (n=1,782), the full response rate (response on the value of *the 3* types of assets) goes from 57% to 87%, a gain of 30% that is due to the use of unfolding brackets. In conclusion, the impact of the use of brackets as a strategy to minimize non-response seems to be particularly beneficial for the variables measuring the total net worth of the individuals/couples in MHAS.

[Tables 5 and 6 about here]

Distribution of Non-Response by Main Demographic Characteristics

Table 7 presents the percent of non-response⁴ according to the main attributes of the individuals in select income components. We selected these income items from Table 1, by considering those in which a relatively large number of cases declared that they received the particular source of income. We examine the rate of non-response in those variables by age, sex, education, urban/rural residence, and whether the MHAS income responses refer to an individual or a couple. Overall, as had been previously mentioned, rates of non-response are quite low. By gender, non-response for own earned income is higher for male respondents (2%) than females (1%), while the non-response of spouse's earned income is higher for females (3.5%) compared to that of males (1%). Family help registers higher non-response, perhaps because this is an informal and more-irregular type of income. Female respondents have higher non-response as well among those reporting help from child-1 (4% for female compared to 3% for male respondents).

According to age, there seems to be higher non-response on business income among *younger* individuals, and on family help among *older* respondents. Of those under age 60, about 3% gave no response on business income, compared to 1 or 2% among those 60 or older. Those under age 60 register 1 or 2% non-response in family help_1, increasing with age to 7.5% for those aged 70 or older. By years of education, we find higher non-response on spouse's earned income for those with *more* education. Non-response on family help is higher for those with *low* education.

⁴ Non-response is defined as not-providing an exact value or a bracketed value. Respondents who declared that they do not receive a particular source of income are coded as having provided an exact value (zero).

These patterns could be due to the composition of the individuals that receive each source of income. For example, younger individuals are more likely to receive business income than older ones, and older respondents with low education are more likely to receive family help.

In general, we find slightly higher non-response in less-urban areas. Business income shows higher non-response among rural (3%) versus urban residents (2%). Regarding family help also, rural residents report higher non-response. This is somewhat surprising, as we expected that individuals in urban areas would be more reluctant to report income. The effect of education could be operating here, however. Since individuals with lower education tend to reside more in rural areas, and thus are more likely to receive business income and family help, we may be observing again a composition effect.

Regarding the effect of whether the household responses on income and assets refer to one individual or two, there seems to be no clear pattern. We find that non-response is *higher* on business income among couple respondents than one-person households. On the other hand, non-response on family help is *lower* among couple households.

Table 8 presents the analysis of non-response for select assets questions, by age, sex, education, urban/rural residence and one/two respondents per household. As was previously mentioned, we find higher non-response for assets variables than the ones presented for income. Female respondents show higher non-response on the value of their home and the value of other-assets. Older respondents also don't know the value of their home at a higher rate than younger respondents. However, younger respondents have higher non-response on the value of vehicles or other assets. Individuals with low education have higher non-response on value of the home, but lower non-response on capital assets, vehicles or other assets. Rural residents report more non-response on value of the home and gross value of businesses than urban residents, but they also exhibit lower non-response on capital assets, vehicles and other assets. Regarding the number of individuals, we obtained higher non-response on gross value of business and of vehicles if the information referred to a couple than to a sole individual. However, on the value of home, the rate of non-response was slightly higher when the information referred to one individual than when it was about a couple. The highest non-response was on the net value of other-assets (K42), around 25%, as presented in Table 1. This is partly due to the fact that the catch-all question on the net value of other-assets not previously mentioned in the survey failed to be followed (inadvertently) by unfolding brackets if a non-response was provided.

[Tables 7 and 8 about here].

Imputation Methodology

The bracketed unfolding techniques to reduce item non-response were used extensively in the collection of amount data in MHAS, including not only economic quantity variables such as income and assets but also amount of help hours, health care expenditures, household rent and household consumption. Individuals unable or unwilling to provide an exact amount in response to such questions were asked a series of unfolding bracket questions.

The non-response on amounts -- either complete non-response or when information was provided by the bracket questions -- was imputed in order to calculate income and assets by major categories, and to provide total income and total net worth estimates. We used a multiple imputation technique, involving the method of sequence of regressions with a SAS-based software routine (IVEware), distributed by the University of Michigan (Raghuathan et al. 2000; Raghuathan 2001). The method was selected because it offers several appealing characteristics for the MHAS respondents:

1) Allows for imputation of zero as a possible value for amounts. This is an important characteristic of the methodology, since we have a large proportion of cases with no-income or no-assets in most of the categories asked, and thus the value of zero needs to be one of the value options.

2) Takes into account other variables being imputed as regressors in the imputation of a particular variable. This is appealing since we have multiple variables that need to be imputed in order to derive a summary variable, e.g. total income.

3) Takes advantage of the brackets used to recover the non-response. This is a valuable attribute of the methodology, since there were an appreciable number of cases that although provided non-response initially, opted for a bracket response upon query.

4) Allows for transformations to the imputed variable, which is particularly important for variables with skewed distributions, such as those for income and assets⁵.

We imputed separately the missing values for the sampled respondent's items and the spouse's. We grouped variables to be imputed together according to the list provided in Table 9. The table presents the groupings of the variables as well as the names of the original, derived, and imputed variables as they appear in the MHAS/ENASEM data files. The "original" variables refer to the question numbers as they appear in the questionnaire. The "derived" variables refer to the amount of income or value of an asset as it was derived from the answers to the corresponding questions on the survey, and these may contain missing values. Finally, the "imputed" variables contain no missing values.

[Table 9 about here]

We created the variable INTER to assign to each individual respondent his/her corresponding information on age, sex, and education, and the individual-specific income. For the case of couple-households, INTER was created using the information on whether the information was provided in the first or second interview in the household. The steps taken to implement the imputation method are represented graphically in a flow chart in Diagram 2. The process can be summarized as follows:

⁵ For our purposes, we made no transformations to the variables, and used a linear regression. This is because the procedure imputes first if (yes/no) receives income or owns the item, and then proceeds to impute a value, using as limits the values provided by the brackets. Thus we consider that to impute on the non-zero part of the distribution and within the limits established by the brackets, the linear function would be adequate.

[Diagram 2 about here]

- 1) Determine a set of variables with no missing values, which will be used as regressors to impute the non-response. We used the following variables: age, sex, and education. These are the variables labeled as X in the flow diagram, whereas the variables to be imputed in a given group are labeled as Y1, Y2, Y3,.... Yn.
- 2) Estimate the regression of
$$Y1 = \text{function}(X)$$
- 3) Using this regression equation, impute the missing values of Y1. The new variable is labeled Imp-Y1. The imputation software allows for the imposition of constraints, such as a sub-sample of cases to be imputed, or bounds for the value that the imputation should take (given for example, by the thresholds implied by the answers to the bracket questions). The regression may also be using linear or non-linear transformation of the variables.
- 4) Estimate the regression of
$$Y2 = \text{function}(X, \text{Imp-Y1})$$
- 5) Using this regression equation, impute the missing values for Y2.
- 6) Estimate the regression of
$$Y3 = \text{function}(X, \text{Imp-Y1}, \text{Imp-Y2})$$
- 7) Using this regression equation, impute the missing values for Y3.
- 8) Repeat steps (6) and (7) until all Y's have been imputed.
- 9) Start another cycle. Estimate the regression of
$$Y1 = \text{function}(X, \text{Imp-Y2}, \text{Imp-Y3}, \text{Imp-Y4}, \dots, \text{ImpYn})$$
- 10) Using this regression equation, impute the missing values for Y1.
- 11) Estimate the regression of
$$Y2 = \text{function}(X, \text{Imp-Y1}, \text{Imp-Y3}, \text{Imp-Y4}, \dots, \text{ImpYn})$$
- 12) Using this regression equation, impute the missing values for Y2.
- 13) Repeat until cycle has been completed and impute the missing values for Yn.
- 14) Repeat another cycle (until C cycles have been completed). For our purposes, we set C=5.

Diagram 3 contains the graphical representation of the imputation process in each of the C cycles mentioned above. The software requires information on whether the imputation of each of the variables is going to be MIXED or CONTINUOUS as we explain next, according to the type of non-response that is obtained on a particular question.

[Diagram 3 about here]

- 1) Non-response on whether the person receives a particular source of income or owns an asset. In this case, the software imputes first if the value amount should be =0 or >0. If the value is >0, then an amount is imputed. This type of imputation is called MIXED by the IVEWare software.
- 2) Non-response on the amount or value when the person states that he/she DOES receive the particular source of income or owns the type of asset. Here the imputation value will be >0, and the software denotes this type as CONTINUOUS. For CONTINUOUS imputation, if there is a bracket answer given, then the ranges provided by the brackets constrain the imputed value. If no bracket information is available, then the imputed variable can take any value among the exact-value answers given by other respondents in the sample.

The IVEware programs used in the imputation procedure are included in Appendix B.

Comparison of Variables With- and Without-Imputed Values

Tables 10 contain the distribution of the original and imputed variables, for a select group of survey items. The tables show that the imputed values tend to shift the distributions to the right, as compared to the original variables containing missing values. Part of the reason for this shift, is that most non-response occurred among the cases that declared that the individual receives income from such source. Even among the cases that are greater than zero though, the imputation seems to be shifting the distribution rightwards. That is, most missing values are imputed a value towards the high end of the distribution. For example, in Table 10.1 for the variable of own earned income, the original variable contained 75% of the cases with 0, whereas the imputed variable contains 74% of cases with 0 value. Among those with earned income greater than zero, the original variable contained 40% of the cases in the range of values 1-1,760, whereas the imputed variable contains 38.7% of the cases in such range. Of the values >0, the original variable contains 20% of cases with values >4,500, whereas the imputed variable contains 22.6% of the cases in such range. For this particular variable, this pattern could be due to the fact that most non-response occurred among men, who tend to report higher earned income than women.

Table 10.12 presents the distribution for the variable net value of other assets. The original and imputed variables contain similar percentages of cases with a value of zero (41% of the cases for both variables). In the original variable, however, conditional on having a value >0, 19% of the cases were in the range >40,000 pesos. This is compared to 36% of the cases in the imputed variable. For this particular variable, the pattern of imputation could be due to the fact that non-

response was higher among women than men, and the non-response was higher for individuals with more years of education compared to those with few years (see Table 8).

[Tables 10 about here]

The descriptive statistics for all the variables that were imputed is presented in Appendix C. The description includes the number of cases, mean, standard deviation, minimum and maximum values, including and excluding the observations with value zero, for each derived variable followed by the corresponding imputed variable.

Construction of the Variables for Total Income at the Individual Level and Net Worth at the Household Level.

The MHAS 2001 data files contain all the variables on amounts that were derived (with missing values) and the corresponding imputed variables (containing no missing values) for each observation. In the files, we also include a calculated value of total income and value of net worth at the individual and household level, respectively, after adding all the items needed to obtain total income and assets. Transformations were made to obtain all income in monthly terms. In the case of individuals who have no spouse or partner residing in the same household, we simply add all the variables that represent in-flows and subtract those measuring out-flows to calculate total income. For the case of total net worth, we add the gross value of all assets and subtract debts. Tables 11 present the list of variables that were used to calculate the total income and net worth variables, and whether each variable was added or subtracted for these calculations.

[Table 11 about here]

In the case of couples, the variables received different treatment. When a particular income source was asked referring to the two members of a couple, such as the bank accounts, the value amount was divided by two and assigned to each member of the couple. The variables that received such treatment are listed as “joint” in Tables 11. To determine whether an income source that was “joint” was to be divided by two or by one, we constructed the variable NUMBER (also included in the data files). This variable takes the value 1 if there is no information on the spouse-income variables, i.e. all information refers to one person; and takes the value 2 if there was information on the spouse-income variables in Section K.

The total net worth of the individual (or couple) was obtained by adding the reported gross value of all assets and deducting debts. This total is provided at the individual (or couple) level.

The survey instrument was designed so that the information on income and assets is asked only of one of two persons in a couple. Thus in order to assign the corresponding income to each of two persons in a couple household, we had to determine whom the questions on own-income and on spouse’s income refer to⁶. We constructed three variables that are included in the data files:

⁶ Own-income questions are for example, K44, K45, K47 and K48. The corresponding spouse’s income questions are K50, K51, K53 and K54. See Table 1 for a full list of the variables.

1) CLAVE1

This variable is constructed based on the individual responses to the question J1 (who provided the information on Section J and K), and it was constructed to measure who answered own-income questions, or (in the case of a proxy interview) whom the questions refer to.

The variable equals 1 if the own-income questions refer to the Sampled person (J1=1); equals 2 if the own-income questions refer to the Spouse of the sampled person (J1=2). The variable equals 9 if it was not possible to determine this information on the basis of the answer to the question J1 (J1=3 or J1=).

2) CLAVE2

This variable is based on the values of CLAVE1. It was constructed to measure about whom the questions on spouse-income refer to.

The variable equals 1 if the spouse-income questions refer to the sampled person ; equals 2 if the spouse-income questions refer to the spouse of the sampled person; equals 9 when it was not possible to determine; and equals 5 when there is no spouse, that is, the variables on spouse-income should contain missing values because there is no spouse.

3) CLAVE3

This variable is constructed to obtain an unambiguous answer on who the information on own income refers to, when there is a couple in the household. To construct this variable, we used three different criteria. First, we take the answer to J1 as the first possible answer. If there is no information on J1, then we use the information provided by the Control of Interview sheets in the questionnaire, which were used to guide the interviewers through Sections J and K in cases of couple households. Depending on whether the information of Sections J and K was provided in the first or second interview according to the variable INTER, and who of the two individuals in the couple completed such interviews, we assigned a value for the cases that had missing values in CLAVE1.

CLAVE3 equals 1 if the own-income variables refer to the sampled person in the household (the person with intra-household identifier variable PS3=1); and equals 2 if the own-income variables refer to the spouse of the sampled person (the individual with PS3=2).

The MHAS files contain the total income variable at the individual level, and net worth at the individual/couple level constructed as mentioned above. MHAS users can easily obtain the total income of *a couple* by adding the corresponding totals for the two individuals in the couple.

Tables 12 present the distribution of the total individual income and total (individual or couple) net worth variables as they are obtained with- and without- imputation of missing values. The distributions are presented in absolute numbers and in percentage terms. The relative numbers present the proportion of cases that are ≤ 0 ; and among the cases that are > 0 , the percentage of cases in each range of values. The tables indicate first, that the gain in available information through the use of imputation is substantial. The number of cases for which a total income can be obtained without imputation is 12,619, compared to a total of 15,312 individuals when we use imputations. For the case of household (individual or couple) total net worth, the number of cases is 4,887 without imputed values and 9,811 with imputed values.

Second, the tables show that the distribution of both total income and total net worth is shifted towards the right with the imputed values. As was mentioned before, this is because prior to imputing, the cases with zero value represent a higher share of the total cases compared to their numerical relative importance after imputing. Another way of explaining this pattern is: a large proportion of the cases that have missing values and thus are imputed, fall in the values that are imputed to be > 0 . This is consistent with our initial results (see Tables 1 and 2), in which the vast majority of the non-response is found among those that declare that they receive a given source of income or own a certain type of asset but provided no value or amount (that is, the value is known to be positive but missing). For the total individual income, 25% of the cases have value $= 0$ without imputation, compared to 23% after imputation. Around 20% of the observations with values > 0 are found in the highest range ($> 4,350$ pesos) without imputation, compared to 27.5% with imputations. Similarly, for total net worth, 13% of the cases have value ≤ 0 without imputations, compared to 8.6% of cases with imputations. Of those with positive value for net worth, 20% report a value in the highest range (355,000 or more pesos) prior to imputing, compared to 35% of the cases after imputations.

