

## **Supplementary information to accompany the three year Annual Population Survey/Personal Well-being Dataset**

Please note, this information should be used alongside the 'Personal Well-being Survey User Guide: 2013-2014 Dataset'.

### **Rationale for Creation of the three year Personal Well-being (PWB) dataset**

A new three year PWB dataset has been developed in response to user demand for more robust PWB data at low levels of geography, such as local authority district level (LAD). The three year PWB dataset will also allow for more robust analysis of the PWB of sub groups in the population.

### **Methodology**

#### **Background - the Annual Population Survey**

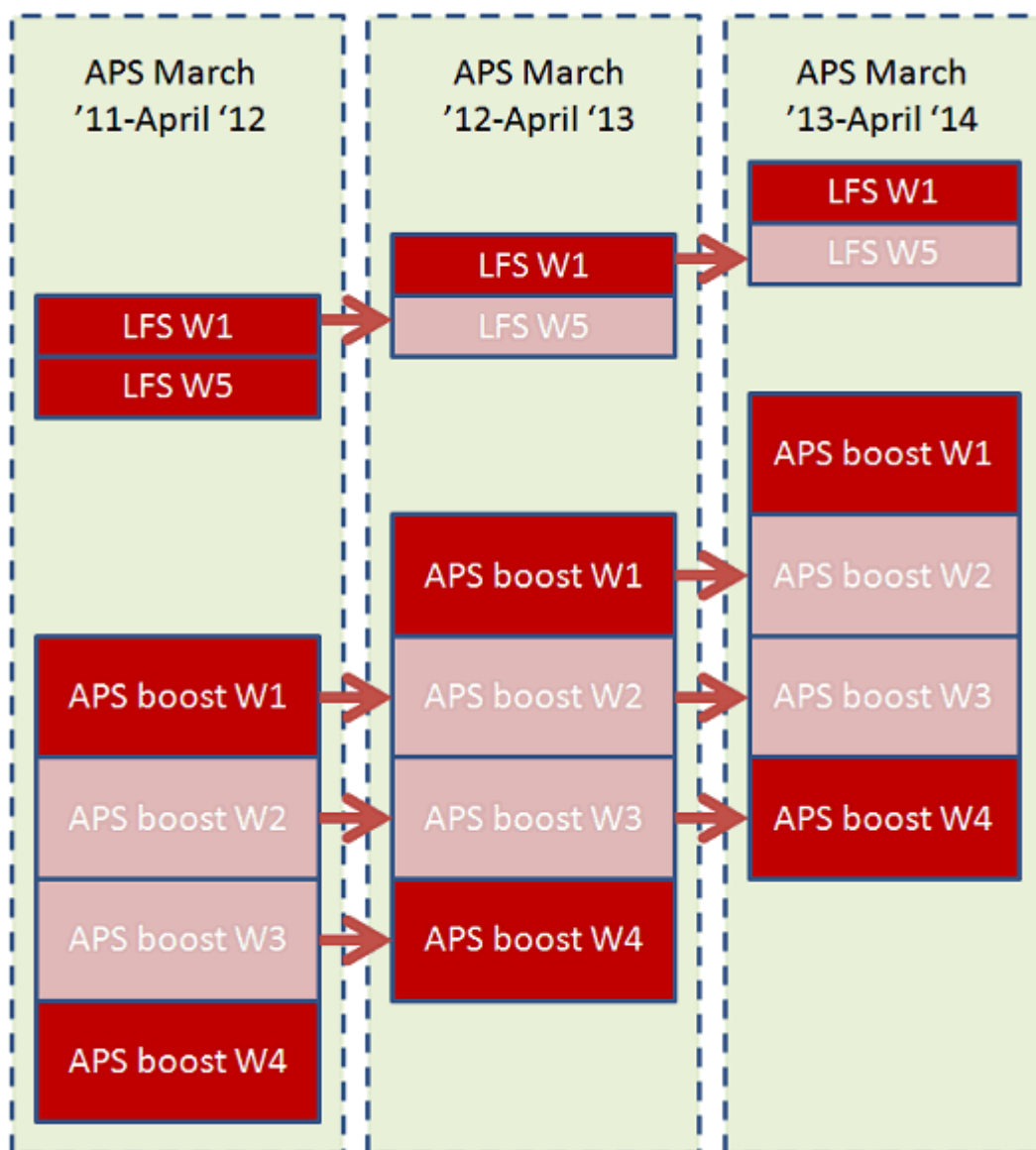
The estimates in the annual 'personal well-being in the UK' release are produced using a single year Annual Population Survey (APS) dataset which contains cases covering a 12 month period. The APS is an annual version of the quarterly Labour Force Survey (LFS), and is constructed by combining data collected from the LFS and the APS 'boost' samples in England, Wales and Scotland. In common with most other social surveys, both the LFS and APS boost use a rotational design. This means that once households are selected for interview they are retained in the sample for a number of periods. The number of periods a household is included in the sample defines the household's 'wave', the first time a household is sampled it is in 'wave 1', the second time it is in 'wave 2', etc.

