

## Unrestricted Access Teaching Dataset (ONS Opinions Survey, Well-Being Module)

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### 3: Enhanced Teaching File

[Draft only: 3 May 2015, revised 4 Jan 2017]

[opn\\_teaching\\_dataset.sav](#) (Teaching data set as received from UKDS: [SN7146](#), 24 variables)

The unrestricted access teaching file (24 variables, 1124 cases) is derived from the April 2011 wave of the ONS OPN Well-being module (115 variables, 1124 cases: see **Appendix**, pp 9-10).

Output from SPSS command:

`display labels.`

Variable Labels

Variable	Position	Label
<b>casenew</b>	1	New random ID number
<b>INDWGT</b>	2	Calibration Weight
<b>MCZ_1</b>	3	Overall, how satisfied are you with your life nowadays?
<b>MCZ_2</b>	4	Overall, to what extent feel things you do in your life are worthwhile?
<b>MCZ_3</b>	5	Overall, how happy did you feel yesterday?
<b>MCZ_4</b>	6	Overall, how anxious did you feel yesterday?
<b>MCZ_5a</b>	7	Overall, how satisfied are you with your personal relationships?
<b>MCZ_5b</b>	8	Overall, how satisfied are you with your physical health?
<b>MCZ_5c</b>	9	Overall, how satisfied are you with your mental wellbeing?
<b>MCZ_5d</b>	10	Overall, how satisfied are you with your work situation?
<b>MCZ_5e</b>	11	Overall, how satisfied are you with your financial situation?
<b>MCZ_5f</b>	12	Overall, how satisfied are you with the area where you live?
<b>MCZ_5g</b>	13	Overall, how satisfied with amount of time have to do things like doing?
<b>MCZ_5h</b>	14	Overall, how satisfied are you with the wellbeing of your child/children?
<b>QHealthr</b>	15	How is your health in general
<b>RSEX</b>	16	Sex of Respondent
<b>AGEX</b>	17	Grouped age
<b>marstat3r</b>	18	Marital status 3 cat. (recoded)
<b>highed4</b>	19	What is the highest level of qualification?
<b>Ethnicity2r</b>	20	Ethnicity White/Other (recoded)
<b>DVIL03a</b>	21	DV for ILO in employment - 3 categories
<b>FtPtWk</b>	22	Full or part time work?
<b>NSECAC3</b>	23	NS-SEC 3 categories
<b>GorA</b>	24	Government Office Region

Variables in the working file

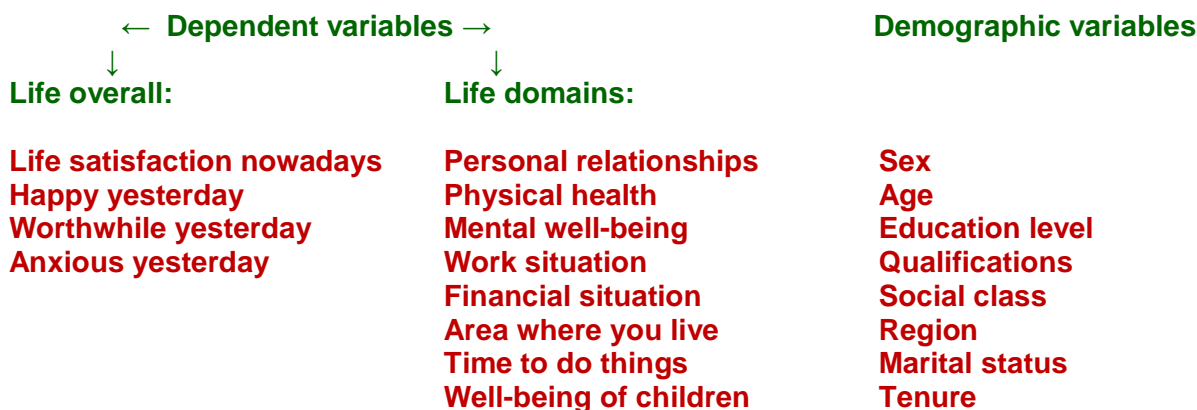
This data set was originally created at the Cathie Marsh Centre for Census and Survey Research, (now [Cathie Marsh Institute for Social Research](#)) Manchester, and was intended for teaching multivariate analysis using Principal Components Analysis and Factor Analysis.

