

DIW Berlin / SOEP (Ed.)

**Research Report**

## SOEP-Core v33.1 - HEALTH

SOEP Survey Papers, No. 485

**Provided in Cooperation with:**

German Institute for Economic Research (DIW Berlin)

*Suggested Citation:* DIW Berlin / SOEP (Ed.) (2018) : SOEP-Core v33.1 - HEALTH, SOEP Survey Papers, No. 485, Deutsches Institut für Wirtschaftsforschung (DIW), Berlin

This Version is available at:

<https://hdl.handle.net/10419/176784>

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485

## SOEP Survey Papers

Series D – Variable Descriptions and Coding

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

2018

# SOEP-Core v33.1 – HEALTH

SOEP Group

Running since 1984, the German Socio-Economic Panel study (SOEP) is a wide-ranging representative longitudinal study of private households, located at the German Institute for Economic Research, DIW Berlin.

The aim of the SOEP Survey Papers Series is to thoroughly document the survey's data collection and data processing. The SOEP Survey Papers is comprised of the following series:

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Series C – Data Documentation (Datendokumentationen)

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Series E – SOEPmonitors

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Please cite this paper as follows:

SOEP Group, 2018. SOEP-Core v33.1 – HEALTH. SOEP Survey Papers 485: Series D – Variable Descriptions and Coding. Berlin: DIW Berlin/SOEP



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ISSN: 2193-5580 (online)

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# SOEP-Core v33.1 – HEALTH

SOEP Group

2018

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## 1 General Information

Starting in 2002 the SOEP health module in the individual questionnaire has been revised and put into a two year replication period. In the HEALTH-File users find the generated SF-12-Variables and variables on height and weight with imputation flags and a user-friendly longitudinal checked generated variable of the Body Mass Index (BMI). Persons with a successful individual interview ( $\$netto \geq 10$  &  $\$netto < 20$ ) have been selected for the rec-type HEALTH. The file has a long-format and additional SORTID with the variable SYEAR (Survey-Year).

In 2006 the SF12 could not any longer been generated for the group of first time respondents (age 16/17 = 307).

In 2010 and 2012 not all sub-samples of the SOEP get the very same questionnaire, thus information to generate MCS and PCS was not surveyed and thus the respective population get a value of “-5” for the variable VALID.

## 2 Variables in File HEALTH

**hhnr** - Original Household Number

---

27	8
60	43
94	8
124	3
159	8
167	13
175	9
191	2
230	18
280	1
299	1
302	9
388	2
396	4
469	4
... (28713 rows omitted)	201768
3864529	1
3864537	1
3864570	3
3864626	1
3864642	1
3864677	1
3864731	1
3864758	1
3864766	1
3864774	2
3864782	2
3864812	1
3864839	1
3864863	1
3864898	1

**persnr** – Never Changing Person ID

---

201	4
203	4
601	1
602	6
604	1
901	8
1202	3
1501	8
1601	8
1602	4
1603	1
1701	3
1704	3
1705	3
1901	2
... (63283 rows omitted)	201846
38645703	1
38646201	1
38646401	1
38646701	1
38647301	1
38647501	1
38647601	1
38647701	1
38647702	1
38647801	1
38647802	1
38648101	1
38648301	1
38648601	1
38648901	1

**syear** – Survey Year

---

2002	23892
2004	22019
2006	22665
2008	19945
2010	27124
2012	28520
2014	28042
2016	29713

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

This file contains detailed health information that had been collected since 2002 (wave S) in a two year replication cycle. All persons with successful individual questionnaires have been selected for the rectype HEALTH ( $\$netto \geq 10$  &  $\$netto < 20$ ).

For more information, contact: Markus M. Grabka (Tel. +49-30-89789-339 / mgrabka@diw.de)

### valid – Completeness Of Generation Of SOEPvSF12

---

1	[1] Yes 1	178972
2	[2] No 2	4743
-1	[-1] No Answer	0
-2	[-2] Does not apply	0
-3	[-3] Answer improbable	0
-4	[-4] Inadmissible multiple response	0
-5	[-5] Not included in this version of the questionnaire	18205
-6	[-6] Version of questionnaire with modified filtering	0

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable VALID indicates the completeness status of all twelve variables necessary to calculate the SOEPvSF12 scale.

