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NATIONAL CENTER FOR EDUCATION STATISTICS

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User's Manual

September 1994

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NATIONAL EDUCATION LONGITUDINAL STUDY OF 1988

SECOND FOLLOW-UP: STUDENT COMPONENT  
DATA FILE USER'S MANUAL

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U.S. Department of Education  
Office of Educational Research and Improvement

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Steven J. Ingels  
Kathryn L. Dowd  
John D. Baldridge  
James L. Stipe  
Virginia H. Bartot  
Martin R. Frankel

National Opinion Research Center (NORC)  
at the University of Chicago

Peggy Quinn  
Project Officer  
National Center for Education Statistics

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U.S. Department of Education  
Office of Educational Research and Improvement

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U.S. Department of Education  
Richard W. Riley  
Secretary

Office of Educational Research and Improvement  
Sharon Robinson  
Assistant Secretary

National Center for Education Statistics  
Emerson J. Elliott  
Commissioner of Education Statistics

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"The purpose of the Center shall be to collect, and analyze, and disseminate statistics and other data related to education in the United States and in other nations."--Section 406(b) of the General Education Provisions Act, as amended (20 U.S.C. 1221e-1).

September 1994

Contact:  
Peggy Quinn  
(202) 219-1743

## Foreword

This manual has been produced to familiarize data users with the procedures followed for data collection and processing of the second follow-up student component of the National Education Longitudinal Study of 1988 (NELS:88). A corollary objective is to provide the necessary documentation for use of the data file.

Use of the data set does not require the analyst to be a sophisticated statistician or computer programmer. Most social scientists and policy analysts should find the data set organized and equipped in a manner that facilitates straightforward production of statistical summaries and analyses. This manual provides extensive documentation of the content of the data file and how to use it. **Chapter VII and Appendix I, in particular, contain essential information that allows the user to immediately proceed with minimal startup cost. A careful reading of Chapter VII and Appendix I will help users to avoid common mistakes that result in costly computer job failures or incorrect results.**

The rest of the manual provides a wide range of information on the design and conduct of the National Education Longitudinal Study of 1988 (NELS:88). Chapter I begins with an overview and history of NCES's National Education Longitudinal Studies program and the various studies that it comprises. Chapter II contains a general description of the data collection instruments used in the NELS:88 second follow-up.

The sample design and weighting procedures used in the second follow-up study are documented in Chapter III, as well as standard errors and design effects, non-sampling measurement errors, and problematic variables.

Data collection procedures, schedules, and results are presented in Chapter IV. Chapter V describes data control and preparation activities such as monitoring receipt of questionnaires, editing, and data retrieval. Chapter VI describes data processing activities including machine editing and construction of the cleaned data tape. Finally, Chapter VII describes the organization and contents of the data file and provides important suggestions for using it.

The appendices contain a list of other NCES NELS:88 publications; guidelines for Statistical Analysis System (SAS) users; the second follow-up student questionnaire; the record layout for the student questionnaire; specifications for the composite variables; the content areas of the second follow-up components; a glossary of project terms; a discussion of conducting cross-cohort trend analyses of students; and a codebook for the student questionnaire data.

In addition to the study described in this manual, a number of supplemental NELS:88 components are also described in Appendix A.

Earlier NCES longitudinal studies that may be of interest to NELLS:88 users are described in Appendix B including the following: the High School and Beyond (HS&B) base year files; merged HS&B first, second, third, and fourth follow-up files; related HS&B files; and assorted files related to the National Longitudinal Study of the High School Class of 1972 (NLS-72).

### **A Note on Data Use and Confidentiality**

The NELS:88 second follow-up data files are released in accordance with the provisions of the General Education Provisions Act (GEPA) [20-USC 122e 1] and the Carl D. Perkins Vocational Education Act. The GEPA assures privacy by ensuring that respondents will never be individually identified.

The National Center for Education Statistics (NCES) is responsible under the Privacy Act and Public Law 100-297 for protecting the confidentiality of individually identifiable respondents, and is releasing this data set to be used for statistical purposes only. Record matching or deductive disclosure by any user is prohibited.

To ensure that the confidentiality provisions contained in PL 100-297 and the Privacy Act have been fully implemented, procedures commonly applied for disclosure avoidance in other Government-sponsored surveys were used in preparing the data file associated with this manual. These include suppressing, abridging, and recoding identifiable variables. Every effort has been made to provide the maximum research information that is consistent with reasonable confidentiality protection. Deleted, abridged, and/or recoded variables appear with an explanatory footnote in the codebook attached to each user's manual.