For undergraduate teaching in sociology and related subjects, especially beginners, multivariate statistical analysis is probably too ambitious. At this level the aim should be to impart, not inferential statistics, but basic skills in data handling and analysis (using software such as SPSS) and be restricted to tabulation and charts, perhaps working up to some simple statistical testing.

A different pedagogical approach, which, in my experience, beginners can more easily understand and learn, is to adopt the logic of dependent, independent and test variables, analysing first one variable, then two, then three or more, and to start with tabulation, charts, (and where appropriate, but not too soon, comparison of means) rather than rather than diving straight into multivariate modelling based on means standard deviations and correlation matrices.

In addition to the subjective measures of personal well-being and of satisfaction with various aspects of life (using 0 – 10 scales) this data set needs additional associated intra-domain situational variables such as levels of income, health condition, type of neighbourhood, type of work etc. Such variables are more amenable to tabulation and also make the data more interesting to analyse. Some suitable variables are already included in the full data set, some will need to be derived, others are completely absent.

However, it needs to be remembered that the OPN survey is driven by the data requirements of government departments, not by those of students reading for first or higher degrees in Sociology or Psychology. For the latter, a logical plan of data requirements based on this survey would look something like this:



The data available (or not) in this data set are as follows:

<b>Life overall</b>	<b>Name</b>	<b>Label (summary)</b>
<b>Life satisfaction</b>	<b>MCZ_1</b>	... how <b>satisfied</b> are you with your life nowadays?
<b>Worthwhile</b>	<b>MCZ_2</b>	... to what extent feel things you do in your life are <b>worthwhile</b> ?
<b>Happy yesterday</b>	<b>MCZ_3</b>	... how <b>happy</b> did you feel yesterday?
<b>Anxious yesterday</b>	<b>MCZ_4</b>	... how <b>anxious</b> did you feel yesterday?

**Life domains:**

**Personal relationships**

Dependent                    **MCZ\_5a**                    ... how satisfied are you with your **personal relationships**?

Independent                Nothing specific on social networks, but ...

- Respmar**                    Legal marital status of respondent
- LivWth**                    Living with someone in the household as a couple
- DeFact1**                    De Facto Marital status- grouped
- DeFacto**                    De Facto Marital status
- HHtypA**                    Household type A

**Health**

Dependent                    **MCZ\_5b**                    ... how satisfied are you with your **physical health**?

**MCZ\_5c**                    ... how satisfied are you with your **mental wellbeing**?

Independent                **QHealth**                    How is your health in general?

**LSIII**                        Have any long-standing illness, disability or infirmity?

**IIIlim**                        Does this illness or disability limit your activities in any way?

### Work situation

Dependent	<b>MCZ_5d</b>	... how satisfied are you with your <b>work situation</b> ?
Independent	<b>DVILO3a</b> <b>DVILO4a</b> <b>Stat</b> <b>Supvis</b> <b>Manage</b> <b>Solo</b> <b>FtPtWk</b> <b>ES2010</b> <b>NSECAC5</b> <b>NSECAC3</b>	DV for ILO in employment - 3 categories DV for ILO in employment - 4 categories Working as an employee or self-employed? In your job, responsibility for supervising work of other employees? Do you have any managerial duties? Working on your own or do you have employees? Full or part time work? Employment status NS-SEC 5 categories NS-SEC 3 categories

### Financial situation

Dependent	<b>MCZ_5e</b>	... how satisfied are you with your <b>financial situation</b> ?
Independent	<b>sumgross</b>	Gross Annual Income

### Area where you live

Dependent	<b>MCZ_5f</b>	... how satisfied are you with the <b>area where you live</b> ?
Independent		Nothing specific, so, except as a predictor of over-all well-being, a bit pointless asking unless Census or other data can be made available at local level.

### Time you have to do things

Dependent	<b>MCZ_5g</b>	... how satisfied with amount of <b>time you have to do things</b> ?
Independent	<b>FtPtWk</b>	Full or part time work?
		Nothing else specific, but responsibility for children could affect this.
	<b>DVHsize</b>	Household size
	<b>NumAdult</b>	Number of adults in household (16 years or older)
	<b>NumChild</b>	Number of children in household (under 16)
	<b>NumDepCh</b>	Number dependent children in hhld (under 16 or 16-18)
	<b>N1to4</b>	No. of children in household aged 0-4
	<b>N5to10</b>	No. of children in household aged 5-10
	<b>N11to15</b>	No. of children in household aged 11-15
	<b>Parent</b>	Parent, guardian of any children under 16 in household?
	<b>ParTod</b>	Are you (or partner) parent, guardian of child 0-4 in household?