[Table 12 about here]

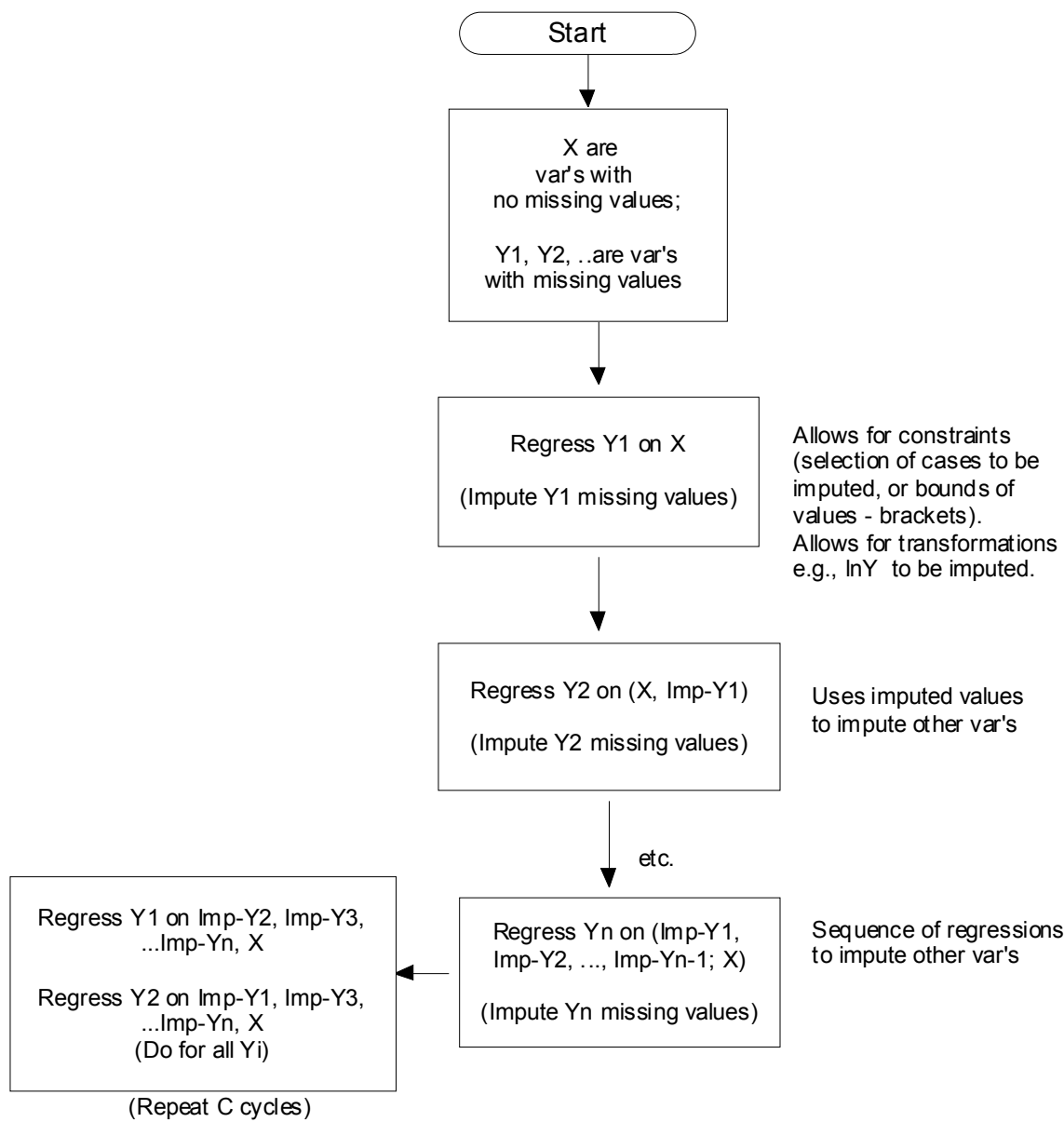
List of Diagrams, Tables and Appendices

- Diagram 1. Example of Bracket Questions used in MHAS.
Diagram 2. Imputation Procedure for Missing Values.
Diagram 3. Procedure for Construction of an Imputed Variable.
- Table 1. Total Income Components. Distribution of Responses by Type.
Table 2. Total Net Worth Components. Distribution of Responses by Type.
Table 3. Number of Income Sources Received by Number of Exact-Responses to Amount.
Table 4. Number of Income Sources Received by Number of Exact- or Bracket-Responses to the Amount.
Table 5. Number of Assets Owned by Number of Exact-Responses to Value.
Table 6. Number of Assets Owned by Number of Exact- or Bracket-Responses to Value.
Table 7. Non-Response in Select Income Components by Main Characteristics of the Respondent.
Table 8. Non-Response in Select Net Worth Components by Main Characteristics of the Respondent.
Table 9. Groups of Variables and Names used in the Imputation Procedure.
Tables 10. Distribution of Select Original and Imputed Variables by Range of Amount.
Tables 11. Variables Used in the Calculation of Total Income and Total Net Worth.
Table 12. Distribution of Total Income and Total Net Worth using Derived and Imputed Variables.
- Appendix A. Distribution of Responses by Amount and Type of Response. All Imputed Variables.
Appendix B. IVEWare Programs Used for Imputation.
Appendix C. Descriptive Statistics of Original and Imputed Variables.

References

- Heeringa, S.G., R. Little, T.E. Raghunathan (1997), *Imputation of Multivariate Data on Household Net Worth*, Proceedings of the American Statistical Association, Section on Survey Research Methods, 135-140.
- Heeringa, S.G., Hill, D.H., and Howell, D.A. (1995), *Unfolding Brackets for Reducing Item Non-Response in Economic Surveys* June 1995. HRS Working Paper 94-029. University of Michigan.
- Hurd, M. D. (1999), *Anchoring and Acquiescence Bias in Measuring Assets in Household Surveys*, Journal of Risk and Uncertainty, 19(1-3): 111-136, December.
- Hurd, M.D., F.T. Juster, and J.P. Smith (2003), *Enhancing the Quality of Data on Income: Recent Innovations from the HRS*, Journal of Human Resources38(3): 758-772).
- Juster, F. T., J.P. Smith (1997), *Improving the Quality of Economic Data: Lessons from the HRS and AHEAD*, Journal of the American Statistical Association, Vol. 92, No. 440.
- Raghunathan, T.E., J. Lepkowski, J. Van Hoewyk, and P. Solenberger (2001), *A Multivariate Technique for Multiply Imputing Missing Values Using a Sequence of Regression Models*, Survey Methodology, 27(1): 85-95.
- Raghunathan, T.E., P. Solenberger, and J. Van Hoewyk (2000), *IVEware: Imputation and Variance Estimation Software*, *Survey Methodology Program*, Survey Research Center, Institute for Social Research, University of Michigan.
- U.S. Department of Education, National Center for Education Statistics (2001), *A Study of Imputation Algorithms*, Working Paper No. 2001-17, by Ming-xiu Hu and Sameena Salvucci. Project Officer, Ralph Lee. Washington, D.C. (<http://nces.ed.gov>)

Diagram 2. Imputation Procedure for Missing Values using a Sequence of Regression Models(*)



(*) SAS-based IVEW are, distributed by ISR, University of Michigan.

Diagram 3. Procedure for Construction of an Imputed Variable (ImAm).

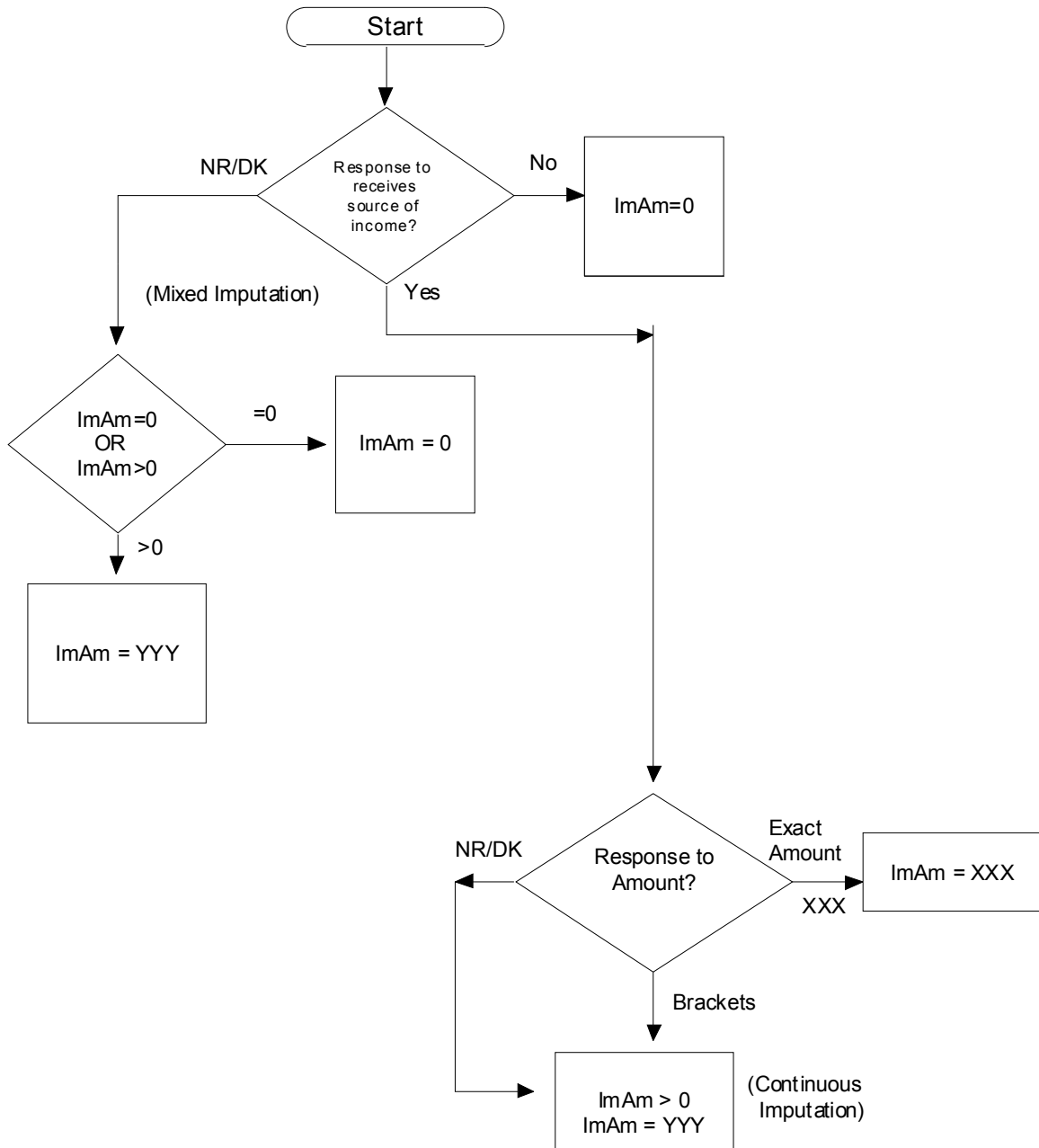


Table 1. MHAS/ENASEM 2001

Total (Individual or Couple) Income Components: Distribution of Responses by Type								
(1) Individual (or Couple) Source of Income (*)	Total n	(2) Receives Income			n	(3) If (yes) Receives Income		
		% Yes	% No	% NR/DK		% Actual Value	% Bracketed Value	% Missing
1. Own earned income-1 (K44)	9,811	26.1	73.9	0.0	2,565	92.9	2.8	4.3
2. Own earned income-2 (K45)	9,811	11.8	88.2	0.0	1,159	94.5	2.4	3.1
3. Own earned income-3 (K47)	9,811	1.0	99.0	0.0	96	90.6	4.2	5.2
4. Own earned income-4 (K48)	9,811	0.3	99.7	0.0	28	82.1	10.7	7.1
5. Spouse's earned income-1 (K50)	5,513	36.9	63.1	0.0	2,033	87.4	6.0	6.7
6. Spouse's earned income-2 (K51)	5,513	16.1	84.0	0.0	885	86.1	7.1	6.8
7. Spouse's earned income-3 (K53)	5,513	0.9	99.1	0.0	50	80.0	8.0	12.0
8. Spouse's earned income-4 (K54)	5,513	0.2	99.8	0.0	12	50.0	33.3	16.7
9. Business income-1 (K10_1)	9,811	20.7	78.2	1.1	2,030	85.9	9.0	5.1
10. Business income-2 (K10_2)	9,811	1.9	98.0	0.1	185	88.7	6.5	4.9
11. Business expenditures-1 (K13_1)	9,811	20.8	76.8	2.4	2,045	91.8	8.2	0.0
12. Business expenditures-2 (K13_2)	9,811	1.9	97.9	0.2	183	92.9	7.1	0.0
13. Property rent income-1 (K24_1)	9,811	3.3	96.5	0.2	324	93.5	5.3	1.2
14. Property rent income-2 (K24_2)	9,811	0.2	99.7	0.1	15	86.7	13.3	0.0
15. Property expenditures-1 (K27_1)	9,811	2.2	97.4	0.4	212	84.9	15.1	0.0
16. Property expenditures-2 (K27_2)	9,811	0.1	99.8	0.1	11	90.9	9.1	0.0
17. Capital assets income-1 (K33_1)	9,811	6.1	93.1	0.9	598	60.0	29.3	10.7
18. Capital assets income-2 (K33_2)	9,811	0.1	99.9	0.0	8	62.5	12.5	25.0
19. Capital assets income-3 (K33_3)	9,811	0.1	99.8	0.0	14	35.7	57.1	7.1
20. Own Pension income - retirement (K55a)	9,811	10.8	89.2	0.0	1,064	95.8	2.9	1.3
21. Spouse's pension income – retirement (K61a)	5,513	10.9	89.2	0.0	598	91.3	6.2	2.5
22. Own pension income – widow (K55b)	9,811	5.0	95.0	0.0	494	97.4	1.6	1.0
23. Spouse's pension income – widow (K61b)	5,513	0.1	100.0	0.0	3	66.7	33.3	0.0
24. Own pension income – disability (K55c)	9,811	1.0	99.0	0.0	95	97.9	1.1	1.1
25. Spouse's pension income – disability (K61c)	5,513	1.3	98.7	0.0	71	93.0	7.0	0.0
26. Own other pension income (K55d)	9,811	0.7	99.3	0.0	67	95.5	3.0	1.5
27. Spouse's other pension income (K61d)	5,512	0.3	99.7	0.0	16	100.0	0.0	0.0
28. Family help income_1 (G18_1)	9,834	34.0	65.0	1.0	3,345	87.5	4.4	8.1
29. Family help income_2 (G18_2)	9,834	21.8	78.2	0.0	2,146	86.3	4.5	9.2
30. Family help income_3 (G18_3)	9,834	12.1	87.9	0.0	1,186	85.7	4.1	10.3
31. Family help income_4 (G18_4)	9,834	6.2	93.8	0.0	606	80.2	6.1	13.7
32. Family help income_5 (G18_5)	9,834	3.2	96.8	0.0	311	73.3	7.1	19.6
33. Family help income_6 (G18_6)	9,834	1.8	98.3	0.0	172	70.9	8.1	20.9
34. Family help income_7 (G18_7)	9,834	1.0	99.0	0.0	98	66.3	9.2	24.5
35. Own transfer income from institutions (K76a)	9,811	8.8	91.2	0.0	863	94.2	0.0	5.8
36. Spouse's transfer income from institutions (K79a)	5,513	7.6	92.4	0.0	418	94.3	0.0	5.7
37. Own transfer income from individuals (K76b)	9,811	0.4	99.6	0.0	41	97.6	0.0	2.4
38. Spouse's transfer income from individuals (K79b)	5,507	0.0	100.0	0.0	2	50.0	0.0	50.0

(*) Numbers in parentheses are the corresponding question numbers in the MHAS/ENASEM questionnaire.