## **Acknowledgements**

A study such as this is built first and foremost upon the students, dropouts, teachers, school administrators, and parents who have so generously provided its basic data. We are grateful for their cooperation. We also thank the considerable numbers of school personnel who have assisted in the implementation of NELS:88.

We wish to acknowledge the role of a number of other individuals in the realization of the aims of this study. Donald Rock and Judith Pollack of Educational Testing Service served as task leaders for cognitive test development. Miriam Clarke provided counsel on management issues in the main study. Leslie Scott contributed significantly to the conceptualization and development of file specifications and composite variables for the components of the study.

We are also grateful to the members of NCES staff in the Longitudinal and Household Studies Branch who worked closely with us on this project. Jeffrey Owings, chief of the Longitudinal and Household Studies Branch; Peggy Quinn, project officer for the second follow-up; as well as other branch staff--Ralph Lee, Shi-Chang Wu, and Jerry West--who contributed to various aspects of this study. Bob Burton of the Statistical Standards and Methodology Division supplied statistical advice and review.

Three individuals in other agencies have worked particularly hard and effectively to help realize and extend the potential of NELS:88. Larry Suter of the National Science Foundation, Dick Berry (formerly of the National Science Foundation), and Carmen Simich-Dudgeon (formerly of the Office of Bilingual Education and Minority Languages Affairs (OBEMLA) of the U.S. Department of Education). We are grateful for their efforts.

In addition, we would like to express our appreciation to the members of what began in the base year as our National Advisory Panel, and became in 1989 the NELS:88 Technical Review Panel. The panelists--Jerald G. Bachman, Gordon Ensign, Lyle V. Jones, Nancy Karweit, Richard J. Murnane, Patricia Shell, Marshall S. Smith, and John Stiglmeier--provided wise counsel on many difficult issues of design, instrumentation and implementation. As consultants to the second follow-up, Aaron Pallas, Joan Talbert, Leigh Burstein, Anthony Bryk, and Senta Raizen also contributed importantly to the design and ultimate success of the study.

Steven J. Ingels was overall NELS:88 second follow-up project director. Lisa Thalji was associate project director responsible for securing school cooperation and locating NELS:88 cohort members. Katy Dowd was associate project director responsible for the student component during data collection. Laura Reed and Virginia Bartot were the data processing managers, and Martin R. Frankel was the task leader for sampling and statistics.

The authors also wish to acknowledge those who contributed to the production of this manual. Kenneth A. Rasinski performed the confidentiality disclosure analysis for the NELS:88 Second Follow-Up. Additionally, Doug Barge, Michael Ma, Gloria Rauens, Supriti Sehra, Shio-Ling Tsai-Ma, and Hsiuling Young provided a great deal of their time and expertise to produce the statistics reported throughout the manual. Our appreciation is also extended to Karen Sutherlin and Cynthia Mathews for their patience and thoroughness in the production of the manuscript. Finally, we would like to thank the National Opinion Research Center field and telephone center interviewers and supervisors who with such energy and determination collected the NELS:88 data.

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## **Appendix I**

### **Guidelines for Using SAS with NELS:88 Second Follow-Up Student Data**

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## Guidelines for using SAS with NELLS:88 Second Follow-Up Student Data

The files provided for public release tapes include SAS cards and SAS system files for the NELLS:88 second follow-up. The SAS system file for each survey wave includes:

- 1) Questionnaire data
- 2) Flags, Weights and Composites

Users who plan to analyze NELLS:88 data on personal computers can seek counsel in the Guide to the NELLS:88 ECB/CD-ROM. The sections that follow pertain primarily to mainframe applications.

In the points below, methods to contain potential difficulties that may be encountered when using large data files with SAS are discussed.

1. Use the '(KEEP=...)' and '(DROP =...)' options in the 'SET' statement and/or in the 'DATA' statement when creating working data files so that unwanted variables are not included in the files. The '(KEEP =...)' option does not reorder the variables in the new data set.

The files are large and the SAS cards associated with all of the variables within a file require a great deal of memory. Eliminating unwanted variables and the cards associated with them will reduce the amount of memory necessary to run jobs.

