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SOEP – The German Socio-Economic Panel Study at DIW Berlin

2014

Documentation of Sample Sizes and Panel Attrition in the German Socio-Economic Panel (SOEP) (1984 until 2012)

Martin Kroh

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MARTIN KROH

**DOCUMENTATION OF SAMPLE SIZES AND PANEL
ATTRITION IN THE GERMAN SOCIO-ECONOMIC
PANEL (SOEP) (1984 UNTIL 2012)**

Berlin, 2013

Reprint 2014

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1 Introduction

This data documentation is meant to provide SOEP users with a general overview of the longitudinal development of the survey over the past 29 years and the derivation of weights that compensate for selective panel attrition. In the first section, we report the number of household and personal interviews by cross-section. We do so for the entire SOEP sample as a whole, as well as for sub-samples A through K individually.

The SOEP study surveys not only the original sample from the first wave, but also households and persons that entered the survey at later points in time. They enter, for example, when SOEP households split (i.e., individuals move out and form their own households), when people move into SOEP households, and when an original sample member gives birth to a “new sample member”. For a detailed review of the SOEP inclusion rules for new sample units and their treatment within the weighting framework see Spiess et al. (2008) and Schonlau et al. (2011). The second section of the present paper on the longitudinal development of the SOEP reports descriptive figures of the participatory behavior of the original sample members and the entrance patterns of new sample members.

Households may leave the survey for several reasons. SOEP’s weighting strategy distinguishes between survey-related reasons and reasons unrelated to the survey (for a detailed description of the SOEP weighting strategy, see Rendtel 1995 and Schonlau et al. 2013 and for a general overview, Haisken-DeNew & Frick 2001). We ignore panel attrition of the latter form due to respondents moving abroad or dying, since these cases technically represent an exit from the underlying population. The second section of this paper provides initial evidence on the risk of survey-related panel attrition in different groups of the original sample units (e.g., in different sub-samples, age, educational, and income groups).

The third section reports in more detail on the occurrence of unsuccessful follow-ups to household addresses by cross-section and sub-sample, and sub-sample-specific regression models of the probability of unsuccessful follow-ups in 2012 based on the characteristics of households measured in 2011. The fourth section does the same for the second form of survey-related attrition: refusals.

Based on the regression models of unsuccessful-follow ups and refusals, we derive predicted observation probabilities. The inverse of the product of these predicted probabilities gives the longitudinal weighting variables for the year 2012: BCHBLEIB and BCPBLEIB. Based on the inverse of the probability of observing households and persons in 2011, the staying probability in 2012, and additional post-stratification to meet benchmarks of known marginals of the underlying population in 2012, we derive the cross-sectional weights BCHHRF and BCPHRF. The final section of this paper documents some summary statistics of the development of the longitudinal and the cross-sectional weights by sub-sample and wave.

2 Developments in Sample Size

With respect to developments in sample size, the following figures focus on (2.1) comparing the number of successful interviews by cross-section, (2.2) providing a longitudinal study of panel attrition in original sample members, (2.3) showing entrance of new sample members by birth / moving into SOEP households and their participation behavior, and (2.4) assessing the risk of survey-related attrition of original sample respondents by social characteristics.

Note that the sample sizes of the English public-use version of SOEP and the German DIW version differ by approximately 5 percent. Five percent of the original SOEP data was excluded in compliance with German data protection laws, which was accomplished technically by randomly selecting 5 percent of the original wave 1 households and dropping these and the persons living in them from the English public-use version. Hence the difference in sample sizes is not always exactly 5 percent. The sample sizes documented below refer to the original DIW database.

2.1 Development of the Number of Successful Interviews by Cross-Section

The following figures display the number of successful interviews considering different aspects:

| | |
|---|-----------|
| Figure 1: The Number of Successful Interviews with Persons by Subsamples A through K, Waves 1 to 29. | 5 |
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Figure 1: The Number of Successful Interviews with Persons by Subsamples A through K, Waves 1 to 29.

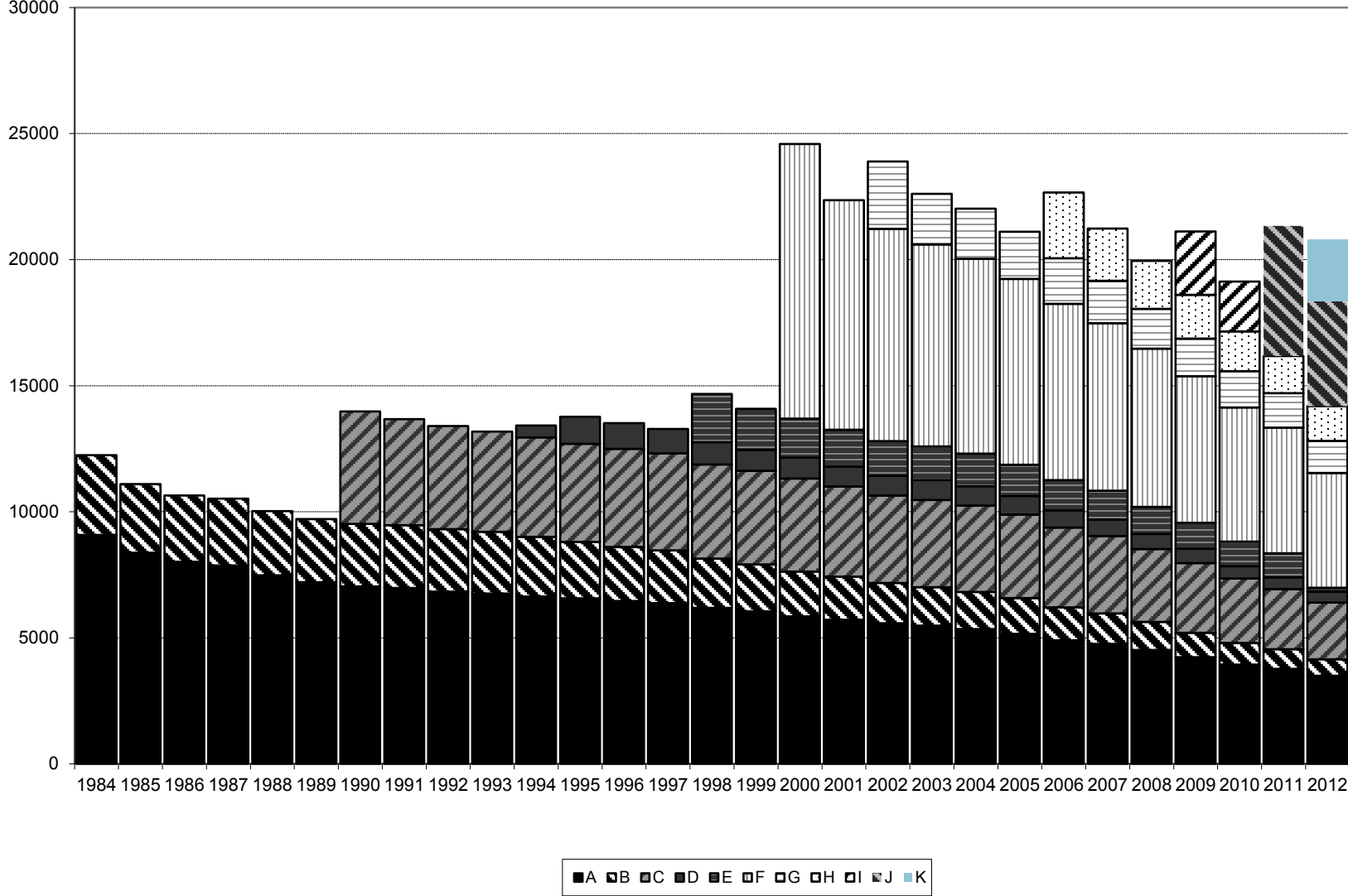
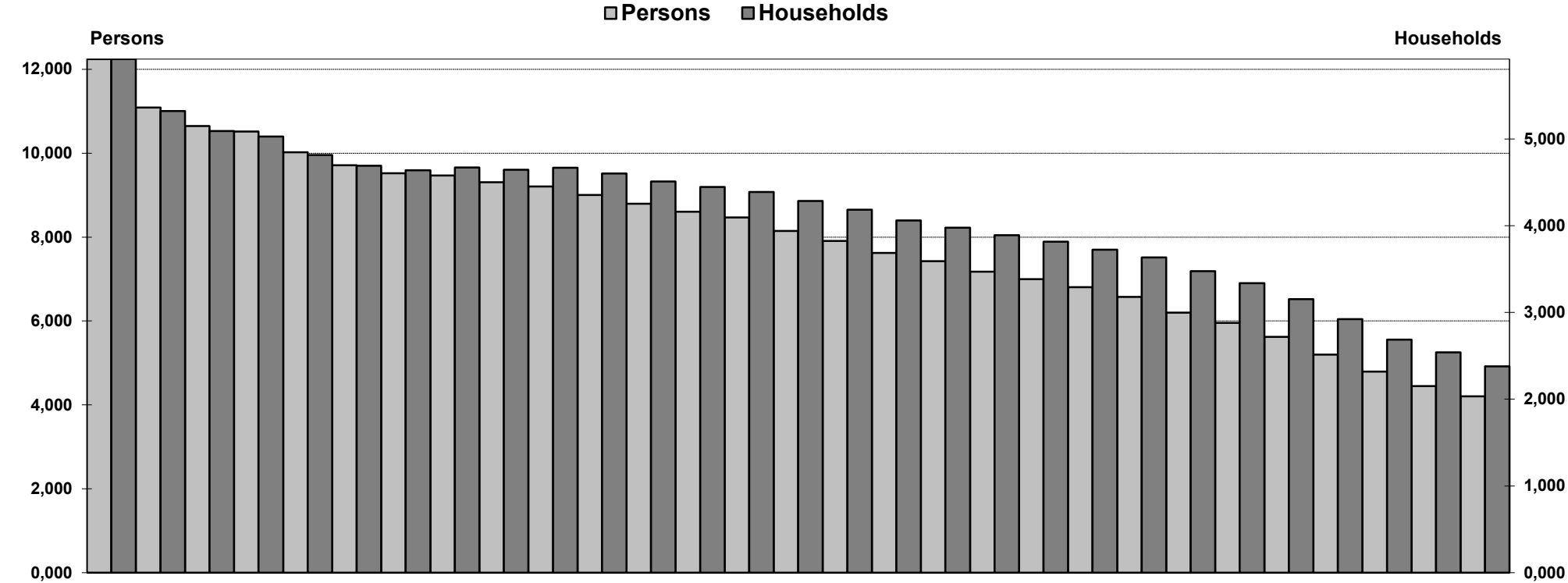
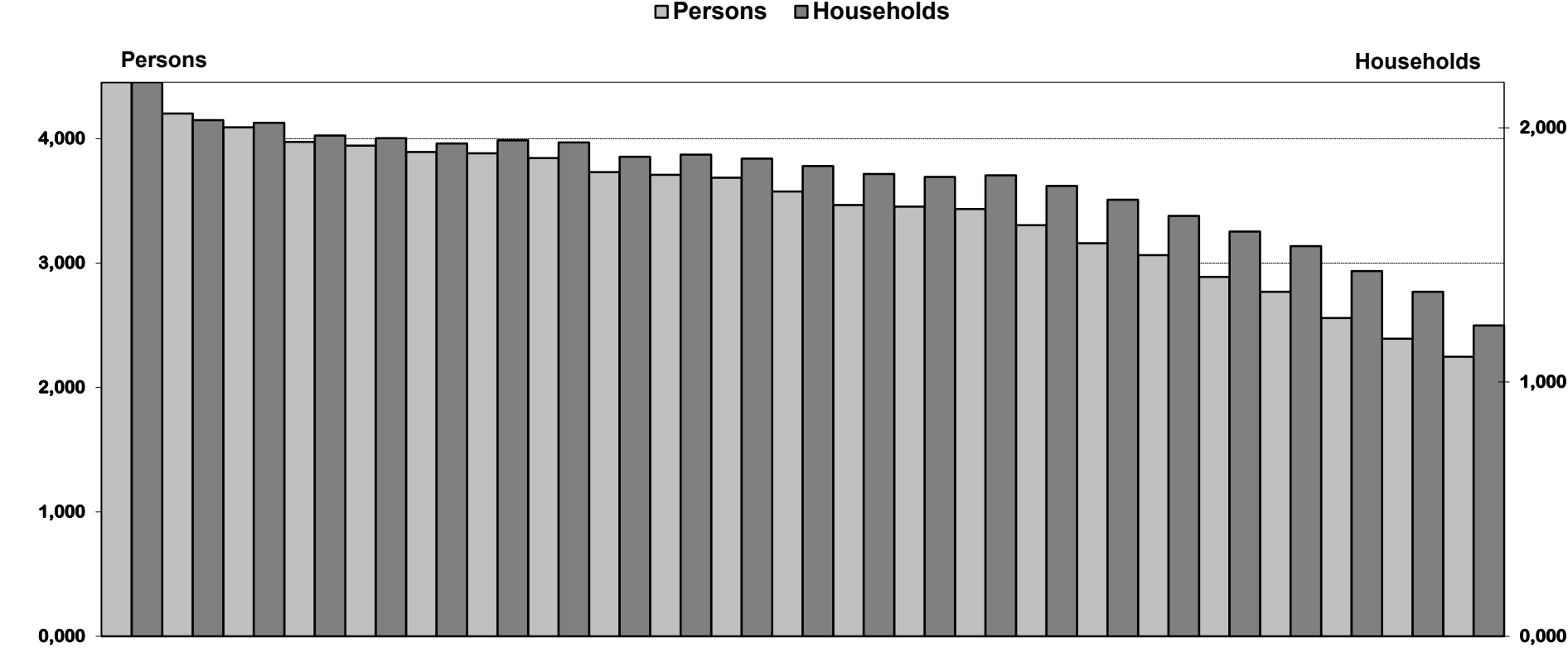


Figure 2: Comparison of Successful Interviews with Persons and Households (Subsamples A and B), Waves 1 to 29.



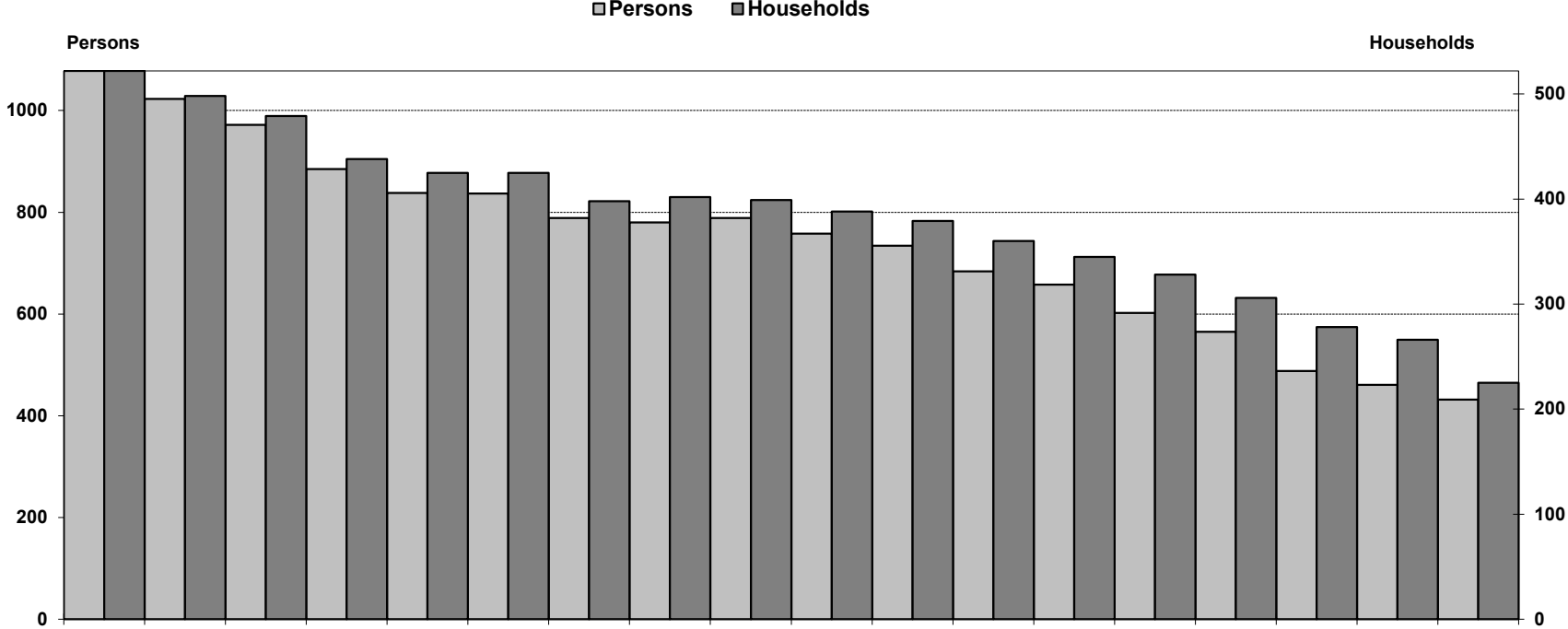
| Year | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Persons | 12,245 | 11,090 | 10,646 | 10,516 | 10,023 | 9,710 | 9,519 | 9,467 | 9,305 | 9,206 | 9,001 | 8,798 | 8,606 | 8,467 | 8,145 | 7,909 | 7,623 | 7,424 | 7,175 | 6,999 | 6,809 | 6,572 | 6,198 | 5,957 | 5,619 | 5,197 | 4,739 | 4,451 | 4,204 |
| Households | 5,921 | 5,322 | 5,090 | 5,026 | 4,814 | 4,690 | 4,640 | 4,669 | 4,645 | 4,667 | 4,600 | 4,508 | 4,445 | 4,389 | 4,285 | 4,183 | 4,060 | 3,977 | 3,889 | 3,814 | 3,724 | 3,635 | 3,476 | 3,337 | 3,154 | 2,923 | 2,686 | 2,539 | 2,379 |

Figure 3: Comparison of Successful Interviews with Persons and Households (Subsample C), Waves 1 to 23.



