Codebook

The following document describes how to derive the variables in fesolderages\_4579 using raw variables from the LCFS, GHS and HSE.

Variables in the dataset fesolderages45\_79.dta are constructed in the do file spending.do. Section 1 of this code book discusses the variables used in spending.do (derived from the Living Costst and Food Survey). Section 2 covers demographic variables contained in the dataset fesolderages45\_79.dta. Section 3 covers expenditure variables in the dataset fesolderages45\_79.dta. Section 4 covers health variables constructed in the General Household Survey and Health Survey for England.

# 1. LCFS derived demographic variables used in spending.do

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| --- | --- |
| age |  |
| Description | Age of the individual |
| Source variables | 1968-2000: A0052001- : A005p |
| Syntax | n/a |
| Notes | This variable is top-coded at 90 in 2001 and 80 from 2002 onwards |

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| ageced |  |
| Description | The age that the individual first ceased full time education.  |
| Years available | 1978-current |
| Source variables | A010 |
| Syntax | A120 →tenure(1 →1) (2 → 3) (3 → 4) (4 → 5) (5 → 6)If A109 = 7: tenure = 2 |
| Coding frame | -1 Not asked (2008 onwards see notes)0 Still in education |
| Notes | From 2008 onwards, only those aged under 70 were asked this question so the 70+ age group are recorded as -1. |

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| agekid1-agekid10 |  |
| Description | Benefit unit level characteristics about age, sex and relationship to the head of household of children in the benefit unit. |
| Source variables | n/a |
| Syntax | n/a |
| Notes | Used to derive  |

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| --- | --- |
| empstat |  |
| Description | Employments status of individuals |
| Source variables | 1968-1989: A2011990-current: A200 |
| Syntax | 1968-1971:A201 →empstat(1 at present working as employee→1)(3 Self employed → 2)(2 Out of employment but seeking work → 3) (4 Retired→ 5) (5 Unoccupied → 6) If babysitter or mail order worker: empstat = 61972-1981:A201 →empstat(1 Employee→1)(2 Self employed or employee→ 2)(3 Out of emp but seeking or about to start work → 3)(4,5 Sick and seeking, Sick but not seeking → 4)(6 Retired → 5)(7 Unoccupied → 6)If babysitter or mail order worker: empstat = 61982-1989:A201 →empstat(1 Employee→1)(2 Self employed or employee→ 2)(3 Out of emp but seeking or about to start work → 3)(4,5 Sick and seeking, Sick but not seeking → 4)(6 Retired → 5)(7 Unoccupied → 6)1990-2008A200 →empstat(1 Employee →1)(2 Self-employed or employer → 2)(3,4 Out of emp but seeking, out of emp waiting to start job → 3) (5 Sick or Injured→ 4)(6 Retired → 5) (7 Unoccupied → 6)2009-currentA200 →empstat(1,8 Employee, Govt Training scheme→1)(2 Self-employed or employer → 2)(3,4 Out of emp but seeking, out of emp waiting to start job → 3) (5 Sick or Injured→ 4)(6 Retired → 5) (7 Unoccupied → 6) |
| Coding frame | 0 not recorded1 Employee2 Self employed or employer3 Out of emp, seeking work4 Sick or injured5 Retired6 Unoccupied |
| Notes | Used to define h\_employed and sp\_employed. See spending.do to see how these variables are constructed. Up to and including 1981, baby sitters and mail order workers were included as employed by the FES in the variable a201. From 1982 onwards, the classification changed and these workers were classified as unoccupied. In order to create a consistent series, very low earners were identified using a threshold of £2.50 per week in 1983 prices and reclassified as unoccupied if they earn below this amount.  |

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| indinc |  |
| Description | After tax income received by household |
| Source variables | **1977-1992** p177**1993 - 2005** p177, b330, b321**2006-2012**p177, b330, b321p |
| Syntax | **1977-1992**  p177→indinc**1993 - 2005** p177→indincreplace = indinc+b330 if b321==0**2006-2010**p177→indincreplace = indinc+b330p if b321==0 |
| Coding frame | n/a |
| Notes | Summing this across individuals in each household yields hhinc |

