LFS User Workshop



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Session 2

Considerations when using the data

- Datasets scope/limitations
- What to know about weights
- What to know about variables
- Data linking/pooling

Dataset overview

- LFS person level data quarterly
- LFS <u>household level</u> data now all quarters
- LFS <u>longitudinal</u> data 2 quarters and 5 quarters
- APS <u>person level</u> data quarterly, covering 12 months
- APS <u>household level</u> data annually
- APS <u>3 year pooled</u> data annually
- Government level files
- Public files (now only end user licence)
- Data accessible from UK Data Archive/SRS
- Office for National Statistics

LFS Person level data

Purpose → Personal level analysis at a national or regional level

Frequency → Quarterly – official released around 6 weeks after the end of data collection period, available through UKDS/SRS several weeks later

Time periods → Normally released for calendar quarters only (e.g. Jan to March)

Availability → AJ92 to AJ01 (2007 weight)

JS01 to AJ11 (2014 weight)

JS11 to OD19 (2018 weight)

JM20 to current (2020 weight)

Weights → PWT (person analysis) and PIWT (earnings analysis)

Limitations → Not for analysis below regional level

No earnings information for self employed

Some variables are specific to certain quarters

Not for Well-Being, Sexual Orientation, Family/Household analysis



LFS longitudinal data for 2 quarters

Purpose → Conducting analysis on flows over 3 months

Frequency → Quarterly – official released around 6 weeks after the end of data collection period, available through UKDS/SRS several weeks later

Time periods → Two calendar quarters only (e.g. JM to AJ)

Availability → Q197-Q297 to Q101 –Q201 (2007 weight)

Q201-Q301 to Q211-Q311 (2014 weight)

Q311-Q411 to Q319-Q419 (2018 weight)

Q419-Q120 to current (2020 weight)

Weights → LGWT

Limitations → Only available for person level analysis

Only includes respondents who responded in both quarters

Only includes variables asked in both quarters

Doesn't contain all variables available on LFS person datasets



LFS longitudinal data for 5 quarters

Purpose

→ Conducting analysis on flows over 12 months

Frequency

→ Quarterly – official released around 6 weeks after the end of data collection period, available through UKDS/SRS several weeks later

Time periods → Five calendar quarters only (e.g. JM to AJ)

Availability

→ Q1'05-Q1'06 to Q2'10-Q2'11 (2010 weight)

Q3'10-Q3'11 to Q2'11 to Q2'12 (2014 weight)

Q2'12 –Q3'13 to Q4'18 to Q4'19 (2018 weight)

Q1'19 –Q1'20 onwards (2020 weight)

Weights

→ LGWT

Limitations

→ Only available for person level analysis

Only includes respondents who responded in all 5 quarters

As a result sample size drastically reduced

Doesn't contain all variables available on LFS person datasets



APS Person level data

Purpose → Personal level analysis below regional level or for

breakdowns on certain characteristics

Frequency → Quarterly – official released around 11 weeks after the end of data

collection period, available through UKDS/SRS several weeks later

Time periods → Rolling 12 months (e.g. January to December, April to March)

Availability → JD04 to JD11 (2014 weights)

A11M12 to JD19 (2018 weights)

A19M20 onwards (2020 weights)

Weights → PWTA (A05M onwards, before then PWAPS, PWLFS)

PIWTA (for earnings analysis) – JD only from 2012-17, all periods

from 2018 onwards

SIDWT (for Sexual Orientation analysis) – 2011 onwards

NPWT (for Personal Well-being analysis) – 2011 onwards

Limitations → Some LFS quarterly specific variables not available on APS



APS longitudinal data for 2 years

Purpose → Personal level analysis on flows below regional level over 12 months

Frequency → Annual

Time periods → January to December for two consecutive years

Availability → JD12 - JD13 to JD18 - JD19 (2018 weight)

JD19 - JD20 (2020 weight)

Weights → LGWT

Limitations → Only at person not household level

Only for a sub-set of variables

Only includes respondents who have responded in both years



APS 3-year pooled person level data

Purpose → Personal level analysis at lower level geographies and for

certain topics where achieved sample is much smaller

Frequency → annual – normally released around July every year

Time periods → January to December covering 3 years

Availability → JD13 to JD15 (2016 weight)

JD14 - JD16 to JD15 - JD17 (2017 weight)