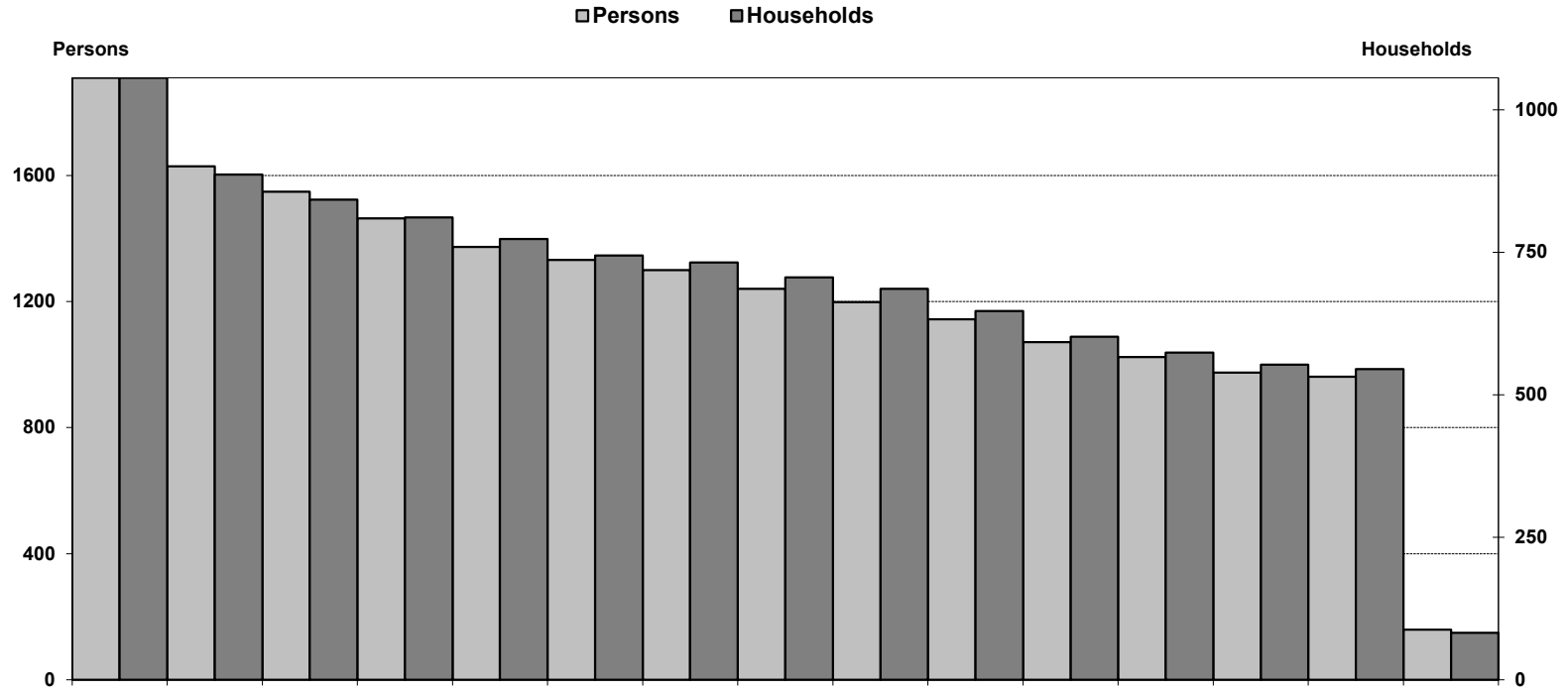
| Year | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Persons | 4,453 | 4,202 | 4,092 | 3,973 | 3,945 | 3,892 | 3,882 | 3,844 | 3,730 | 3,709 | 3,687 | 3,576 | 3,466 | 3,453 | 3,435 | 3,304 | 3,159 | 3,063 | 2,889 | 2,769 | 2,559 | 2,392 | 2,247 |
| Households | 2,179 | 2,030 | 2,020 | 1,970 | 1,959 | 1,938 | 1,951 | 1,942 | 1,886 | 1,894 | 1,879 | 1,850 | 1,818 | 1,807 | 1,813 | 1,771 | 1,717 | 1,654 | 1,592 | 1,535 | 1,437 | 1,355 | 1,223 |

Figure 4: Comparison of Successful Interviews with Individuals and Households (Subsample D), Waves 1 to 18.



| Year | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|------------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Persons | 1,078 | 1,023 | 972 | 885 | 838 | 837 | 789 | 780 | 789 | 758 | 734 | 684 | 658 | 602 | 565 | 488 | 461 | 432 |
| Households | 522 | 498 | 479 | 441 | 425 | 425 | 398 | 402 | 399 | 388 | 379 | 360 | 345 | 328 | 306 | 278 | 266 | 225 |

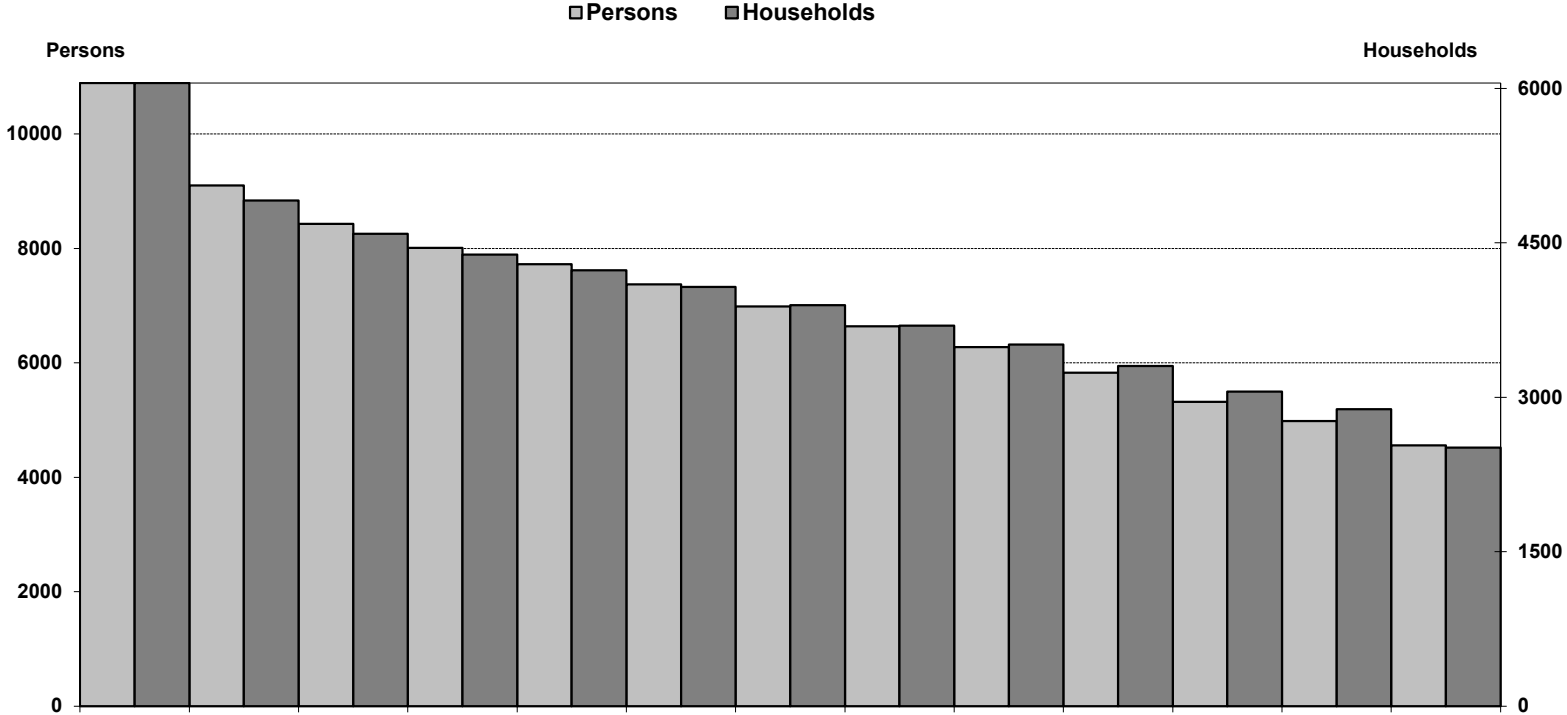
Figure 5: Comparison of successful interviews with individuals and households (Subsample E), Waves 1 to 15.



| Year | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| Persons | 1,910 | 1,629 | 1,549 | 1,464 | 1,373 | 1,332 | 1,300 | 1,240 | 1,198 | 1,144 | 1,071 | 1,024 | 975 | 961 | 159 |
| Households | 1056 | 886 | 842 | 811 | 773 | 744 | 732 | 706 | 686 | 647 | 602 | 574 | 553 | 545 | 82 |

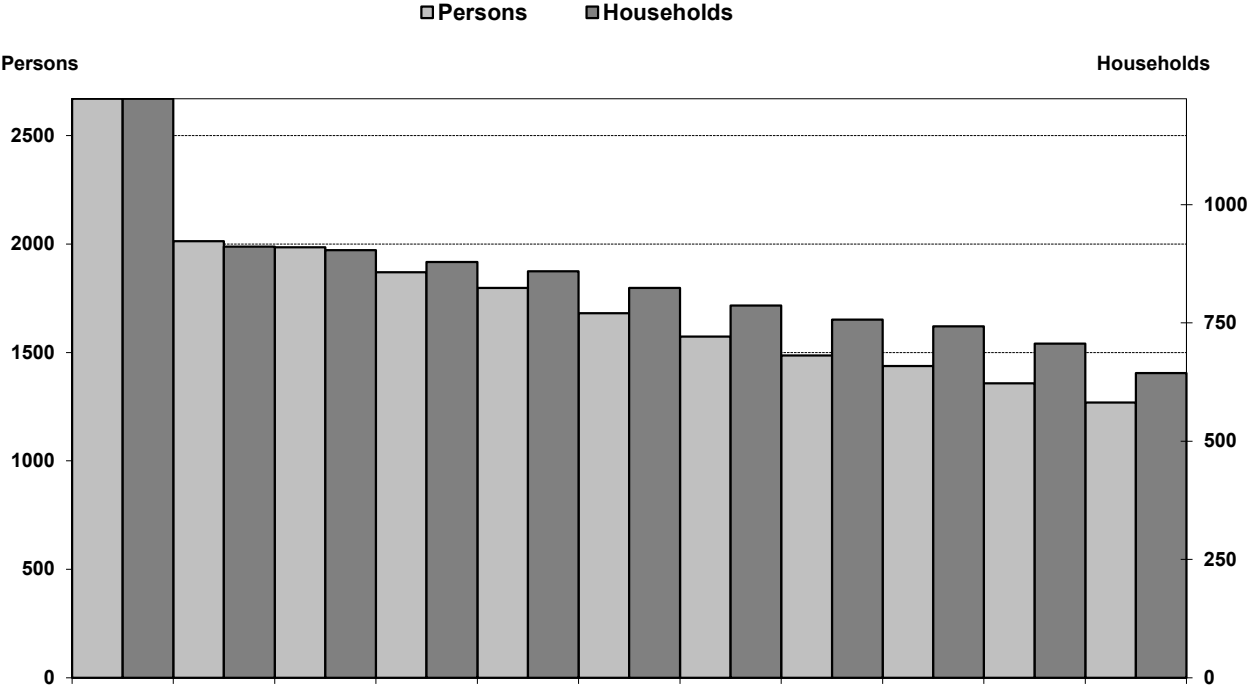
Note. In Wave BC (2012), Sample E was split between SOEP-Innovation Sample (SOEP-IS) and SOEP-Core (N=82 Households).

Figure 6: Comparison of Successful Interviews with Individuals and Households (Subsample F), Waves 1 to 13.



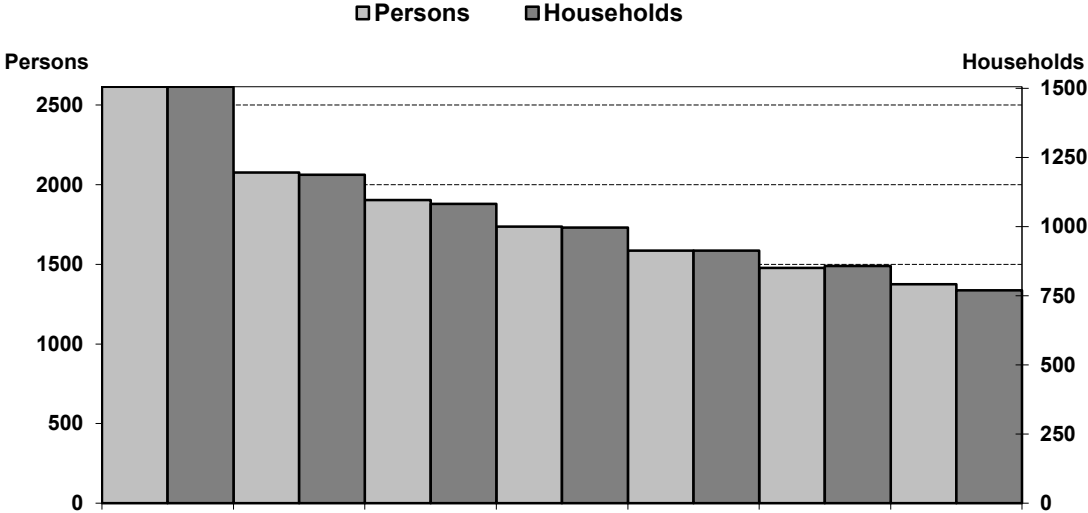
| Year | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Persons | 1,0890 | 9,098 | 8,427 | 8,006 | 7,724 | 7,371 | 6,986 | 6640 | 6,274 | 5,824 | 5,316 | 4,984 | 4,556 |
| Households | 6,052 | 4,911 | 4,586 | 4,386 | 4,234 | 4,070 | 3,895 | 3,694 | 3,513 | 3,303 | 3,055 | 2,885 | 2,511 |

Figure 7: Comparison of Successful Interviews with Individuals and Households (Subsample G), Waves 1 to 11.



| Year | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Persons | 2,671 | 2,013 | 1,986 | 1,870 | 1,798 | 1,682 | 1,574 | 1,487 | 1,438 | 1,358 | 1,270 |
| Households | 1,224 | 911 | 904 | 879 | 859 | 824 | 787 | 757 | 743 | 706 | 644 |

Figure 8: Comparison of Successful Interviews with Individuals and Households (Subsample H), Waves 1 to 7.



| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|------------|-------|-------|-------|-------|-------|-------|-------|
| Persons | 2,616 | 2,077 | 1,904 | 1,737 | 1,587 | 1,478 | 1,376 |
| Households | 1,506 | 1,188 | 1,082 | 996 | 913 | 858 | 770 |

2.2 Continuance and Exit: The First Wave Gross Samples and their Participatory Behavior

The following figures display the participation behavior of the first-wave respondents in the subsequent years distinguishing between continued participation, exits due to survey-unrelated attrition, and exits due to survey-related attrition.

| | |
|--|----|
| Figure 9: All First-Wave Persons (Gross Subsample A). Development up to Wave 29. | 14 |
| Figure 10: All First Wave Persons (Gross Subsample B). Development up to Wave 29. | 14 |
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| Figure 12: All First Wave Persons (Gross Subsample D). Development up to Wave 18. | 15 |
| Figure 13: All First Wave Persons (Gross Subsample E). Development up to Wave 15. | 16 |
| Figure 14: All First Wave Persons (Gross Subsample F). Development up to Wave 13. | 16 |
| Figure 15: All First Wave Persons (Gross Subsample G). Development up to Wave 11. | 17 |
| Figure 16: All First Wave Persons (Gross Subsample H). Development up to Wave 7. | 17 |

Figure 9: All First-Wave Persons (Gross Subsample A). Development up to Wave 29.

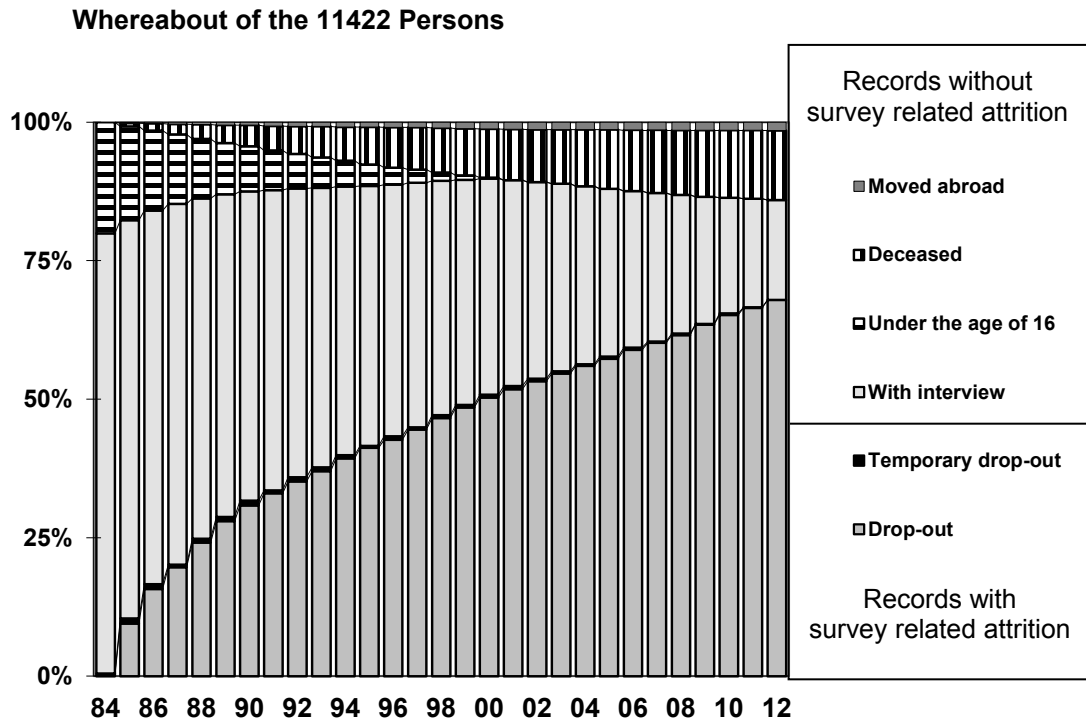


Figure 10: All First Wave Persons (Gross Subsample B). Development up to Wave 29.