The way the single year APS datasets are constructed ensures that, despite the fact that both the LFS and the APS use a rotational design, no person appears more than once in any given single year dataset. This is done by selecting waves 1 and 5 of the quarterly LFS and all 4 waves of the APS 'boost'.

#### **Creation of a three-year dataset**

When combining multiple APS datasets together, it is important to account for the rotational design of the APS and ensure that no person appears more than once in the multiple year dataset. This is because the PWB datasets are not designed to be longitudinal e.g. they are not designed to track individuals over time/be used for longitudinal analysis. They are instead cross-sectional, and are designed to use a cross-section of the population to make inferences about the whole population.

For this reason, the three-year dataset has been designed to include only a selection of the cases from the individual year APS datasets, chosen in such a way that no individuals are included more than once, and the cases included are approximately equally spread across the three years. This is illustrated in the diagram below, where the dark red boxes are cases included in the three-year dataset and the light red boxes are cases which are normally included in a single year APS dataset, but which have been dropped from the multiple year dataset to avoid duplication.



This dataset has been weighted to make it representative of the UK population, in a similar way to the single year datasets (a specific weight has been developed for use with the three year dataset).

The multiple year dataset covers the three-year period April 2011 to March 2014. For the reasons outlined above, it does not contain three times the number of cases in a single year dataset - it instead contains just under double the number of cases, as shown in the table below.

	April 2013 - March 2014	April 2011 - March 2014
<b>Number of wellbeing responses</b>	167,625	309,662

As this dataset is larger than a standard single year dataset, the sampling variability of estimates will be smaller, and it should be possible to do more robust analysis at lower levels of aggregation. The tables below compare the average coefficients of variation (the standard error as a percentage of the estimate) for estimates at various levels of aggregation based on the single year April 2013-March 2014 dataset and the multiple year dataset.

Mean CV - Anxious			Mean CV - Happy		
	1 Year	3 Year		1 Year	3 Year
Overall	0.33%	0.21%	Overall	0.10%	0.07%
Country	1.13%	0.71%	Country	0.33%	0.23%
GOR	1.19%	0.77%	GOR	0.36%	0.25%
County	3.89%	2.66%	County	1.16%	0.84%
Local Authority	7.63%	4.95%	Local Authority	2.19%	1.55%

Mean CV - Worth			Mean CV - Satis		
	1 Year	3 Year		1 Year	3 Year
Overall	0.08%	0.05%	Overall	0.08%	0.06%
Country	0.26%	0.18%	Country	0.28%	0.20%
GOR	0.28%	0.19%	GOR	0.30%	0.21%
County	0.90%	0.65%	County	0.95%	0.70%
Local Authority	1.70%	1.20%	Local Authority	1.79%	1.29%

Coefficients of variation for estimates from the three year dataset are smaller than those from the single year dataset, making analysis more robust at lower levels. For example, the estimates for mean 'anxious' at the local authority level tend have an average CV of 7.63%, implying a confidence interval of plus or minus 15% of the estimate. Using the single year dataset, the mean CV is 4.95%, implying a confidence interval of around plus minus 10% of the estimate.