**Table 2. MHAS/ENASEM 2001
Total (Individual or Couple) Net Worth Components -- Distribution of Responses by Type.**

Individual (or Couple) Type of Asset (1/)	Total	Owns Type of Asset			If (yes) Owns Asset, Response to Value				
	n	%Yes	%No	%DK&NR	Total	n	% Actual Value	% Bracketed Value	% Missing Value
1. Gross value houses/apartments (J14)	9,815	75.2	23.7	1.1	7,383		63.0	28.0	9.0
2. Total debt houses/apartments (J20)	9,815	2.9	95.9	1.3	282		63.1	20.9	16.0
3. Net value other houses/apartments (J26)	9,815	8.8	90.8	0.4	865		66.0	24.3	9.7
4. Gross value business_1 (K8_1)	9,811	26.8	73.1	0.1	2,631		62.1	20.7	17.2
5. Gross value business_2 (K8_2)	9,811	2.4	97.5	0.1	235		73.2	13.2	13.6
6. Total debt business_1 (K3_1)	9,811	1.7	97.6	0.8	162		82.7	11.7	5.6
7. Total debt business_1 (K3_2)	9,811	0.2	99.7	0.1	19		68.4	15.8	15.8
8. Gross value other real estate properties (K22_1)	9,811	7.0	92.9	0.1	685		66.6	25.7	7.7
9. Gross value other real estate properties (K22_2)	9,811	0.3	99.6	0.1	28		82.1	14.3	3.6
10. Total debt other real estate properties_1 (K17_1)	9,811	0.3	99.5	0.1	31		61.3	19.4	19.4
11. Total debt other real estate properties_2 (K17_2)	9,811	0.0	99.9	0.1	1		100.0	0.0	0.0
12. Net value capital assets_1 (K29a)	9,811	10.9	89.1	0.0	1,071		70.9	21.9	7.3
13. Net value capital assets_2 (K29b)	9,811	0.5	99.5	0.0	47		93.6	4.3	2.1
14. Net value capital assets_3 (K29c)	9,811	0.2	99.8	0.0	22		50.0	45.5	4.6
15. Gross value vehicles (K36)	9,811	25.9	73.8	0.3	2,540		86.2	9.0	4.8
16. Total debt vehicles (K37)	9,811	1.3	98.0	0.7	130		81.5	12.3	6.2
17. Net value other assets (K42) 2/	9,811	44.2	30.6	25.2	4,336		100.0	NA	NA
18. Other debts (K82)	9,811	9.8	89.9	0.4	959		916.0	34.0	9.0

Notes:

1/ The numbers in parentheses refer to the question number in the MHAS/ENASEM questionnaire.

2/ K42 was *not* followed by brackets if non-response was provided.

Table 3 MHAS/ENASEM 2001
Number of Income Sources Received by Number of Exact-Responses to Amount

No. of Sources with Exact Response	No. of Income Sources Received													
	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	100.00	13.09	6.68	3.25	2.52	4.12	3.50	6.90	5.33	0.00	0.00	0.00	0.00	
1		86.91	9.52	4.75	2.33	2.58	3.50	3.45	12.00	2.22	0.00	0.00	0.00	
2			83.80	12.18	4.66	2.06	0.96	1.97	2.67	8.89	0.00	0.00	0.00	
3				79.83	10.25	4.98	2.55	0.99	4.00	2.22	10.00	0.00	0.00	
4					80.24	11.17	5.41	3.94	1.33	0.00	10.00	0.00	0.00	
5						75.09	7.96	5.42	2.67	2.22	0.00	0.00	0.00	
6							76.11	7.88	8.00	0.00	0.00	0.00	0.00	
7								69.46	13.33	8.89	0.00	0.00	0.00	
8									50.67	6.67	0.00	16.67	0.00	
9										68.89	15.00	0.00	0.00	
10											65.00	16.67	0.00	
11												66.67	0.00	
12													100.00	
n=	1,063	2,246	2,605	1,601	1,073	582	314	203	75	45	20	6	1	9,834
% row	10.8%	22.8%	26.5%	16.3%	10.9%	5.9%	3.2%	2.1%	0.8%	0.5%	0.2%	0.1%	0.0%	100.0%

**Table 4. MHAS/ENASEM 2001
Number of Income Sources Received by Number of Exact- or Bracket-Responses to the Amount**

No. of Sources with Exact or Bracketed Response	No. of Income Sources Received													
	0	1	2	3	4	5	6	7	8	9	10	11	12	
0	100.00	6.86	3.03	1.69	1.49	2.41	2.23	5.91	1.33	0.00	0.00	0.00	0.00	
1		93.14	4.64	1.94	0.75	1.03	2.23	0.49	10.67	0.00	0.00	0.00	0.00	
2			92.32	5.75	2.14	1.37	0.32	2.46	1.33	4.44	0.00	0.00	0.00	
3				90.63	5.41	2.92	1.59	0.49	2.67	0.00	5.00	0.00	0.00	
4					90.21	5.50	2.55	0.99	0.00	0.00	5.00	0.00	0.00	
5						86.77	4.46	1.97	2.67	0.00	0.00	0.00	0.00	
6							86.62	5.42	2.67	2.22	0.00	0.00	0.00	
7								82.27	9.33	2.22	0.00	0.00	0.00	
8									69.33	4.44	0.00	0.00	0.00	
9										86.67	5.00	0.00	0.00	
10											85.00	33.33	0.00	
11												66.67	0.00	
12													100.00	
	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	TOTAL
n=	1,063	2,246	2,605	1,601	1,073	582	314	203	75	45	20	6	1	9,834
% row	10.8%	22.8%	26.5%	16.3%	10.9%	5.9%	3.2%	2.1%	0.8%	0.5%	0.2%	0.1%	0.0%	100.0%

**Table 5. MHAS/ENASEM 2001
Number of Assets Owned by Number of Exact-Responses to the Value**

No. of Assets with Exact Response	No. of Assets Owned										TOTAL
	0	1	2	3	4	5	6	7	8	10	
0	100.0	43.6	13.2	4.8	2.9	0.5	0.0	4.3	0.0	0.0	
1		56.4	26.4	13.4	5.4	3.6	1.8	0.0	0.0	0.0	
2			60.4	24.3	14.4	7.6	5.4	0.0	0.0	0.0	
3				57.5	25.9	12.6	10.2	4.3	7.1	0.0	
4					51.5	21.6	15.0	13.0	14.3	0.0	
5						54.2	22.8	19.6	0.0	0.0	
6							44.9	13.0	28.6	100.0	
7								45.7	21.4	0.0	
8									28.6	0.0	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
n=	956	2,757	2,794	1,782	877	421	167	46	14	1	9,815
% row	9.7%	28.1%	28.5%	18.2%	8.9%	4.3%	1.7%	0.5%	0.1%	0.0%	100.0%

**Table 6. MHAS/ENASEM 2001
Number of Assets Owned by Number of Exact- or Bracket-Responses to Value**

No. of Assets with Exact or Bracketed Response	No. of Assets Owned										TOTAL	
	0	1	2	3	4	5	6	7	8	10		
0	100.0	16.3	3.7	0.8	0.6	0.2	0.0	0.0	0.0	0.0	0.0	
1		83.7	9.1	2.7	1.0	0.0	0.6	0.0	0.0	0.0	0.0	
2			87.2	9.4	2.4	0.7	1.2	0.0	0.0	0.0	0.0	
3				87.1	11.9	3.3	1.2	0.0	0.0	0.0	0.0	
4					84.2	9.5	5.4	0.0	7.1	0.0	0.0	
5						86.2	14.4	8.7	0.0	0.0	0.0	
6							77.2	10.9	7.1	0.0	0.0	
7								80.4	14.3	0.0	0.0	
8									71.4	0.0	0.0	
10											100.0	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
n=	956	2,757	2,794	1,782	877	421	167	46	14	1	9,815	
%row	9.7%	28.1%	28.5%	18.2%	8.9%	4.3%	1.7%	0.5%	0.1%	0.0%	100.0%	

Table 7. MHAS/ENASEM 2001
Percent of Non-Response in Select Income Components by Main Characteristics of the Respondent (1/)

	Select Income Components						
	Own earned income (K44)	Spouse's earned income-1 (K50)	Business income-1 (K10_1)	Business expenditures-1 (K13_1)	Own retirement pension (K55a)	Family help income-1 (G18_1)	Family help income-2 (G18_2)
GENDER							
Male	2.05	1.04	2.40	2.49	0.29	3.12	1.34
Female	0.64	3.50	2.00	2.35	0.06	4.13	2.36
AGE							
Less than 50	0.48	2.76	2.27	2.27	0.00	0.60	0.00
50-59	1.43	3.20	2.70	2.78	0.10	1.84	1.07
60-69	0.99	1.78	1.95	2.17	0.07	4.51	2.50
70 and more	1.02	0.84	1.33	2.04	0.35	7.53	3.81
YEARS OF EDUCATION							
0	0.83	1.84	1.90	2.15	0.08	5.46	2.81
1 to 5	1.68	2.63	2.32	2.67	0.09	4.08	2.20
6	0.51	1.85	1.82	1.71	0.06	3.23	1.82
7 or more	1.10	3.26	2.37	2.79	0.37	1.91	0.95
URBAN/RURAL							
Less urban	1.32	2.16	2.85	3.37	0.03	4.61	2.53
More urban	1.04	2.64	1.79	1.91	0.20	3.37	1.74
NUMBER OF INDIVIDUALS							
One individual	1.14		1.44	1.68	0.16	6.16	3.68
Couple	1.12	2.47	2.68	2.96	0.13	1.92	0.69

Notes: (1/) Non-Response defined as not-providing an exact value or a bracketed value. Respondents who declared that they do not receive a particular source of income, are coded as having provided an exact value of zero.

Table 8. MHAS/ENASEM 2001
Percent of Non-Response in Select Net Worth Components by Main Characteristics of the Respondent

	Select Types of Assets				
	Gross value houses (J14)	Gross value business_1 (K8_1)	Net value capital assets (K29a)	Gross value vehicles (K36)	Net value other assets (K42) 2/
GENDER					
Male	6.2	5.5	1.0	1.7	22.1
Female	8.7	4.3	0.7	1.5	26.8
AGE					
Less than 50	6.6	4.1	1.0	2.4	27.6
50-59	7.2	5.5	0.9	1.7	24.2
60-69	8.0	4.3	0.5	1.3	25.4
70 and more	9.1	3.9	0.9	1.3	25.7
YEARS OF EDUCATION					
0	11.7	5.0	0.2	0.7	22.3
1 to 5	7.9	5.8	0.2	1.4	24.7
6	6.0	3.1	0.8	1.6	25.9
7 or more	4.8	4.0	2.4	2.6	28.4
URBAN/RURAL					
Less urban	10.0	7.0	0.4	1.1	19.4
More urban	6.7	3.6	1.0	1.7	28.0
NUMBER OF INDIVIDUALS					
One individual	8.4	3.5	0.7	1.0	25.3
Couple	7.4	5.6	0.9	2.0	25.1

Notes: (1) Non-Response defined as not-providing an exact value or a bracketed value. Respondents who declared that they do not own a particular type of asset, are coded as having declared an exact value of zero.

(2) The question on value of other-assets was *not* followed by brackets if a non-response was provided.

TABLE 9. GROUPS OF VARIABLES AND NAMES USED IN THE IMPUTATION PROCEDURE

GROUP 1. Respondent's Total Income Components (Own or Joint Income)				
	Income Component	Question Number	Derived Variable	Imputed Variable
1	Own earned income-1	K44	am44	imam44
2	Own earned income-2	K45	am45	imam45
3	Own earned income-3	K47	am47	imam47
4	Own earned income-4	K48	am48	imam48
5	Business income-1	K10_1	am10_1	imam10_1
6	Business income-2	K10_2	am10_2	imam10_2
7	Business expenditures-1	K13_1	am13_1	imam13_1
8	Business expenditures-2	K13_2	am13_2	imam13_2
9	Family help income_1	G18_1	am18_1	imam18_1
10	Family help income_2	G18_2	am18_2	imam18_2
11	Family help income_3	G18_3	am18_3	imam18_3
12	Family help income_4	G18_4	am18_4	imam18_4
13	Family help income_5	G18_5	am18_5	imam18_5
14	Family help income_6	G18_6	am18_6	imam18_6
15	Family help income_7	G18_7	am18_7	imam18_7
16	Property rent income-1	K24_1	am24_1	imam24_1
17	Property rent income-2	K24_2	am24_2	imam24_2
18	Property expenditures-1	K27_1	am27_1	imam27_1
19	Property expenditures-2	K27_2	am27_2	imam27_2
20	Capital assets income-1	K33_1	am33_1	imam33_1
21	Capital assets income-2	K33_2	am33_2	imam33_2
22	Capital assets income-3	K33_3	am33_3	imam33_3
23	Own pension income -retirement	K55a	am55a	imam55a
24	Own pension income -widow	K55b	am55b	imam55b
25	Own pension income -disability	K55c	am55c	imam55c
26	Own other pension income	K55d	am55d	imam55d
27	Own transfer income from institutions	K76a	am76a	imam76a
28	Own transfer income from individuals	K76b	am76b	imam76b

GROUP 2. Spouse's Total Income Components				
	Income Component	Question Number	Derived Variable	Imputed Variable
1	Spouse's earned income-1	K50	am50	imam50
2	Spouse's earned income-2	K51	am51	imam51
3	Spouse's earned income-3	K53	am53	imam53
4	Spouse's earned income-4	K54	am54	imam54
5	Spouse's pension income - retirement	K61a	am61a	imam61a
6	Spouse's pension income - widow	K61b	am61b	imam61b
7	Spouse's pension income - disability	K61c	am61c	imam61c
8	Spouse's other pension income	K61d	am61d	imam61d
9	Spouse's transfer income from institutions	K79a	am79a	imam79a
10	Spouse's transfer income from individuals	K79b	am79b	imam79b

GROUP 3. Components of Individual (or Couple) Total Net Worth and Household Consumption