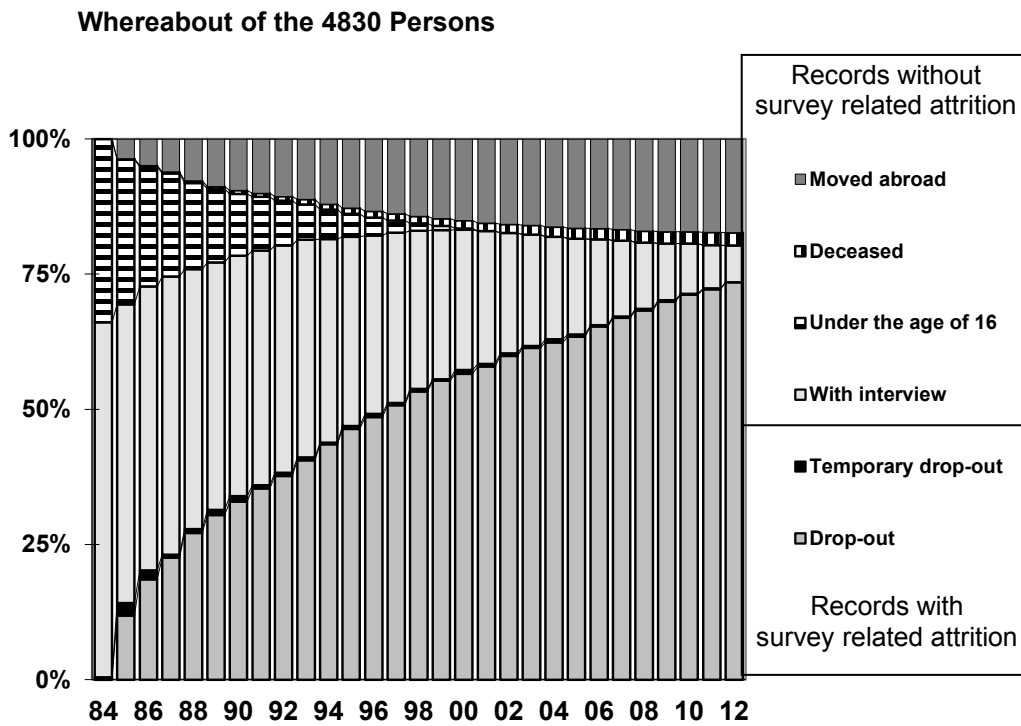


Figure 11: All First Wave Persons (Gross Subsample C). Development up to Wave 23.

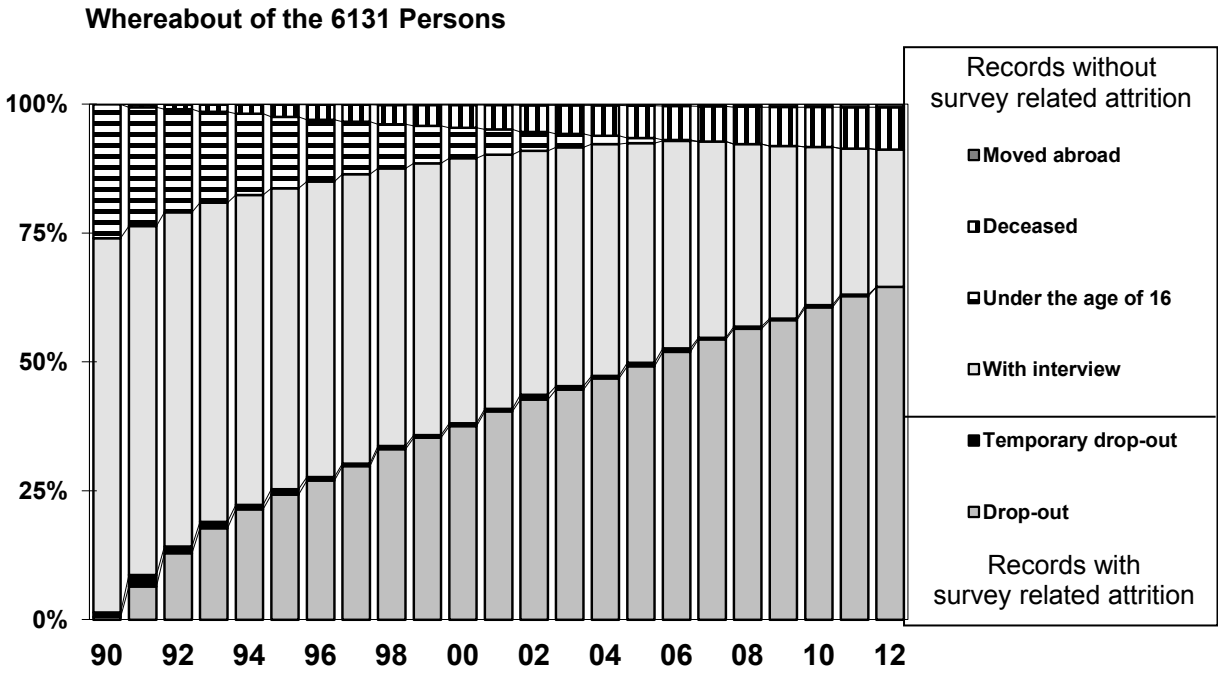


Figure 12: All First Wave Persons (Gross Subsample D). Development up to Wave 18.

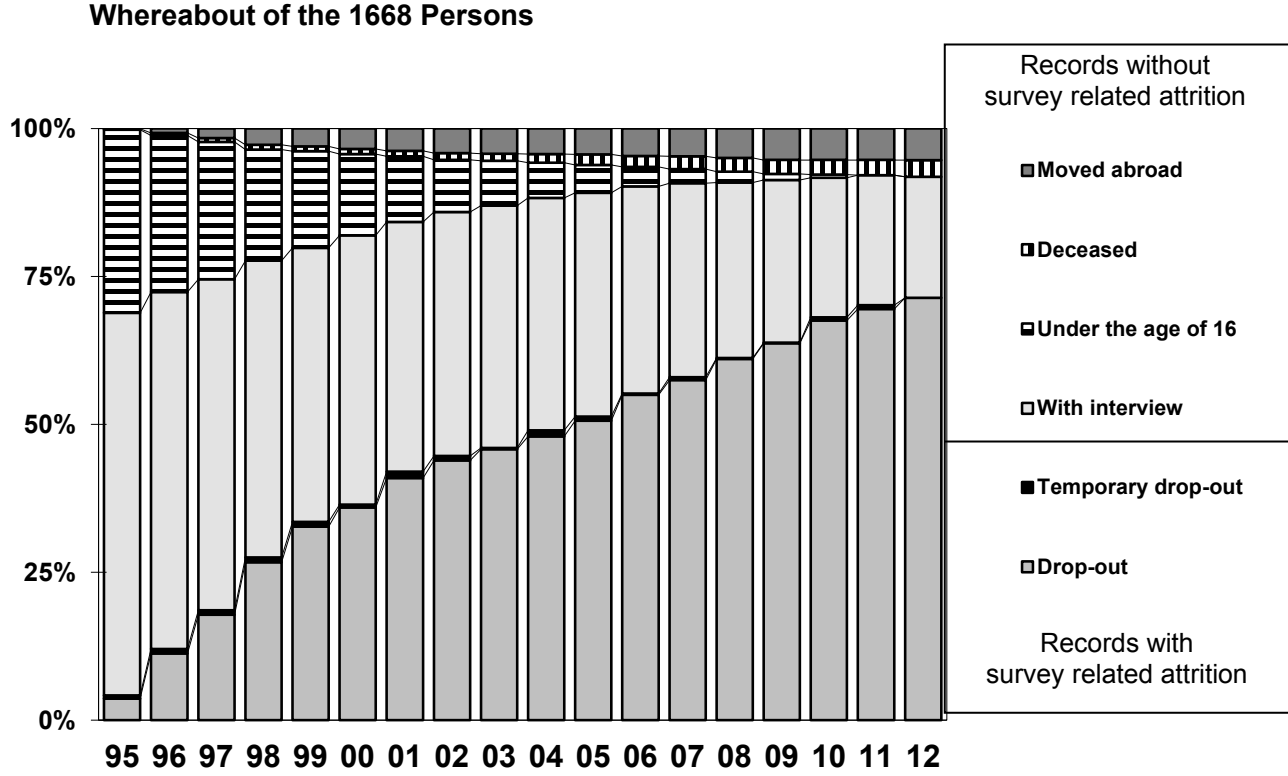


Figure 13: All First Wave Persons (Gross Subsample E). Development up to Wave 15.

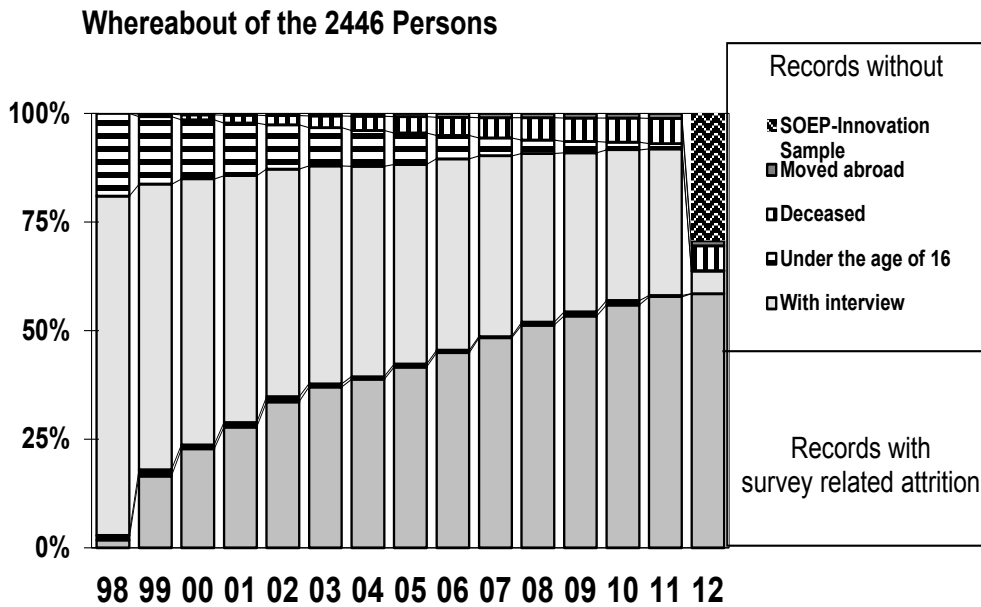


Figure 14: All First Wave Persons (Gross Subsample F). Development up to Wave 13.

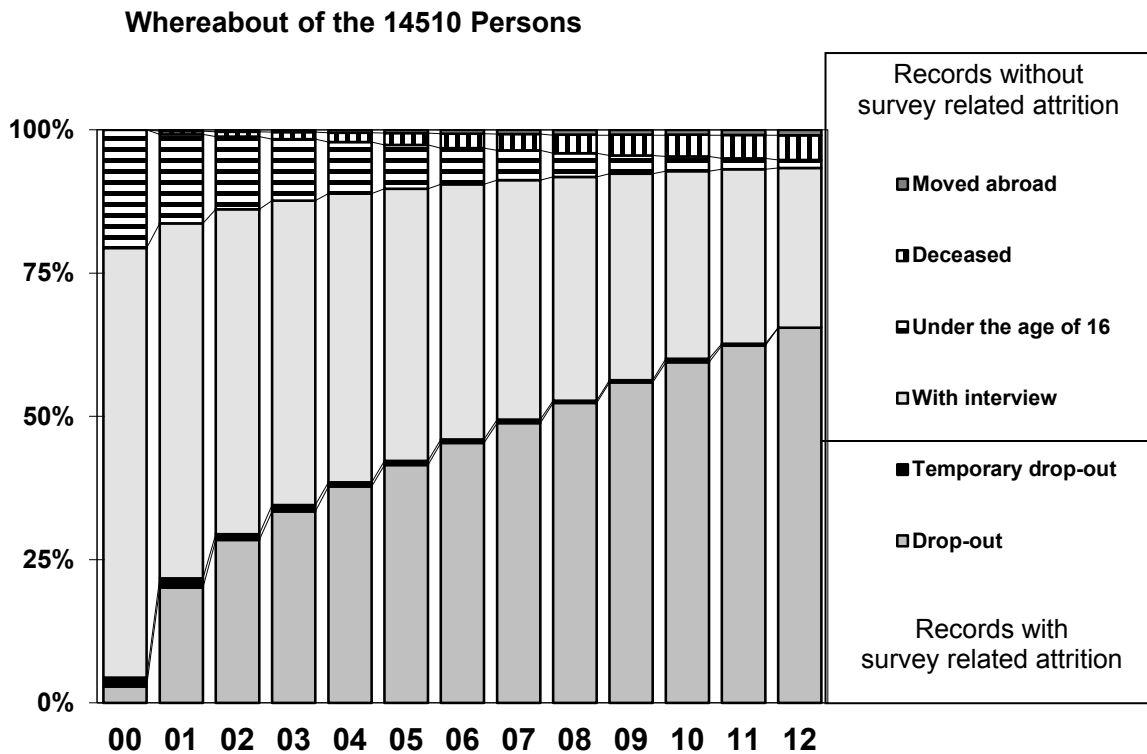


Figure 15: All First Wave Persons (Gross Subsample G). Development up to Wave 11.

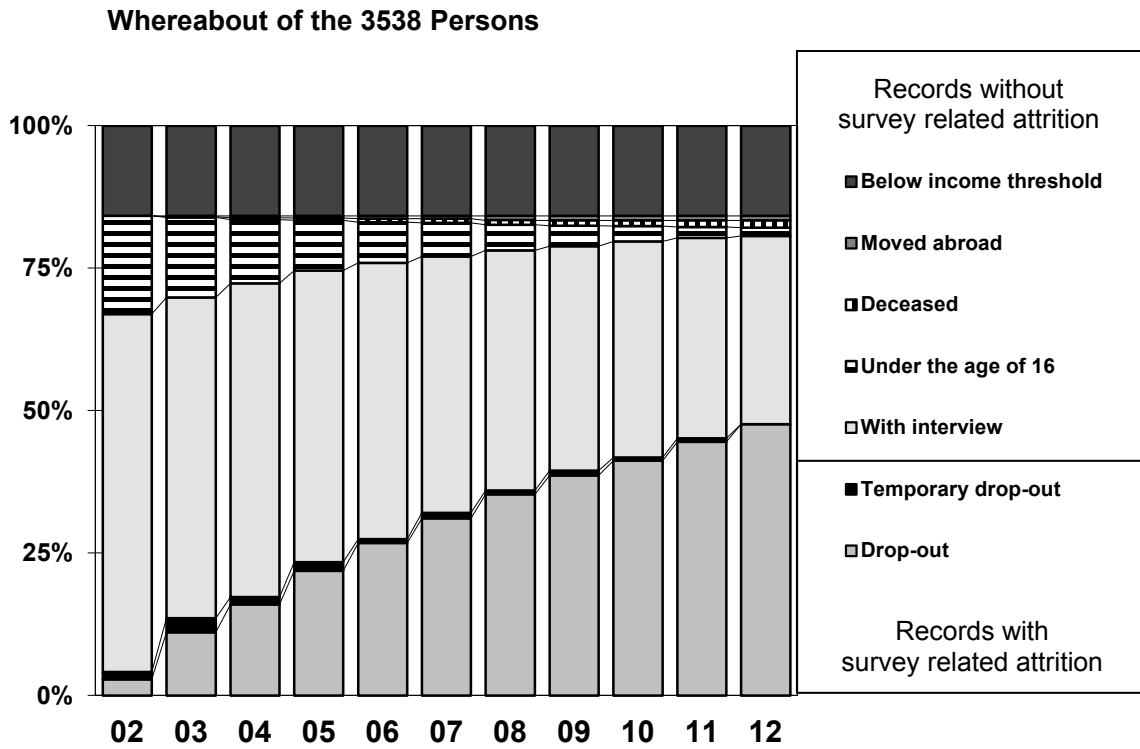
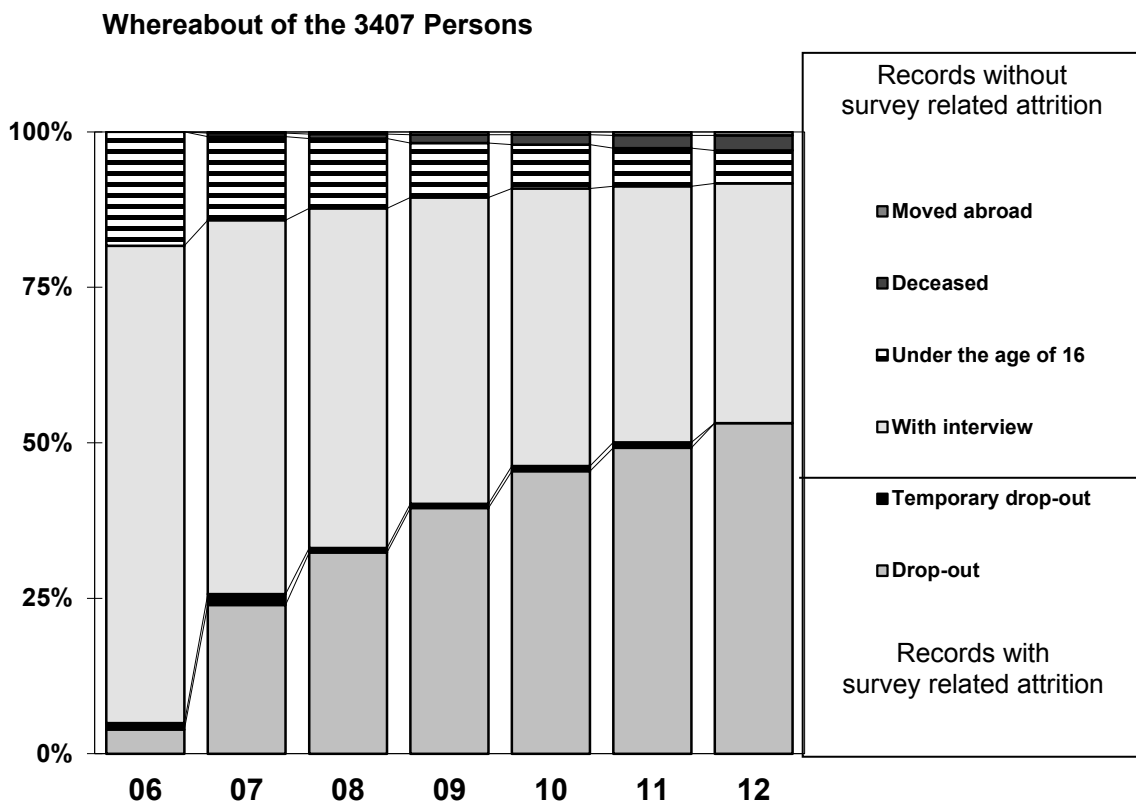


Figure 16: All First Wave Persons (Gross Subsample H). Development up to Wave 7.