For more information, contact: Markus M. Grabka (Tel. +49-30-89789-339 / mgrabka@diw.de)

### mcs – MCS: Summary Scale Mental (NBS)

---

0.557106	1
1.269028	1
1.917989	1
3.107175	1
3.533295	1
3.79868	1
3.894608	1
4.161987	1
4.192227	1
4.626276	1
4.834514	1
4.910154	1
4.939444	1
5.324458	1
5.612217	1
... (48970 rows omitted)	178940
77.194519	1
77.197456	2
77.21199	1
77.293724	1
77.395866	1
77.575638	1
77.67485	2
77.767838	1
77.774055	1
78.26387	1
79.330284	1
79.432426	2



79.630836	1
-1	4744
-5	18205

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable mcs is calculated using explorative factor analysis (PCA, varimax rotation). The mean value of the SOEP 2004 population 50 points and SD of 10 points.

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### **pcs** – PCS: Summary Scale Physical (NBS)

---

9.208344	1
9.9296	1
10.105892	1
10.378374	1
10.526371	2
10.554667	1
10.69833	2
10.827148	1
11.147103	1
11.336317	2
11.595878	3
11.739541	1
11.808575	1
11.820886	1
11.844398	1
... (49034 rows omitted)	178939
74.671318	1
74.872307	1
74.943802	1
75.240974	1
75.279343	1
75.455635	1
75.653961	1
76.383682	1
76.42086	1
76.920174	1
77.807869	1
78.112984	1
79.602966	1
-1	4743
-5	18205

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable pcs is calculated using explorative factor analysis (PCA, varimax rotation). The mean value of the SOEP 2004 population 50 points and SD of 10 points.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the*

SOEP Version of SF12v2. *Schmollers Jahrbuch*, Vol. 1278(1), (in print)

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### pf\_nbs – Physical Functioning (NBS)

---

27.250387	15304
35.02644	9275
42.802486	41349
50.578537	26891
58.354588	86153
-1	4743
-5	18205

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable pf\_nbs is calculated as a z-transformed scale.

Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): *Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch*, Vol. 1278(1), (in print)

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### rp\_nbs – Role Physical (NBS)

---

21.923658	3869
26.64777	1654
31.371881	12324
36.095993	6222
40.820107	27804
45.544216	11923
50.26833	34011
54.992443	12513
59.716553	68652
-1	4743
-5	18205

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable rp\_nbs is calculated as a z-transformed scale.

Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): *Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch*, Vol. 1278(1), (in print)

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### bp\_nbs – Bodily Pain (NBS)

---

23.002949	4548
32.214443	18928
41.425941	36981
50.637436	48937

59.84893	69578
-1	4743
-5	18205

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable `bp_nbs` is calculated as a z-transformed scale.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 127(1), 171-182.*

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### gh\_nbs – General Health (NBS)

---

24.846346	6454
35.228405	24291
45.610466	57594
55.992523	72098
66.374588	18535
-1	4743
-5	18205

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable `gh_nbs` is calculated as a z-transformed scale.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 127(1), 171-182.*

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### vt\_nbs – Vitality (NBS)

---

26.821365	8855
37.767075	32306
48.712784	77745
59.658493	52559
70.604202	7507
-1	4743
-5	18205

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable `vt_nbs` is calculated as a z-transformed scale.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 127(1), 171-182.*

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### sf\_nbs – Social Functioning (NBS)

---

14.692407	1978
25.299109	8800
35.905811	23995
46.512516	37171
57.119221	107028
-1	4743
-5	18205

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable `sf_nbs` is calculated as a z-transformed scale.

Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): *Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2*. *Schmollers Jahrbuch*, Vol. 127(1), 171-182.

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### re\_nbs – Role Emotional (NBS)

---

13.337808	1360
18.930649	468
24.523489	5443
30.116331	4034
35.709171	18466
41.302013	10895
46.894855	34094
52.487698	10707
58.080536	93505
-1	4743
-5	18205

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable `re_nbs` is calculated as a z-transformed scale.

Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): *Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2*. *Schmollers Jahrbuch*, Vol. 127(1), 171-182.

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### mh\_nbs – Mental Health (NBS)

---

19.731314	751
25.837812	2084
31.944309	9900
38.050808	19587
44.157303	34344
50.263802	36710
56.370296	43422
62.476795	23020
68.58329	9154
-1	4743

-5 18205

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable mh\_nbs is calculated as a z-transformed scale.

Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): *Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 127(1), 171-182.*

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### bmi - Body-Mass-Index

---

8.08100032806396	1
10.1540002822876	1
11.0729999542236	2
11.6280002593994	1
12.1929998397827	2
12.4890003204346	1
12.5509996414185	1
12.5900001525879	2
12.701000213623	1
12.8559999465942	1
12.9130001068115	1
12.9549999237061	1
13.0310001373291	1
13.2810001373291	1
13.2849998474121	1
... (4056 rows omitted)	180374
64.1999969482422	1
64.5660018920898	1
64.6549987792969	1
64.7969970703125	1
65.7409973144531	1
66.3550033569336	1
66.8249969482422	1
67.2020034790039	1
68.6790008544922	1
73.0459976196289	1
73.4619979858398	1
76.2080001831055	1
90.7369995117188	1
-1	1898
-5	19617

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable BMI represents the Body-Mass-Index of the respondents. It is calculated from the variables BWEIGHT and HEIGHT by the formula  $BMI = BWEIGHT / (HEIGHT)^2$ .

*For more information, contact:* Markus M. Grabka (Tel. +49-30-89789-339 / mgrabka@diw.de)

**height** – Body Height In cm

107	1
112	1
115	1
116	4
117	5
118	1
120	5
125	2
127	1
128	1
130	3
131	6
132	2
135	2
136	1
... (63 rows omitted)	181868
200	139
201	27
202	28
203	38
204	27
205	30
206	2
207	6
208	6
209	1
210	4
217	2
220	1
-1	106
-5	19599

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable HEIGHT represents the body Height of the respondents in cm which is directly asked in every second year since 2002 (Wave S). The corresponding variable can be found in the \$P-file (for teenagers who has responded to the Youth-questionnaire the respective information was surveyed the first time in 2006 wave W and can be found in the \$PAGE17-files).

In contrast to the \$P/\$PAGE17-variable the variable HEIGHT is edited with respect to item-nonresponse and outliers.

In case of item-nonresponse missing values are imputed by the most recent existing value. It is assumed that for a two-year-period a change of body height of more than 10 cm is implausible if the values of the other observation years differ only in a range of at most 2 cm. Thus the respective information is imputed by the average of the other values of the respondent.

*For more information, contact:* Markus M. Grabka (Tel. +49-30-89789-339 / mgrabka@diw.de)

**fheight** - Imputation Flag For Height\$\$

0	[0] No Imputation 0	198111
1	[1] Imputed Or Edited 1	3809
-1	[-1] No Answer	0
-2	[-2] Does not apply	0
-3	[-3] Answer improbable	0
-4	[-4] Inadmissible multiple response	0
-5	[-5] Not included in this version of the questionnaire	0
-6	[-6] Version of questionnaire with modified filtering	0

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable FHEIGHT\$\$ designates imputations of item-nonresponse respectively edited values in the variable HEIGHT.

*For more information, contact:* Markus M. Grabka (Tel. +49-30-89789-339 / mgrabka@diw.de)

**weight** - Weight in kg

22	2
29	1
30	5
32	5
33	2
34	5
35	14
36	9
37	10
38	19
39	21
40	94
41	27
42	92
43	97
...	(130 rows omitted) 179985
184	1
185	4
188	1
190	7
195	2
200	9
210	1
215	1
217	1
225	2
230	2
250	1
-1	1877
-3	11
-5	19612

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable BWEIGHT represents the body weight of the respondents in kg which is directly asked in every second year since 2002 (Wave S). The corresponding variable can be found in the \$P-file (for teenagers who has responded to the Youth-questionnaire the respective information was surveyed the first time in 2006 wave W and can be found in the \$PAGE17-files).

In contrast to the \$P/\$PAGE17-variable the variable BWEIGHT is edited with respect outliers but not imputed for item-nonresponse.

It is assumed that for a two-year-period a change of body weight of more than 35 kg is implausible if the values of the other observation years differ only in a range of at most 7 kg. Thus the respective information is imputed by the average of the other values of the respondent.

*For more information, contact:* Markus M. Grabka (Tel. +49-30-89789-339 / mgrabka@diw.de)

### **fweight** – Imputation Flag For Weight\$\$

---

0	[0] No Imputation 0	198697
1	[1] Imputed Or Edited 1	3223
-1	[-1] No Answer	0
-2	[-2] Does not apply	0
-3	[-3] Answer improbable	0
-4	[-4] Inadmissible multiple response	0
-5	[-5] Not included in this version of the questionnaire	0
-6	[-6] Version of questionnaire with modified filtering	0

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable FWEIGHT\$\$ designates imputations of item-nonresponse respectively edited values in the variable BWEIGHT.

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