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| --- | --- |
| numpeeps |  |
| Description | The number of people in the household |
| Source variables | n/a |
| Syntax | n/a |

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| numtukid |  |
| Description | Benefit unit level characteristics about the number of dependent children. |
| Source variables | n/a |
| Syntax | n/a |
| Notes |  |

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| reltohoh |  |
| Description | Relationship of the individual to the head of household |
| Source variables | A002 |
| Syntax | n/a |
| Coding frame | 0 HOH1 Spouse or cohabitee post 942 Son or daughter3 Son or daughter in law4 Father or mother5 Father or mother in law6 Brother or sister7 Grandson or granddaughter8 Other relative9 Other non relative |
| Notes | Used to define hassp, h\_employed and sp\_employed. |

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| sex |  |
| Description | Sex of the individual |
| Source variables | A004 |
| Syntax | n/a |
| Coding frame | 1 Male2 Female |

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| tenure |  |
| Description | Tenure status |
| Source variables | 1968-1979: A120, 1980-1985: A120, A1091986-2000: A121 |
| Syntax | 1968-1979:tenure = A1201980-1985A120 →tenure(1 →1) (2 → 3) (3 → 4) (4 → 5) (5 → 6)If A109 = 7: tenure = 21986-latesttenure = A121  |
| Coding frame |  0 not recorded 1 Local authority rented 2 Housing association 3 Other rented, unfurnished 4 Rented, furnished 5 Mortgaged 6 Owned by rental purchase 7 Owned outright 8 Rent free |
| Notes | Used to define owner, renter, ownmort and ownout . Housing association only recorded from 1980 onwards. The coding frame is adjusted to ensure consistency across years but pre-1980 there are no recorded cases with tenure = 2 |

# 2. LCFS derived demographic variables used in fesolderages

Some variables are self-explanatory (e.g. log transformations of spending and income variables) and so have not been included here. See also the Stata code contained in prepfesdata\_olderages.do. The variable ALL\_ITEM is the monthly RPI taken from the Office for National Statistics (based to January 2010).[[1]](#footnote-1)

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| eq |  |
| Description | Modified OECD equivalence scale |
| Source variables | over14s and numkids014 are derived from the variables agekid1-agekid10 |
| Syntax | See spending.do eq = 1 + (0.5\*(over14s-1)) +(0.3\*numkids014) |
| Notes |  |

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| cohort |  |
| Description | Modified OECD equivalence scale |
| Source variables | age, year |
| Syntax | cohort = 1 if dob<=1902;cohort = 2 if dob>1902 & dob<=1907cohort = 3 if dob>1907 & dob<=1912cohort = 4 if dob>1912 & dob<=1917cohort = 5 if dob>1917 & dob<=1922cohort = 6 if dob>1922 & dob<=1927cohort = 7 if dob>1927 & dob<=1932cohort = 8 if dob>1932 & dob<=1937cohort = 9 if dob>1937 & dob<=1942cohort = 10 if dob>1942 & dob<=1947cohort = 11 if dob>1947 & dob<=1952cohort = 12 if dob>1952 & dob<=1957cohort = 13 if dob>1957 & dob<=1962cohort = 14 if dob>1962 & dob<=1967cohort = 15 if dob>1967 & dob<=1972cohort = 16 if dob>1972 & dob<=1977cohort = 17 if dob>1977 & dob<=1982cohort = 18 if dob>1982 & dob<=1987cohort = 19 if dob>1987 & dob<=1992cohort = 20 if dob>1992 & dob<=1997 |
| Coding frame  | 1 "<=1902"2 "1903-1907"3 "1908-1912"4 "1913-1917"5 "1918-1922"6 "1923-1927"7 "1928-1932"8 "1933-1937"9 "1938-1942"10 "1943-1947"11 "1948-1952"12 "1953-1957"13 "1958-1962"14 "1963-1967"15 "1968-1972"16 "1973-1977"17 "1978-1982"18 "1983-1987"19 "1988-1992"20 "1993-1997" |
| Notes |  |