2.3 New Entrants through Birth or Move into SOEP Households and Their Participation Behavior

The following figures display the participation behavior of the non-original sample members and their entrance to the ongoing survey, distinguishing between continuation of participation, exits due to survey unrelated attrition, and exits due to survey-related attrition.

| | |
|---|----|
| Figure 17: Entrants and their Participation Behavior (Subsample A) | 19 |
| Figure 18: Entrants and their Participation Behavior (Subsample B) | 19 |
| Figure 19: Entrants and their Participation Behavior (Subsample C) | 20 |
| Figure 20: Entrants and their Participation Behavior (Subsample D) | 20 |
| Figure 21: Entrants and their Participation Behavior (Subsample E) | 21 |
| Figure 22: Entrants and their Participation Behavior (Subsample F) | 21 |
| Figure 23: Entrants and their Participation Behavior (Subsample G) | 22 |
| Figure 24: Entrants and their Participation Behavior (Subsample H) | 22 |

Figure 17: Entrants and their Participation Behavior (Subsample A).

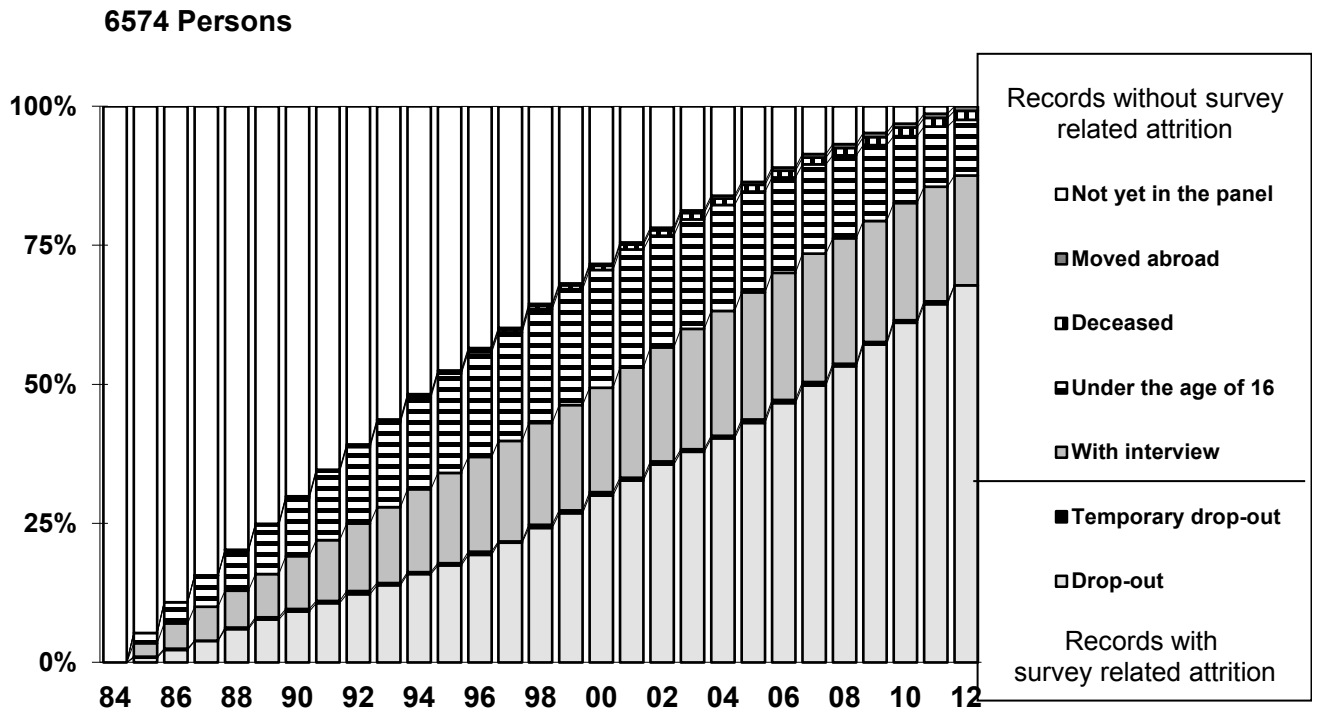


Figure 18: Entrants and their Participation Behavior (Subsample B).

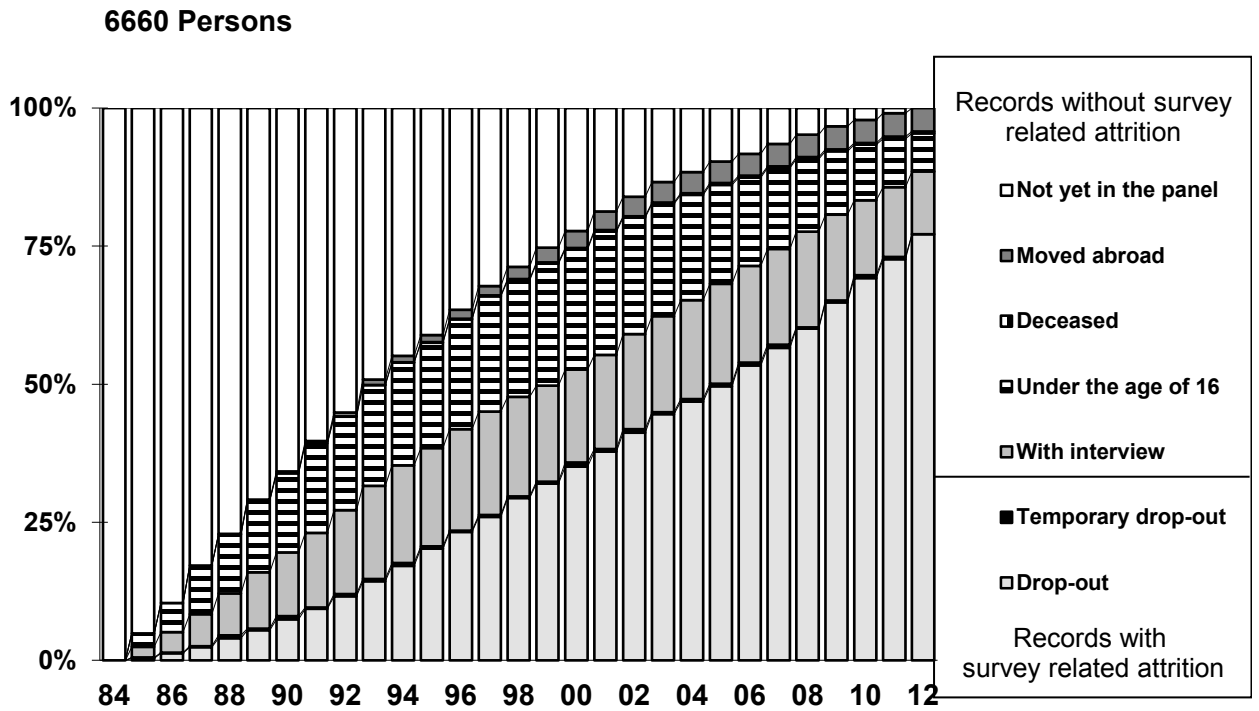


Figure 19: Entrants and their Participation Behavior (Subsample C).

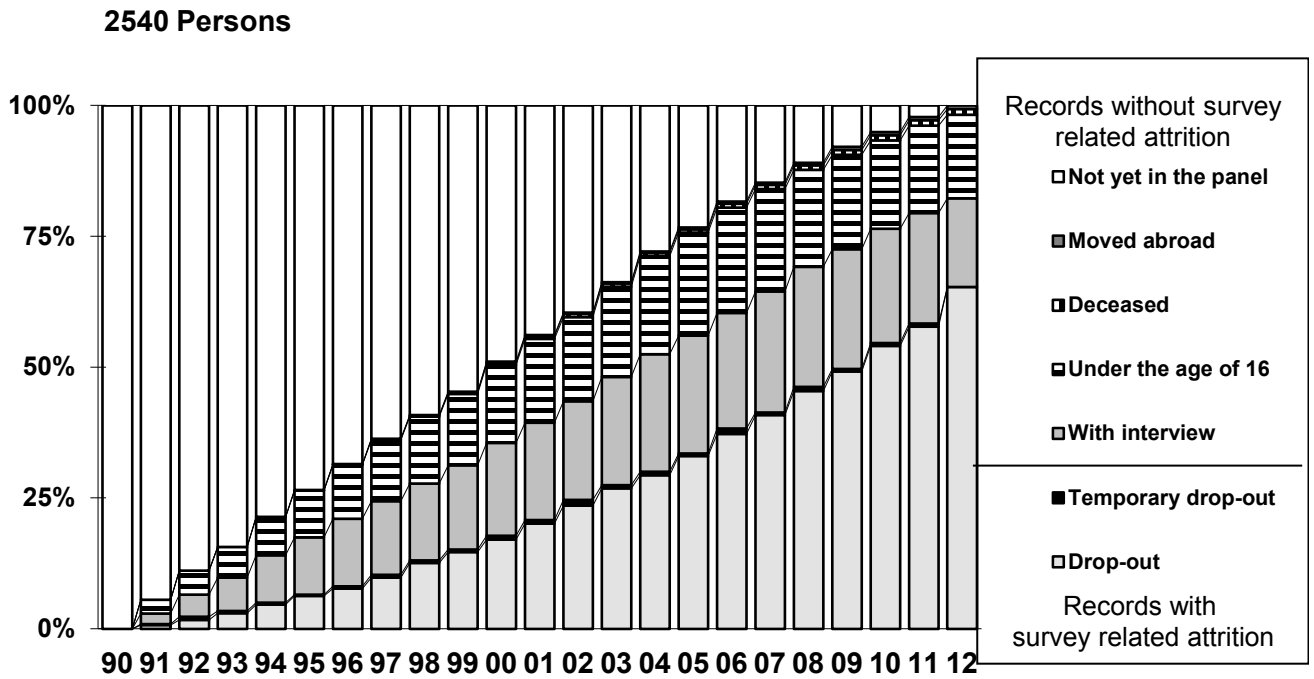


Figure 20: Entrants and their Participation Behavior (Subsample D).

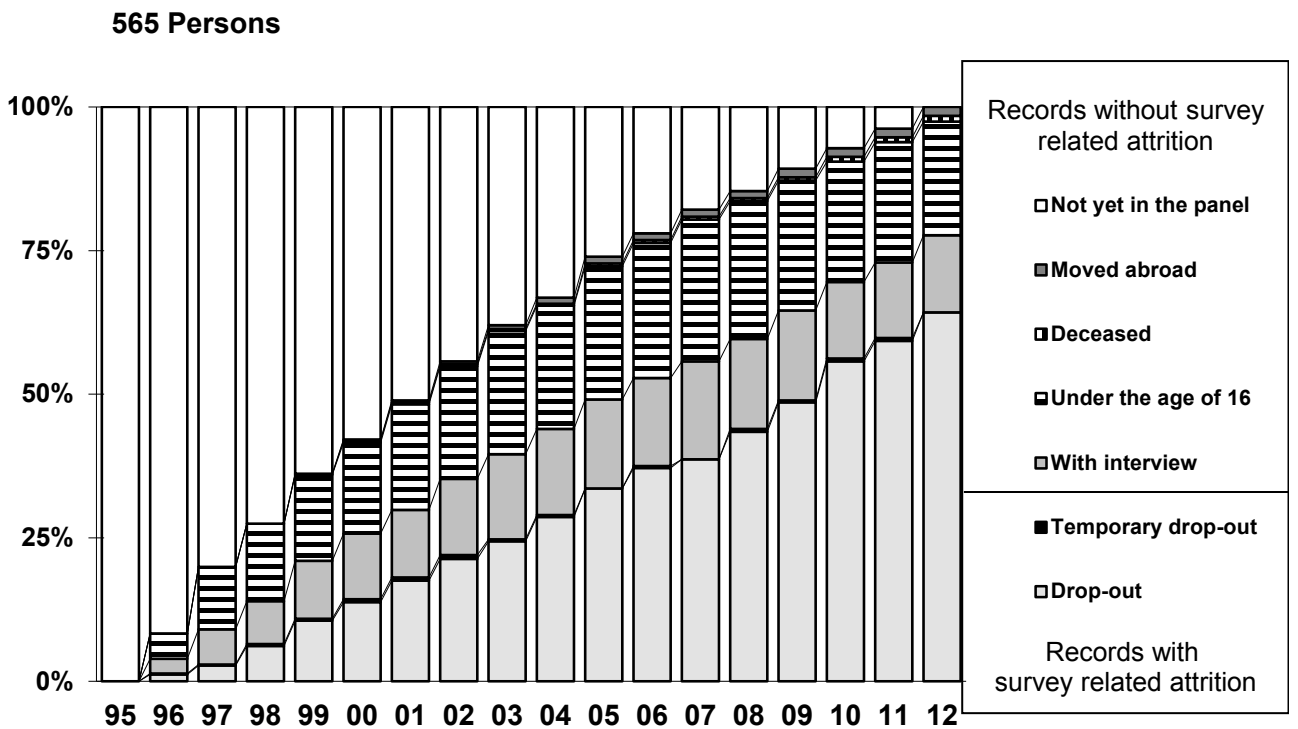


Figure 21: Entrants and their Participation Behavior (Subsample E).

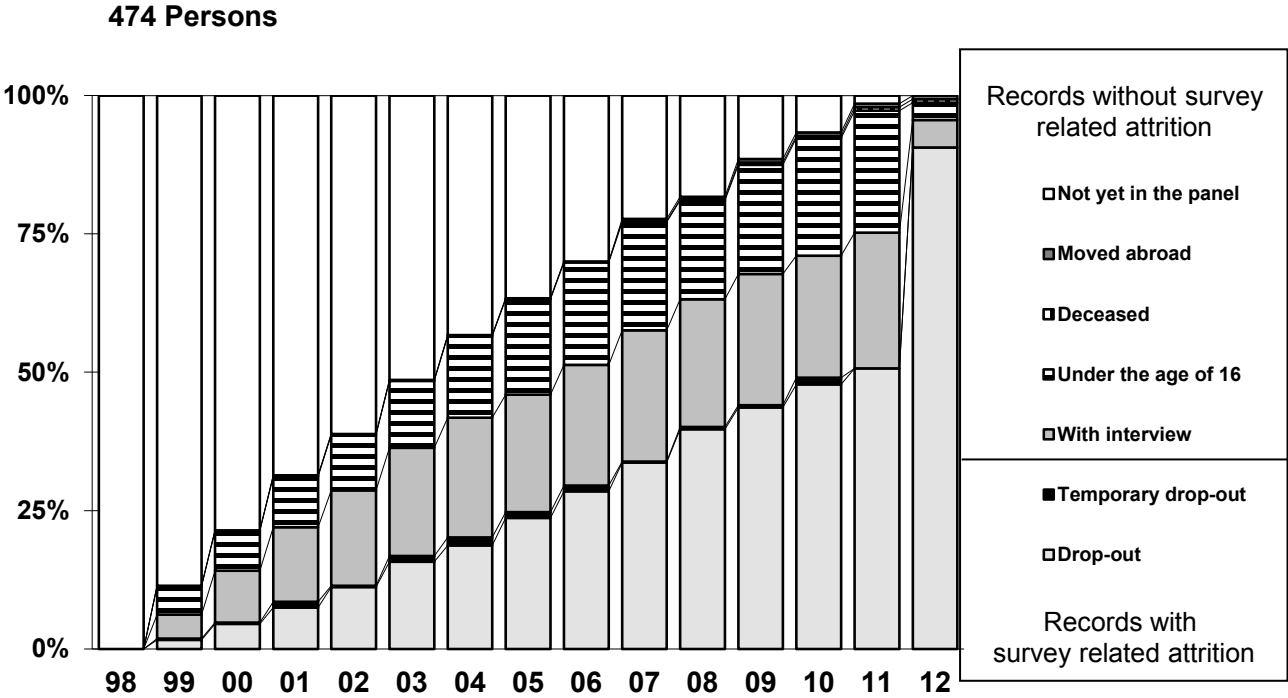


Figure 22: Entrants and their Participation Behavior (Subsample F).

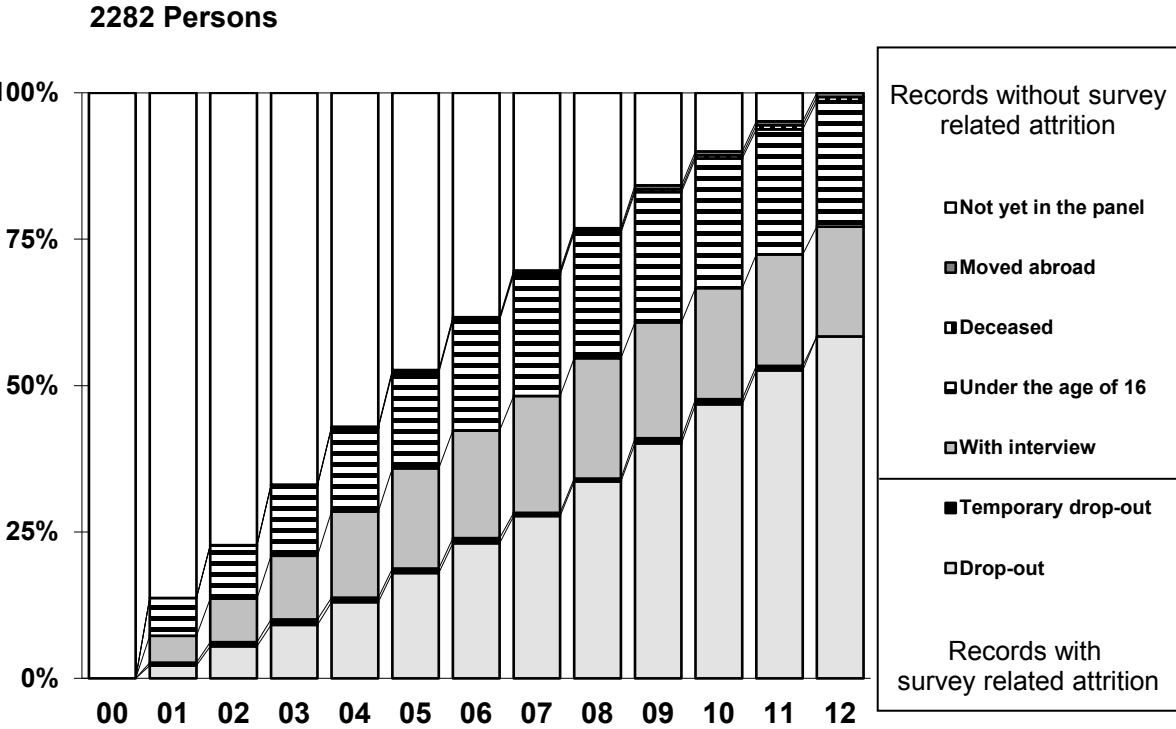


Figure 23: Entrants and their Participation Behavior (Subsample G).