It should be noted that although the sample size approximately doubles, the coefficients of variation are reduced by less than half. This is a standard result, increasing the sample size does not proportionately reduce standard errors. In general, doubling the sample size will reduce standard errors by around a quarter.

### How to access the three year PWB/APS dataset;

The personal well-being three year dataset is available to GSS users through contacting the following email address: [socialsurveys@ons.gov.uk](mailto:socialsurveys@ons.gov.uk)

Non GSS users can access the dataset through applying for to the End User Licence or Special Licence versions of the dataset through the UK Data Archive under licensed access arrangements. Please contact the UK Data Archive for further information: <http://www.data-archive.ac.uk/>

## **Annexe 1 Additional variables available on the three year Personal Well-being dataset 2013/14**

A full list of variables can be found in 'Personal Well-being Survey User Guide: 2013-2014 Dataset'.

Note, overall there are fewer variables available on the three year PWB dataset than the one year datasets due to the increased size of the dataset to allow for faster data analysis.

The additional variables have been added to the three year APS/PWB dataset following consultation with data users.

### **CCG – Clinical Commissioning Groups**

(E38000001) NHS Airedale, Wharfedale and Craven	(E38000048) NHS Ealing
(E38000002) NHS Ashford	(E38000049) NHS East and North Hertfordshire
(E38000003) NHS Aylesbury Vale	(E38000050) NHS East Lancashire
(E38000004) NHS Barking & Dagenham	(E38000051) NHS East Leicestershire and Rutland
(E38000005) NHS Barnet	(E38000052) NHS East Riding of Yorkshire
(E38000006) NHS Barnsley	(E38000053) NHS East Staffordshire
(E38000007) NHS Basildon and Brentwood	(E38000054) NHS East Surrey
(E38000008) NHS Bassetlaw	(E38000055) NHS Eastbourne, Hailsham and Seaford
(E38000009) NHS Bath and North East Somerset	(E38000056) NHS Eastern Cheshire
(E38000010) NHS Bedfordshire	(E38000057) NHS Enfield
(E38000011) NHS Bexley	(E38000058) NHS Erewash
(E38000012) NHS Birmingham CrossCity	(E38000059) NHS Fareham and Gosport
(E38000013) NHS Birmingham South and Central	(E38000060) NHS Fylde & Wyre
(E38000014) NHS Blackburn with Darwen	(E38000061) NHS Gateshead
(E38000015) NHS Blackpool	(E38000062) NHS Gloucestershire
(E38000016) NHS Bolton	(E38000063) NHS Great Yarmouth & Waveney
(E38000017) NHS Bracknell and Ascot	(E38000064) NHS Greater Huddersfield
(E38000018) NHS Bradford City	(E38000065) NHS Greater Preston
(E38000019) NHS Bradford Districts	(E38000066) NHS Greenwich
(E38000020) NHS Brent	(E38000067) NHS Guildford and Waverley
(E38000021) NHS Brighton & Hove	(E38000068) NHS Halton
(E38000022) NHS Bristol	(E38000069) NHS Hambleton, Richmondshire and Whitby
(E38000023) NHS Bromley	(E38000070) NHS Hammersmith and Fulham
(E38000024) NHS Bury	(E38000071) NHS Hardwick
(E38000025) NHS Calderdale	(E38000072) NHS Haringey
(E38000026) NHS Cambridgeshire and Peterborough	(E38000073) NHS Harrogate and Rural District
(E38000027) NHS Camden	(E38000074) NHS Harrow
(E38000028) NHS Cannock Chase	(E38000075) NHS Hartlepool and Stockton-on-Tees
(E38000029) NHS Canterbury and Coastal	(E38000076) NHS Hastings & Rother
(E38000030) NHS Castle Point, Rayleigh and Rochford	(E38000077) NHS Havering
(E38000031) NHS Central London (Westminster)	(E38000078) NHS Herefordshire
(E38000032) NHS Central Manchester	(E38000079) NHS Herts Valleys
(E38000033) NHS Chiltern	(E38000080) NHS Heywood, Middleton & Rochdale
(E38000034) NHS Chorley and South Ribble	(E38000081) NHS High Weald Lewes Havens
(E38000035) NHS City and Hackney	(E38000082) NHS Hillingdon
(E38000036) NHS Coastal West Sussex	(E38000083) NHS Horsham and Mid Sussex
(E38000037) NHS Corby	(E38000084) NHS Hounslow
(E38000038) NHS Coventry and Rugby	(E38000085) NHS Hull
(E38000039) NHS Crawley	(E38000086) NHS Ipswich and East Suffolk
(E38000040) NHS Croydon	(E38000087) NHS Isle of Wight
(E38000041) NHS Cumbria	(E38000088) NHS Islington
(E38000042) NHS Darlington	(E38000089) NHS Kernow
(E38000043) NHS Dartford, Gravesham and Swanley	(E38000090) NHS Kingston
(E38000044) NHS Doncaster	(E38000091) NHS Knowsley
(E38000045) NHS Dorset	(E38000092) NHS Lambeth
(E38000046) NHS Dudley	(E38000093) NHS Lancashire North
(E38000047) NHS Durham Dales, Easington and Sedgfield	(E38000094) NHS Leeds North