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| --- | --- |
| haspsingle  |  |
| Description | Indicator for spouse present in household |
| Source variables | Derived from reltohoh |
| Syntax | See spending.do. single = 1- hassp |
| Notes |  |
| Coding frame | hasp:0 “Married spouse not present” 1 “Married spouse present” |
| Notes |  |

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| --- | --- |
| h\_employedsp\_employedbothwork |  |
| Description | Whether head/spouse works |
| Source variables | Derived from reltohoh and empstat. |
| Syntax | See spending.doh\_employed = empstat==1 or 2 and reltohoh==0sp\_employed = empstat==1 or 2 and reltohoh==1bothwork = h\_employed\*sp\_employed |
| Notes |  |

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| --- | --- |
| hhinc |  |
| Description | Household income |
| Source variables | Dervied from indinc |
| Syntax |  |
| Notes | See spending.do |

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| --- | --- |
| maxed |  |
| Description | Highest education level received among head and spouse |
| Source variables | Derived from ageced |
| Syntax | See spending.do. |
| Notes |  |
| Coding frame | 0 “Less than compulsory education” 1 “Compulsory or more than compulsory education” |
| Notes | Compulsory schooling is defined as 14 for those graduating before 1948, 15 for those graduating from 1948 to 1972 and 16 for those graduating in 1973 or after.  |

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| ownerownmortownrentrenter |  |
| Description | Variables defining tenure status |
| Source variables | Derived from tenure variable |
| Syntax | owner = inlist(tenure,5,6,7)renter= inlist(tenure,1,2,3,4,8)ownmort = tenure==5ownout = inlist(tenure,6,7) |
| Coding frame |   |
| Notes |  |

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| numadsnumkidsthreeads |  |
| Description | Household level characteristic about the number of adults and children |
| Source variables | Derived from numpeeps and agekid\* |
| Syntax | See spending.do |
| Notes |  |

# 3. LCFS derived expenditure variables

|  |  |
| --- | --- |
| medical |  |
| Description | Spending on medical ($ per week) |
| Source variables | n/a |
| Syntax | = hlthser + medic + drugs + hospital + elderly |
| Notes | See individual elements (“hlthser” etc.) for source variables. |

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| --- | --- |
| healthin |  |
| Description | Spending on health insurance ($ per week) |
| Source variables | B229 |
| Syntax | n/a |
| Notes |  |

|  |  |
| --- | --- |
| hlthser |  |
| Description | Spending on health services ($ per week) |
| Source variables | **1978-1994:**= d773 + d775**1994-2000**= d090403 + d090404**2001-2010**=c62112 + c62114 + c62212 + c62311 + c62322 + c62331 + c62111 + c62113 + c62211 + c62321 + cc4112 |
| Syntax | n/a |
| Notes |  |

|  |  |
| --- | --- |
| medic |  |
| Description | Spending on doctors ($ per week) |
| Source variables | **1978-1994:**= d611 + d612**1994-2000**= d090501 + d090502**2001-2010**=c61211 + c61311 + c61312 + c61313 |
| Syntax | n/a |
| Notes |  |

|  |  |
| --- | --- |
| drugs |  |
| Description | Spending on drugs ($ per week) |
| Source variables | **1978-1994:**= d621 + d625**1994-2000**= d090401 + d090402**2001-2010**=c61112 + c61111 |
| Syntax |  |
| Notes |  |

|  |  |
| --- | --- |
| hospital |  |
| Description | Spending on hospital ($ per week) |
| Source variables | c63111 |
| Syntax | n/a |
| Notes |  |

|  |  |
| --- | --- |
| elderly |  |
| Description | Spending on elderly care ($ per week) |
| Source variables | cc4111 d140307 |
| Syntax | n/a |
| Notes |  |