### Well-being of your children

Dependent	<b>MCZ_5h</b>	... how satisfied are you with the <b>wellbeing of your child/children</b> ?
Independent		Nothing specific, but see above

The candidates for independent variables in the above list need to be examined and reduced in number where they are clearly redundant or overlapping.

## Demographic variables

Sex

Age

Education (Level, Qualifications, TEA)

Social class

Region

Marital status

Tenure

Ethnicity

As a first step, to meet some, but not all, of the above logical requirements, I extracted the following additional variables from the full data set:

<b>TENgrp</b>	Grouped Tenure
<b>DVHsize</b>	Household size
<b>NumAdult</b>	Number of adults in household (16 years or older)
<b>NumChild</b>	Number of children in household (under 16)
<b>NumDepCh</b>	Number dependent children in hhld (under 16 or 16-18)
<b>N1to4</b>	No. of children in household aged 0-4
<b>N5to10</b>	No. of children in household aged 5-10
<b>N11to15</b>	No. of children in household aged 11-15
<b>rage</b>	Respondent's age
<b>AGEH</b>	Grouped age
<b>Respmar</b>	Legal marital status of respondent
<b>LivWth</b>	Living with someone in the household as a couple
<b>DbeFact1</b>	De Facto Marital status- grouped
<b>DeFacto</b>	De Facto Marital status
<b>HHtypA</b>	Household type A
<b>Parent</b>	Are you (or partner) parent, guardian of any children under 16 in household?
<b>ParTod</b>	Are you (or partner) parent, guardian of any child 0-4 in the household?
<b>Cars</b>	Does household have any cars or vans normally available for its use?
<b>CAR</b>	Number of cars/vans available to the household - grouped
<b>EdAgeCor</b>	How old were you when you finished full time education?
<b>HighEd1</b>	What is the highest level of qualification?
<b>LSIII</b>	Have any long-standing illness, disability or infirmity?
<b>IIILim</b>	Does this illness or disability limit your activities in any way?
<b>DVILO4a</b>	DV for ILO in employment - 4 categories
<b>Stat</b>	Working as an employee or self-employed?
<b>Supvis</b>	In your job, have formal responsibility for supervising work of other employees?
<b>Manage</b>	Do you have any managerial duties?
<b>Solo</b>	Working on your own or do you have employees?
<b>NSECAC5</b>	NS-SEC 5 categories
<b>NSECAC3</b>	NS-SEC 3 categories
<b>sumgross</b>	Gross Annual Income
<b>wta</b>	Weight A

An enhanced teaching file [April\\_2011\\_jfh1.sav](#) (56 variables, 1124 cases) was generated combining these variables with those in the original teaching file, with a new variable **casenum** (sequence in the file, 1 - 1124) at the beginning and with variables in the same order as in the full data set (except for weights which are now at the end).

The new file has all superfluous decimal places removed, all measurement levels correctly set and (hopefully) all missing values properly declared.