(E38000095) NHS Leeds South and East	(E38000154) NHS South Eastern Hampshire
(E38000096) NHS Leeds West	(E38000155) NHS South Gloucestershire
(E38000097) NHS Leicester City	(E38000156) NHS South Kent Coast
(E38000098) NHS Lewisham	(E38000157) NHS South Lincolnshire
(E38000099) NHS Lincolnshire East	(E38000158) NHS South Manchester
(E38000100) NHS Lincolnshire West	(E38000159) NHS South Norfolk
(E38000101) NHS Liverpool	(E38000160) NHS South Reading
(E38000102) NHS Luton	(E38000161) NHS South Sefton
(E38000103) NHS Mansfield & Ashfield	(E38000162) NHS South Tees
(E38000104) NHS Medway	(E38000163) NHS South Tyneside
(E38000105) NHS Merton	(E38000164) NHS South Warwickshire
(E38000106) NHS Mid Essex	(E38000165) NHS South West Lincolnshire
(E38000107) NHS Milton Keynes	(E38000166) NHS South Worcestershire
(E38000108) NHS Nene	(E38000167) NHS Southampton
(E38000109) NHS Newark & Sherwood	(E38000168) NHS Southend
(E38000110) NHS Newbury and District	(E38000169) NHS Southern Derbyshire
(E38000111) NHS Newcastle North and East	(E38000170) NHS Southport and Formby
(E38000112) NHS Newcastle West	(E38000171) NHS Southwark
(E38000113) NHS Newham	(E38000172) NHS St Helens
(E38000114) NHS North & West Reading	(E38000173) NHS Stafford and Surrounds
(E38000115) NHS North Derbyshire	(E38000174) NHS Stockport
(E38000116) NHS North Durham	(E38000175) NHS Stoke on Trent
(E38000117) NHS North East Essex	(E38000176) NHS Sunderland
(E38000118) NHS North East Hampshire and Farnham	(E38000177) NHS Surrey Downs
(E38000119) NHS North East Lincolnshire	(E38000178) NHS Surrey Heath
(E38000120) NHS North Hampshire	(E38000179) NHS Sutton
(E38000121) NHS North Kirklees	(E38000180) NHS Swale
(E38000122) NHS North Lincolnshire	(E38000181) NHS Swindon
(E38000123) NHS North Manchester	(E38000182) NHS Tameside and Glossop
(E38000124) NHS North Norfolk	(E38000183) NHS Telford & Wrekin
(E38000125) NHS North Somerset	(E38000184) NHS Thanet
(E38000126) NHS North Staffordshire	(E38000185) NHS Thurrock
(E38000127) NHS North Tyneside	(E38000186) NHS Tower Hamlets
(E38000128) NHS North West Surrey	(E38000187) NHS Trafford
(E38000129) NHS North, East, West Devon	(E38000188) NHS Vale of York
(E38000130) NHS Northumberland	(E38000189) NHS Vale Royal
(E38000131) NHS Norwich	(E38000190) NHS Wakefield
(E38000132) NHS Nottingham City	(E38000191) NHS Walsall
(E38000133) NHS Nottingham North & East	(E38000192) NHS Waltham Forest
(E38000134) NHS Nottingham West	(E38000193) NHS Wandsworth
(E38000135) NHS Oldham	(E38000194) NHS Warrington
(E38000136) NHS Oxfordshire	(E38000195) NHS Warwickshire North
(E38000137) NHS Portsmouth	(E38000196) NHS West Cheshire
(E38000138) NHS Redbridge	(E38000197) NHS West Essex
(E38000139) NHS Redditch and Bromsgrove	(E38000198) NHS West Hampshire
(E38000140) NHS Richmond	(E38000199) NHS West Kent
(E38000141) NHS Rusham	(E38000200) NHS West Lancashire
(E38000142) NHS Rushcliffe	(E38000201) NHS West Leicestershire
(E38000143) NHS Salford	(E38000202) NHS West London (Kensington and Chelsea, Queen's Park and Paddington)
(E38000144) NHS Sandwell and West Birmingham	(E38000203) NHS West Norfolk
(E38000145) NHS Scarborough and Ryedale	(E38000204) NHS West Suffolk
(E38000146) NHS Sheffield	(E38000205) NHS Wigan Borough
(E38000147) NHS Shropshire	(E38000206) NHS Wiltshire
(E38000148) NHS Slough	(E38000207) NHS Windsor, Ascot and Maidenhead
(E38000149) NHS Solihull	(E38000208) NHS Wirral
(E38000150) NHS Somerset	(E38000209) NHS Wokingham
(E38000151) NHS South Cheshire	(E38000210) NHS Wolverhampton
(E38000152) NHS South Devon and Torbay	(E38000211) NHS Wyre Forest
(E38000153) NHS South East Staffs and Seisdon and Peninsular	