2. Some of the label statements given in the student and dropout SAS card files may need to be eliminated because of SAS system limitations present at many computer installations.
3. *The large* number of VALUE statements in the PROC FORMAT section of the student and dropout SAS cards require that a special DD statement be placed just after the // EXEC SAS statement to increase the capacity of the format library during a SAS run:

```
//LIBRARY DD SPACE =(TRK,(25,25,60))
```

Since this may not be possible at some computer installations, it may be necessary to delete some VALUE statements.

4. When working with large files, it may be necessary to override the default work space with the following DD statement:

```
//WORK DD UNIT = SYSCR, SPACE =(CYL, (40,40))
```

Place the //WORK DD statement just after the // EXEC SAS statement (or after the //LIBRARY DD statement, if that is included as well).

5. *The* formats given in the PROC FORMAT step here are not permanently associated with each variable. Whenever they are needed for a procedure, it is necessary to include them in this PROC FORMAT step before the procedure(s) that will use them. The following example will help to illustrate this point.

Suppose you were interested in assessing the association between **fathers'** educational aspirations and a son's versus a daughter's educational **expectations**. That **is**, overall do **students'** expectations reflect their father's **aspirations**, and might such an association vary by **sex**? To do this you might construct a three-way **crosstab**.

In the following example **PROC FORMAT** is used first to make a temporary library of formats (**sets** of value labels). Then **PROC FREQ** is used to access the second follow-up student **SAS** system **file** and to create a three-way **crosstab**. The **FORMAT** statement in **PROC FREQ** links each variable in the **crosstab** to the appropriate set of value labels stored in the temporary format **library**.

```
// EXEC SAS
//LIBRARY DD SPACE =(TRK,(25,25,60))
//WORK DD UNIT=SYSCR,SPACE=(TRK,(1000,1000))
//IN1 DD DSN=ACT.PUBL.F2ST.SASLIB,DISP=SHR
//SYSIN DD *
```

```
OPTIONS DQUOTE;
```

```
PROC FORMAT;
VALUE SC42V
```

```
00 = "DOES NOT APPLY"
01 = "LESS THAN HS"
02 = "HS ONLY"
03 = "LESS 2YRS/SCHL"
04 = "2YRS MORE/SCHL"
05 = "TRADE SCHL DGREE"
06 = "LESS 2YRS CLLEGE"
07 = "MORE 2YRS CLLEGE"
08 = "FINISH COLLEGE"
09 = "MASTER'S DEGREE"
10 = "PH. D., M. D., OTHER"
11 = "DON'T KNOW"
96 = "MULT RESPONSE"
97 = "REFUSED"
98 = "MISSING"
99 = "LEGITIMATE SKIP"
```

```
VALUE SC44V
```

```
01 = "LESS THAN HS"
02 = "HS ONLY"
03 = "LESS 2YRS/SCHL"
04 = "MORE 2YRS/SCHL"
05 = "TRADE SCHL DGREE"
06 = "LESS 2YRS CLLEGE"
07 = "MORE 2YRS CLLEGE"
08 = "FINISH COLLEGE"
09 = "MASTER'S OR EQU"
```

```

10 = "PH. D., M. D., OTHER"
11 = "DON'T KNOW"
96 = "MULT RESPONSE"
97 = "REFUSED"
98 = "MISSING"
99 = "LEGITIMATE SKIP"
,
VALUE MC1V
1 = "MALE"
2 = "FEMALE"
,
PROC FREQ DATA=IN1.F2STUDNT;
FORMAT
F2S42A SC42V.
F2S43 SC44V.
F2SEX MC1V.
,
TABLES F2SEX * F2S42A * F2S43;
TITLE "DAD'S AND R'S EDUCATIONAL EXPECTATIONS BY R GENDER";

```

At the end of each SAS card file, there is a frequency procedure which contains FORMAT statements for every variable for which there is a format. These FORMAT statements can be used in any SAS procedure. However, if there are a large number of format links, they must be divided into several format statements to work. (Using about 90 format links in the format statement proved successful on the University of Chicago mainframe.)

6. Whenever variables are needed from several student level files (i.e., second follow-up student and base year student), the files may be merged by STU\_ID using SAS MERGE statements. A simple one line MERGE statement will put variables from separate files together in a single record for analysis.