	Concept	Question Number	Derived Variable	Imputed Variable
1	Other debts	K82	am82	imam82
2	Total cost household consumption	K85	am85	imam85
3	Gross value houses/apartments	J14	amj14	imamj14
4	Total debt mortgages/loans	J18	amj18	imamj18
5	Total debt houses/apartments	J20	amj20	imamj20
6	Net value other houses/apartments	J26	amj26	imamj26
7	Gross value vehicles	K36	amk36	imamk36
8	Total debt vehicles	K37	amk37	imamk37
9	Net value other assets	K42	amk42	imamk42
10	Total debt other real estate properties_1	K17_1	amk17_1	imamk17_1
11	Total debt other real estate properties_2	K17_2	amk17_2	imamk17_2
12	Gross value other real estate properties_1	K22_1	amk22_1	imamk22_1
13	Gross value other real estate properties_2	K22_2	amk22_2	imamk22_2
14	Net value capital assets_1	K29a	amk29a	imamk29a
15	Net value capital assets_2	K29b	amk29b	imamk29b
16	Net value capital assets_3	K29c	amk29c	imamk29c
17	Total debt business_1	K3_1	amk3_1	imamk3_1
18	Total debt business_2	K3_2	amk3_2	imamk3_2
19	Gross value business_1	K8_1	amk8_1	imamk8_1
20	Gross value business_2	K8_2	amk8_2	imamk8_2

GROUP 4. Hospitalizations and other utilization of services - D6, D9

	Variable Names	Question Number	Constructed Variable	Imputed Variable
1	Total hospitalization costs	D6	amd6	imamd6
2	Total "curandero" (folkhealer) costs	D9_1	amd9_1	imamd9_1
3	Total homeopath costs	D9_2	amd9_2	imamd9_2
4	Total dentist costs	D9_3	amd9_3	imamd9_3
5	Total outpatient procedure costs	D9_4	amd9_4	imamd9_4
6	Total medical visits costs	D9_5	amd9_5	imamd9_5

GROUP 5. Household Monthly Rent - J12

	Variable Names	Question Number	Derived Variable	Imputed Variable
1	Total cost of monthly rent	J12	amj12	imamj12

GROUP 6. Help Given - G6

	Variable Names	Question Number	Derived Variable	Imputed Variable
1	Financial assistance given_1	G6_1	am6_1	imam6_1
2	Financial assistance given_2	G6_2	am6_2	imam6_2
3	Financial assistance given_3	G6_3	am6_3	imam6_3
4	Financial assistance given_4	G6_4	am6_4	imam6_4
5	Financial assistance given_5	G6_5	am6_5	imam6_5
6	Financial assistance given_6	G6_6	am6_6	imam6_6
7	Financial assistance given_7	G6_7	am6_7	imam6_7

**TABLES 10. Distribution of Select Derived and Imputed Variables by
Range of Amount.**

SELECT INCOME SOURCES

Table 10.1

Own earned Income-1

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 1000	515	21.6	539	21.0
1,001 - 1,760	438	18.4	453	17.7
1,761 - 2,800	519	21.8	531	20.7
2,801 - 4,500	438	18.4	463	18.1
>4,500	472	19.8	579	22.6
Sub-total	2,382	100.0	2,565	100.0
0	7,246	75.3	7,246	73.9
Total	9,628		9,811	

Table 10.2

Spouse's earned income-1

Amount	Original Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 1,200	387	21.8	412	20.3
1,201 - 2,000	423	23.8	443	21.8
2,001 - 3,000	348	19.6	376	18.5
3,001 - 5,000	317	17.8	372	18.3
>5,000	301	16.9	430	21.2
Sub-total	1,776	100.0	2,033	100.0
0	3,480	66.2	3,480	63.1
Total	5,256		5,513	

Table 10.3**Business income-1**

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 800	357	20.5	364	17.6
801 - 2,000	437	25.1	449	21.6
2,001 - 4,000	292	16.7	309	14.9
4,001 - 9,000	317	18.2	363	17.5
>9,000	341	19.6	589	28.4
Sub-total	1,744	100.0	2,074	100.0
0	7,675	81.5	7,737	78.9
Total	9,419		9,811	

Table 10.4**Business expenditures-1**

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 350	385	20.5	386	17.9
351 - 1,000	498	26.5	502	23.3
1,001 - 2,000	310	16.5	319	14.8
2,001 - 5,000	356	19.0	395	18.3
>5,000	329	17.5	554	25.7
Sub-total	1,878	100.0	2,156	100.0
0	7,531	80.0	7,655	78.0
Total	9,409		9,811	

Table 10.5**Own pension income retirement**

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 1,200	366	35.9	381	35.8
1,201 - 2,999	339	33.3	345	32.4
>=3,000	314	30.8	338	31.8
Sub-total	1,019	100.0	1,064	100.0
0	8,747	89.6	8,747	89.2
Total	9,766		9,811	

Table 10.6**Family help income-1**

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 – 4,800	607	20.7	671	19.9
4,801 - 9,600	595	20.3	609	18.1
9,601 - 19,000	558	19.1	568	16.9
19,001 - 31,200	657	22.4	678	20.1
>31,200	511	17.5	839	24.9
Sub-total	2,928	100.0	3,365	100.0
0	6,387	68.6	6,469	65.8
Total	9,315		9,834	

Table 10.7**Family help income-2**

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 4,750	337	18.2	386	18.0
4,751 - 7,200	447	24.1	448	20.9
7,201 - 12,000	336	18.1	338	15.8
12,001 - 24,000	406	21.9	409	19.1
>24,000	326	17.6	565	26.3
Sub-total	1,852	100.0	2,146	100.0
0	7,688	80.6	7,688	78.2
Total	9,540		9,834	

SELECT NET WORTH COMPONENTS**Table 10.8****Gross value houses**

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 50,000	1,053	22.6	1,254	16.8
50,001 - 100,000	1,022	22.0	1,468	19.6
100,001 - 200,000	1,177	25.3	1,648	22.1
200,001 - 300,000	596	12.8	1,070	14.3
>300,000	804	17.3	2,033	27.2
Sub-total	4,652	100.0	7,474	100.0
0	2,329	33.4	2,342	23.9
Total	6,981		9,815	

Table 10.9**Gross value business-1**

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 2,000	328	20.1	347	13.2
2,001 - 12,000	331	20.3	391	14.8
12,001 - 42,000	323	19.8	459	17.4
42,001 - 120,000	327	20.0	519	19.7
>120,000	324	19.8	920	34.9
Sub-total	1,633	100.0	2,631	100.0
0	7,172	81.5	7,175	73.1
Total	8,805		9,811	

Table 10.10**Net value capital assets**

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 5,000	159	21.0	179	16.7
5,001 - 12,000	155	20.4	193	18.0
12,001 - 30,000	180	23.7	228	21.3
30,001 - 60,000	132	17.4	190	17.7
>60,000	133	17.5	281	26.2
Sub-total	759	100.0	1,071	100.0
0	8,740	92.0	8,740	89.1
Total	9,499		9,811	

Table 10.11**Gross value vehicles**

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 12,000	451	20.6	477	18.7
12,001 - 22,000	464	21.2	484	19.0
22,001 - 36,000	409	18.7	435	17.1
36,001 - 75,000	464	21.2	555	21.8
>75,000	402	18.4	597	23.4
Sub-total	2,190	100.0	2,548	100.0
0	7,242	76.8	7,263	74.0
Total	9,432		9,811	

Table 10.12**Net value other assets**

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 3,000	1,134	26.2	1,147	19.8
3,001 - 7,000	680	15.7	700	12.1
7,001 - 15,000	954	22.0	999	17.2
15,001 - 40,000	751	17.3	886	15.3
>40,000	817	18.8	2,070	35.7
Sub-total	4,336	100.0	5,791	100.0
0	3,006	40.9	4,009	41.0
Total	7,342		9,811	

Tables 11. Variables Used in the Calculation of Total Income and Total Net Worth.

Table 11.1 Total (Individual or Couple) Income Components

List of variables according to treatment given for the calculation of total income.

Variable Name	Question Number	Derived Variable	Imputed Variable	Treatment
Added variables				
Own earned income-1	K44	am44	imam44	individual
Own earned income-2	K45	am45	imam45	individual
Own earned income-3	K47	am47	imam47	individual
Own earned income-4	K48	am48	imam48	individual
Business income-1	K10_1	am10_1	imam10_1	joint
Business income-2	K10_2	am10_2	imam10_2	joint
Family help income_1	G18_1	am18_1	imam18_1	joint
Family help income_2	G18_2	am18_2	imam18_2	joint
Family help income_3	G18_3	am18_3	imam18_3	joint
Family help income_4	G18_4	am18_4	imam18_4	joint
Family help income_5	G18_5	am18_5	imam18_5	joint
Family help income_6	G18_6	am18_6	imam18_6	joint
Family help income_7	G18_7	am18_7	imam18_7	joint
Property rent income-1	K24_1	am24_1	imam24_1	joint
Property rent income-2	K24_2	am24_2	imam24_2	joint
Capital assets income-1	K33_1	am33_1	imam33_1	joint
Capital assets income-2	K33_2	am33_2	imam33_2	joint
Capital assets income-3	K33_3	am33_3	imam33_3	joint
Own pension income -retirement	K55a	am55a	imam55a	individual
Own pension income -widow	K55b	am55b	imam55b	individual
Own pension income -disability	K55c	am55c	imam55c	individual
Own other pension income	K55d	am55d	imam55d	individual
Own transfer income from institutions	K76a	am76a	imam76a	individual
Own transfer income from individuals	K76b	am76b	imam76b	individual
Spouse's earned income-1	K50	am50	imam50	individual
Spouse's earned income-2	K51	am51	imam51	individual
Spouse's earned income-3	K53	am53	imam53	individual
Spouse's earned income-4	K54	am54	imam54	individual
Spouse's pension income - retirement	K61a	am61a	imam61a	individual
Spouse's pension income - widow	K61b	am61b	imam61b	individual
Spouse's pension income - disability	K61c	am61c	imam61c	individual
Spouse's other pension income	K61d	am61d	imam61d	individual
Spouse's transfer income from institutions	K79a	am79a	imam79a	individual
Spouse's transfer income from individuals	K79b	am79b	imam79b	individual
Subtracted variables				
Business expenditures-1	K13_1	am13_1	imam13_1	joint
Business expenditures-2	K13_2	am13_2	imam13_2	joint
Property expenditures-1	K27_1	am27_1	imam27_1	joint
Property expenditures-2	K27_2	am27_2	imam27_2	joint

Table 11.2 Total (Individual or Couple) Net Worth Components.

List of variables according to treatment given for the calculation of total net worth.

Variable Name	Question Number	Derived Variable	Imputed Variable	Treatment
Added variables				
Gross value houses/apartments	J14	amj14	imamj14	joint
Net value other houses/apartments	J26	amj26	imamj26	joint
Gross value vehicles	K36	amk36	imamk36	joint
Net value other assets	K42	amk42	imamk42	joint
Gross value other real estate properties_1	K22_1	amk22_1	imamk22_1	joint
Gross value other real estate properties_2	K22_2	amk22_2	imamk22_2	joint
Net value capital assets_1	K29a	amk29a	imamk29a	joint
Net value capital assets_2	K29b	amk29b	imamk29b	joint
Net value capital assets_3	K29c	amk29c	imamk29c	joint
Gross value business_1	K8_1	amk8_1	imamk8_1	joint
Gross value business_2	K8_2	amk8_2	imamk8_2	joint
Subtracted variables				
Other debts	K82	am82	imam82	joint
Total debt houses/apartments	J20	amj20	imamj20	joint
Total debt vehicles	K37	amk37	imamk37	joint
Total debt other real estate properties_1	K17_1	amk17_1	imamk17_1	joint
Total debt other real estate properties_2	K17_2	amk17_2	imamk17_2	joint
Total debt business_1	K3_1	amk3_1	imamk3_1	joint
Total debt business_2	K3_2	amk3_2	imamk3_2	joint

**TABLES 12. Distribution of Income and Assets (Derived and Imputed)
by Range of Amount**

Table 12.1

Total Individual Income

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 599	1,825	19.18	2,030	17.19
600 - 1,299	1,974	20.74	2,148	18.19
1,300 - 2,314	1,912	20.09	2,128	18.02
2,315 - 4,349	1,909	20.06	2,256	19.11
>=4,350	1,896	19.92	3,245	27.48
Sub-total	9,516	100.00	11,807	100.00
<=0	3,103	24.59	3,505	22.89
Total	12,619		15,312	

Table 12.2

Total (Individual or Couple) Net Worth

Amount	Derived Variable		Imputed Variable	
	Freq.	%	Freq.	%
1 - 29,999	831	19.61	988	11.02
30,000 - 89,999	838	19.77	1,320	14.72
90,000 - 187,999	873	20.60	1,645	18.34
188,000 - 354,999	843	19.89	1,913	21.33
>=355,000	853	20.13	3,103	34.60
Sub-total	4,238	100.00	8,969	100.00
<=0	649	13.28	842	8.58
Total	4,887		9,811	

Appendix A

**Appendix A. Distribution of Responses by Amount and Type of Response.
All Imputed Variables**

Appendix A.1.1 MHAS/ENASEM 2001

Own earned income-1 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	7246	73.86	7246	100.00		
\$1	\$1,000	530	5.40	515	97.17	15	2.83
\$1,001	\$4,000	1374	14.00	1356	98.69	18	1.31
\$4,001	\$8,000	343	3.50	323	94.17	20	5.83
\$8,001	∞	198	2.02	188	94.95	10	5.05
\$4,001	∞	6	0.06			6	100.00
\$1	\$4,000	3	0.03			3	100.00
\$1	∞	0	0.00				
DK/NR		111	1.13				
TOTAL		9811	100.00				

Appendix A.1.2 MHAS/ENASEM 2001

Own earned income-2 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	8652	88.19	8652	100.00		
\$1	\$1,000	290	2.96	281	96.90	9	3.10
\$1,001	\$4,000	425	4.33	419	98.59	6	1.41
\$4,001	\$8,000	193	1.97	186	96.37	7	3.63
\$8,001	∞	211	2.15	209	99.05	2	0.95
\$4,001	∞	0	0.00				
\$1	\$4,000	4	0.04			4	100.00
\$1	∞	0	0.00				
DK/NR		36	0.37				
TOTAL		9811	100.00				

Appendix A.1.3 MHAS/ENASEM 2001**Own earned income-3 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9715	99.02	9715	100.00		
\$1	\$1,000	37	0.38	37	100.00		
\$1,001	\$4,000	41	0.42	39	95.12	2	4.88
\$4,001	\$8,000	9	0.09	8	88.89	1	11.11
\$8,001	∞	4	0.04	3	75.00	1	25.00
\$4,001	∞	0	0.00				
\$1	\$4,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	5	0.05				
TOTAL		9811	100.00				

Appendix A.1.4 MHAS/ENASEM 2001**Own earned income-4 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9783	99.71	9783	100.00		
\$1	\$1,000	8	0.08	7	87.50	1	12.50
\$1,001	\$4,000	8	0.08	8	100.00		
\$4,001	\$8,000	5	0.05	4	80.00	1	20.00
\$8,001	∞	4	0.04	4	100.00		
\$4,001	∞	0	0.00				
\$1	\$4,000	1	0.01			1	100.00
\$1	∞	0	0.00				
	DK/NR	2	0.02				
TOTAL		9811	100.00				