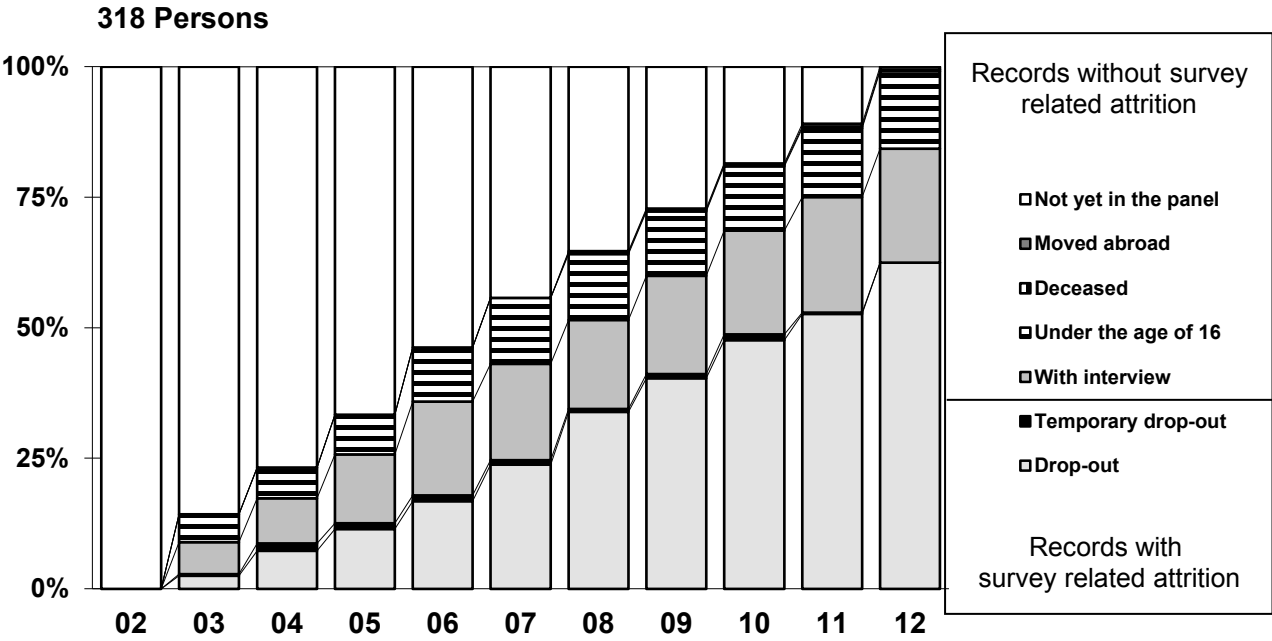
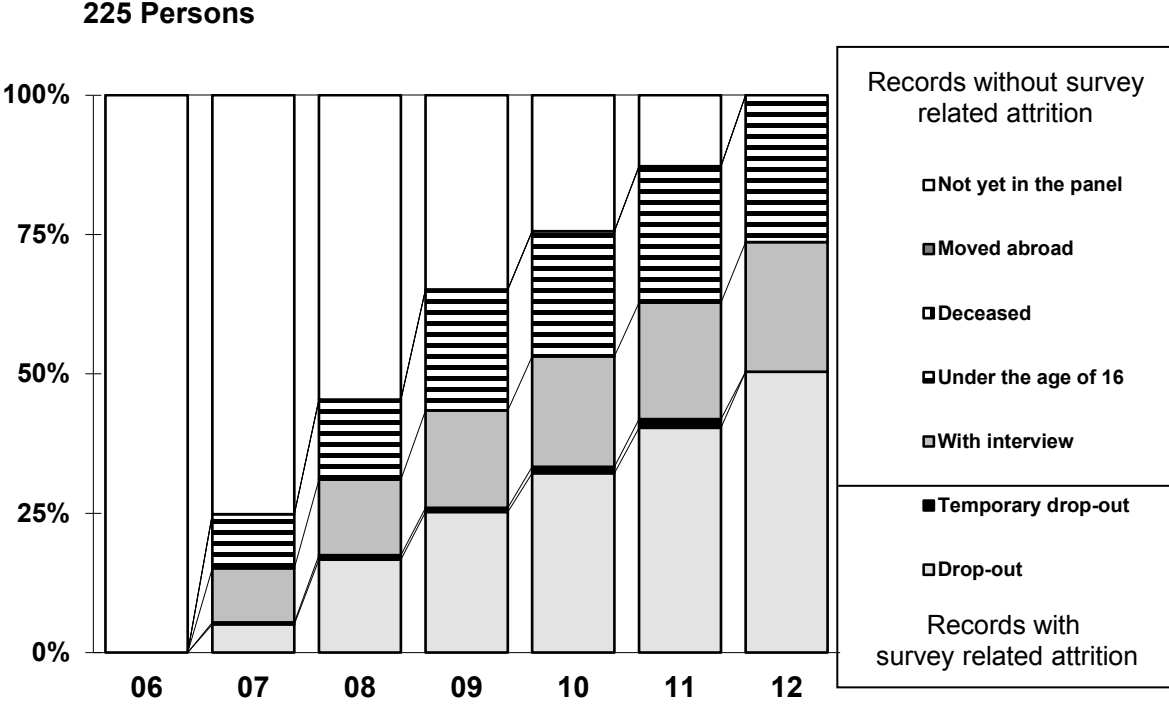


Figure 24: Entrants and their Participation Behavior (Subsample H).



2.4 The Risk of Survey-Related Panel Attrition

The following figures display Kaplan-Meier estimates of the risk of survey related attrition (unsuccessful follow-up and refusal) of the net sample of first-wave respondents thereby ignoring survey unrelated exits (moves abroad and deaths). These figures stratify the drop-out risk in different groups of the sample defined by respondents' sample membership (Figures 26, 27, and 28) and some basic socio-demographic characteristics measured in the year of sampling, such as age, occupation, income, and education (Figures 29 through 32). These unweighted figures show in general only moderate differences in the risk of survey related attrition between groups of the sample. Among the older samples A through C (Figure 26), for instance, first-wave respondents from sample B have a somewhat lower probability of remaining in the survey than respondents from sample A and C. In the more recent samples D through J (Figures 27 and 28), first-wave respondents from sample H have a somewhat lower probability of remaining in the survey than respondents from sample F. The latter in turn, have a lower probability of remaining in the survey than respondents from sample G.

| | |
|--|----|
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Figure 25: Successful Re-Interviewing of First-Wave Respondents by Subsamples A, B, C. Kaplan-Meier Estimates of Survey-Related Attrition Ignoring Deaths and Moves Abroad.

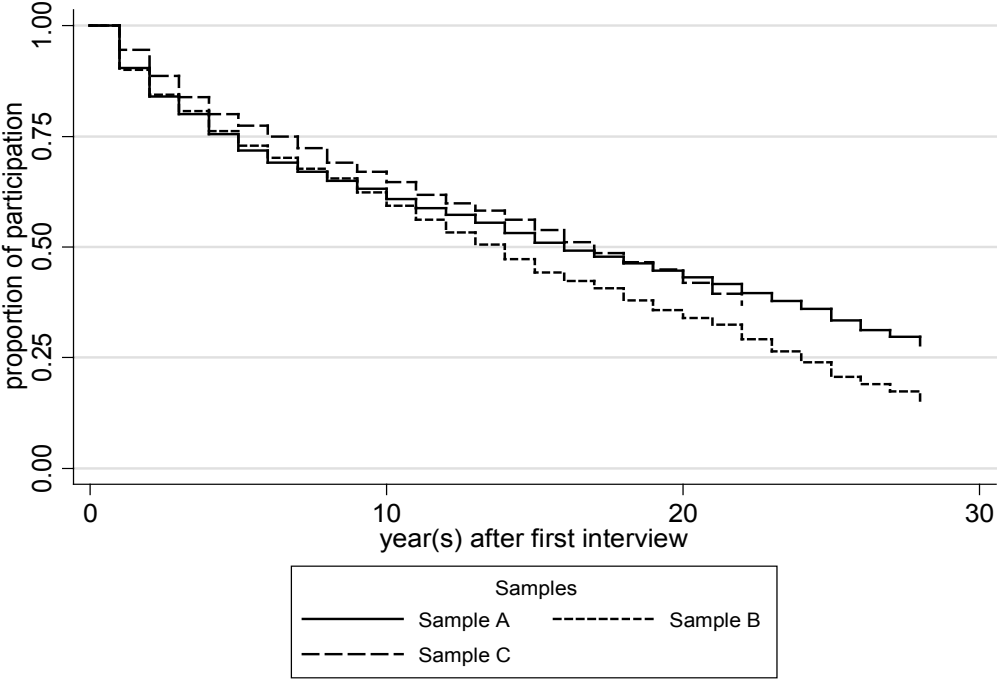


Figure 26: Successful Re-Interviewing of First-Wave Respondents by Subsamples D, E, F. Kaplan-Meier Estimates of Survey-Related Attrition Ignoring Deaths and Moves Abroad.

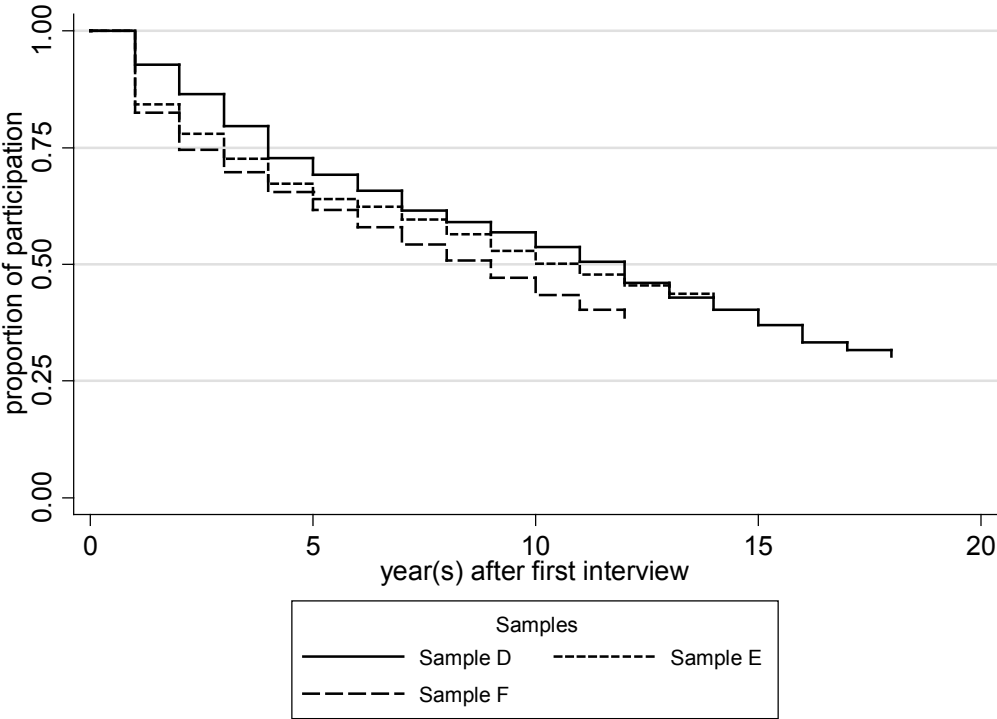


Figure 27: Successful Re-Interviewing of First-Wave Respondents by Subsamples G, H, J. Kaplan-Meier Estimates of Survey-Related Attrition Ignoring Deaths and Moves Abroad.

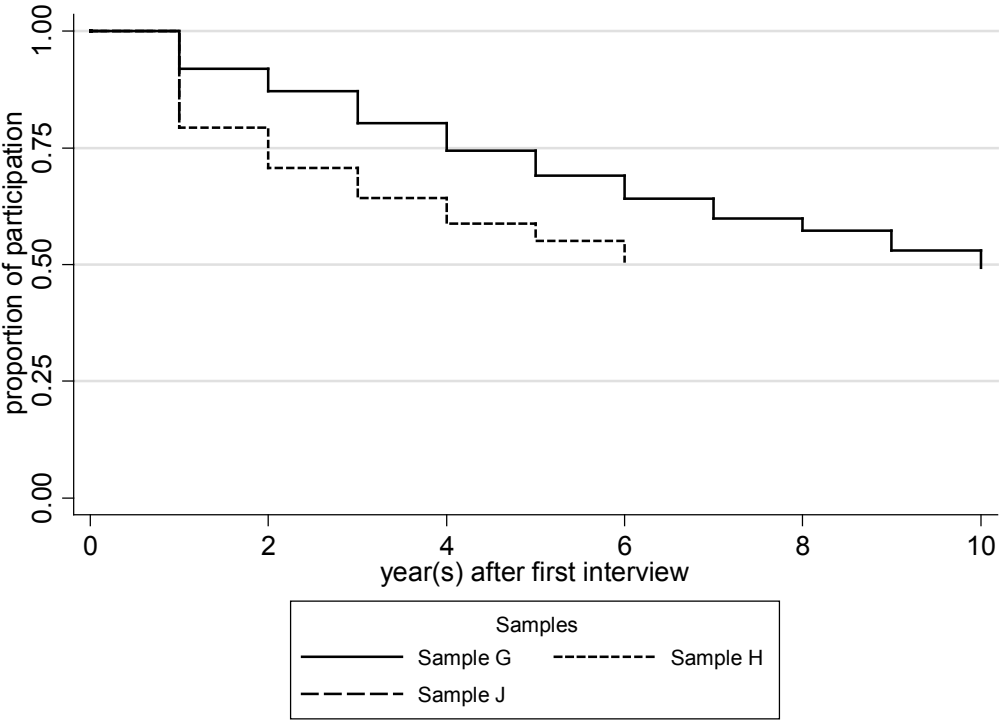


Figure 28: Successful Re-Interviewing of All First-Wave Respondents by Age Categories. Kaplan-Meier Estimates of Survey-Related Attrition Ignoring Deaths and Moves Abroad.

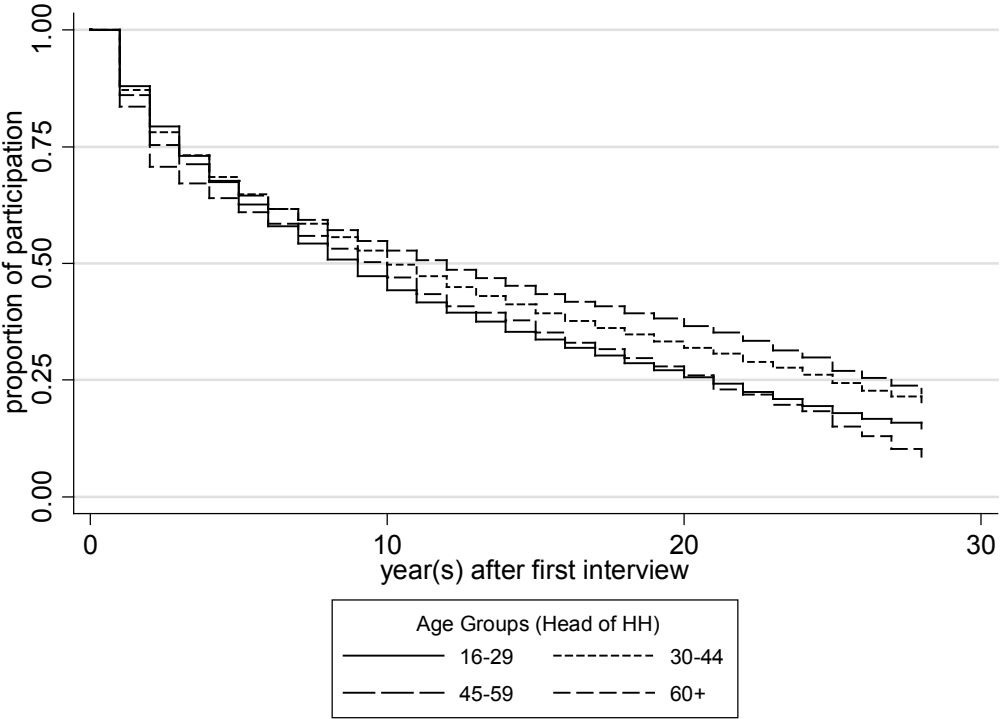


Figure 29: Successful Re-Interviewing of All First-Wave Respondents by Occupation. Kaplan-Meier Estimates of Survey-Related Attrition Ignoring Deaths and Moves Abroad.

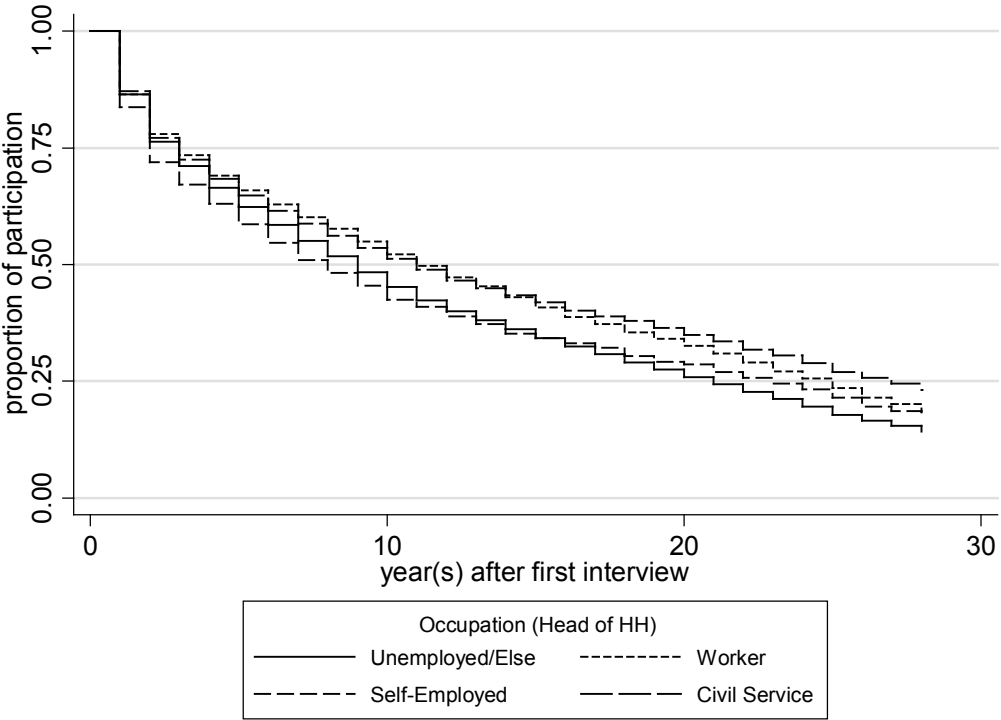


Figure 30: Successful Re-Interviewing of All First-Wave Respondents by Income Quintiles. Kaplan-Meier Estimates of Survey-Related Attrition Ignoring Deaths and Moves Abroad.