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| --- | --- |
| othnd |  |
| Description | Spending on other non-durables ($ per week) |
| Source variables | n/a |
| Syntax | Sum of ALCOHOL + TOBACCO + petcare + CLOTH\_SH + p\_artic + chemgood+ p\_servs + book\_new + telephon + telemess + chcare\*Then make the following adjustments**1978-1987:**= - (d773+d775) - (d621 + d625) **1988-1994:**= - (d773+d775) - (d621 + d625) - (d611+d612)**1994-2000**= - (d090403+d090404) - (d090401+d090402+d090502) - d090501**2001-2010**= - (c62111 + c62113 + c62211 + c62321 + c63111 + c62331 + c62322 + c62311 + c62212 + c62114 + c62112) - (c61111+c61112+c61211+c61312+c61313) - c61311  |
| Notes | \*See documents “RPI expenditure definitions 1974-2000.txt” and “RPI expenditure definitions 2001-latest.txt” for the expenditure codes that make up these spending categories. |

|  |  |
| --- | --- |
| recrea |  |
| Description | Spending on recreation ($ per week) |
| Source variables | n/a |
| Syntax | Sum of rec\_toys + cd\_tape + rec\_tape + toysetc + entertain + for\_hols + uk\_hols\*Then make the following adjustments**1978-1980**= - (d611+d612) - (b211+b212+b213+b214+b215+b217+b218) -(d798 + d802 + b278 + b279 )**1981 -1982**= - (b160+b164) - (d611+d612) - (b278 + b279 + b334 + b335 + d798 + d80)**1983 -1985**= - (b160+b164) - (d611+d612) - (b278 + b279 + b426 + b428 + d798 + d802 + b334)**1986 -1987**= - (b160+b164) - (d611+d612) - (d798 + d802 + b334) **1988-1991**= -(b160+b164+b265) - (d798 + d802 + b334) **1992-1993**= -(b160+b164+b265) -(d758 + d759 + d760 + d776 + d777 + d778 + d779) – (d798 + d802 + b334) **1994-1995**= -(b160+b164+b265+d130304) - (d080102 + d080103) - (d080102 + d080103) – (b334 + d140302 + d140303) - (b334 + d140302 + d140303)**1996-2000**= - d140307 - (b160+b164+b265+d130304) - (d080102 + d080103 ) – (b334 + d140302 + d140303) - (b334 + d140302 + d140303)**2001-2010**= - cc4111 –(b160 + b164 + b265+ca1113+ca2113+ca3113+ca4113+ca5113 ) - (cc4122 + cc4121) - (b334h+ck5221+ck5222+ck5223 ) |
| Notes | \*See documents “RPI expenditure definitions 1974-2000.txt” and “RPI expenditure definitions 2001-latest.txt” for the expenditure codes that make up these spending categories. |

|  |  |
| --- | --- |
| foodin |  |
| Description | Spending on foot at home ($ per week) |
| Source variables | n/a |
| Syntax | =FOOD\* |
| Notes | \*See documents “RPI expenditure definitions 1974-2000.txt” and “RPI expenditure definitions 2001-latest.txt” for the expenditure codes that make up these spending categories. |

|  |  |
| --- | --- |
| foodout |  |
| Description | Spending on food away from home ($ per week) |
| Source variables | n/a |
| Syntax | =CATERING\* |
| Notes | \*See documents “RPI expenditure definitions 1974-2000.txt” and “RPI expenditure definitions 2001-latest.txt” for the expenditure codes that make up these spending categories. |

|  |  |
| --- | --- |
| hrelated |  |
| Description | Spending on housing related ($ per week) |
| Source variables | n/a |
| Syntax | Sum of water + wat\_oth + repair + diy + insgr+ FUEL\_LIG + postage + domservs +fees\_sub + tvlicen + garden + consuma - chcare\*Then make the following adjustments**2001-2010**= - (cc4112) |
| Notes | \*See documents “RPI expenditure definitions 1974-2000.txt” and “RPI expenditure definitions 2001-latest.txt” for the expenditure codes that make up these spending categories. |