Appendix A.1.5 MHAS/ENASEM 2001
Spouse's earned income-1 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
				n	%	n	%Row
\$0	\$0	3480	63.12	3480	100.00		
\$1	\$1,000	286	5.19	273	95.45	13	4.55
\$1,001	\$4,000	1138	20.64	1096	96.31	42	3.69
\$4,001	\$8,000	299	5.42	267	89.30	32	10.70
\$8,001	∞	164	2.97	140	85.37	24	14.63
\$4,001	∞	10	0.18			10	100.00
\$1	\$4,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		136	2.47				
TOTAL		5513	100.00				

Appendix A.1.6 MHAS/ENASEM 2001
Spouse's earned income-2 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
				n	%	n	%Row
\$0	\$0	4628	83.95	4628	100.00		
\$1	\$1,000	211	3.83	199	94.31	12	5.69
\$1,001	\$4,000	300	5.44	279	93.00	21	7.00
\$4,001	\$8,000	166	3.01	150	90.36	16	9.64
\$8,001	∞	144	2.61	134	93.06	10	6.94
\$4,001	∞	1	0.02			1	100.00
\$1	\$4,000	3	0.05			3	100.00
\$1	∞	0	0.00				
DK/NR		60	1.09				
TOTAL		5513	100.00				

Appendix A.1.7 MHAS/ENASEM 2001**Spouse's earned income-3 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	5463	99.09	5463	100.00		
\$1	\$1,000	21	0.38	20	95.24	1	4.76
\$1,001	\$4,000	15	0.27	14	93.33	1	6.67
\$4,001	\$8,000	5	0.09	4	80.00	1	20.00
\$8,001	∞	3	0.05	2	66.67	1	33.33
\$4,001	∞	0	0.00				
\$1	\$4,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		6	0.11				
TOTAL		5513	100.00				

Appendix A.1.8 MHAS/ENASEM 2001**Spouse's earned income-4 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	5501	99.78	5501	100.00		
\$1	\$1,000	1	0.02	1	100.00		
\$1,001	\$4,000	3	0.05	1	33.33	2	66.67
\$4,001	\$8,000	3	0.05	2	66.67	1	33.33
\$8,001	∞	3	0.05	2	66.67	1	33.33
\$4,001	∞	0	0.00				
\$1	\$4,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		2	0.04				
TOTAL		5513	100.00				

Appendix A.1.9 MHAS/ENASEM 2001**Business income-1 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	7675	78.23	7675	100.00		
\$1	\$10,000	1565	15.95	1482	94.70	83	5.30
\$10,001	\$30,000	240	2.45	183	76.25	57	23.75
\$30,001	\$100,000	83	0.85	55	66.27	28	33.73
\$100,001	∞	32	0.33	24	75.00	8	25.00
\$30,001	∞	3	0.03			3	100.00
\$1	\$30,000	3	0.03			3	100.00
\$1	∞	0	0.00				
	DK/NR	210	2.14				
TOTAL		9811	100.00				

Appendix A.1.10 MHAS/ENASEM 2001**Business income-2 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9613	97.98	9613	100.00		
\$1	\$10,000	154	1.57	149	96.75	5	3.25
\$10,001	\$30,000	14	0.14	11	78.57	3	21.43
\$30,001	\$100,000	6	0.06	3	50.00	3	50.00
\$100,001	∞	2	0.02	1	50.00	1	50.00
\$30,001	∞	0	0.00				
\$1	\$30,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	22	0.22				
TOTAL		9811	100.00				

Appendix A.1.11 MHAS/ENASEM 2001
Business expenditures-1 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
				n	%	n	%Row
\$0	\$0	7531	76.76	7531	100.00		
\$1	\$10,000	1796	18.31	1705	94.93	91	5.07
\$10,001	\$30,000	152	1.55	116	76.32	36	23.68
\$30,001	\$100,000	63	0.64	40	63.49	23	36.51
\$100,001	∞	25	0.25	17	68.00	8	32.00
\$30,001	∞	5	0.05			5	100.00
\$1	\$30,000	4	0.04			4	100.00
\$1	∞	0	0.00				
	DK/NR	235	2.40				
TOTAL		9811	100.00				

Appendix A.1.12 MHAS/ENASEM 2001
Business expenditures-2 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
				n	%	n	%Row
\$0	\$0	9608	97.93	9608	100.00		
\$1	\$10,000	164	1.67	159	96.95	5	3.05
\$10,001	\$30,000	12	0.12	9	75.00	3	25.00
\$30,001	\$100,000	5	0.05	1	20.00	4	80.00
\$100,001	∞	1	0.01	1	100.00		
\$30,001	∞	1	0.01			1	100.00
\$1	\$30,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	20	0.20				
TOTAL		9811	100.00				

Appendix A.1.13 MHAS/ENASEM 2001
Property rent income-1 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
				n	%Row	n	%Row
\$0	\$0	9465	96.47	9465	100.00		
\$1	\$1,000	134	1.37	131	97.76	3	2.24
\$1,001	\$3,000	78	0.80	75	96.15	3	3.85
\$3,001	\$9,000	61	0.62	56	91.80	5	8.20
\$9,001	∞	47	0.48	41	87.23	6	12.77
\$3,001	∞	0	0.00				
\$1	\$3,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		26	0.27				
TOTAL		9811	100.00				

Appendix A.1.14 MHAS/ENASEM 2001
Property rent income-2 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
				n	%Row	n	%Row
\$0	\$0	9784	99.72	9784	100.00		
\$1	\$1,000	4	0.04	4	100.00		
\$1,001	\$3,000	2	0.02	1	50.00	1	50.00
\$3,001	\$9,000	7	0.07	7	100.00		
\$9,001	∞	1	0.01	1	100.00		
\$3,001	∞	1	0.01			1	100.00
\$1	\$3,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		12	0.12				
TOTAL		9811	100.00				

Appendix A.1.15 MHAS/ENASEM 2001**Property expenditures-1 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9560	97.44	9560	100.00		
\$1	\$100	41	0.42	37	90.24	4	9.76
\$101	\$400	43	0.44	38	88.37	5	11.63
\$401	\$1,300	57	0.58	46	80.70	11	19.30
\$1,301	∞	69	0.70	59	85.51	10	14.49
\$401	∞	1	0.01			1	100.00
\$1	\$400	1	0.01			1	100.00
\$1	∞	0	0.00				
	DK/NR	39	0.40				
TOTAL		9811	100.00				

Appendix A.1.16 MHAS/ENASEM 2001**Property expenditures-2 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9787	99.76	9787	100.00		
\$1	\$100	2	0.02	2	100.00		
\$101	\$400	1	0.01	1	100.00		
\$401	\$1,300	3	0.03	2	66.67	1	33.33
\$1,301	∞	5	0.05	5	100.00		
\$401	∞	0	0.00				
\$1	\$400	0	0.00				
\$1	∞	0	0.00				
	DK/NR	13	0.13				
TOTAL		9811	100.00				

Appendix A.1.17 MHAS/ENASEM 2001**Capital assets income-1 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9129	93.05	9129	100.00		
\$1	\$100	146	1.49	121	82.88	25	17.12
\$101	\$200	81	0.83	55	67.90	26	32.10
\$201	\$1,000	155	1.58	109	70.32	46	29.68
\$1,001	∞	138	1.41	74	53.62	64	46.38
\$201	∞	12	0.12			12	100.00
\$1	\$200	2	0.02			2	100.00
\$1	∞	0	0.00				
	DK/NR	148	1.51				
TOTAL		9811	100.00				

Appendix A.1.18 MHAS/ENASEM 2001**Capital assets income-2 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9799	99.88	9799	100.00		
\$1	\$100	0	0.00				
\$101	\$200	1	0.01	1	100.00		
\$201	\$1,000	2	0.02	2	100.00		
\$1,001	∞	3	0.03	2	66.67	1	33.33
\$201	∞	0	0.00				
\$1	\$200	0	0.00				
\$1	∞	0	0.00				
	DK/NR	6	0.06				
TOTAL		9811	100.00				

Appendix A.1.19 MHAS/ENASEM 2001**Capital assets income-3 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9795	99.84	9795	100.00		
\$1	\$100	1	0.01			1	100.00
\$101	\$200	0	0.00				
\$201	\$1,000	2	0.02	2	100.00		
\$1,001	∞	10	0.10	3	30.00	7	70.00
\$201	∞	0	0.00				
\$1	\$200	0	0.00				
\$1	∞	0	0.00				
	DK/NR	3	0.03				
TOTAL		9811	100.00				

Appendix A.1.20 MHAS/ENASEM 2001**Own pension income retirement - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	8747	89.16	8747	100.00		
\$1	\$500	30	0.31	24	80.00	6	20.00
\$501	\$1,000	87	0.89	83	95.40	4	4.60
\$1,001	\$4,000	721	7.35	711	98.61	10	1.39
\$4,001	∞	210	2.14	201	95.71	9	4.29
\$1,001	∞	1	0.01			1	100.00
\$1	\$1,000	1	0.01			1	100.00
\$1	∞	0	0.00				
	DK/NR	14	0.14				
TOTAL		9811	100.00				

Appendix A.1.21 MHAS/ENASEM 2001**Spouse's pension income retirement - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	4915	89.15	4915	100.00		
\$1	\$500	15	0.27	14	93.33	1	6.67
\$501	\$1,000	38	0.69	37	97.37	1	2.63
\$1,001	\$4,000	439	7.96	417	94.99	22	5.01
\$4,001	∞	87	1.58	78	89.66	9	10.34
\$1,001	∞	4	0.07			4	100.00
\$1	\$1,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		15	0.27				
TOTAL		5513	100.00				

Appendix A.1.22 MHAS/ENASEM 2001**Own pension income widow - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9317	94.96	9317	100.00		
\$1	\$500	31	0.32	30	96.77	1	3.23
\$501	\$1,000	99	1.01	98	98.99	1	1.01
\$1,001	\$4,000	340	3.47	335	98.53	5	1.47
\$4,001	∞	18	0.18	18	100.00		
\$1,001	∞	1	0.01			1	100.00
\$1	\$1,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		5	0.05				
TOTAL		9811	100.00				

Appendix A.1.23 MHAS/ENASEM 2001

Spouse's pension income widow - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
				n	%Row	n	%Row
\$0	\$0	5510	99.95	5510	100.00		
\$1	\$500	0	0.00				
\$501	\$1,000	1	0.02	1	100.00		
\$1,001	\$4,000	1	0.02	1	100.00		
\$4,001	∞	0	0.00				
\$1,001	∞	0	0.00				
\$1	\$1,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		1	0.02				
TOTAL		5513	100.00				

Appendix A.1.24 MHAS/ENASEM 2001

Own pension income disability - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
				n	%Row	n	%Row
\$0	\$0	9716	99.03	9716	100.00		
\$1	\$500	11	0.11	11	100.00		
\$501	\$1,000	15	0.15	15	100.00		
\$1,001	\$4,000	60	0.61	59	98.33	1	1.67
\$4,001	∞	8	0.08	8	100.00		
\$1,001	∞	0	0.00				
\$1	\$1,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		1	0.01				
TOTAL		9811	100.00				

Appendix A.1.25 MHAS/ENASEM 2001

Spouse's pension income disability - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
				n	%Row	n	%Row
\$0	\$0	5442	98.71	5442	100.00		
\$1	\$500	9	0.16	9	100.00		
\$501	\$1,000	14	0.25	12	85.71	2	14.29
\$1,001	\$4,000	45	0.82	43	95.56	2	4.44
\$4,001	∞	2	0.04	2	100.00		
\$1,001	∞	1	0.02			1	100.00
\$1	\$1,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		0	0.00				
TOTAL		5513	100.00				

Appendix A.1.26 MHAS/ENASEM 2001

Own other pension income - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
				n	%Row	n	%Row
\$0	\$0	9744	99.32	9744	100.00		
\$1	\$500	12	0.12	12	100.00		
\$501	\$1,000	7	0.07	7	100.00		
\$1,001	\$4,000	33	0.34	31	93.94	2	6.06
\$4,001	∞	14	0.14	14	100.00		
\$1,001	∞	0	0.00				
\$1	\$1,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		1	0.01				
TOTAL		9811	100.00				

Appendix A.1.27 MHAS/ENASEM 2001**Spouse's other pension income - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	5496	99.71	5496	100.00		
\$1	\$500	3	0.05	3	100.00		
\$501	\$1,000	2	0.04	2	100.00		
\$1,001	\$4,000	7	0.13	7	100.00		
\$4,001	∞	4	0.07	4	100.00		
\$1,001	∞	0	0.00				
\$1	\$1,000	0	0.00				
\$1	∞	0	0.00				
DK/NR		0	0.00				
TOTAL		5512	100.00				

Appendix A.1.28.1 MHAS/ENASEM 2001**Family help income-1 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	6387	64.95	6387	100.00		
\$1	\$2,400	234	2.38	211	90.17	23	9.83
\$2,401	\$5,000	491	4.99	449	91.45	42	8.55
\$5,001	∞	2341	23.81	2268	96.88	73	3.12
\$1	\$5,000	9	0.09			9	100.00
\$1	∞	0	0.00				
DK/NR		372	3.78				
TOTAL		9834	100.00				

Appendix A.1.28.2 MHAS/ENASEM 2001**Family help income-2 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	7688	78.18	7688	100.00		
\$1	\$2,400	263	2.67	244	92.78	19	7.22
\$2,401	\$5,000	359	3.65	329	91.64	30	8.36
\$5,001	∞	1321	13.43	1279	96.82	42	3.18
\$1	\$5,000	6	0.06			6	100.00
\$1	∞	0	0.00				
	DK/NR	197	2.00				
	TOTAL	9834	100.00				

Appendix A.1.28.3 MHAS/ENASEM 2001**Family help income-3 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	8648	87.94	8648	100.00		
\$1	\$2,400	202	2.05	193	95.54	9	4.46
\$2,401	\$5,000	211	2.15	190	90.05	21	9.95
\$5,001	∞	650	6.61	633	97.38	17	2.62
\$1	\$5,000	1	0.01			1	100.00
\$1	∞	0	0.00				
	DK/NR	122	1.24				
	TOTAL	9834	100.00				

Appendix A.1.28.4 MHAS/ENASEM 2001**Family help income-4 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9228	93.84	9228	100.00		
\$1	\$2,400	114	1.16	104	91.23	10	8.77
\$2,401	\$5,000	115	1.17	100	86.96	15	13.04
\$5,001	∞	293	2.98	282	96.25	11	3.75
\$1	\$5,000	1	0.01			1	100.00
\$1	∞	0	0.00				
	DK/NR	83	0.84				
	TOTAL	9834	100.00				

Appendix A.1.28.5 MHAS/ENASEM 2001
Family help income-5 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9523	96.84	9523	100.00		
\$1	\$2,400	63	0.64	59	93.65	4	6.35
\$2,401	\$5,000	61	0.62	49	80.33	12	19.67
\$5,001	∞	126	1.28	120	95.24	6	4.76
\$1	\$5,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	61	0.62				
TOTAL		9834	100.00				

Appendix A.1.28.6 MHAS/ENASEM 2001
Family help income-6 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9662	98.25	9662	100.00		
\$1	\$2,400	33	0.34	31	93.94	2	6.06
\$2,401	\$5,000	40	0.41	32	80.00	8	20.00
\$5,001	∞	63	0.64	59	93.65	4	6.35
\$1	\$5,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	36	0.37				
TOTAL		9834	100.00				