JD16 - JD18 to JD17 to JD19 (2018 weight)

JD18 to JD20 (2020 weight)

Weights → PWTA**C, SIDWT**C and NPWT**C

Limitations → Point in time estimates and not to be used for any time series

analysis



LFS Household level data

Purpose → household/family level analysis at a national or regional level

Frequency → Quarterly - Officially released around 8 weeks after the end of data collection period, available through UKDS/SRS several weeks later

Time periods → Pre 2004 – Apr-Jun periods only;

Between 2004 and 2011 Apr-Jun and Oct-Dec only;

Quarterly from AJ12 onwards

Availability → AJ96 to AJ01 (2007 weight)

AJ02 to AJ11 (2014 weight)

OD11 to OD19 (2018 weight)

JM20 to current (2020 weight)

Weights → PHHWT

Limitations → Not suitable for household earning analysis as no earnings

household weight



APS Household level data

Purpose → Household and Family level analysis below regional level or for breakdowns on certain characteristics

Frequency → Annually - released around July every year

Time periods → January to December

Availability → JD04 to JD05 (2010 weight)

JD06 to JD11 (2014 weight)

JD12 to JD19 (2018 weight)

JD20 (2020 weight)

Weights → PHHWTA

Limitations → Some LFS variables are not available on APS datasets,

particularly LFS quarterly specific variables.

Not suitable for household earning analysis as no earnings

household weight



What to know about LFS/APS weights

- LFS/APS collects data on a representative sample of UK population
- Grossing weights are created to estimate for the rest of the UK population we don't sample and the survey design
- Historically weighting groupings have been by age, sex and geography
- Since the pandemic we've added Tenure and CoB adjustments to the weighting process
- Historically each individual represents around 800 people of similar characteristics (LFS person weights)
- Sum of the weights make up the eligible population in the UK
- Critical to make sure you use the appropriate weight for the analysis you are doing



What to know about variables

- Datasets contain questionnaire variables; derived variables; geography variables; system variables, all can be used for analysis
- Details of all variables can be found in UG2, UG3 and UG4
- Not all variables will be on all datasets.
 - Well-Being; Sexid; Smoking; Veterans; General Health; Quality of work APS only
 - Family and Household variables Household datasets only
 - Quarterly specific variables LFS datasets only
 - Reduced variables list on Longitudinal datasets
- Understand the variables you are using (e.g. periods; type; routing)
- Datasets will include 'missing values'
 - -9 means not routed to that specific question
 - -8 means respondent refused to answer question or answered don't' know



Data Pooling

- It isn't advised to carry out any dataset pooling yourself
- Pitfalls of doing this include no suitable weights and duplicate cases
- The LFS and APS datasets available should allow you to carry out all permitted analysis
- Caution with any data linking across waves
 - ✓ A unique case identifier (not available on EUL datasets)
 - ✓ Sex
 - ✓ DoB
- Name and address information not available on any LFS/APS datasets
- Pseudo identifiers available on LFS UKDS datasets



Which dataset to use when?

- Analysis on sexual orientation

 Analysis on wellbeing
 Analysis on earnings below reg. level
 Analysis on other topics below reg. level
 Analysis on earnings at or above reg. level
 Analysis on other topics at or above reg. level
 Analysis on other topics at or above reg. level
 Analysis on other topics at or above reg. level
 Analysis on other topics at or above reg. level
 - Longitudinal analysis below regional level → APS Person 2yr (LGWT)
 - Longitudinal analysis at or above regional level → LFS 2Q or 5Q (LGWT)
 - Analysis at hhold/family level below reg. level → APS Hhold (PHHWTA)
 - Analysis at hhold/family level at or above reg. level → LFS Hhold (PHHWT)



How to get started...

- Always refer to LFS/APS user guides first:
 - ➤ UG1 LFS (and some APS) Methodology
 - ➤ UG2 to UG4 Questionnaire and Derived Variables
 - ➤ UG5 Classifications (SIC/SOC)
 - >UG 6 APS
 - ➤ UG8 Household and family variables
 - ➤UG9 Eurostat
 - ➤ UG10 Advice on which dataset to use
 - ➤ UG11 Longitudinal
- Key things depending on your analysis:
 - ➤ Use the correct dataset
 - ➤ Use the correct weight
 - ➤ Use the correct variables



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