**COVERAGE:** Applies to all respondents resident in England.

**NOTES:** This variable is only available on the GSS client version of the dataset.

#### CHP – Community Health Partnerships

(S03000001) East Ayrshire Community Health Partnership

- (S03000002) North Ayrshire Community Health Partnership
- (S03000003) South Ayrshire Community Health Partnership
- (S03000004) Scottish Borders Community Health and Care Partnership
- (S03000005) Dumfries and Galloway Community Health Partnership
- (S03000006) Dunfermline and West Fife Community Health Partnership
- (S03000007) Glenrothes and North East Fife Community Health Partnership
- (S03000008) Kirkcaldy and Levenmouth Community Health Partnership
- (S03000009) Clackmannanshire Community Health Partnership
- (S03000010) Falkirk Community Health Partnership
- (S03000011) Stirling Community Health Partnership
- (S03000012) Aberdeen City Community Health Partnership
- (S03000013) Aberdeenshire Community Health Partnership
- (S03000014) Moray Community Health and Social Care Partnership
- (S03000015) East Dunbartonshire Community Health Partnership
- (S03000017) East Renfrewshire Community Health and Care Partnership
- (S03000018) Inverclyde Community Health and Care Partnership
- (S03000020) Renfrewshire Community Health Partnership
- (S03000023) West Dunbartonshire Community Health and Care Partnership
- (S03000025) Argyll and Bute Community Health Partnership
- (S03000029) North Lanarkshire Community Health Partnership
- (S03000030) South Lanarkshire Community Health Partnership
- (S03000031) East Lothian Community Health Partnership
- (S03000032) Midlothian Community Health Partnership
- (S03000035) West Lothian Community Health and Care Partnership
- (S03000036) Orkney Community Health Partnership
- (S03000037) Shetland Community Health Partnership
- (S03000038) Angus Community Health Partnership
- (S03000039) Dundee Community Health Partnership
- (S03000040) Perth and Kinross Community Health Partnership
- (S03000041) Western Isles Community Health and Social Care Partnership
- (S03000042) Edinburgh Community Health Partnership
- (S03000043) Glasgow City Community Health Partnership
- (S03000044) Highland Health and Social Care Partnership