Appendix A.1.28.7 MHAS/ENASEM 2001
Family help income-7 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9736	99.00	9736	100.00		
\$1	\$2,400	16	0.16	16	100.00		
\$2,401	\$5,000	27	0.27	21	77.78	6	22.22
\$5,001	∞	31	0.32	28	90.32	3	9.68
\$1	\$5,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	24	0.24				
TOTAL		9834	100.00				

Appendix A.2.1 MHAS/ENASEM 2001**Gross value houses/apartments - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	2329	23.73	2329	100.00		
\$1	\$50,000	1185	12.07	1053	88.86	132	11.14
\$50,001	\$100,000	1395	14.21	1022	73.26	373	26.74
\$100,001	\$500,000	3327	33.90	2233	67.12	1094	32.88
\$500,001	∞	674	6.87	344	51.04	330	48.96
\$100,001	∞	115	1.17			115	100.00
\$1	\$100,000	23	0.23			23	100.00
\$1	∞	0	0.00				
	DK/NR	767	7.81				
TOTAL		9815	100.00				

Appendix A.2.2 MHAS/ENASEM 2001**Total debt houses/apartments - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9412	95.89	9412	100.00		
\$1	\$50,000	109	1.11	101	92.66	8	7.34
\$50,001	\$100,000	51	0.52	32	62.75	19	37.25
\$100,001	\$250,000	58	0.59	36	62.07	22	37.93
\$250,001	∞	13	0.13	9	69.23	4	30.77
\$100,001	∞	4	0.04			4	100.00
\$1	\$100,000	2	0.02			2	100.00
\$1	∞	0	0.00				
	DK/NR	166	1.69				
TOTAL		9815	100.00				

Appendix A.2.3 MHAS/ENASEM 2001**Net value other houses/apartments - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	8916	90.84	8916	100.00		
\$1	\$50,000	174	1.77	152	87.36	22	12.64
\$50,001	\$100,000	156	1.59	113	72.44	43	27.56
\$100,001	\$500,000	365	3.72	262	71.78	103	28.22
\$500,001	∞	76	0.77	44	57.89	32	42.11
\$100,001	∞	4	0.04			4	100.00
\$1	\$100,000	6	0.06			6	100.00
\$1	∞	0	0.00				
	DK/NR	118	1.20				
TOTAL		9815	100.00				

Appendix A.2.4a MHAS/ENASEM 2001**Gross value business-1 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	7172	73.10	7172	100.00		
\$1	\$25,000	982	10.01	843	85.85	139	14.15
\$25,001	\$75,000	452	4.61	297	65.71	155	34.29
\$75,001	\$250,000	440	4.48	322	73.18	118	26.82
\$250,001	∞	275	2.80	171	62.18	104	37.82
\$75,001	∞	17	0.17			17	100.00
\$1	\$75,000	12	0.12			12	100.00
\$1	∞	0	0.00				
	DK/NR	461	4.70				
TOTAL		9811	100.00				

Appendix A.2.4b MHAS/ENASEM 2001**Gross value business-2 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9568	97.52	9568	100.00		
\$1	\$25,000	121	1.23	106	87.60	15	12.40
\$25,001	\$75,000	32	0.33	30	93.75	2	6.25
\$75,001	\$250,000	30	0.31	23	76.67	7	23.33
\$250,001	∞	17	0.17	13	76.47	4	23.53
\$75,001	∞	1	0.01			1	100.00
\$1	\$75,000	2	0.02			2	100.00
\$1	∞	0	0.00				
	DK/NR	40	0.41				
TOTAL		9811	100.00				

Appendix A.2.5a MHAS/ENASEM 2001**Total debt business-1 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9575	97.59	9575	100.00		
\$1	\$25,000	100	1.02	92	92.00	8	8.00
\$25,001	\$75,000	24	0.24	20	83.33	4	16.67
\$75,001	\$250,000	15	0.15	11	73.33	4	26.67
\$250,001	∞	12	0.12	11	91.67	1	8.33
\$75,001	∞	2	0.02			2	100.00
\$1	\$75,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	83	0.85				
TOTAL		9811	100.00				

Appendix A.2.5b MHAS/ENASEM 2001**Total debt business-2 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9781	99.69	9781	100.00		
\$1	\$25,000	12	0.12	11	91.67	1	8.33
\$25,001	\$75,000	1	0.01	1	100.00		
\$75,001	\$250,000	2	0.02			2	100.00
\$250,001	∞	1	0.01	1	100.00		
\$75,001	∞	0	0.00				
\$1	\$75,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	14	0.14				
TOTAL		9811	100.00				

Appendix A.2.6a MHAS/ENASEM 2001**Gross value other real state properties-1 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9114	92.90	9114	100.00		
\$1	\$50,000	184	1.88	164	89.13	20	10.87
\$50,001	\$100,000	128	1.30	87	67.97	41	32.03
\$100,001	\$250,000	198	2.02	150	75.76	48	24.24
\$250,001	∞	114	1.16	55	48.25	59	51.75
\$100,001	∞	6	0.06			6	100.00
\$1	\$100,000	2	0.02			2	100.00
\$1	∞	0	0.00				
	DK/NR	65	0.66				
TOTAL		9811	100.00				

Appendix A.2.6b MHAS/ENASEM 2001**Gross value other real state properties-2 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9771	99.59	9771	100.00		
\$1	\$50,000	7	0.07	7	100.00		
\$50,001	\$100,000	3	0.03	3	100.00		
\$100,001	\$250,000	13	0.13	12	92.31	1	7.69
\$250,001	∞	4	0.04	1	25.00	3	75.00
\$100,001	∞	0	0.00				
\$1	\$100,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	13	0.13				
TOTAL		9811	100.00				

Appendix A.2.7a MHAS/ENASEM 2001**Total debt other real state properties-1 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9766	99.54	9766	100.00		
\$1	\$50,000	14	0.14	12	85.71	2	14.29
\$50,001	\$100,000	3	0.03	2	66.67	1	33.33
\$100,001	\$250,000	7	0.07	4	57.14	3	42.86
\$250,001	∞	1	0.01	1	100.00		
\$100,001	∞	0	0.00				
\$1	\$100,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	20	0.20				
TOTAL		9811	100.00				

Appendix A.2.7b MHAS/ENASEM 2001**Total debt other real state properties-2 - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9798	99.87	9798	100.00		
\$1	\$50,000	0	0.00				
\$50,001	\$100,000	0	0.00				
\$100,001	\$250,000	1	0.01	1	100.00		
\$250,001	∞	0	0.00				
\$100,001	∞	0	0.00				
\$1	\$100,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	12	0.12				
TOTAL		9811	100.00				

Appendix A.2.8a MHAS/ENASEM 2001
Net value capital assets-1 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	8740	89.08	8740	100.00		
\$1	\$6,000	199	2.03	183	91.96	16	8.04
\$6,001	\$12,000	163	1.66	131	80.37	32	19.63
\$12,001	\$48,000	316	3.22	234	74.05	82	25.95
\$48,001	∞	298	3.04	211	70.81	87	29.19
\$12,001	∞	15	0.15			15	100.00
\$1	\$12,000	2	0.02			2	100.00
\$1	∞	0	0.00				
	DK/NR	78	0.80				
TOTAL		9811	100.00				

Appendix A.2.8b MHAS/ENASEM 2001
Net value capital assets-2 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9764	99.52	9764	100.00		
\$1	\$6,000	20	0.20	19	95.00	1	5.00
\$6,001	\$12,000	6	0.06	6	100.00		
\$12,001	\$48,000	16	0.16	16	100.00		
\$48,001	∞	4	0.04	3	75.00	1	25.00
\$12,001	∞	0	0.00				
\$1	\$12,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	1	0.01				
TOTAL		9811	100.00				

Appendix A.2.8c MHAS/ENASEM 2001
Net value capital assets-3 - Distribution of Responses by Amount and Type of Response

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9789	99.78	9789	100.00		
\$1	\$6,000	4	0.04	3	75.00	1	25.00
\$6,001	\$12,000	1	0.01	1	100.00		
\$12,001	\$48,000	2	0.02	1	50.00	1	50.00
\$48,001	∞	14	0.14	6	42.86	8	57.14
\$12,001	∞	0	0.00				
\$1	\$12,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	1	0.01				
TOTAL		9811	100.00				

Appendix A.2.9 MHAS/ENASEM 2001**Gross value vehicles - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	7242	73.82	7242	100.00		
\$1	\$50,000	1723	17.56	1639	95.12	84	4.88
\$50,001	\$100,000	357	3.64	290	81.23	67	18.77
\$100,001	\$250,000	238	2.43	197	82.77	41	17.23
\$250,001	∞	91	0.93	64	70.33	27	29.67
\$100,001	∞	6	0.06			6	100.00
\$1	\$100,000	4	0.04			4	100.00
\$1	∞	0	0.00				
	DK/NR	150	1.53				
TOTAL		9811	100.00				

Appendix A.2.10 MHAS/ENASEM 2001**Total debt vehicles - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total	Column	Actual Reports		Bracket Reports	
		n	%	n	%Row	n	%Row
\$0	\$0	9616	98.01	9616	100.00		
\$1	\$50,000	68	0.69	65	95.59	3	4.41
\$50,001	\$100,000	37	0.38	28	75.68	9	24.32
\$100,001	\$250,000	16	0.16	12	75.00	4	25.00
\$250,001	∞	1	0.01	1	100.00		
\$100,001	∞	0	0.00				
\$1	\$100,000	0	0.00				
\$1	∞	0	0.00				
	DK/NR	73	0.74				
TOTAL		9811	100.00				

Appendix A.2.11 MHAS/ENASEM 2001**Net value other assets - Distribution of Responses by Amount and Type of Response**

Amount Bracket		Total Actual Reports	Column
		n	%
\$0	\$0	3006	30.64
\$1	\$50,000	3742	38.14
\$50,001	\$100,000	281	2.86
\$100,001	\$250,000	161	1.64
\$250,001	∞	152	1.55
	DK/NR	2469	25.17
TOTAL		9811	100.00

Appendix B

Appendix B– IVEWare Programs Used for Imputation

Appendix B.1.a IVEware Program for Respondent's Income Components

```
options set = SRCLIB "c:\sas\srclib" sasautos = (SRCLIB sasautos) mautosource;
LIBNAME mylib1 "E:\imputations\data\imputed\myindir";
LIBNAME mylib2 "E:\imputations\data\imputed\myoutdir";
%IMPUTE(NAME=IMPSETUP, DIR=E:\imputations\data\imputed\myoutdir, SETUP=new);
DATAIN      dum1_s1;
DATAOUT     imp1_s;

mixed       am44 am45 am47 am48
            am10_1 am10_2
            am13_1 am13_2
            am27_1 am27_2
            am24_1 am24_2
            am33_1 am33_2 am33_3
            am55a am55b am55c am55d
            am76a am76b
            am18_1 am18_2 am18_3 am18_4 am18_5 am18_6 am18_7 escolal;

CATEGORICAL  sexo ;
COUNT      edad;

TRANSFER    HHID LOW44 UP44 DUM44 LOW45 UP45 DUM45
            LOW47 UP47 DUM47 low48 up48 dum48
            LOW10_1 UP10_1 DUM10_1 LOW10_2 UP10_2 DUM10_2
            LOW13_1 UP13_1 DUM13_1 LOW13_2 UP13_2 DUM13_2
            LOW27_1 UP27_1 DUM27_1 LOW27_2 UP27_2 DUM27_2
            LOW24_1 UP24_1 DUM24_1 LOW24_2 UP24_2 DUM24_2
            low33_1 up33_1 dum33_1
            low33_2 up33_2 dum33_2
            low33_3 up33_3 dum33_3
            low55a up55a dum55a
            low55b up55b dum55b
            low55c up55c dum55c
            low55d up55d dum55d
            low76a up76a dum76a low76b up76b dum76b
            low18_1 up18_1 dum18_1
            low18_2 up18_2 dum18_2
            low18_3 up18_3 dum18_3
            low18_4 up18_4 dum18_4
            low18_5 up18_5 dum18_5
            low18_6 up18_6 dum18_6
            low18_7 up18_7 dum18_7;
```

continue...


```
BOUNDS AM44 (<=UP44, >=LOW44)
AM45 (<=UP45, >=LOW45)
AM47 (<=UP47, >=LOW47)
AM48 (<=UP48, >=LOW48)
AM10_1 (<=UP10_1, >=LOW10_1)
AM10_2 (<=UP10_2, >=LOW10_2)
AM13_1 (<=UP13_1, >=LOW13_1)
AM13_2 (<=UP13_2, >=LOW13_2)
AM27_1 (<=UP27_1, >=LOW27_1)
AM27_2 (<=UP27_2, >=LOW27_2)
AM24_1 (<=UP24_1, >=LOW24_1)
AM24_2 (<=UP24_2, >=LOW24_2)
AM33_1 (<=UP33_1, >=LOW33_1)
AM33_2 (<=UP33_2, >=LOW33_2)
AM33_3 (<=UP33_3, >=LOW33_3)
AM55a (<=UP55a, >=LOW55a)
AM55b (<=UP55b, >=LOW55b)
AM55c (<=UP55c, >=LOW55c)
AM55d (<=UP55d, >=LOW55d)
AM76a (<=UP76a, >=LOW76a)
AM76b (<=UP76b, >=LOW76b)
AM18_1 (<=UP18_1, >=LOW18_1)
AM18_2 (<=UP18_2, >=LOW18_2)
AM18_3 (<=UP18_3, >=LOW18_3)
AM18_4 (<=UP18_4, >=LOW18_4)
AM18_5 (<=UP18_5, >=LOW18_5)
AM18_6 (<=UP18_6, >=LOW18_6)
AM18_7 (<=UP18_7, >=LOW18_7);
INTERACT edad*sexo edad*edad sexo*escola1 escola1*escola1;
Iterations 5;
SEED 2001;
RUN;
```

Appendix B.1.b

IVEware Program for Respondent's Income Components

```
options set = SRCLIB "c:\sas\srclib" sasautos = (SRCLIB sasautos)
```

```
mautosource;
```

```
LIBNAME mylib1 "E:\imputations\data\imputed\myindir";
```

```
LIBNAME mylib2 "E:\imputations\data\imputed\myoutdir";
```

```
%IMPUTE(NAME=IMPSETUP, DIR=E:\imputations\data\imputed\myoutdir, SETUP=new);
```

```
DATAIN dum2_s1;
```

```
DATAOUT imp2_s;
```

```
Mixed am18_1 am18_2 am18_3 am18_4 am18_5 am18_6 am18_7 escola1;
```

```
CATEGORICAL sexo;
```

```
COUNT edad;
```

```
TRANSFER HHID low18_1 up18_1 dum18_1
```

```
low18_2 up18_2 dum18_2
```

```
low18_3 up18_3 dum18_3
```

```
low18_4 up18_4 dum18_4
```

```
low18_5 up18_5 dum18_5
```

```
low18_6 up18_6 dum18_6
```

```
low18_7 up18_7 dum18_7;
```

```
BOUNDS AM18_1 (<=UP18_1, >=LOW18_1)
```

```
AM18_2 (<=UP18_2, >=LOW18_2)
```

```
AM18_3 (<=UP18_3, >=LOW18_3)
```

```
AM18_4 (<=UP18_4, >=LOW18_4)
```

```
AM18_5 (<=UP18_5, >=LOW18_5)
```

```
AM18_6 (<=UP18_6, >=LOW18_6)
```

```
AM18_7 (<=UP18_7, >=LOW18_7);
```

```
INTERACT edad*sexo edad*edad sexo*escola1 escola1*escola1;
```

```
Iterations 5;
```

```
SEED 2001;
```

```
RUN;
```