### Variable Labels

Variable	Position	Label
casenum	1	Sequence in file (cases 1 – 1124)
MCZ_1	2	Overall, how satisfied are you with your life nowadays?
MCZ_2	3	Overall, to what extent feel things you do in your life are worthwhile?
MCZ_3	4	Overall, how happy did you feel yesterday?
MCZ_4	5	Overall, how anxious did you feel yesterday?
MCZ_5a	6	Overall, how satisfied are you with your personal relationships?
MCZ_5b	7	Overall, how satisfied are you with your physical health?
MCZ_5c	8	Overall, how satisfied are you with your mental wellbeing?
MCZ_5d	9	Overall, how satisfied are you with your work situation?
MCZ_5e	10	Overall, how satisfied are you with your financial situation?
MCZ_5f	11	Overall, how satisfied are you with the area where you live?
MCZ_5g	12	Overall, how satisfied with amount of time have to do things like doing?
MCZ_5h	13	Overall, how satisfied are you with the wellbeing of your child/children?
MCZident	14	Sample mode
GorA	15	Government Office Region
TENgrp	16	Grouped Tenure
DVHsize	17	Household size
NumAdult	18	Number of adults in household (16 years or older)
NumChild	19	Number of children in household (under 16)
NumDepCh	20	Number dependent children in hhld (under 16 or 16-18 never married not foster)
N1to4	21	No. of children in household aged 0-4
N5to10	22	No. of children in household aged 5-10
N11to15	23	No. of children in household aged 11-15
RSEX	24	Sex of Respondent
RAGE	25	Respondent s age
AGEX	26	Grouped age
AGEH	27	Grouped Age
Respmar	28	Legal marital status of respondent
marstat3r	29	Marital status 3 cat. (recoded)
LivWth	30	Living with someone in the household as a couple
DeFact1	31	De Facto Marital status- grouped
DeFacto	32	De Facto Marital status
HHtypA	33	Household type A
Parent	34	Are you (or partner) parent, guardian of any children under 16 in household?
ParTod	35	Are you (or partner) parent, guardian of any child 0-4 in the household?
Cars	36	Does household have any cars or vans normally available for its use?
CAR	37	Number of cars/vans available to the household - grouped
EdAgeCor	38	How old were you when you finished full time education?
HighEd1	39	What is the highest level of qualification?
highed4	40	What is the highest level of qualification?
Ethnicity2r	41	Ethnicity White/Other (recoded)
QHealth	42	How is your health in general?
LSIII	43	Have any long-standing illness, disability or infirmity?
IIILim	44	Does this illness or disability limit your activities in any way?
DVIL03a	45	DV for ILO in employment - 3 categories
DVIL04a	46	DV for ILO in employment - 4 categories
Stat	47	Working as an employee or self-employed?
Supvis	48	In your job, have formal responsibility for supervising work of other employees?
Manage	49	Do you have any managerial duties?
Solo	50	Working on your own or do you have employees?
FtPtWk	51	Full or part time work?
NSECAC5	52	NS-SEC 5 categories
NSECAC3	53	NS-SEC 3 categories
sumgross	54	Gross Annual Income
INDWGT	55	Calibration Weight
wta	56	Weight A

Not all of these variables will be suitable for teaching, and some have overlapping categories. Some new derived variables need to be generated by grouping values into a smaller number of categories or by combining categories of two or more variables. For some analyses, especially teaching with tabulation, values need to be grouped into far fewer categories, especially if some initial categories have very few cases: for others it is preferable to keep data in as disaggregated a form as possible.

However, when grouping values it is essential not to over-write the original variables: all transformations should be either temporary or, preferably, create new variables.

After some fairly intensive exploration of the full data set, I give below some examples of what needs to be done:

### Derived variables

#### Simple transformation:

There are already two variables for grouped age, **AGEX** (6 categories) and **AGEH** (12 categories) but these are not necessarily the most useful. The respondent's actual age **RAGE** can be used to create different groupings. Some variables are already the result of grouping, for example **Ethnicity2r** (Ethnicity White/Other) and **marstat3r** (Marital status 3 categories).

#### Conditional transformations:

Two self-reported measures of physical health are:

##### LSIII Have any long-standing illness, disability or infirmity?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	398	35.4	35.6	35.6
	2 No	721	64.1	64.4	100.0
	Total	1119	99.6	100.0	
Missing	8 Refusal	5	.4		
Total		1124	100.0		

##### IIIlim Does this illness or disability limit your activities in any way?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	238	21.2	59.8	59.8
	2 No	160	14.2	40.2	100.0
	Total	398	35.4	100.0	
Missing	System	726	64.6		
Total		1124	100.0		

These need to be combined into a single ordinal measure with three categories:

1 = No problem 2 = Yes, but not limiting 3 = Yes and limits me.

```

compute limit = lsill.
if (illlim = 1) limit = 3.
formats limit (f1.0).
variable labels limit 'Limiting illness'.
recode limit (1=2)(2=1).
value labels limit 1 'None' 2 'Yes, not limit' 3 'Yes, limits'.
frequencies limit.

```

**limit Limiting illness**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 None	721	64.1	64.4	64.4
	2 Yes, not limit	160	14.2	14.3	78.7
	3 Yes, limits	238	21.2	21.3	100.0
	Total	1119	99.6	100.0	
Missing	System	5	.4		
Total		1124	100.0		

Another frequently used variable in social research is **Age of youngest child**. Again this cannot be obtained with a simple **recode** command, but has to be derived from three other variables:

- N1to4** No. of children in household aged 0-4
- N5to10** No. of children in household aged 5-10
- N11to15** No. of children in household aged 11-15

Can't get this to work: crosstabs don't seem to tally.

