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**Research Report**

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## SOEP Survey Papers

Series D – Variable Descriptions and Coding

# SOEP-Core v32 – HEALTH

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.

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Series D – Variable Descriptions and Coding

Series E – SOEPmonitors

Series F – SOEP Newsletters

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# SOEP-Core v32 – HEALTH

SOEP Group

2017

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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	41
94	7
124	3
159	7
167	12
175	9
191	2
230	16
280	1
299	1
302	9
388	2
396	4
469	4
... (24663 rows omitted)	172049
3342335	2
3342408	2
3342491	3
3342548	2
3342599	3
3342653	2
3342696	2
3342718	1
3342823	3
3342904	4
3343048	1
3343064	2
3343080	2
3343145	2
3343277	1

**persnr** – Never Changing Person Number

---

201	4
203	4
601	1
602	6
604	1
901	7
1202	3
1501	7
1601	7
1602	4
1603	1
1701	3
1704	3
1705	3
1901	2
... (55961 rows omitted)	172136
35024302	1
35024903	1
35025202	1
35025402	1
35025602	1
35025802	1
35026603	1
35026702	1
35029202	1
35029302	1
35030102	1
35031602	1
35032702	1
35033202	1
35033302	1

**syear** – Survey Year

---

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

*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 >= 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	150926
2	[2] No 2	3839
-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	17442
-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
3.894608	1
4.161987	1
4.192227	1
4.834514	1
4.910154	1
5.324458	1
5.64925	1
6.093252	1
6.780776	1
6.904592	1
... (43379 rows omitted)	150892
76.737877	1
76.800629	2
76.806847	1
77.095306	1
77.197456	2
77.21199	1
77.293724	1
77.575638	1
77.67485	2
77.774055	1
78.26387	1
79.330284	1
79.432426	2
79.630836	1
-1	21282



*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
11.147103	1
11.336317	2
11.595878	2
11.808575	1
11.820886	1
11.844398	1
12.044652	2
12.188314	1
... (43430 rows omitted)	150891
73.776436	2
73.783722	1
74.117683	1
74.222542	1
74.459229	1
74.671318	1
74.872307	1
74.943802	1
75.279343	1
75.455635	1
76.383682	1
76.42086	1
78.112984	1
79.602966	1
-1	21281

*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)*

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

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

27.250387	13079
35.02644	7919
42.802486	35144
50.578537	22872
58.354588	71912
-1	21281

*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	3242
26.64777	1411
31.371881	10451
36.095993	5351
40.820107	23792
45.544216	10241
50.26833	29144
54.992443	10462
59.716553	56832
-1	21281

*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	3697
32.214443	15955
41.425941	31080
50.637436	41916
59.84893	58278
-1	21281

*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.

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

### gh\_nbs – General Health (NBS)

---

24.846346	5452
35.228405	20506
45.610466	49306
55.992523	61220
66.374588	14442
-1	21281

*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	7323
37.767075	27689
48.712784	65925
59.658493	44112
70.604202	5877
-1	21281

*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	1647
25.299109	7431
35.905811	20340
46.512516	32237
57.119221	89271
-1	21281

*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	1075
18.930649	356
24.523489	4507
30.116331	3429
35.709171	15721
41.302013	9465
46.894855	29605
52.487698	9236
58.080536	77532
-1	21281

*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	580
25.837812	1760
31.944309	8566
38.050808	16971
44.157303	29227
50.263802	31152
56.370296	36548
62.476795	18549
68.58329	7573
-1	21281

*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

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
13.3649997711182	5
13.3850002288818	1
... (3870 rows omitted)	155675
62.5	2
63.1230010986328	1
63.2910003662109	1
63.625	1
63.984001159668	1
64.5660018920898	1
64.6549987792969	1
64.7969970703125	1
65.7409973144531	1
67.2020034790039	1
73.0459976196289	1
73.4619979858398	1
76.2080001831055	1
-1	1535
-5	14961

*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
116	2
117	3
118	1
120	4
125	2
126	1

127	1
130	3
131	5
132	2
135	2
137	2
138	5
... (60 rows omitted)	156848
199	31
200	112
201	22
202	22
203	33
204	20
205	24
206	1
207	5
208	6
209	1
210	3
217	2
-1	99
-5	14943

*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	169112
1	[1] Imputed Or Edited 1	3095
-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	1
30	4
32	5
33	1
34	5
35	13
36	8
37	9
38	18
39	16
40	83
41	25
42	75
43	85
44	91
... (124 rows omitted)	155251
173	1
175	4
180	12
185	2
190	4
195	2
200	7
210	1
217	1
225	2
230	1
250	1
-1	1512
-3	11
-5	14956

*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 implau-

sible 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	169617
1	[1] Imputed Or Edited 1	2590
-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.

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