**COVERAGE:** Applies to all respondents resident in Scotland.

**NOTES:** This variable is available on the GSS client and Special License datasets.

#### **LHB – Local Health Boards**

- (W11000023) Betsi Cadwaladr University
- (W11000024) Powys Teaching
- (W11000025) Hywel Dda
- (W11000026) Abertawe Bro Morgannwg University
- (W11000027) Cwm Taf
- (W11000028) Aneurin Bevan
- (W11000029) Cardiff and Vale University

**COVERAGE:** Applies to all respondents resident in Wales.

**NOTES:** This variable is available on the GSS client and Special License datasets.

#### **HWB – Health and Wellbeing Boards**

- |                      |                           |                             |
|----------------------|---------------------------|-----------------------------|
| (11) Buckinghamshire | (34) Northamptonshire     | (AE) Brent                  |
| (12) Cambridgeshire  | (36) North Yorkshire      | (AF) Bromley                |
| (16) Cumbria         | (37) Nottinghamshire      | (AG) Camden                 |
| (17) Derbyshire      | (38) Oxfordshire          | (AH) Croydon                |
| (18) Devon           | (40) Somerset             | (AJ) Ealing                 |
| (19) Dorset          | (41) Staffordshire        | (AK) Enfield                |
| (21) East Sussex     | (42) Suffolk              | (AL) Greenwich              |
| (22) Essex           | (43) Surrey               | (AM) Hackney                |
| (23) Gloucestershire | (44) Warwickshire         | (AN) Hammersmith and Fulham |
| (24) Hampshire       | (45) West Sussex          | (AP) Haringey               |
| (26) Hertfordshire   | (47) Worcestershire       | (AQ) Harrow                 |
| (29) Kent            |                           | (AR) Havering               |
| (30) Lancashire      | (AA) City of London       | (AS) Hillingdon             |
| (31) Leicestershire  | (AB) Barking and Dagenham | (AT) Hounslow               |
| (32) Lincolnshire    | (AC) Barnet               | (AU) Islington              |
| (33) Norfolk         | (AD) Bexley               |                             |

(AW) Kensington and Chelsea	(CJ) Newcastle upon Tyne	(FN) Leicester
(AX) Kingston upon Thames	(CK) North Tyneside	(FP) Rutland
(AY) Lambeth	(CL) South Tyneside	(FY) Nottingham
(AZ) Lewisham	(CM) Sunderland	(GA) County of Herefordshire
(BA) Merton	(CN) Birmingham	(GF) Telford and Wrekin
(BB) Newham	(CQ) Coventry	(GG) Shropshire
(BC) Redbridge	(CR) Dudley	(GL) Stoke-on-Trent
(BD) Richmond upon Thames	(CS) Sandwell	(HA) Bath and North East Somerset
(BE) Southwark	(CT) Solihull	(HB) City of Bristol
(BF) Sutton	(CU) Walsall	(HC) North Somerset
(BG) Tower Hamlets	(CW) Wolverhampton	(HD) South Gloucestershire
(BH) Waltham Forest		(HE) Cornwall
(BJ) Wandsworth	(CX) Bradford Calderdale	(HG) Plymouth
(BK) Westminster	(CY) Calderdale	(HH) Torbay
	(CZ) Kirklees	(HN) Bournemouth & Poole
(BL) Bolton	(DA) Leeds	(HX) Swindon
(BM) Bury	(DB) Wakefield	(HY) Wiltshire
(BN) Manchester		(JA) Peterborough
(BP) Oldham	(EB) Hartlepool	(KA) Luton
(BQ) Rochdale	(EC) Middlesbrough	(KB) Bedford
(BR) Salford	(EE) Redcar and Cleveland	(KC) Central Bedfordshire
(BS) Stockport	(EF) Stockton-on-Tees	(KF) Southend-on-Sea
(BT) Tameside	(EH) Darlington	(KG) Thurrock
(BU) Trafford	(EJ) County Durham	(LC) Medway
(BW) Wigan	(EM) Northumberland	(MA) Bracknell Forest
	(EQ) Cheshire East	(MB) West Berkshire
(BX) Knowsley	(ET) Halton	(MC) Reading
(BY) Liverpool	(EU) Warrington	(MD) Slough
(BZ) St. Helens	(EW) Cheshire West and Chester	(ME) Windsor and Maidenhead
(CA) Sefton	(EX) Blackburn with Darwen	(MF) Wokingham
(CB) Wirral	(EY) Blackpool	(MG) Milton Keynes
	(FA) City of Kingston upon Hull	(ML) Brighton and Hove
(CC) Barnsley	(FB) East Riding of Yorkshire	(MR) Portsmouth
(CE) Doncaster	(FC) North East Lincolnshire	(MS) Southampton
(CF) Rotherham	(FD) North Lincolnshire	(MW) Isle of Wight
(CG) Sheffield	(FF) York	
	(FK) Derby	