**youngest Age of youngest child**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No child under 16	843	75.0	75.0	75.0
	1 0-4	138	12.3	12.3	87.3
	2 5 - 10	80	7.1	7.1	94.4
	3 11 -15	63	5.6	5.6	100.0
	Total	1124	100.0	100.0	

...but perhaps a new category 4 = 16 or over? Also need to filter out those who have no children at all, and check that children are those of the respondent.

**means** mcz\_5g by youngest.

**MCZ\_5g** Overall, how satisfied with amount of time have to do things you like doing?

<b>youngest</b> Age of youngest child	Mean	N	Std. Deviation
0 No child under 16	7.07	839	2.334
1 0-4	5.82	137	2.428
2 5 - 10	6.00	78	2.126
3 11 -15	6.50	60	2.652
Total	6.81	1114	2.394

Nice gradient if 0 treated as further away from toddlers (**recode as 4?**)

<b>Domain</b>	<b>Additional variables needed</b>
<b>Health</b>	<p><b>LSIII</b> Have you any long-standing illness, disability or infirmity? 1 Yes 2 No 8 Refused 9 Don't know</p> <p><b>IIIlim</b> Does this Illness / disability limit any of your activities? 1 Yes 2 No 8 Refused 9 Don't know</p>
<b>Financial situation,</b>	<p>income, dependence on benefits</p> <p><b>sumgross</b> Annual Gross Income</p>
<b>Work,</b>	<p><b>NET99 UK</b> What was your take home pay after all deductions the last time you were paid?</p> <p><b>ES2010</b> Employment status 1 Self-employed: large (25+ employees) 2 Self-employed: small (1-24 employees) 3 Self-employed: no employees 4 Manager: large (25+ employees) 5 Manager: small (1-24 employees) 6 Foreman or supervisor 7 Employee (not classified) 8 No employment status info given</p> <p style="color: magenta;">Neither of these were included in the April module.</p>
<b>Neighbourhood</b>	<p style="color: magenta;">Nothing included to cover this (urban/rural, Census indicators)</p> <p><b>TENgrp</b>      Grouped Tenure</p>
<b>Weighting</b>	<p><b>wta</b> <b>indwgt</b> (calibration weight: should this be left out?)</p>



**Appendix:**

**f1104\_mcz\_jfh1.sav** (Full file as received from UKDS: SN 7153, 115 variables, 1124 cases)

**Variable Labels**

Variable	Position	Label
Casenumbr	1	Anonymised case number unique to dataset
MCZ_1	2	Overall, how satisfied are you with your life nowadays?
MCZ_2	3	Overall, to what extent feel things you do in your life are worthwhile?
MCZ_3	4	Overall, how happy did you feel yesterday?
MCZ_4	5	Overall, how anxious did you feel yesterday?
MCZ_5a	6	Overall, how satisfied are you with your personal relationships?
MCZ_5b	7	Overall, how satisfied are you with your physical health?
MCZ_5c	8	Overall, how satisfied are you with your mental wellbeing?
MCZ_5d	9	Overall, how satisfied are you with your work situation?
MCZ_5e	10	Overall, how satisfied are you with your financial situation?
MCZ_5f	11	Overall, how satisfied are you with the area where you live?
MCZ_5g	12	Overall, how satisfied with amount of time have to do things like doing?
MCZ_5h	13	Overall, how satisfied are you with the wellbeing of your child/children?
MCZident	14	Sample mode
Month	15	Survey period
IntrType	16	Is this a Telephone or Face to Face Interview?
GorA	17	Government Office Region
Ten1	18	In which of these ways do you occupy this accommodation
Tied	19	Does the accommodation go with the job of anyone in the household?
LLord	20	Who is your landlord?
Furn	21	How the accommodation is provided?
TENgrp	22	Grouped Tenure
DVHsize	23	Household size
NumAdult	24	Number of adults in household (16 years or older)
NumChild	25	Number of children in household (under 16)
NumDepCh	26	Number dependent children in hhld (under 16 or 16-18 never married not foster child)
N1to4	27	No. of children in household aged 0-4
N5to10	28	No. of children in household aged 5-10
N11to15	29	No. of children in household aged 11-15
RSEX	30	Sex of Respondent
RAGE	31	Respondent s age
AGEX	32	Grouped age
AGEH	33	Grouped Age
Respmar	34	Legal marital status of respondent
LivWth	35	Living with someone in the household as a couple
DeFact1	36	De Facto Marital status- grouped
DeFacto	37	De Facto Marital status
RESPHldr	38	In whose name is the accommodation owned or rented?
RELHRP	39	Relationship to HRP
HHtypA	40	Household type A
HHTypB	41	Household type B
HHType	42	Household Type B - Grouped
Parent	43	Are you (or partner) parent, guardian of any children under 16 in household?
ParTod	44	Are you (or partner) parent, guardian of any child 0-4 in the household?
Cars	45	Does household have any cars or vans normally available for its use?
CAR	46	Number of cars/vans available to the household - grouped
EdAgeCor	47	How old were you when you finished full time education?
HighEd1	48	What is the highest level of qualification?
highed4	49	What is the highest level of qualification?
QualChCr1	50	Where qualifications were gained from
QualChCr2	51	Where qualifications were gained from
QualChCr3	52	Where qualifications were gained from
QualChCr4	53	Where qualifications were gained from
QualChCr5	54	Where qualifications were gained from
QualChCr6	55	Where qualifications were gained from
QualChCr7	56	Where qualifications were gained from
NatldE1	57	National Identity - England Version
NatldE2	58	National Identity - England Version
NatldE3	59	National Identity - England Version
NatldE4	60	National Identity - England Version
NatldE5	61	National Identity - England Version
NatldE6	62	National Identity - England Version