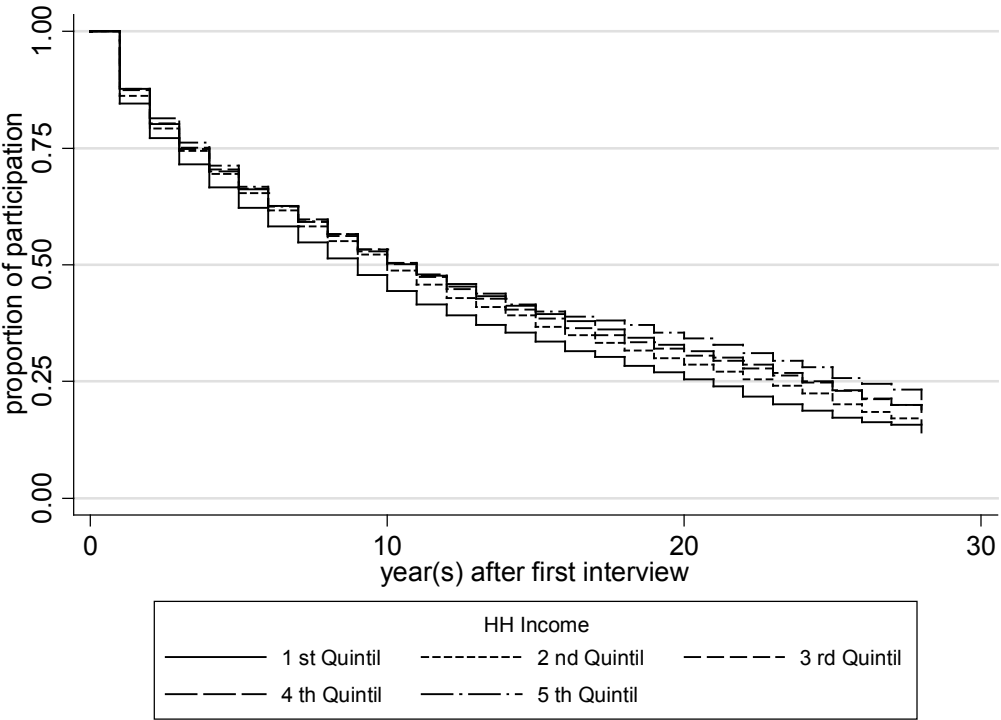
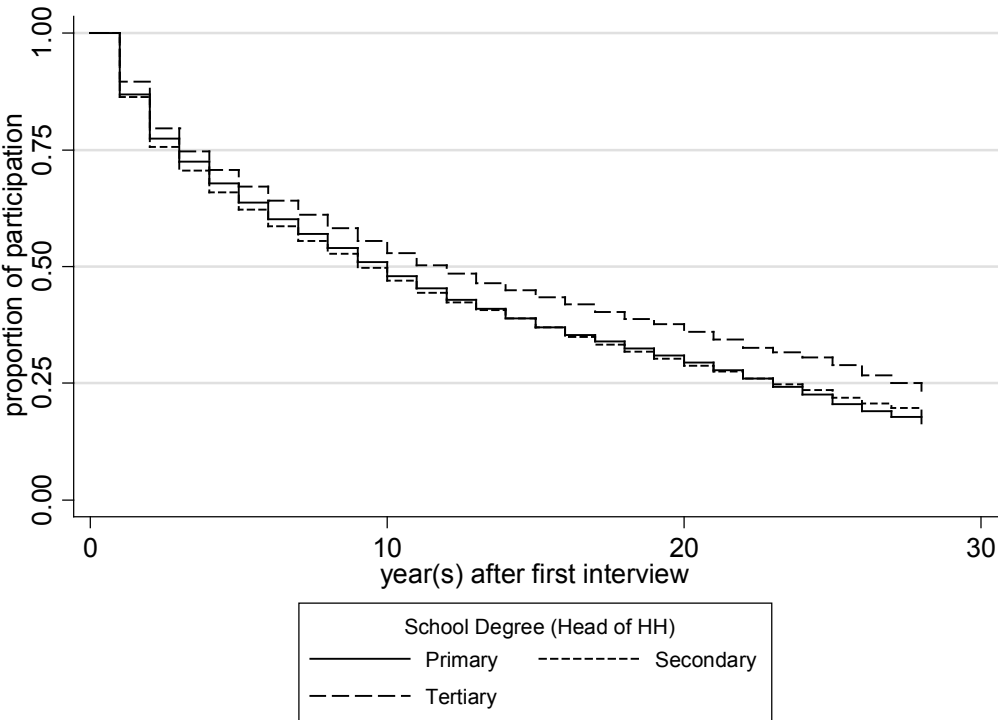


Figure 31: Successful Re-Interviewing of All First-Wave Respondents by Education. Kaplan-Meier Estimates of Survey-Related Attrition Ignoring Deaths and Moves Abroad.



3 Panel Attrition Due to Unsuccessful Follow-Ups

In each panel wave, the first step in successful re-interviewing is the relocation of the households of the preceding wave. The fieldwork organization of the SOEP, TNS Infratest, identifies whether (a) a household still lives at the old address, (b) an entire household has moved or all household members have died, (c) all household members have left the sampling area, and (d) all household members have returned to an existing panel household.

3.1 The Frequency of Successful Follow-Ups

Table 1 displays the number of households of the previous waves that need to be re-contacted and the relative frequency of successful follow-ups in subsamples A through J and waves 1985 through 2012. The re-contact rates refer to all households of the previous wave that still exist in the sampling area plus split-off households. A contact is regarded as successful if the interviewer documented a completed interview or refusal in the address protocol. Moreover, if former household members returned to an existing panel household, this is classified as a successful follow-up.

Table 1: The Frequency of Households to be Re-Contacted and the Relative Proportion of Successful Follow-Ups by Subsample and Year.

| | Sample A | | Sample B | | Sample C | | Sample D | | Sample E | | Sample F | | Sample G | | Sample H | | Sample J | |
|-------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % |
| 1985 | 4681 | 98.5 | 1370 | 96.9 | | | | | | | | | | | | | | |
| 1986 | 4486 | 99.0 | 1325 | 97.4 | | | | | | | | | | | | | | |
| 1987 | 4232 | 99.1 | 1220 | 98.7 | | | | | | | | | | | | | | |
| 1988 | 4140 | 99.2 | 1191 | 99.1 | | | | | | | | | | | | | | |
| 1989 | 3984 | 99.1 | 1157 | 99.1 | | | | | | | | | | | | | | |
| 1990 | 3902 | 99.2 | 1124 | 98.9 | | | | | | | | | | | | | | |
| 1991 | 3860 | 99.5 | 1151 | 99.3 | 2246 | 98.5 | | | | | | | | | | | | |
| 1992 | 3845 | 99.7 | 1153 | 99.2 | 2304 | 99.5 | | | | | | | | | | | | |
| 1993 | 3867 | 99.3 | 1172 | 98.7 | 2227 | 99.1 | | | | | | | | | | | | |
| 1994 | 3849 | 99.3 | 1150 | 99.1 | 2136 | 99.4 | | | | | | | | | | | | |
| 1995 | 3784 | 99.5 | 1108 | 99.0 | 2113 | 99.6 | | | | | | | | | | | | |
| 1996 | 3747 | 99.7 | 1069 | 99.3 | 2104 | 99.5 | 544 | 99.6 | | | | | | | | | | |
| 1997 | 3688 | 99.6 | 1038 | 99.1 | 2091 | 99.5 | 542 | 99.3 | | | | | | | | | | |
| 1998 | 3667 | 99.4 | 1019 | 99.4 | 2081 | 99.4 | 498 | 99.4 | | | | | | | | | | |
| 1999 | 3631 | 99.6 | 975 | 99.4 | 2041 | 99.7 | 529 | 99.1 | 1100 | 99.5 | | | | | | | | |
| 2000 | 3549 | 99.6 | 934 | 99.5 | 2028 | 99.6 | 467 | 99.8 | 968 | 99.2 | | | | | | | | |
| 2001 | 3463 | 99.6 | 904 | 99.5 | 2036 | 99.7 | 454 | 99.1 | 922 | 99.1 | 6172 | 99.0 | | | | | | |
| 2002 | 3406 | 99.7 | 877 | 99.1 | 2010 | 99.5 | 450 | 99.8 | 875 | 99.4 | 5451 | 99.5 | | | | | | |
| 2003 | 3330 | 99.6 | 840 | 99.6 | 1982 | 99.6 | 434 | 99.5 | 834 | 99.3 | 4965 | 99.7 | 1056 | 99.1 | | | | |
| 2004 | 3260 | 99.8 | 803 | 99.6 | 1962 | 99.6 | 436 | 99.8 | 797 | 99.7 | 4736 | 99.6 | 1010 | 99.7 | | | | |
| 2005 | 3220 | 99.8 | 779 | 99.4 | 1959 | 99.7 | 429 | 99.3 | 783 | 99.1 | 4577 | 99.7 | 1001 | 99.7 | | | | |
| 2006 | 3138 | 99.7 | 770 | 99.6 | 1941 | 99.4 | 425 | 98.8 | 775 | 99.1 | 4401 | 99.3 | 995 | 99.5 | | | | |
| 2007 | 3000 | 99.7 | 725 | 99.5 | 1834 | 99.9 | 387 | 99.5 | 727 | 99.7 | 4157 | 99.5 | 933 | 99.3 | 1530 | 99.5 | | |
| 2008 | 2856 | 99.7 | 676 | 99.1 | 1767 | 99.5 | 372 | 99.4 | 680 | 99.7 | 3962 | 99.4 | 904 | 99.6 | 1326 | 99.6 | | |
| 2009 | 2730 | 99.7 | 620 | 99.2 | 1695 | 99.8 | 351 | 99.7 | 636 | 100 | 3760 | 99.6 | 870 | 99.5 | 1145 | 99.7 | | |
| 2010 | 2570 | 99.8 | 548 | 99.3 | 1627 | 100 | 334 | 99.6 | 605 | 99.8 | 3538 | 99.5 | 826 | 99.9 | 1059 | 99.5 | | |
| 2011 | 2421 | 99.8 | 495 | 99.0 | 1541 | 99.8 | 302 | 99.3 | 589 | 100 | 3318 | 99.6 | 797 | 99.6 | 992 | 99.5 | | |
| 2012 | 2289 | 99.8 | 440 | 99.7 | 1466 | 0.99 | 286 | 100 | 116 | 98.9 | 3076 | 99.9 | 774 | 99.7 | 928 | 99.9 | 1526 | 99.1 |

n = Number of households to be recontacted

% = Percentage of households with successful recontact

3.2 Predicting the Probability of Successful vs. Unsuccessful Follow-Ups in the Year 2012

Based on the household and interview characteristics measured in 2011, we aim at predicting the probability of re-contacting a household relative to unsuccessful follow-up in 2012. Among a very large number of regressors that we tested in preliminary analyses, we identified a smaller number of variables that exert a robust effect on the probability of successful follow-ups ($p < 0.05$). Table 2 describes the regressors and Table 3 reports the subsample-specific estimates of logit models of the probability of re-contacting a household relative to unsuccessful follow-up.

Note that the estimates of regression models of the previous waves 1985 through 2011 are due to space restrictions not reported in the present data documentation, but can be obtained from previous attrition documentations.

Table 2: Definition of the Regressors of the Logit Model of Unsuccessful Follow-Ups.

| Variable | Label | Value |
|----------------------------------|--------------------------------------|-------|
| Interview Characteristics | | |
| Email Disclosed | Email Address Known | 0/1 |
| Move HH | HH Move | 0/1 |
| Interviewer Related HH | Same Interviewer in Related HH | 0/1 |
| Incentives | Incentives-Experiment in Old-Samples | 0/1 |
| Demographics and Health | | |
| Age below 25 | Head of HH Younger than 25 Years | 0/1 |
| Single HH | One Person Living in HH | 0/1 |
| Living Apart Together | Partner Living Apart HH | 0/1 |
| Female Head of HH | Head of HH Male/Female | 0/1 |
| Thuringia | HH located in Thuringia | 0/1 |
| Religion | Affiliated with Any Religion | 0/1 |

Table 2: **Definition of the Regressors of the Logit Model of Unsuccessful Follow-Ups.**

| Variable | Label | Value |
|---|--|--------------|
| Financial Situation, Real Estate and Insurance | | |
| Change Job | Changed Job in Previous Year | 0/1 |
| Income 100 | HH in Fourth Quartile of Income Distribution | 0/1 |
| Investment | No Investment in Previous Year | 0/1 |
| Personality Traits and Well-Being | | |
| Job Security | Concerned about Job Security | 0/1 |

Table 3: Estimates of Logit Models of the Probability of Re-Contacting a Household (Relative to Unsuccessful Follow-Up) in 2012.

| | Sample A | Sample B | Sample C | Sample D | Sample E | Sample F | Sample G | Sample H | Sample J |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Intercept | 2.47 | 1.81 | 1.99 | | 1.56 | 2.07 | 1.78 | 1.92 | 3.16 |
| <u>Interview Characteristics</u> | | | | | | | | | |
| Move HH | -0.60 | | | | | | | | -1.30 |
| Interv. Related HH | | | | | | | | | -0.93 |
| Email Disclosed | | | | | | | | | 0.59 |
| Incentives | -0.86 | | | | | | | | |
| <u>Demographics and Health</u> | | | | | | | | | |
| Age below 25 | | | | | | -0.54 | | | |
| Single HH | | | | | | | | | -0.99 |
| Female head of HH | | | | | | | | | 0.66 |
| Livi. Apart Togeth. | | | | | | | | | 0.48 |
| Religion | | | | | | | | | -0.52 |
| <u>Region</u> | | | | | | | | | |
| Thuringia | | | | | | -0.52 | | | |
| <u>Financial Situation, Real Estate and Insurance</u> | | | | | | | | | |
| Change Job | -0.72 | | | | | | | | |
| Income 100 | | | | | | | | | -0.57 |
| Investment | | | | | | | | | -0.39 |
| <u>Personality, Traits and Well-Being</u> | | | | | | | | | |
| Job Security | | | | | | | | | -0.55 |
| Likel. Ratio ($Pr > 0.45$) | | **** | **** | **** | | **** | **** | **** | |

Note. *** $p < 0.01$; ** $p < 0.05$; * $p < 0.10$; standard errors in parentheses.

4 Panel Attrition Due to Refusals

In each panel wave, the second step in successful re-interviewing after relocating households from the preceding wave is to obtain each household's confirmation of willingness to participate in the survey. We define successful re-interviewing relative only to survey-related panel attrition, such as refusals, and ignore survey-unrelated attrition, such as deaths, and moves abroad, to generate the longitudinal weights.

4.1 The Frequency of Participation

Table 4 displays the participation rates due to refusal by sub-sample and wave. In reverse one can derive the corresponding drop-out rates. Note that we did not distinguish between various types of refusals such as unconditional refusals, refusals due to lack of time, or health problems, etc.

Table 4: The Frequency of Re-Contacted Households and the Relative Proportion of Participation by Subsample and Year.

| | Sample A | | Sample B | | Sample C | | Sample D | | Sample E | | Sample F | | Sample G | | Sample H | | Sample J | |
|-------------|----------|------|----------|-------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % |
| 1985 | 4611 | 89.8 | 1326 | 89.1 | | | | | | | | | | | | | | |
| 1986 | 4442 | 89.2 | 1290 | 87.4 | | | | | | | | | | | | | | |
| 1987 | 4194 | 93.2 | 1204 | 92.7 | | | | | | | | | | | | | | |
| 1988 | 4105 | 91.1 | 1180 | 90.8 | | | | | | | | | | | | | | |
| 1989 | 3949 | 92.4 | 1146 | 91.0 | | | | | | | | | | | | | | |
| 1990 | 3871 | 93.3 | 1111 | 92.5 | | | | | | | | | | | | | | |
| 1991 | 3842 | 94.0 | 1143 | 92.4 | 2213 | 91.7 | | | | | | | | | | | | |
| 1992 | 3833 | 93.5 | 1144 | 92.7 | 2290 | 88.2 | | | | | | | | | | | | |
| 1993 | 3838 | 93.9 | 1156 | 92.0 | 2208 | 89.2 | | | | | | | | | | | | |
| 1994 | 3821 | 93.6 | 1139 | 89.8 | 2122 | 92.3 | | | | | | | | | | | | |
| 1995 | 3766 | 93.6 | 1097 | 89.5 | 2101 | 92.2 | 634 | 82.3 | | | | | | | | | | |
| 1996 | 3734 | 93.3 | 1061 | 90.5 | 2092 | 93.3 | 542 | 91.9 | | | | | | | | | | |
| 1997 | 3674 | 94.1 | 1029 | 90.5 | 2076 | 93.6 | 537 | 89.2 | | | | | | | | | | |
| 1998 | 3645 | 92.9 | 1013 | 88.6 | 2066 | 91.3 | 523 | 84.3 | | | | | | | | | | |
| 1999 | 3616 | 92.0 | 969 | 88.5 | 2030 | 93.3 | 495 | 85.9 | 1084 | 81.7 | | | | | | | | |
| 2000 | 3535 | 91.7 | 929 | 88.3 | 2018 | 93.1 | 466 | 91.2 | 959 | 87.8 | | | | | | | | |
| 2001 | 3448 | 91.9 | 899 | 90.0 | 2028 | 91.2 | 450 | 88.4 | 913 | 88.8 | 6109 | 80.4 | | | | | | |
| 2002 | 3396 | 92.0 | 869 | 88.1 | 1996 | 91.1 | 449 | 89.5 | 868 | 89.1 | 5420 | 84.6 | | | | | | |
| 2003 | 3318 | 92.6 | 837 | 88.6 | 1974 | 91.5 | 432 | 92.4 | 828 | 89.9 | 4951 | 88.6 | 1047 | 87.0 | | | | |
| 2004 | 3253 | 92.5 | 800 | 89.25 | 1955 | 92.7 | 435 | 89.2 | 795 | 92.1 | 4719 | 89.7 | 1007 | 89.8 | | | | |
| 2005 | 3214 | 91.4 | 774 | 90.2 | 1954 | 90.6 | 426 | 89.0 | 782 | 90.3 | 4564 | 89.2 | 998 | 88.1 | | | | |
| 2006 | 3130 | 90.1 | 767 | 85.4 | 1930 | 89.0 | 420 | 85.7 | 768 | 89.3 | 4370 | 89.1 | 990 | 86.8 | | | | |
| 2007 | 2992 | 91.0 | 721 | 85.2 | 1832 | 90.3 | 385 | 89.6 | 725 | 89.2 | 4138 | 89.3 | 926 | 89.0 | 1523 | 78.0 | | |
| 2008 | 2850 | 90.7 | 671 | 84.9 | 1759 | 90.5 | 370 | 88.6 | 678 | 88.8 | 3939 | 89.2 | 901 | 87.3 | 1321 | 81.9 | | |
| 2009 | 2723 | 89.0 | 616 | 81.2 | 1693 | 90.7 | 350 | 87.4 | 636 | 90.3 | 3746 | 88.2 | 866 | 87.4 | 1142 | 87.2 | | |
| 2010 | 2565 | 87.5 | 545 | 80.9 | 1627 | 88.3 | 333 | 83.5 | 604 | 91.6 | 3523 | 86.7 | 825 | 90.1 | 1054 | 86.6 | | |
| 2011 | 2417 | 88.9 | 491 | 79.6 | 1538 | 88.1 | 300 | 88.7 | 589 | 92.5 | 3307 | 87.2 | 794 | 88.9 | 988 | 86.8 | | |
| 2012 | 2285 | 89.0 | 439 | 78.8 | 1456 | 89.6 | 286 | 87.8 | 115 | 80.0 | 3073 | 87.9 | 772 | 89.0 | 927 | 88.2 | 3178 | 80.4 |

n = Number of re-contacted households

% = Percentage of households that participated

4.2 Predicting the Probability of Re-Interviewing versus Refusal in the Year 2012

Based on the household and interview characteristics measured in 2011, and some regional information measured in 2012, we aim at predicting the probability of agreement vs. refusal to participate in the survey by the households that were re-contacted in 2012. The individual attributes refer in many cases to the head of the household in the previous wave, but for split-off households the attributes refer to the person who moved out of the panel household (in the case of several persons, the first person mentioned in the address protocol). In many other cases, personal information are aggregated within the households, for instance, rare events, such as acute medical conditions.