Appendix B.2

IVEware Program for Spouse's Income Components

```
options set = SRCLIB "c:\sas\srclib" sasautos = (SRCLIB sasautos)
```

```
mautosource;
```

```
LIBNAME mylib1 "E:\imputations\data\imputed\myindir";
```

```
LIBNAME mylib2 "E:\imputations\data\imputed\myoutdir";
```

```
%IMPUTE(NAME=IMPSETUP, DIR=E:\imputations\data\imputed\myoutdir, SETUP=new);
```

```
DATAIN dum1_p1;
```

```
DATAOUT imp1_p;
```

```
mixed am50 am51 am53 am54  
am61a am61b am61c am61d  
am79a am79b escola1;
```

```
CATEGORICAL sexo;
```

```
COUNT edad;
```

```
TRANSFER HHID low50 up50 dum50
```

```
low51 up51 dum51
```

```
low53 up53 dum53
```

```
low54 up54 dum54
```

```
low61a up61a dum61a
```

```
low61b up61b dum61b
```

```
low61c up61c dum61c
```

```
low61d up61d dum61d
```

```
low79a up79a dum79a
```

```
low79b up79b dum79b;
```

```
BOUNDS AM51 (<=UP51, >=LOW51)
```

```
AM53 (<=UP53, >=LOW53)
```

```
AM54 (<=UP54, >=LOW54)
```

```
AM50 (<=UP50, >=LOW50)
```

```
AM61a (<=UP61a, >=LOW61a)
```

```
AM61b (<=UP61b, >=LOW61b)
```

```
AM61c (<=UP61c, >=LOW61c)
```

```
AM61d (<=UP61d, >=LOW61d)
```

```
AM79a (<=UP79a, >=LOW79a)
```

```
AM79b (<=UP79b, >=LOW79b);
```

```
INTERACT edad*sexo edad*edad sexo*escola1 escola1*escola1;
```

```
Iterations 5;
```

```
SEED 2001;
```

```
RUN;
```

Appendix B.3
IVEware Program for Assets

```
options set = SRCLIB "c:\sas\srclib" sasautos = (SRCLIB sasautos) mautosource;  
LIBNAME mylib1 "E:\imputations\data\imputed\myindir";  
LIBNAME mylib2 "E:\imputations\data\imputed\myoutdir";  
%IMPUTE(NAME=IMPSETUP, DIR=E:\imputations\data\imputed\myoutdir, SETUP=new);
```

```
DATAIN    dum1_a1;  
DATAOUT  imp_aa;
```

```
CONTINUOUS am85;  
Mixed     escola1 amj14 amj20 amj18 amj26 amk8_1 amk8_2 amk3_1  
           amk3_2 amk22_1 amk22_2 amk17_1 amk17_2 amk29a amk29b  
           amk29c amk36 amk37 amk42 am82;
```

```
CATEGORICAL    sexo dum85  
COUNT         edad;
```

```
TRANSFER HHID lowj14 upj14 dumj14  
           lowj20 upj20 dumj20  
           lowj18 upj18 dumj18  
           lowj26 upj26 dumj26  
           lowk8_1 upk8_1 dumk8_1  
           lowk8_2 upk8_2 dumk8_2  
           lowk3_1 upk3_1 dumk3_1  
           lowk3_2 upk3_2 dumk3_2  
           lowk22_1 upk22_1 dumk22_1  
           lowk22_2 upk22_2 dumk22_2  
           lowk17_1 upk17_1 dumk17_1  
           lowk17_2 upk17_2 dumk17_2  
           lowk29a upk29a dumk29a  
           lowk29b upk29b dumk29b  
           lowk29c upk29c dumk29c  
           lowk36 upk36 dumk36  
           lowk37 upk37 dumk37  
           lowk42 upk42 dumk42  
           low82 up82 dum82  
           low85 up85;
```

```
RESTRICT am85 (dum85=1,9)
```

continue...

```
BOUNDS amj14 (>=lowj14, <=upj14)
amj20 (>=lowj20, <=upj20)
amj18 (>=lowj18, <=upj18)
amj26 (>=lowj26, <=upj26)
amk8_1 (>=lowk8_1, <=upk8_1)
amk8_2 (>=lowk8_2, <=upk8_2)
amk3_1 (>=lowk3_1, <=upk3_1)
amk3_2 (>=lowk3_2, <=upk3_2)
amk22_1 (>=lowk22_1, <=upk22_1)
amk22_2 (>=lowk22_2, <=upk22_2)
amk17_1 (>=lowk17_1, <=upk17_1)
amk17_2 (>=lowk17_2, <=upk17_2)
amk29a (>=lowk29a, <=upk29a)
amk29b (>=lowk29b, <=upk29b)
amk29c (>=lowk29c, <=upk29c)
amk36 (>=lowk36, <=upk36)
amk37 (>=lowk37, <=upk37)
amk42 (>=lowk42, <=upk42)
am82 (>=low82, <=up82)
am85 (>=low85, <=up85);

INTERACT edad*sexo edad*edad sexo*escola1 escola1*escola1;
Iterations 5;
SEED 2001;
RUN;
```

Appendix B.3 IVEware Program for Assets

```
options set = SRCLIB "c:\sas\srclib" sasautos = (SRCLIB sasautos)
mautosource;

LIBNAME mylib1 "E:\imputations\data\imputed\myindir";
LIBNAME mylib2 "E:\imputations\data\imputed\myoutdir";

%IMPUTE(NAME=IMPSETUP, DIR=E:\imputations\data\imputed\myoutdir, SETUP=new);

DATAIN    dum2_a1;
DATAOUT   imp2_a;

mixed     escola1 amj14 amj20 amj18 amj26;
CATEGORICAL  sexo;
COUNT     edad;

TRANSFER  HHID lowj14 upj14 dumj14
           lowj20 upj20 dumj20
           lowj18 upj18 dumj18
           lowj26 upj26 dumj26 ;

BOUNDS    amj14 (>=lowj14, <=upj14)
           amj20 (>=lowj20, <=upj20)
           amj18 (>=lowj18, <=upj18)
           amj26 (>=lowj26, <=upj26);

INTERACT  edad*sexo edad*edad sexo*escola1 escola1*escola1;
Iterations 5;
SEED       2001;
RUN;
```

Appendix B.4
IVEware Program for Help Given - G6

```
options set = SRCLIB "c:\sas\srclib" sasautos = (SRCLIB sasautos)
mautosource;
LIBNAME mylib1 "E:\imputations\data\imputed\myindir";
LIBNAME mylib2 "E:\imputations\data\imputed\myoutdir";

%IMPUTE(NAME=IMPSETUP2, DIR=E:\imputations\data\imputed\myoutdir, SETUP=new);

DATAIN    dum_g6e;
DATAOUT   imp_g6;

mixed     am6_1 am6_2 am6_3 am6_4 am6_5 am6_6 am6_7 escola1;

CATEGORICAL    sexo ;
COUNT         edad;

TRANSFER HHID
              low6_1 up6_1 dum6_1
              low6_2 up6_2 dum6_2
              low6_3 up6_3 dum6_3
              low6_4 up6_4 dum6_4
              low6_5 up6_5 dum6_5
              low6_6 up6_6 dum6_6
              low6_7 up6_7 dum6_7;

BOUNDS    AM6_1 (>=LOW6_1, <=UP6_1)
          AM6_2 (>=LOW6_2, <=UP6_2)
          AM6_3 (>=LOW6_3, <=UP6_3)
          AM6_4 (>=LOW6_4, <=UP6_4)
          AM6_5 (>=LOW6_5, <=UP6_5)
          AM6_6 (>=LOW6_6, <=UP6_6)
          AM6_7 (>=LOW6_7, <=UP6_7);

INTERACT   edad*sexo  edad*edad  sexo*escola1  escola1*escola1;
Iterations 5;
SEED       2001;
RUN;
```

Appendix B.5

IVEware Program for Hospitals and other utilization - D6, D9

```
options set = SRCLIB "c:\sas\srclib" sasautos = (SRCLIB sasautos)
mautosource;
```

```
LIBNAME mylib1 "E:\imputations\data\imputed\myindir";
LIBNAME mylib2 "E:\imputations\data\imputed\myoutdir";
```

```
%IMPUTE(NAME=IMPSETUP, DIR=E:\imputations\data\imputed\myoutdir, SETUP=new);
```

```
DATAIN    dum_d3;
DATAOUT   imp_d1;
```

```
mixed     amd6 amd9_1 amd9_2 amd9_3 amd9_4 amd9_5 escola1;
```

```
CATEGORICAL    sexo;
COUNT          edad;
TRANSFER ID LOWd6 UPd6 DUMd6
              LOW9_1 UP9_1 DUMd9_1
              LOW9_2 UP9_2 DUMd9_2
              LOW9_3 up9_3 dumd9_3
              LOW9_4 UP9_4 DUMd9_4
              LOW9_5 UP9_5 DUMd9_5;
```

```
BOUNDS    AMd6 (<=UPd6, >=LOWd6)
              AMd9_1 (<=UP9_1, >=LOW9_1)
              AMd9_2 (<=UP9_2, >=LOW9_2)
              AMd9_3 (<=UP9_3, >=LOW9_3)
              AMd9_4 (<=UP9_4, >=LOW9_4)
              AMd9_5 (<=UP9_5, >=LOW9_5);
```

```
INTERACT edad*sexo edad*edad sexo*escola1 escola1*escola1;
```

```
Iterations    5;
SEED          2001;
RUN;
```


Appendix B.6

IVEware Program for Household Monthly Rent - J12

```
options set = SRCLIB "c:\sas\srclib" sasautos = (SRCLIB sasautos)
mautosource;
LIBNAME mylib1 "E:\imputations\data\imputed\myindir";
LIBNAME mylib2 "E:\imputations\data\imputed\myoutdir";

%IMPUTE(NAME=IMPSETUP, DIR=E:\imputations\data\imputed\myoutdir, SETUP=new);

DATAIN    dum_j3;
DATAOUT   imp_j1;

mixed     amj12 escola1;

CATEGORICAL    sexo;
COUNT        edad;
TRANSFER HHID LOWj12 UPj12 DUMj12;

BOUNDS    AMj12 (<=UPj12, >=LOWj12);

INTERACT  edad*sexo  edad*edad  sexo*escola1  escola1*escola1;
Iterations    5;
SEED          2001;
RUN;
```

Appendix C

**APPENDIX C - DESCRIPTIVE STATISTICS OF ORIGINAL
AND IMPUTED VARIABLES**

**Appendix C.1 MHAS/ENASEM 2001
Total Sampled's Income Components:
(Including zeros)**

Variable	N	Mean	Std Dev	Minimum	Maximum
am44	9628	926.66	5127.35	0	393460.00
imam44	9811	1043.59	5213.85	0	393460.00
am45	9747	750.64	6116.68	0	300000.00
imam45	9811	820.47	6237.47	0	300000.00
am47	9802	24.31	548.79	0	42000.00
imam47	9811	29.85	592.88	0	42000.00
am48	9806	13.03	449.91	0	30000.00
imam48	9811	18.85	580.51	0	30000.00
am10_1	9419	2768.32	45576.80	0	2500000.00
imam10_1	9811	5458.44	63830.83	0	2500000.00
am10_2	9777	157.93	8209.29	0	800000.00
imam10_2	9811	205.30	8314.96	0	800000.00
am13_1	9409	1940.34	37278.77	0	2450000.00
imam13_1	9811	3783.84	49013.15	0	2450000.00
am13_2	9778	75.60	3129.90	0	300000.00
imam13_2	9811	122.35	3345.41	0	300000.00
am27_1	9740	104.19	5143.65	0	500000.00
imam27_1	9811	163.23	5438.09	0	500000.00
am27_2	9797	4.49	238.39	0	20000.00
imam27_2	9811	7.80	330.55	0	20000.00
am24_1	9768	1020.37	76265.56	0	7500000.00
imam24_1	9811	1782.73	82326.62	0	7500000.00
am24_2	9797	5.17	176.58	0	10000.00
imam24_2	9811	8.95	246.22	0	10000.00
am33_1	9488	33.10	341.03	0	7776.00
imam33_1	9811	67.47	454.78	0	7776.00
am33_2	9804	0.75	52.41	0	5000.00
imam33_2	9811	1.87	89.11	0	5000.00
am33_3	9800	1.97	106.27	0	7775.00
imam33_3	9811	4.83	161.02	0	7775.00
am55a	9766	317.85	2085.35	0	158054.00
imam55a	9811	335.44	2115.47	0	158054.00
am55b	9798	73.94	514.13	0	30000.00
imam55b	9811	75.98	517.93	0	30000.00
am55c	9809	17.29	272.00	0	12000.00
imam55c	9811	17.89	276.42	0	12000.00
am55d	9808	19.26	420.13	0	27000.00
imam55d	9811	20.06	422.79	0	27000.00
am76a	9761	60.73	795.61	0	56000.00
imam76a	9811	70.12	811.10	0	56000.00
am76b	9810	6.81	134.86	0	5000.00
imam76b	9811	6.91	135.22	0	5000.00
am18_1	9315	13170.89	112467.30	0	4833600.00
imam18_1	9834	19675.30	119083.89	0	4833600.00
am18_2	9540	7442.09	89825.67	0	4850400.00
imam18_2	9834	13942.91	103430.44	0	4850400.00
am18_3	9664	3769.97	74182.59	0	4492800.00
imam18_3	9834	8331.04	86460.57	0	4492800.00
am18_4	9714	2002.53	61799.58	0	4924800.00
imam18_4	9834	5197.61	73878.26	0	4924800.00
am18_5	9751	438.16	9195.13	0	576000.00
imam18_5	9834	2918.97	34423.15	0	576000.00
am18_6	9784	392.78	21071.30	0	1996800.00
imam18_6	9834	2019.19	49202.05	0	1996800.00
am18_7	9801	78.90	2361.38	0	208000.00
imam18_7	9834	568.96	10160.37	0	208000.00

Appendix C.2 MHAS/ENASEM 2001

Total Spouse's Income Components:

(Including zeros)

Variable	N	Mean	Std Dev	Minimum	Maximum
am50	5256	1275.39	3560.07	0	80000.00
imam50	5513	1706.28	5081.66	0	80000.00
am51	5390	1219.87	27788.15	0	1999999.00
imam51	5513	2917.58	33009.91	0	1999999.00
am53	5503	22.58	598.66	0	40000.00
imam53	5513	38.40	843.77	0	40000.00
am54	5507	9.13	365.10	0	23000.00
imam54	5513	14.00	404.30	0	23000.00
am61a	5461	244.08	1212.62	0	40000.00
imam61a	5513	279.02	1280.08	0	40000.00
am61b	5512	0.36	19.50	0	1200.00
imam61b	5513	0.48	21.33	0	1200.00
am61c	5508	20.68	434.70	0	30000.00
imam61c	5513	22.48	440.19	0	30000.00
am61d	5512	6.58	171.90	0	8000.00
imam61d	5513	6.58	171.88	0	8000.00
am79a	5488	51.91	588.34	0	28000.00
imam79a	5513	60.70	624.16	0	28000.00
am79b	5511	0.09	6.74	0	500.00
imam79b	5513	0.27	11.66	0	500.00