NatIdS1	63	National Identity - Scottish Version
NatIdS2	64	National Identity - Scottish Version
NatIdS3	65	National Identity - Scottish Version
NatIdS4	66	National Identity - Scottish Version
NatIdS5	67	National Identity - Scottish Version
NatIdS6	68	National Identity - Scottish Version
NatIdW1	69	National Identity - Welsh version
NatIdW2	70	National Identity - Welsh version
NatIdW3	71	National Identity - Welsh version
NatIdW4	72	National Identity - Welsh version
NatIdW5	73	National Identity - Welsh version
NatIdW6	74	National Identity - Welsh version
Ethnicity	75	To which of these groups do you belong
QHealth	76	How is your health in general?
LSIll	77	Have any long-standing illness, disability or infirmity?
IllLim	78	Does this illness or disability limit your activities in any way?
Schm08	79	Whether on a government scheme in the reference week?
Wrking	80	Did you do any paid work in last 7 days, as an employee or self-employed?
JbAway	81	Even though not doing paid work, did you have job, business you were away from?
OwnBus	82	Did you do any unpaid work in that week?
RelBus	83	Did you do any unpaid work for a business that a relative owns?
EverWk	84	Ever had paid work, apart from casual, holiday work, incl self-emp or gov scheme?
Start	85	If job had been available week ending Sunday, been able to start within 2 weeks?
Look4	86	Were you looking for any kind of paid work at any time in the last 4 weeks?
NoLoWa01	87	What were the reasons you did not look for work in the last 4 weeks?
NoLoWa02	88	What were the reasons you did not look for work in the last 4 weeks?
NoLoWa03	89	What were the reasons you did not look for work in the last 4 weeks?
NoLoWa04	90	What were the reasons you did not look for work in the last 4 weeks?
NoLoWa05	91	What were the reasons you did not look for work in the last 4 weeks?
NoLoWa06	92	What were the reasons you did not look for work in the last 4 weeks?
NoLoWa07	93	What were the reasons you did not look for work in the last 4 weeks?
NoLoWa08	94	What were the reasons you did not look for work in the last 4 weeks?
NoLoWa09	95	What were the reasons you did not look for work in the last 4 weeks?
NoLoWa10	96	What were the reasons you did not look for work in the last 4 weeks?
DVIL03a	97	DV for ILO in employment - 3 categories
DVIL04a	98	DV for ILO in employment - 4 categories
Stat	99	Working as an employee or self-employed?
Supvis	100	In your job, have formal responsibility for supervising work of other employees?
Manage	101	Do you have any managerial duties?
MpnE01	102	How many people worked for your employer at the place where you worked?
MpnE02	103	How many people worked for your employer at the place where you worked?
MpnS01	104	How many people did you employ at the place where You worked?
MpnS02	105	How many people did you employ at the place where You worked?
Solo	106	Working on your own or do you have employees?
FtPtWk	107	Full or part time work?
ES2010	108	Employment status
NSSECB	109	NS-SEC Socio-economic Class (full classification)- derived variable
nssecac	110	NS-SEC 8 categories
NSECAC5	111	NS-SEC 5 categories
NSECAC3	112	NS-SEC 3 categories
sumgross	113	Gross Annual Income
INDWGT	114	Calibration Weight
wta	115	Weight A

Variables in the working file