As in the case of predicting successful follow-ups, we use only model specifications where all included regressors are significantly different from zero. The definition of the regressors is given in Table 5. Table 6 reports the subsample-specific estimates of logit models of the probability of participating relative to refusal. Note that the estimates of regression models of the previous waves 1985 through 2011 are not reported in the present data documentation due to space restrictions, but can be obtained from previous attrition reports.

Table 5: Definition of the Regressors of the Logit Model of Refusal.

| Variable | Label | Value |
|----------------------------------|---|-------|
| Interview Characteristics | | |
| Original Sample Member | Head of HH is Original Sample Member | 0/1 |
| New HH | HH is New in SOEP | 0/1 |
| Partial Unit Nonresponse | Person(s) in HH did not Participate | 0/1 |
| Temporary Drop-Out | Temporary Drop-Out of HH in Previous Year | 0/1 |
| Email Disclosed | Email Address Known | 0/1 |
| Phone Disclosed | Telephone Number Known | 0/1 |
| Change in Interviewer | Change in Interviewer Between Last Waves | 0/1 |

Table 5: **Definition of the Regressors of the Logit Model of Refusal.**

| Variable | Label | Value |
|--------------------------------|---|--------------|
| SAQ | Self-Administered Questionnaire | 0/1 |
| Change in Interview Mode | Change in Interview Mode Between Last Waves | 0/1 |
| Temp. Related HH | Related HH Temporary Drop-Out | 0/1 |
| Refusal Related HH | Related HH Refusal | 0/1 |
| Interviewer Related HH | Same Interviewer in Related HH | 0/1 |
| Add. Questionnaire Bio | Additional Questionnaire Answered (Bio) | 0/1 |
| Add. Questionnaire Dj | Additional Questionnaire Answered (Dj) | 0/1 |
| Add. Questionnaire Muki | Additional Questionnaire Answered (Muki) | 0/1 |
| Short Interview | Interview Duration Short | 0/1 |
| Long Interview | Interview Duration Long | 0/1 |
| Demographics and Health | | |
| Female Head of HH | Head of HH is Female | 0/1 |
| Younger than 25 | Head of HH is Younger than 25 | 0/1 |
| Age 25-34 | Head of HH between 25 and 34 Years | 0/1 |
| Age 35-44 | Head of HH between 35 and 44 Years | 0/1 |
| Religion | Affiliated with Any Religion | 0/1 |
| Birth in HH | Baby was Born In HH | 0/1 |
| Death in HH | Someone Deceased In HH | 0/1 |
| Single HH | One Person Living in HH | 0/1 |
| Family HH | Family Living in HH | 0/1 |
| Divorced | Head of HH Divorced | 0/1 |
| Widowed | Head of HH Widowed | 0/1 |
| Moving In | Current Moving In HH | 0/1 |
| Separation | Current Separation in HH | 0/1 |
| Marriage | Marriage in HH | 0/1 |
| Partner Apart Together | Partner Living Apart Together | 0/1 |
| Partner | Married or Unmarried Couple in HH | 0/1 |

Table 5: **Definition of the Regressors of the Logit Model of Refusal.**

| Variable | Label | Value |
|---|---|--------------|
| Previous Partner | Married or Unmarried Couple Previous Year in HH | 0/1 |
| Health Situation | | |
| Diabetes | Person Having Diabetes | 0/1 |
| Depression | Person Having Depression | 0/1 |
| Chronic Backache | Person Having Chronic Backache | 0/1 |
| Asthma | Person Having Asthma | 0/1 |
| Heart Condition | Person Having a Heart Condition | 0/1 |
| Stroke | Person had a Stroke | 0/1 |
| Care | At least one HH-Member is in need of care | 0/1 |
| Disability | Level of Disability | 0/1 |
| Care Insurance Benefits | Benefits from Care insurance in HH | 0/1 |
| Financial Situation, Real Estate and Insurance | | |
| Subtenant | Subtenant of Dwelling | 0/1 |
| No Income | HH is in no Quartile of Income Distribution | 0/1 |
| Income 25 | HH in First Quartile of Income Distribution | 0/1 |
| Income 75 | HH in Third Quartile of Income Distribution | 0/1 |
| Income 100 | HH in Fourth Quartile of Income Distribution | 0/1 |
| Insurances | More than 4 Insurances | 0/1 |
| Investment | No Investment in Previous Year | 0/1 |
| Homeowner | Owner of Dwelling | 0/1 |
| Work and Education | | |
| Commuting | At Least one Member of HH is Commuting | 0/1 |
| Unemployed | Head of HH is Unemployed | 0/1 |
| White-Collar Worker | Head of HH is White-Collar Worker | 0/1 |
| Civil Servant | Head of HH is a Civil Servant | 0/1 |
| Self-Employed | Head of HH is Self-Employed | 0/1 |
| Blue-Collar Worker | Head of HH is an Blue-Collar Worker | 0/1 |

Table 5: **Definition of the Regressors of the Logit Model of Refusal.**

| Variable | Label | Value |
|---|--|--------------|
| Other Labour Status | At least one Person in HH in Maternity, Community Service, Military Service or Irregular Job | 0/1 |
| Not Employed in HH | At least one Person in HH is not Employed | 0/1 |
| Unemployment HH | One or More Persons Unemployed in HH | 0/1 |
| University Degree | Head of HH has a University Degree | 0/1 |
| Change Job | Changed Job in Previous Year | 0/1 |
| Personality Traits, Well-Being and Other Characteristics | | |
| Volunteer Work | At least one Person in HH is Engaged in Volunteer Work | 0/1 |
| Union | At least one Person in HH is Part of an Union | 0/1 |
| Health Happiness | At least one Person in HH has High Level of Health Happiness | 0/1 |
| Employee Organ. | At least one Person in HH is Engaged in an Employee Organization | 0/1 |
| Friends | Head of HH has a lot of Friends | 0/1 |
| No Friends | Head of HH does not have any Friends | 0/1 |
| Education Friend | Head of HH knows Education Level of Close Friend | 0/1 |
| Labour Status Friend | Head of HH knows Labor Status of Friend | 0/1 |
| Strong Political Interest | Head of HH has very High or No Political Interest | 0/1 |
| Building, Area, and Region | | |
| Prosperous Area | HH Located in Area of High Prosperity | 0/1 |
| Family Area | HH Located in Area with Mostly Families | 0/1 |
| Single Area | HH Located in Area with Mostly Singles | 0/1 |
| High Rise Block | HH Located in Area with High Rate of High Rise Buildings | 0/1 |
| Low Academics | HH Located in Area of Low Academics Rate | 0/1 |
| High Academics | HH Located in Area of High Academics Rate | 0/1 |
| Low Turnout | HH Located in Area of Low Voter Participation | 0/1 |
| High Turnout | HH Located in Area of High Voter Participation | 0/1 |
| Depopulation | HH Located in Area of High Depopulation | 0/1 |

Table 5: **Definition of the Regressors of the Logit Model of Refusal.**

| Variable | Label | Value |
|--------------------------|--|--------------|
| Small Flat | HH Located in Area of High Share of Small Flats | 0/1 |
| Big Town | HH in Town with More Than 100.000 Inhabitants | 0/1 |
| High CDU Share of Vote | HH Located in Area of High Share of Voting “CDU” | 0/1 |
| High Grüne Share of Vote | HH Located in Area of High Share of Voting “Grüne” | 0/1 |
| High Linke Share of Vote | HH Located in Area of High Share of Voting “Linke” | 0/1 |
| Low Purchasing Power | HH in Area with Low of Purchasing-Power (Microm) | 0/1 |
| High Purchasing Power | HH in Area with High of Purchasing-Power (Microm) | 0/1 |
| Berlin/Brandenburg | HH Located in Berlin/Brandenburg | 0/1 |
| Thuringia | HH Located in Thuringia | 0/1 |
| Saxony-Anhalt | HH Located in Saxony-Anhalt | 0/1 |
| Baden-Wuerttemberg | HH Located in Baden-Wuerttemberg | 0/1 |
| Hessen | HH Located in Hessen | 0/1 |
| Mecklenburg-Vorpommern | HH Located in Mecklenburg-Vorpommern | 0/1 |
| West | HH Located in Western/Eastern Germany | 0/1 |
| Few Abitur-Graduates | HH Located in Area with Few Abitur-Graduates | 0/1 |
| Old Area | HH Located in Area with High Average Age | 0/1 |
| Newspaper | HH Located in Area with High Level of supra-regional Newspaper Readers | 0/1 |

Table 6: Estimates of Logit Models for the Probability of Re-Interviewing a Household (Relative to Refusal) in 2012.

| | Sample A | Sample B | Sample C | Sample D | Sample E | Sample F | Sample G | Sample H | Sample J |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Intercept | 0.09 | 0.77 | 0.56 | 0.98 | -0.09 | -0.63 | 0.84 | -1.11 | -0.43 |
| <i>Interview Characteristics</i> | | | | | | | | | |
| Partial Unit Nonresponse | | | | | | | -0.43 | | -0.41 |
| Original Sample Member | 0.13 | | | 1.06 | | 0.39 | | 1.05 | |
| New HH | -0.71 | | | | | -0.74 | | | -0.62 |
| Refusal Related HH | | | | | | -0.47 | | | 1.23 |
| Email Disclosed | | | | | | | | | 0.45 |
| Phone Disclosed | 0.57 | 0.63 | 0.78 | | | 0.77 | 0.60 | 1.21 | 0.80 |
| Change in Interviewer | -0.38 | | | | | -0.39 | | | |
| Change Interview Mode | | | -0.39 | | | | | | |
| Interviewer Related HH | 0.24 | | 0.37 | | | 0.32 | | | |
| Temp. Drop-Out | | -1.89 | | -1.81 | | | -1.65 | | |
| Add. Questionnaire Bio | | 1.68 | | | | | | | |
| Add. Questionnaire Dj | | -1.54 | | -2.06 | | | | | |
| Add. Questionnaire Muki | | -1.80 | | | | | | | |
| SAQ | | | | | | 0.24 | | | |
| Temp. Related HH | -0.77 | | | | | -0.50 | | | |
| Short Interview | | -0.34 | 0.27 | | | | | | |
| Long Interview | | | | -1.42 | | | | -0.58 | |

Table 6: Estimates of Logit Models for the Probability of Re-Interviewing a Household (Relative to Refusal) in 2012.

| | Sample A | Sample B | Sample C | Sample D | Sample E | Sample F | Sample G | Sample H | Sample J |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <i>Demographic and Relational Characteristics</i> | | | | | | | | | |
| Female Head of HH | | -0.40 | | | | | | | |
| Religion | | | | | | | | 0.51 | |
| Younger than 25 | | -1.28 | | | | | | | |
| Age 25-34 | | | | | | | | -0.63 | |
| Age 35-44 | | | | -0.58 | | | | | |
| Birth in HH | | | | | | | | | -0.30 |
| Death in HH | | | -0.68 | | | | | | |
| Single HH | | | -0.43 | | | -0.20 | -0.64 | | -0.24 |
| Family HH | | | | | | -0.26 | | | |
| Divorced | | | | | | | | | 0.25 |
| Widowed | | | | | | | | | 0.24 |
| Moving In | | | | | | | | -1.01 | |
| Separation | | | -0.69 | | | | | | |
| Marriage | | -0.98 | | | | | | 1.61 | |
| Partner | | | | | | | -0.44 | | |
| Previous Partner | | | -0.37 | | | | | -0.41 | |
| Partn. Apart Togeth. | | | | | | | | -0.46 | |

Table 6: Estimates of Logit Models for the Probability of Re-Interviewing a Household (Relative to Refusal) in 2012.

| | Sample A | Sample B | Sample C | Sample D | Sample E | Sample F | Sample G | Sample H | Sample J |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Health Situation</u> | | | | | | | | | |
| Disability | | | 0.39 | | | | | | |
| Care Ins. Benefits | -0.42 | | | | | | | | |
| Diabetes | 0.22 | | | | -1.74 | | | | |
| Asthma | | | | | | 0.20 | -0.39 | | |
| Depression | | | 0.40 | | | | | | |
| Stroke | | | | -2.01 | | | | | |
| Chronic Backache | | | | | 1.42 | -0.18 | | | |
| Heart Condition | | | | | | | | 0.39 | |
| Care | | | -0.48 | | | | | | -0.25 |
| <u>Fin. Situation, Real Est., Insurance</u> | | | | | | | | | |
| Subtenant | | -0.91 | | | | | | | |
| Homeowner | | | 0.24 | | | | | | |
| No Income | -0.31 | | -0.82 | -1.62 | | | | | -0.25 |
| Income 25 | | | | -0.88 | | 0.26 | | | |
| Income 75 | | -0.32 | | | | | | | |
| Income 100 | | | | | | | | | -0.21 |
| Insurances | | | | | | | | | 0.19 |
| Investment | -0.19 | | 0.31 | | | -0.21 | | -0.50 | |

Table 6: Estimates of Logit Models for the Probability of Re-Interviewing a Household (Relative to Refusal) in 2012.

| | Sample A | Sample B | Sample C | Sample D | Sample E | Sample F | Sample G | Sample H | Sample J |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Work and Education</u> | | | | | | | | | |
| Commuting | | | | | 1.33 | | | | |
| White-Collar Worker | | | 0.29 | | | 0.39 | | | |
| Civil Servant | | | 0.82 | | | | | | |
| Self-Employed | | | | | | 0.39 | | | |
| Blue-Collar Worker | | | | -0.83 | | 0.44 | | 0.44 | |
| Other Labour Status | | | | | | | | | 0.27 |
| Unemployed | 0.45 | | | | | | | | 0.26 |
| Change Job | | | -0.46 | | | | | | |
| Not Employed in HH | 0.14 | | | | | 0.41 | | | 0.20 |
| Unemployment HH | | | | | | | 0.96 | | |
| Univ. Degree | | | 0.26 | | | | | 0.32 | 0.21 |
| <u>Personality Traits, Well-Being and Other Characteristics</u> | | | | | | | | | |
| Employee Orga. | | | | | | 0.49 | | | |
| Union | 0.25 | | | | | | | 0.39 | |
| Volunteer Work | | | | | | | | | 0.13 |
| Strong Pol. Interest | 0.20 | | | | 1.19 | 0.18 | | | |
| Health Happiness | | | | | | | | | -0.31 |
| Friends | | -0.82 | | | -0.87 | | | | |
| No Friends | | | | | | | | 0.65 | -0.25 |
| Educ. Friend | | | | | | | | -0.56 | |
| Lab. Status Friend | | | | | | | | 0.55 | |
| <u>Building, Area and Region</u> | | | | | | | | | |
| Prosperous Area | | | | 0.55 | | | | | |
| Family Area | | | 0.29 | | | | | | |
| Single Area | | | 0.39 | | | | | | |
| Low Academics | | -0.73 | | | | | | | |
| High Academics | | | -0.51 | | | | | | |

Table 6: Estimates of Logit Models for the Probability of Re-Interviewing a Household (Relative to Refusal) in 2012.

| | Sample A | Sample B | Sample C | Sample D | Sample E | Sample F | Sample G | Sample H | Sample J |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| High Rise Block | | | 0.27 | | | | | | |
| Low Academics | | -0.73 | | | | | | | |
| High Academics | | | -0.51 | | | | | | |
| Low Turnout | | | | | | | | -0.58 | |
| High Turnout | | | | | | 0.19 | | | |
| Small Flat | | -0.58 | -0.40 | | | | | -0.43 | |
| Depopulation | | | -0.26 | | | -0.15 | | | |
| Big Town | | | | | | 0.21 | | | |
| Newspaper | | 0.57 | | | | | | 0.46 | |
| High Grüne Share | | | | | | -0.17 | | | |
| High Linke Share | | | 0.58 | | | | | 0.55 | |
| High CDU Share | | | 0.51 | | | | | | |
| Low Purch. Power | | | | | | | | | 0.16 |
| High Purch. Power | | | | | | | | -0.47 | |
| Saxony-Anhalt | | | -0.93 | | | | | | |
| Baden-Wuerttemberg | | | | | | | | | -0.24 |
| Berlin/Brandenburg | | | -0.29 | | | | | 0.87 | |
| Thuringia | | | -0.74 | | | | | | |
| Hessen | | | | | | | | -0.53 | |
| Mecklenburg-Vor. | | | -0.84 | | | | | | |
| West | | | | | | 0.28 | | | 0.26 |
| Few Abitur-Grad. | | | | | | | 0.32 | | 0.17 |
| Old Area | | | | | 0.75 | | | | |

Likel. Ratio (Pr > Chisq)

Note. *** p < 0.01; **p < 0.05; * p < 0.10; standard errors in parentheses.