|  |  |
| --- | --- |
| transport |  |
| Description | Spending on transport ($ per week) |
| Source variables | n/a |
| Syntax | =MOTORING + FARESET - motorveh |
| Notes | \*See documents “RPI expenditure definitions 1974-2000.txt” and “RPI expenditure definitions 2001-latest.txt” for the expenditure codes that make up these spending categories. |

|  |  |
| --- | --- |
| tx |  |
| Description | Total spending |
| Source variables | n/a |
| Syntax | =totexp- HOUSING + water +wat\_oth + repair + diy + insgr + b229 - medical - hrelated - educspending - cashtransfers – creditcards\* |
| Notes | \*See documents “RPI expenditure definitions 1974-2000.txt” and “RPI expenditure definitions 2001-latest.txt” for the expenditure codes that make up these spending categories. |

|  |  |
| --- | --- |
| ndx |  |
| Description | Nondurable spending |
| Source variables | n/a |
| Syntax | =foodin+foodout+ transport+ othnd+recrea\* |
| Notes | \*See documents “RPI expenditure definitions 1974-2000.txt” and “RPI expenditure definitions 2001-latest.txt” for the expenditure codes that make up these spending categories. |

|  |  |
| --- | --- |
| ndx\_m |  |
| Description | Nondurable spending including medical |
| Source variables | n/a |
| Syntax | =ndx+medical |
| Notes | See above for source variables. |

|  |  |
| --- | --- |
| ndx\_h |  |
| Description | Nondurable spending including housing related |
| Source variables | n/a |
| Syntax | =ndx+hrelated |
| Notes | See above for source variables. |

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| --- | --- |
| ndx\_mh |  |
| Description | Nondurable spending including medical and housing related |
| Source variables | n/a |
| Syntax | =ndx+medical+hrelated |
| Notes | See above for source variables. |

|  |  |
| --- | --- |
| tx\_mh |  |
| Description | Total spending including medical and housing related |
| Source variables | n/a |
| Syntax | =tx+medical +hrelated |
| Notes | See above for source variables. |

|  |  |
| --- | --- |
| totalx |  |
| Description | Total spending including durables |
| Source variables | n/a |
| Syntax | = tx\_mh + grrent +mortgageint |
| Notes | \*See above and documents “RPI expenditure definitions 1974-2000.txt” and “RPI expenditure definitions 2001-latest.txt” for the expenditure codes that make up “grrent” and “mortgageint”. |

# 4. GHS/HSE health variables

Need to upload do files (deleting directories)

|  |  |
| --- | --- |
| srh\_1srh\_2srh\_3 |  |
| Description | Self-reported health variables |
| Source variables | n/a |
| Syntax | GHS 1978-1983srh\_1 = health == 1srh\_2= health == 2srh\_3= health == 3srh\_na = health<01983 -2006srh\_1 = genhealth == 1srh\_2= genhealth == 2srh\_3= genhealth == 3srh\_na = health<0HSE1997-2012srh\_1 = genhelf == 1srh\_2= genhelf == 2srh\_3= genhelf == inlist(3,4,5)srh\_na = genhelf<0 |
| Coding frame | 1 “Health best”2 “Health middle”3 “Health worst” |
| Notes |  |

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| --- | --- |
| ressrh\_1ressrh\_2ressrh\_3 |  |
| Description | Residualised self-reported health variables |
| Source variables | n/a |
| Syntax |  |
| Coding frame | 1 “Health best”2 “Health middle”3 “Health worst” |
| Notes | These variables are obtained by regressing the variables srh\_1, srh\_2 and srh\_3 on the a dummy for the information having been obtained in the GHS rather than the HSE. |

1. Available here <https://www.ons.gov.uk/economy/inflationandpriceindices/timeseries/chaw/mm23> [↑](#footnote-ref-1)