Appendix C.3 MHAS/ENASEM 2001
Total Assets and Household Consumption:
(Including zeros)

Variable	N	Mean	Std Dev	Minimum	Maximum
amj12	9789	69.15	467.75	0	15000.00
imamj12	9815	71.03	472.68	0	15000.00
amj14	6981	151339.40	333391.07	0	7777776.00
imamj14	9815	195822.33	318295.85	0	7777776.00
amj20	9590	1483.44	21837.99	0	1300000.00
imamj20	9815	3040.29	29649.74	0	1300000.00
amj18	9655	72.96	2632.65	0	230000.00
imamj18	9815	231.79	3578.84	0	230000.00
amj26	9487	15487.42	153115.53	0	7777776.00
imamj26	9815	26621.41	182418.20	0	7777776.00
amk8_1	8805	27678.08	247245.84	0	7777776.00
imamk8_1	9811	56914.99	283688.90	0	7777776.00
amk8_2	9740	2601.90	79906.75	0	5000000.00
imamk8_2	9811	4345.56	87436.47	0	5000000.00
amk3_1	9709	1725.60	81575.05	0	7777776.00
imamk3_1	9811	2221.85	83071.25	0	7777776.00
amk3_2	9794	62.67	5094.23	0	500000.00
imamk3_2	9811	102.83	5366.44	0	500000.00
amk22_1	9570	13852.81	162140.58	0	7777776.00
imamk22_1	9811	24441.01	196932.06	0	7777776.00
amk22_2	9794	464.26	13101.68	0	800000.00
imamk22_2	9811	709.71	18006.22	0	800000.00
amk17_1	9785	214.25	10868.86	0	1000000.00
imamk17_1	9811	373.89	13986.10	0	1000000.00
amk17_2	9799	14.29	1414.29	0	140000.00
imamk17_2	9811	185.51	5093.04	0	140000.00
amk29a	9499	3962.33	30208.98	0	777776.00
imamk29a	9811	6373.10	35834.22	0	777776.00
amk29b	9808	96.69	4222.56	0	400000.00
imamk29b	9811	142.75	5861.75	0	400000.00
amk29c	9800	121.07	6652.64	0	600000.00
imamk29c	9811	162.18	6795.72	0	600000.00
amk36	9432	13286.26	61611.25	0	3000000.00
imamk36	9811	16593.70	65020.86	0	3000000.00
amk37	9722	585.72	7479.00	0	279000.00
imamk37	9811	782.68	8815.44	0	279000.00
amk42	7342	27282.81	150424.09	0	7000000.00
imamk42	9811	46738.96	153485.53	0	7000000.00
am82	9732	1327.23	12349.97	0	500000.00
imam82	9811	1444.66	12563.08	0	500000.00
am85	8910	3030.07	25863.72	1.00	2222100.00
imam85	9811	3760.89	25143.18	1.00	2222100.00

Appendix C.4 MHAS/ENASEM 2001

Help Given –G6:

(Including Zeros)

Variable	N	Mean	Std Dev	Minimum	Maximum
am6_1	9570	6960.95	189821.52	0	17472000.00
imam6_1	9834	15989.11	207821.78	0	17472000.00
am6_2	9717	2373.02	44012.61	0	3494400.00
imam6_2	9834	6844.89	74167.63	0	3494400.00
am6_3	9777	782.39	17908.72	0	1081600.00
imam6_3	9834	3276.36	48767.57	0	1081600.00
am6_4	9812	136.42	4334.75	0	395200.00
imam6_4	9834	784.04	16237.85	0	395200.00
am6_5	9826	23.68	675.72	0	40000.00
imam6_5	9834	29.18	787.77	0	40000.00
am6_6	9829	7.27	324.81	0	24000.00
imam6_6	9834	8.02	329.49	0	24000.00
am6_7	9832	0.74	56.48	0	5200.00
imam6_7	9834	1.25	75.70	0	5200.00

Appendix C.5 MHAS/ENASEM 2001
Hospitals and other utilization of services –D6, D9:
(Including zeros)

Variable	N	Mean	Std Dev	Minimum	Maximum
amd6	15038	393.05	6928.50	0	500000.00
imamd6	15176	445.00	7045.10	0	500000.00
amd9_1	15141	23.67	596.50	0	60000.00
imamd9_1	15176	25.50	606.06	0	60000.00
amd9_2	15142	26.13	326.96	0	26400.00
imamd9_2	15176	27.75	340.84	0	26400.00
amd9_3	15090	274.88	1299.47	0	60000.00
imamd9_3	15176	283.50	1313.00	0	60000.00
amd9_4	15149	29.90	502.29	0	22500.00
imamd9_4	15176	31.17	511.10	0	22500.00
amd9_5	14912	439.58	3178.48	0	250000.00
imamd9_5	15176	488.79	3216.58	0	250000.00

Appendix C.6 MHAS/ENASEM 2001
Total Sampled's Income Components:
(Without zeros)

Variable	N	Mean	Std Dev	Minimum	Maximum
am44	2382	3745.56	9784.35	40.00	393460.00
imam44	2565	3991.69	9603.94	40.00	393460.00
am45	1095	6681.71	17135.86	50.00	300000.00
imam45	1159	6945.30	16941.58	45.60	300000.00
am47	87	2738.49	5177.23	100.00	42000.00
imam47	96	3051.06	5194.54	100.00	42000.00
am48	23	5554.04	7618.43	200.00	30000.00
imam48	28	6604.85	8793.72	1.00	30000.00
am10_1	1744	14951.13	105079.89	10.00	2500000.00
imam10_1	2074	25821.00	136948.94	10.00	2500000.00
am10_2	164	9415.37	62882.39	48.00	800000.00
imam10_2	190	10601.12	58973.15	48.00	800000.00
am13_1	1878	9721.35	83005.29	1.00	2450000.00
imam13_1	2156	17218.60	103461.46	1.00	2450000.00
am13_2	170	4348.56	23410.37	2.00	300000.00
imam13_2	201	5972.04	22668.20	2.00	300000.00
am27_1	180	5637.91	37524.69	2.00	500000.00
imam27_1	218	7345.92	35831.62	2.00	500000.00
am27_2	10	4402.00	6352.09	60.00	20000.00
imam27_2	14	5463.27	7096.22	60.00	20000.00
am24_1	303	32894.29	432501.72	70.00	7500000.00
imam24_1	327	53487.29	448530.79	70.00	7500000.00
am24_2	13	3896.15	3005.03	300.00	10000.00
imam24_2	19	4623.16	3243.87	300.00	10000.00
am33_1	359	874.86	1530.84	2.00	7776.00
imam33_1	603	1097.73	1495.82	1.00	7776.00
am33_2	5	1470.00	2007.98	200.00	5000.00
imam33_2	9	2039.00	2250.41	1.00	5000.00
am33_3	5	3855.00	3016.43	1000.00	7775.00
imam33_3	14	3386.60	2689.17	1.00	7775.00
am55a	1019	3046.22	5778.80	100.00	158054.00
imam55a	1064	3093.03	5723.88	11.79	158054.00
am55b	481	1506.07	1798.24	100.00	30000.00
imam55b	494	1508.90	1780.82	100.00	30000.00
am55c	93	1823.71	2148.27	75.00	12000.00
imam55c	95	1847.90	2134.59	75.00	12000.00
am55d	64	2952.31	4322.02	60.00	27000.00
imam55d	67	2937.15	4227.36	60.00	27000.00
am76a	813	729.15	2668.42	10.00	56000.00
imam76a	863	797.18	2628.07	10.00	56000.00
am76b	40	1671.18	1312.02	25.00	5000.00
imam76b	41	1654.64	1299.83	25.00	5000.00
am18_1	2928	41901.25	197600.02	24.00	4833600.00
imam18_1	3365	57499.83	198180.60	24.00	4833600.00
am18_2	1852	38335.62	200988.23	24.00	4850400.00
imam18_2	2146	63893.08	214120.54	2.77	4850400.00
am18_3	1016	35859.28	226358.91	24.00	4492800.00
imam18_3	1186	69078.83	240479.45	24.00	4492800.00
am18_4	486	40025.86	273790.21	60.00	4924800.00
imam18_4	606	84345.38	286393.88	60.00	4924800.00
am18_5	228	18739.14	57333.36	200.00	576000.00
imam18_5	311	92299.51	171200.36	200.00	576000.00
am18_6	122	31499.93	186842.08	500.00	1996800.00
imam18_6	172	115445.85	355013.02	1.00	1996800.00
am18_7	65	11897.42	26665.31	400.00	208000.00
imam18_7	98	57093.08	84879.04	400.00	208000.00

Appendix C.7 MHAS/ENASEM 2001
Total Spouse's Income Components:
(Without zeros)

Variable	N	Mean	Std Dev	Minimum	Maximum
am50	1776	3774.48	5299.47	60.00	80000.00
imam50	2033	4627.01	7518.45	15.48	80000.00
am51	762	8628.76	73513.02	50.00	1999999.00
imam51	885	18174.73	80726.12	23.02	1999999.00
am53	40	3107.10	6382.16	100.00	40000.00
imam53	50	4233.94	7871.54	1.00	40000.00
am54	6	8383.33	7908.33	800.00	23000.00
imam54	12	6429.77	6074.94	1.00	23000.00
am61a	546	2441.30	3059.03	200.00	40000.00
imam61a	598	2572.28	3036.45	65.69	40000.00
am61b	2	1005.00	275.77	810.00	1200.00
imam61b	3	884.29	285.90	642.86	1200.00
am61c	66	1725.52	3608.69	30.00	30000.00
imam61c	71	1745.54	3493.83	30.00	30000.00
am61d	16	2266.88	2321.89	50.00	8000.00
imam61d	16	2266.88	2321.89	50.00	8000.00
am79a	394	723.02	2084.79	21.00	28000.00
imam79a	418	800.58	2134.42	21.00	28000.00
am79b	1	500.00	.	500.00	500.00
imam79b	3	500.00	0	500.00	500.00

Appendix C.8 MHAS/ENASEM 2001
Total Assets and Household Consumption:
(Without zeros)

Variable	N	Mean	Std Dev	Minimum	Maximum
amj12	599	1130.14	1542.74	50.00	15000.00
imamj12	609	1144.70	1541.23	50.00	15000.00
amj14	4652	227106.70	386777.83	100.00	7777776.00
imamj14	7473	257192.05	342463.61	100.00	7777776.00
amj20	178	79922.33	139755.38	100.00	1300000.00
imamj20	290	102898.21	139794.06	100.00	1300000.00
amj18	243	2899.08	16378.69	10.00	230000.00
imamj18	367	6198.86	17502.80	10.00	230000.00
amj26	571	257319.01	572561.40	500.00	7777776.00
imamj26	868	301024.36	542194.36	500.00	7777776.00
amk8_1	1633	149237.93	558231.71	1.00	7777776.00
imamk8_1	2636	211833.45	516519.32	1.00	7777776.00
amk8_2	172	147340.01	584979.41	1.00	5000000.00
imamk8_2	240	177642.84	531872.75	1.00	5000000.00
amk3_1	134	125028.46	685707.97	50.00	7777776.00
imamk3_1	162	134559.25	634477.29	50.00	7777776.00
amk3_2	13	47212.31	136992.03	260.00	500000.00
imamk3_2	19	53095.74	112806.27	1.00	500000.00
amk22_1	456	290726.64	687181.42	300.00	7777776.00
imamk22_1	686	349549.23	664529.66	16.36	7777776.00
amk22_2	23	197695.65	188799.66	10000.00	800000.00
imamk22_2	28	248678.80	232062.18	1.00	800000.00
amk17_1	19	110336.84	226684.17	2000.00	1000000.00
imamk17_1	32	114632.68	219957.05	1.00	1000000.00
amk17_2	1	140000.00	.	140000.00	140000.00
imamk17_2	13	140000.00	0	140000.00	140000.00
amk29a	759	49589.21	95756.91	15.00	777776.00
imamk29a	1071	58381.41	93454.17	15.00	777776.00
amk29b	44	21552.27	59944.22	150.00	400000.00
imamk29b	47	29797.88	80154.75	150.00	400000.00
amk29c	11	107863.64	174884.05	700.00	600000.00
imamk29c	22	72323.52	126909.53	1.00	600000.00
amk36	2190	57221.92	117639.58	30.00	3000000.00
imamk36	2548	63893.57	115152.39	30.00	3000000.00
amk37	106	53720.75	47926.10	1500.00	279000.00
imamk37	131	58617.65	49477.63	1500.00	279000.00
amk42	4336	46197.04	193504.12	10.00	7000000.00
imamk42	5802	79034.11	193094.43	10.00	7000000.00
am82	916	14101.12	37970.27	30.00	500000.00
imam82	964	14702.84	37585.57	30.00	500000.00
am85	8910	3030.07	25863.72	1.00	2222100.00
imam85	9811	3760.89	25143.18	1.00	2222100.00

Appendix C.9 MHAS/ENASEM 2001
Help Given-G6:
(Without zeros)

Variable	N	Mean	Std Dev	Minimum	Maximum
am6_1	1208	55145.96	531978.45	200.00	17472000.00
imam6_1	1407	111753.29	539762.17	200.00	17472000.00
am6_2	610	37801.05	171939.77	200.00	3494400.00
imam6_2	727	92589.58	257980.15	200.00	3494400.00
am6_3	238	32140.42	110532.07	200.00	1081600.00
imam6_3	295	109219.32	260638.50	200.00	1081600.00
am6_4	75	17848.00	46592.00	500.00	395200.00
imam6_4	97	79486.71	143825.40	500.00	395200.00
am6_5	27	8617.04	9779.85	500.00	40000.00
imam6_5	35	8197.91	10513.77	1.00	40000.00
am6_6	9	7942.22	7662.38	2000.00	24000.00
imam6_6	14	5634.50	6926.54	1.00	24000.00
am6_7	2	3640.00	2206.17	2080.00	5200.00
imam6_7	4	3070.25	2494.04	1.00	5200.00

Appendix C.10 MHAS/ENASEM 2001
Hospitalizations and other utilization of services –D6, D9
(Without zeros)

Variable	N	Mean	Std Dev	Minimum	Maximum
amd6	488	12111.96	36605.76	40.00	500000.00
imamd6	543	12436.95	35216.87	40.00	500000.00
amd9_1	684	523.96	2761.32	3.00	60000.00
imamd9_1	695	556.80	2781.26	1.44	60000.00
amd9_2	694	570.03	1423.10	2.00	26400.00
imamd9_2	708	594.82	1468.23	2.00	26400.00
amd9_3	2769	1498.01	2715.18	1.00	60000.00
imamd9_3	2821	1525.12	2717.12	1.00	60000.00
amd9_4	144	3145.78	4105.53	20.00	22500.00
imamd9_4	150	3153.91	4085.25	20.00	22500.00
amd9_5	4371	1499.65	5734.26	1.00	250000.00
imamd9_5	4550	1630.32	5714.29	1.00	250000.00