5 Summary Statistics of the Derived Longitudinal and Cross-Sectional Weights

Based on the regression models of successful vs. unsuccessful recontacts and agreements vs. refusals to participate, we derive two sets of predicted probabilities, the product of which is the household's "staying probability". The inverse of this probability of staying in the SOEP in 2012 based on characteristics measured in 2011, BCHBLEIB, lends itself as a longitudinal weighting variable correcting for selective attrition between waves 2011 and 2012. Table 7 reports some sub-sample specific descriptive statistics of the longitudinal weights in each wave.

The product of the cross-sectional weight in 2011, BBHHRF, and the longitudinal weight in 2012, BCHBLEIB, provide the raw data for the cross-sectional weight in 2012. In a final step, the post-stratification of the cross-sectional weights corrects them to meet benchmarks of known marginals of the underlying population in 2012. These are at the household level states (Bundesländer), size of the community, household size, and house ownership. At the person level, SOEP weights are also adjusted to the marginal distributions of age, gender, and nationality (Non/German). Table 8 reports sub-sample-specific descriptive statistics of the derived cross-sectional weighting variable BCHHRF and in comparison all previous cross-sectional weights AHHRF through BBHHRF.

Table 7: Summary Statistics of the Derived Longitudinal Weights at the Household Level for Subsamples A through D (Percentiles of \$HBLEIB up to Wave 29).

| | sample A | | | | sample B | | | | sample C | | | | sample D | | | |
|-------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|-----|
| | p10 | p50 | p90 | N | p10 | p50 | p90 | N | p10 | p50 | p90 | N | p10 | P50 | p90 | N |
| 1985 | 1.06 | 1.10 | 1.22 | 4141 | 1.09 | 1.10 | 1.26 | 1181 | | | | | | | | |
| 1986 | 1.04 | 1.07 | 1.26 | 3962 | 1.10 | 1.10 | 1.29 | 1128 | | | | | | | | |
| 1987 | 1.03 | 1.03 | 1.13 | 3910 | 1.03 | 1.03 | 1.14 | 1116 | | | | | | | | |
| 1988 | 1.02 | 1.04 | 1.20 | 3743 | 1.03 | 1.04 | 1.22 | 1071 | | | | | | | | |
| 1989 | 1.03 | 1.04 | 1.16 | 3647 | 1.03 | 1.04 | 1.14 | 1043 | | | | | | | | |
| 1990 | 1.02 | 1.02 | 1.11 | 3612 | 1.04 | 1.04 | 1.12 | 1028 | | | | | | | | |
| 1991 | 1.02 | 1.02 | 1.09 | 3613 | 1.03 | 1.03 | 1.16 | 1056 | 1.03 | 1.06 | 1.18 | 2030 | | | | |
| 1992 | 1.01 | 1.02 | 1.11 | 3585 | 1.01 | 1.03 | 1.16 | 1060 | 1.06 | 1.06 | 1.22 | 2020 | | | | |
| 1993 | 1.01 | 1.01 | 1.16 | 3603 | 1.02 | 1.03 | 1.22 | 1064 | 1.03 | 1.04 | 1.17 | 1970 | | | | |
| 1994 | 1.02 | 1.02 | 1.15 | 3577 | 1.03 | 1.05 | 1.22 | 1023 | 1.02 | 1.04 | 1.12 | 1959 | | | | |
| 1995 | 1.01 | 1.01 | 1.16 | 3526 | 1.02 | 1.05 | 1.29 | 982 | 1.03 | 1.03 | 1.11 | 1938 | | | | |
| 1996 | 1.01 | 1.03 | 1.12 | 3485 | 1.04 | 1.04 | 1.21 | 960 | 1.01 | 1.02 | 1.15 | 1951 | 1.00 | 1.08 | 1.16 | 396 |
| 1997 | 1.01 | 1.02 | 1.13 | 3458 | 1.02 | 1.04 | 1.29 | 931 | 1.02 | 1.04 | 1.12 | 1942 | 1.05 | 1.09 | 1.09 | 340 |
| 1998 | 1.02 | 1.03 | 1.14 | 3387 | 1.04 | 1.07 | 1.23 | 898 | 1.02 | 1.02 | 1.20 | 1886 | 1.08 | 1.08 | 1.35 | 308 |
| 1999 | 1.02 | 1.02 | 1.20 | 3325 | 1.04 | 1.04 | 1.22 | 858 | 1.01 | 1.03 | 1.10 | 1894 | 1.05 | 1.05 | 1.27 | 300 |
| 2000 | 1.02 | 1.02 | 1.15 | 3240 | 1.03 | 1.03 | 1.18 | 820 | 1.01 | 1.03 | 1.13 | 1879 | 1.02 | 1.02 | 1.10 | 302 |
| 2001 | 1.02 | 1.02 | 1.18 | 3168 | 1.02 | 1.02 | 1.23 | 809 | 1.02 | 1.02 | 1.16 | 1850 | 1.03 | 1.03 | 1.18 | 286 |
| 2002 | 1.01 | 1.02 | 1.21 | 3123 | 1.04 | 1.04 | 1.37 | 766 | 1.01 | 1.02 | 1.21 | 1818 | 1.00 | 1.02 | 1.21 | 289 |
| 2003 | 1.01 | 1.03 | 1.14 | 3072 | 1.01 | 1.03 | 1.31 | 742 | 1.01 | 1.03 | 1.14 | 1807 | 1.01 | 1.01 | 1.09 | 290 |
| 2004 | 1.01 | 1.01 | 1.12 | 3010 | 1.04 | 1.04 | 1.13 | 714 | 1.00 | 1.01 | 1.12 | 1813 | 1.00 | 1.01 | 1.25 | 277 |
| 2005 | 1.02 | 1.02 | 1.16 | 2937 | 1.05 | 1.05 | 1.17 | 698 | 1.00 | 1.02 | 1.15 | 1771 | 1.00 | 1.02 | 1.34 | 273 |
| 2006 | 1.01 | 1.04 | 1.22 | 2821 | 1.01 | 1.05 | 1.33 | 655 | 1.01 | 1.04 | 1.24 | 1717 | 1.03 | 1.04 | 1.44 | 261 |
| 2007 | 1.01 | 1.03 | 1.14 | 2723 | 1.03 | 1.07 | 1.24 | 614 | 1.00 | 1.03 | 1.16 | 1654 | 1.01 | 1.04 | 1.12 | 248 |
| 2008 | 1.02 | 1.05 | 1.13 | 2584 | 1.01 | 1.07 | 1.25 | 570 | 1.01 | 1.03 | 1.18 | 1592 | 1.02 | 1.07 | 1.22 | 231 |
| 2009 | 1.02 | 1.05 | 1.25 | 2423 | 1.01 | 1.05 | 1.60 | 500 | 1.00 | 1.03 | 1.21 | 1535 | 1.00 | 1.02 | 1.16 | 220 |
| 2010 | 1.01 | 1.06 | 1.38 | 2245 | 1.01 | 1.10 | 1.47 | 441 | 1.01 | 1.04 | 1.32 | 1437 | 1.00 | 1.01 | 1.43 | 278 |
| 2011 | 1.00 | 1.04 | 1.27 | 2147 | 1.01 | 1.07 | 1.55 | 391 | 1.01 | 1.05 | 1.24 | 1355 | 1.01 | 1.02 | 1.28 | 266 |
| 2012 | 1.02 | 1.08 | 1.27 | 2033 | 1.01 | 1.12 | 1.65 | 346 | 1.00 | 1.05 | 1.27 | 1312 | 1.00 | 1.04 | 1.45 | 251 |

Table 8: Summary Statistics of the Derived Longitudinal Weights at the Household Level for Subsamples E through H (Percentiles of \$HBLEIB up to Wave 29).

| | sample E | | | | sample F | | | | sample G | | | | sample H | | | |
|-------------|----------|------|------|-----|----------|------|------|------|----------|------|------|-----|----------|------|------|------|
| | p10 | p50 | p90 | N | p10 | p50 | p90 | N | p10 | p50 | p90 | N | p10 | p50 | p90 | N |
| 1999 | 1.00 | 1.23 | 1.47 | 886 | | | | | | | | | | | | |
| 2000 | 1.03 | 1.07 | 1.21 | 838 | | | | | | | | | | | | |
| 2001 | 1.01 | 1.05 | 1.25 | 811 | 1.08 | 1.14 | 1.59 | 4911 | | | | | | | | |
| 2002 | 1.01 | 1.02 | 1.20 | 773 | 1.03 | 1.05 | 1.46 | 4586 | | | | | | | | |
| 2003 | 1.04 | 1.04 | 1.15 | 744 | 1.02 | 1.04 | 1.24 | 4386 | 1.06 | 1.10 | 1.17 | 911 | | | | |
| 2004 | 1.00 | 1.01 | 1.08 | 732 | 1.02 | 1.03 | 1.19 | 4235 | 1.02 | 1.03 | 1.25 | 904 | | | | |
| 2005 | 1.01 | 1.03 | 1.18 | 706 | 1.01 | 1.03 | 1.17 | 4070 | 1.03 | 1.06 | 1.25 | 879 | | | | |
| 2006 | 1.00 | 1.03 | 1.21 | 686 | 1.01 | 1.03 | 1.29 | 3895 | 1.00 | 1.04 | 1.31 | 859 | | | | |
| 2007 | 1.01 | 1.01 | 1.16 | 647 | 1.02 | 1.03 | 1.15 | 3694 | 1.02 | 1.05 | 1.17 | 824 | 1.04 | 1.16 | 1.46 | 1188 |
| 2008 | 1.00 | 1.01 | 1.19 | 602 | 1.01 | 1.03 | 1.14 | 3513 | 1.01 | 1.03 | 1.18 | 787 | 1.01 | 1.03 | 1.18 | 1082 |
| 2009 | 1.00 | 1.04 | 1.17 | 574 | 1.02 | 1.04 | 1.34 | 3303 | 1.02 | 1.04 | 1.36 | 757 | 1.01 | 1.03 | 1.22 | 996 |
| 2010 | 1.01 | 1.04 | 1.25 | 553 | 1.01 | 1.05 | 1.40 | 3055 | 1.00 | 1.01 | 1.24 | 743 | 1.01 | 1.04 | 1.37 | 913 |
| 2011 | 1.00 | 1.00 | 1.17 | 546 | 1.01 | 1.05 | 1.31 | 2886 | 1.00 | 1.03 | 1.33 | 706 | 1.00 | 1.05 | 1.31 | 857 |
| 2012 | 1.04 | 1.20 | 1.62 | 92 | 1.02 | 1.08 | 1.3 | 2702 | 1.03 | 1.07 | 1.23 | 687 | 1.00 | 1.03 | 1.39 | 818 |

Table 9: Summary Statistics of the Derived Cross-Sectional Weights at the Household Level (Percentiles of \$HHRF up to Wave 29).

| | p5 | p10 | p25 | p50 | p75 | p90 | p95 | N |
|-------------|-----------|------------|------------|------------|------------|------------|------------|----------|
| 1984 | 431 | 597 | 3805 | 4725 | 5647 | 7130 | 8248 | 5921 |
| 1985 | 483 | 683 | 3891 | 5084 | 6431 | 8471 | 10031 | 5322 |
| 1986 | 537 | 752 | 3598 | 5301 | 6841 | 9281 | 11117 | 5090 |
| 1987 | 546 | 792 | 3529 | 5382 | 7048 | 9580 | 11464 | 5026 |
| 1988 | 531 | 804 | 3528 | 5632 | 7542 | 10356 | 12546 | 4814 |
| 1989 | 551 | 820 | 3591 | 5841 | 7884 | 10812 | 13276 | 4690 |
| 1990 | 694 | 1073 | 2217 | 4602 | 7046 | 9882 | 12398 | 6819 |
| 1991 | 680 | 1043 | 2333 | 4691 | 7156 | 10285 | 12871 | 6699 |
| 1992 | 667 | 1027 | 2340 | 4653 | 7135 | 10532 | 13655 | 6665 |
| 1993 | 681 | 1056 | 2402 | 4668 | 7259 | 10748 | 13970 | 6637 |
| 1994 | 706 | 1099 | 2404 | 4666 | 7281 | 11220 | 14682 | 6559 |
| 1995 | 708 | 1108 | 2292 | 4389 | 7016 | 11087 | 14902 | 6768 |
| 1996 | 741 | 1162 | 2305 | 4375 | 7023 | 11373 | 15400 | 6699 |
| 1997 | 751 | 1187 | 2326 | 4332 | 7070 | 11836 | 15928 | 6621 |
| 1998 | 982 | 1332 | 2307 | 3984 | 6231 | 9954 | 13051 | 7492 |
| 1999 | 977 | 1309 | 2282 | 4000 | 6533 | 10893 | 14253 | 7220 |
| 2000 | 795 | 1095 | 1767 | 2529 | 3571 | 5087 | 6444 | 13082 |
| 2001 | 747 | 1030 | 1758 | 2755 | 4141 | 6084 | 7827 | 11796 |
| 2002 | 504 | 658 | 1218 | 2559 | 4185 | 6503 | 8250 | 12320 |
| 2003 | 501 | 671 | 1232 | 2564 | 4322 | 6789 | 9082 | 11909 |
| 2004 | 489 | 665 | 1216 | 2535 | 4423 | 7214 | 9839 | 11644 |
| 2005 | 489 | 674 | 1239 | 2539 | 4521 | 7506 | 10860 | 11294 |
| 2006 | 449 | 646 | 1264 | 2382 | 4132 | 7095 | 9723 | 12361 |
| 2007 | 446 | 645 | 1250 | 2454 | 4455 | 7658 | 10608 | 11552 |
| 2008 | 447 | 649 | 1274 | 2541 | 4729 | 8298 | 11541 | 10921 |
| 2009 | 461 | 665 | 1308 | 2630 | 4998 | 9138 | 12384 | 10270 |
| 2010 | 499 | 709 | 1395 | 2817 | 5459 | 10161 | 13287 | 9551 |
| 2011 | 421 | 636 | 1354 | 2480 | 4347 | 7404 | 9624 | 12183 |
| 2012 | 392 | 609 | 1377 | 2571 | 4388 | 7141 | 9699 | 12217 |

Table 10: Summary Statistics of the Derived Cross-Sectional Weights at the Person Level (Percentiles of \$PHRF up to Wave 29).

| | p5 | p10 | p25 | p50 | p75 | p90 | p95 | N |
|-------------|-----------|------------|------------|------------|------------|------------|------------|----------|
| 1984 | 386 | 538 | 1159 | 4365 | 5229 | 6066 | 6888 | 16173 |
| 1985 | 457 | 635 | 1429 | 4623 | 5717 | 6859 | 8109 | 14508 |
| 1986 | 489 | 679 | 1536 | 4695 | 6027 | 7583 | 8984 | 13804 |
| 1987 | 508 | 712 | 1599 | 4705 | 6227 | 7914 | 9360 | 13563 |
| 1988 | 489 | 679 | 1619 | 4878 | 6556 | 8530 | 10145 | 12872 |
| 1989 | 526 | 754 | 1747 | 5012 | 6874 | 8976 | 10709 | 12443 |
| 1990 | 684 | 1023 | 1908 | 3440 | 6171 | 8299 | 10184 | 18254 |
| 1991 | 727 | 1070 | 1902 | 3712 | 6203 | 8466 | 10643 | 17844 |
| 1992 | 779 | 1133 | 1979 | 3737 | 6295 | 8726 | 11138 | 17429 |
| 1993 | 844 | 1233 | 2064 | 3827 | 6366 | 9007 | 11413 | 17072 |
| 1994 | 869 | 1272 | 2091 | 3824 | 6408 | 9259 | 12126 | 16715 |
| 1995 | 792 | 1133 | 1958 | 3559 | 6110 | 9176 | 12329 | 17345 |
| 1996 | 824 | 1172 | 1962 | 3600 | 6156 | 9440 | 12928 | 16944 |
| 1997 | 864 | 1207 | 2024 | 3628 | 6225 | 9696 | 13427 | 16583 |
| 1998 | 909 | 1242 | 2024 | 3503 | 5595 | 8536 | 11490 | 18249 |
| 1999 | 909 | 1226 | 1994 | 3478 | 5805 | 9319 | 12622 | 17501 |
| 2000 | 708 | 963 | 1553 | 2310 | 3229 | 4568 | 5851 | 30784 |
| 2001 | 677 | 924 | 1529 | 2449 | 3648 | 5433 | 6929 | 27956 |
| 2002 | 431 | 589 | 1043 | 2196 | 3718 | 5841 | 7627 | 29101 |
| 2003 | 431 | 600 | 1062 | 2198 | 3817 | 6169 | 8256 | 27867 |
| 2004 | 428 | 598 | 1064 | 2186 | 3924 | 6502 | 8839 | 26918 |
| 2005 | 433 | 612 | 1098 | 2242 | 4030 | 6879 | 9583 | 25638 |
| 2006 | 397 | 576 | 1099 | 2188 | 3686 | 6316 | 8868 | 27442 |
| 2007 | 402 | 584 | 1111 | 2242 | 3920 | 7068 | 10138 | 25505 |
| 2008 | 412 | 594 | 1140 | 2321 | 4137 | 7664 | 11196 | 23792 |
| 2009 | 428 | 610 | 1175 | 2401 | 4366 | 8393 | 12538 | 22096 |
| 2010 | 459 | 655 | 1259 | 2582 | 4775 | 9347 | 13702 | 20281 |
| 2011 | 396 | 589 | 1233 | 2322 | 4009 | 6914 | 9475 | 25337 |
| 2012 | 385 | 574 | 1276 | 2449 | 4116 | 6860 | 9457 | 24987 |

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