**COVERAGE:** Applies to all respondents resident in Wales.

**NOTES:** It is a legal requirement for each top tier (counties) and unitary authority to have its own Health and Wellbeing Board. Lower-tier local authorities (districts) may create a Health and Wellbeing Board as a subcommittee of an upper-tier HWB or as a local committee, though are not required by statute to do so. This variable presents HWB for top tier and unitary authorities.

This variable is available on the GSS client and Special License datasets.

#### **FUTYPE6 - Type of family unit**

- (1) 1 person – male
- (2) 1 person – female
- (3) Same sex couple
- (4) Married couple with no children
- (5) Married couple with non-dependent children only
- (6) Married couple with dependent children
- (7) Cohabiting couple with no children
- (8) Cohabiting couple with non-dependent children only
- (9) Cohabiting couple with dependent children
- (10) Male lone parent with dependent children
- (11) Male lone parent with non-dependent children only
- (12) Female lone parent with dependent children
- (13) Female lone parent with non-dependent children only
- (14) Same sex cohabiting couple with no children
- (15) Same sex cohabiting couple with non-dependent children only
- (16) Same sex cohabiting couple with dependent children
- (17) Civil partners couple with no children
- (18) Civil partners couple with non-dependent children only

**(19) Civil partners couple with dependent children**

**COVERAGE:** Applies to all family units.

**NOTES:** This variable is derived from SEX, RELHFU, MARSTA, LIVWTH/LIV12W & FDPCH19. This variable is available on the GSS client and Special License datasets.

**LEP & LEP2 – Local Enterprise Partnerships**

Black Country  
Buckinghamshire Thames Valley  
Cheshire and Warrington  
Coast to Capital  
Cornwall and the Isles of Scilly  
Coventry and Warwickshire  
Cumbria  
Derby, Derbyshire, Nottingham and Nottinghamshire  
Dorset  
Enterprise M3  
Gloucestershire  
Greater Birmingham and Solihull  
Greater Cambridge & Greater Peterborough  
Greater Lincolnshire  
Greater Manchester  
Heart of the South West  
Hertfordshire  
Humber  
Lancashire  
Leeds City Region  
Leicester and Leicestershire  
Liverpool City Region  
London  
New Anglia  
North Eastern  
Northamptonshire  
Oxfordshire LEP  
Sheffield City Region  
Solent  
South East  
South East Midlands  
Stoke-on-Trent and Staffordshire  
Swindon and Wiltshire  
Tees Valley  
Thames Valley Berkshire  
The Marches  
West of England  
Worcestershire  
York and North Yorkshire



**COVERAGE:** Applies to all respondents resident in England.

**NOTES:** Local enterprise partnerships are partnerships between local authorities and businesses. Some partnerships have overlapping boundaries with local authorities working in more than one partnership. To accommodate this LEPs have been presented within two LEP and LEP2.

This variable is available on the GSS client and Special License datasets.

**NP112R14 - Person weight**

**FREQUENCY:** Each case where questions were asked in person during this interview period (not by proxy) and aged 16 or over.

**NOTES:** Person weight for non-proxy analysis for the April 2011 to March 2014 dataset.