The following second follow-up and base year example may help to illustrate the merge statement. Suppose you wanted to examine how the educational expectations of respondents who are still enrolled (in twelfth grade in 1992) and who completed a student questionnaires have changed since the eighth grade. To do this you might construct a three-way crosstab.

In the following example PROC FORMAT is used to make a temporary library of formats. Next the second follow-up student system file, and the base year system file are merged. Then, PROC FREQ is used to create a three-way crosstab. When merging two large files, it is helpful to use separate "KEEP =" statements for each file being combined.

```

// EXEC SAS
//LIBRARY DD SPACE=(TRK,(25,25,60))
//WORK DD UNIT=SYSCR,SPACE=(TRK,(1000,1000))
//IN1 DD DSN=ACT.PUBL.F2ST.SASLIB,DISP=SHR
//IN2 DD DSN=ACT.PUBL.BYST.SASLIB,DISP=SHR

```

//SYSIN DD \*

OPTIONS DQUOTE;

PROC FORMAT;

VALUE SC44V

01 = "LESS THAN HS"  
02 = "HS ONLY"  
03 = "LESS 2YRS/SCHL"  
04 = "MORE 2YRS/SCHL"  
05 = "TRADE SCHL DGREE"  
06 = "LESS 2YRS CLLEGE"  
07 = "MORE 2YRS CLLEGE"  
08 = "FINISH COLLEGE"  
09 = "MASTER'S OR EQU"  
10 = "PH. D., M. D., OTHER"  
11 = "DON'T KNOW"  
96 = "MULT RESPONSE"  
97 = "REFUSED"  
98 = "MISSING"  
99 = "LEGITIMATE SKIP"

,  
VALUE FC3V

0 = "DID NOT COMPLETE"  
1 = "STDNT QUEX CMPLT"  
2 = "DRP QUEX CMPLT"

,  
VALUE FBYS45V

01 = "WON'T FINISH H.S"  
02 = "WILL FINISH H.S"  
03 = "VOC,TRD,BUS AFTR H.S"  
04 = "WILL ATTEND COLLEGE"  
05 = "WILL FINISH COLLEGE"  
06 = "HIGHER SCH AFTR COLL"  
96 = "MULTIPLE RESPONSE"  
97 = "REFUSAL"  
98 = "MISSING"  
99 = "LEGITIMATE SKIP"

,

```
DATA COMBINE;  
MERGE IN1.F2STUDNT (KEEP =STU_ID F2S43 F2QFLG) IN2.BYSTUDNT  
(KEEP =STU_ID BYS45); BY STU_ID;
```

```
PROC FREQ;  
FORMAT  
F2S43 SC44V.  
F2QFLG FC3V.  
BYS45 FBYS45V.
```

```
TABLES F2QFLG * F2S43 * BYS45;  
TITLE "EDUCATIONAL EXPECTATIONS SINCE GRADE 8";
```

7. For very large files, the user may encounter problems when **sorting**. Various options may be added to the //EXEC SAS card to circumvent these **problems**. A suggested option is given below (**consult** the SAS manual for descriptions of these **options**):

```
// EXEC SAS,OPTIONS = 'NODYNALLOC',REGION=1280K,SORT=30
```

8. It is suggested that the user include the LENGTH statement when creating new **variables**, in order to save space and computer **memory**.
9. For many **tabulations**, PROC TABULATE produces the most readable **output**. The SAS user may use the format statements (**provided**) for classification variables to produce the row values of tabulated tables.
10. Output from SAS can be downloaded to personal computers for production of final **reports**. NCES has available a program for taking into account the sample design when computing standard errors. The **program**, known as CTAB, is a Taylor series-based routine that uses an ASCII file to compute standard errors for **cross-classifications**. The **program** also produces labeled tabular output suitable for use in **publications**. CTAB is available for use on **microcomputers**, and can be obtained through NCES.
11. Use the NCES- and NORC-**defined** composite and classification variables whenever possible to **simplify programming**. These classification variables were carefully constructed **and**, for many of **them**, sources of data **from** outside the student **questionnaire** were merged into the student data to construct the composites.
12. SAS and SPSS-X system files can now be converted at many computer **installations**. Contact your own facility to obtain the information necessary to create an SPSS-X file from SAS and vice **versa**.
13. There is a peculiarity with version 6.06 of SAS. The symbol "%" will not be printed in a variable label if the label is the first character to be printed on the **page**.