

Occupational Analysis – Issues and Examples

Grid Enabled Occupational Data Environment
GEODE Project workshop, 16th January 2007

Vernon Gayle
University of Stirling



GEODE, 16 Jan 2007



The Youth Cohort Study of England and Wales

Concentrate on one social survey
Youth Cohort Survey of England and Wales (YCS)



GEODE, 16 Jan 2007



The Youth Cohort Study of England and Wales

- * Major Longitudinal Study
- * Began in the Mid 1980s
- * Designed to monitor behaviour of young people as they reach the minimum school leaving age and either stay on in education or enter the labour market



GEODE, 16 Jan 2007



The Youth Cohort Study of England and Wales

- * UK Government survey
- * Originally Department of Education and Science – then inherited by various successors
- * Overall the survey is a monitoring instrument for Government – but has obvious social science potential



GEODE, 16 Jan 2007



The UK's Missing Birth Cohorts

The YCS is particularly important as a source of [nationally] representative information on young people

Helps to fill the data gap left by not having new cohorts of large-scale birth cohort data in the UK

(Gayle 2005)



GEODE, 16 Jan 2007



General Structure of the YCS

- * Postal Survey
- * Study contacts a sample from an academic year group (cohort) in the spring following completion of compulsory education
- * The sample is designed to be representative of all Year 11 pupils in England & Wales
- * Originally sample are tracked for 3 waves (called sweeps) of data collection



GEODE, 16 Jan 2007



YCS – Sampling

- * Sample was multi-stage cluster until wave 5
- * Simplified sample (approx 10%)
- * Documentation states SRS but Systematic Sample of days in the month of birth (e.g. 5th, 15th etc.)
- * YCS3 (1987) +16K young people



GEODE, 16 Jan 2007



YCS – Change and Stability

- * The questionnaire designed to be broadly comparable
- * External changes and shifts in policy interests have brought about changes
- * Changes – Major and Minor!



GEODE, 16 Jan 2007



YCS – Change and Stability

Cohorts	YEARS									
	85	86	87	88	89	90	91	92	93	94
1	1	2	3							
2		1	2	3						
3			1	2	3					4
4					1	2	3			
5							1	2	3	
6								1	2	3,4(a)



GEODE, 16 Jan 2007



YCS – Change and Stability

Cohort	Years										
	94	95	96	97	98	99	00	01	02	03	04
7	1		2								
8			1		2		3(a)				
9					1	2	3,4(a)				
10							1,2(a)		3		
11									1	2	3



GEODE, 16 Jan 2007



YCS – Complexity

- * Less in terms of sampling and individual survey design
- * More in terms of comparing cohorts



GEODE, 16 Jan 2007



Social Class and Education

- * The relationships between family background (social class) and education have been a policy for over 100 year in Britain (e.g. Foster Act 1870)
- * "In the past education has been fairly extensively analysed in terms of social class" (Reid 1998 p.157)
- * Research on social background typically measures social class as some function of parental (historically father's) occupation - Examples are legion



GEODE, 16 Jan 2007



Problems Relating to Occupational Information in YCS

* Generic problems to collecting, coding and translating occupational information in surveys

* Some specific to the YCS



GEODE, 16 Jan 2007



Examples from Questionnaires

* Parental information is collected

* Although the exact information collected has changed

* Usually information on job title and self-employment



GEODE, 16 Jan 2007



Examples from Questionnaires

* Remember that this is a postal questionnaire survey

* Asking a 16/17 year old about their parent's job

YCS 1 apprx 6130 Dads working full-time
apprx 5524 occupational codes (apprx 10% missing)



GEODE, 16 Jan 2007



Examples from Questionnaires

* Documentation is very poor especially in the older cohorts – usually handwritten annotation on questionnaires (pdf)

* Compare this with the BHPS for example



GEODE, 16 Jan 2007



Examples from Questionnaires YCS1

Which of the following apply to your parents (or step parents) —

Please tick one box for your father and one for your mother.

One code only in each column

	Father	Mother
— in a full-time job	<input type="checkbox"/>	<input type="checkbox"/>
— in a part-time job	<input type="checkbox"/>	<input type="checkbox"/>
— unemployed	<input type="checkbox"/>	<input type="checkbox"/>
— retired	<input type="checkbox"/>	<input type="checkbox"/>
— doing full-time housework	<input type="checkbox"/>	<input type="checkbox"/>
— something else (please describe):	<input type="checkbox"/>	<input type="checkbox"/>
— Not sure	<input type="checkbox"/>	<input type="checkbox"/>

4. Please tell us about your parents' (or step parents) jobs if they are not working at the moment please tell us about their most recent job

What is the name of the job? *1750 CLASSIFICATION OF OCCUPATIONS/EMPLOYMENT SECTOR*

What kind of work do they do? *SEE SEPARATE*

What sort of place or organisation do they work for (e.g. shop, factory, office, hospital, school etc.) *SEE SEPARATE*

Are they self-employed? Yes No



GEODE, 16 Jan 2007



Examples from Questionnaires YCS10

Please tell us about your parents (or step-parents).

	FATHER (STEPFATHER)	MOTHER (STEMOTHER)
a) Are your parents (or step-parents) employed full-time at the moment?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
b) What are their jobs? (if they are not working at the moment, please tell us about their most recent jobs)	<i>Handwritten job descriptions</i>	<i>Handwritten job descriptions</i>
c) Did he/she leave school at 15 or earlier?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
d) Did he/she obtain one or more A-levels?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
e) Does he/she have a degree?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>



GEODE, 16 Jan 2007



Examples of Analyses

- * Drew *et al.* (1992) analyses earlier data constructed a measure (Professional; Intermediate; Manual)
- * Gayle *et al.* (2000 & 2002) analysis of YCS 3 constructed a measure of family social class (highest - father or mother) using Registrar General
- * Raffae *et al.* (2006) undertaking cross-cohort analyses harmonised a variable based on NS-SEC (Managerial/Professional; Intermediate; Manual)
- * Connolly (2006) analysing YCS 9 & 10 relied on a modified version of Registrar General deposited with the data and a version of SEC for YCS11



GEODE, 16 Jan 2007



What is there?

- * Some early cohorts often code parental occupations using C080
- * Later cohorts use SOC90
- * Some cohorts do not included detail occupational codes
- * Generally there is self-employment information - but not detailed employment status information (e.g. Employers; Managers; Supervisors etc).



GEODE, 16 Jan 2007



What is there?

- Some cohorts include a SEG measure (e.g. standard 16 categories in YCS 7 – but there is no clear information on how these are derived)
- * Cohort 9 reports SEG but in practice this is a modified version of the Registrar General Schema with (Class I and Class II merged)
- * Parental occupation is normally asked in sweep 1 – YCS3 asks in sweep 2 and there is approx. 24% sample attrition
- * Later YCS cohorts – more thought into collection of appropriate data but data coding (and therefore translation) is still problematic



GEODE, 16 Jan 2007



What is the problem?

- * Varying quality of occupational information
- * Compared to some other surveys little attempt to sort out occupational information
- * Raffe *et al.* tried to work up a 'time-series' data set with a harmonised family social class measure – see also team member Croxford (2004)



GEODE, 16 Jan 2007



Can Geode help?

- * In principle yes – overall task of harmonisation
- * Definitely for YCS data depositors!
- * In practice Gayle *et al.* could have been helped directly in the construction of their family RG Social Class measure
- * In the talk only mentioned family social class – but there is also occupational information on young workers
- * In principle the GEODE idea could extend to qualifications – harmonising qualification is equally problematic in the YCS



GEODE, 16 Jan 2007


