```
Name:        Stu_ID

Position:    1

Length:      6

Label:       Student ID


Description:

ID of the student linked to the institution.
```

| | | | Mean | Std Deviation |
Category	Min	Max	Unweighted	Unweighted
Continuous	101101	461234	289373.10	106784.09

```
Name:        BYNELS2M

Position:    226

Length:      5

Label:       ELS-NELS 1992 scale equated sophomore math score


Description:

This is an IRT estimated number right score that has been equated to

NELS:88 in 1992. In the 1992 round of NELS:88 (second follow-up),

base year and first follow-up scores were rescaled to take advantage

of full information from the entire testing program from 1988 to

1992. The ELS-NELS equated sophomore score (and also the

probability of proficiency scores) - because they are on the NELS:88

scale - can be used to measure cross-cohort change, such as

differences in tested achievement in mathematics and reading between

sophomores in 1990 and sophomores in 2002. Since HS&B has been

linked to the NELS:88 1990 scale only, BYNELS2M should not be used

for HS&B-NELS:88-ELS:2002 comparisons, but rather BYNELS0M

should be used for such comparisons.

Source: ELS:2002 Cognitive Tests
```

| | | | Mean | Std Deviation |
Category	Min	Max	Unweighted	Unweighted

Category	Min	Max	Mean Unweighted	Std Deviation Unweighted
Continuous	14.71	79.27	45.35	13.54

Name: BYNELS2R

Position: 231

Length: 5

Label: ELS-NELS 1992 scale equated sophomore reading score

Description:

This is an IRT estimated number right score that has been equated to

NELS:88 in 1992. In the 1992 round of NELS:88 (second follow-up),

base year and first follow-up scores were rescaled to take advantage

of full information from the entire testing program from 1988 to

1992. The ELS-NELS equated sophomore score (and also the

probability of proficiency scores) - because they are on the NELS:88

scale - can be used to measure cross-cohort change, such as

differences in tested achievement in mathematics and reading between

sophomores in 1990 and sophomores in 2002.

Source: ELS:2002 Cognitive Tests

Category	Min	Max	Mean Unweighted	Std Deviation Unweighted
Continuous	9.74	50.57	29.63	9.40

Name: BYSES1

Position: 145

Length: 5

Label: Socio-economic status composite, v.1

Description:

BYSES1 was previously named SES1 on the BY ECB.

Socio-economic status (SES), version 1.

NLS-72/HS&B/NELS:88-comparable composite variable constructed from parent questionnaire data when available and student substitutions when not. SES is based on five equally weighted, standardized components: father?s/guardian?s education (FATHED), mother?s/guardian?s education (MOTHED), family income (INCOME), father?s/guardian?s occupation (OCCUFATH), and mother?s/guardian?s occupation (OCCUMOTH). Each of these five composite variables that served as inputs to SES1 and SES2 were imputed if missing. See those variable descriptions for further detail.

An occupation prestige value was determined for OCCUMOTH and OCCUFATH. The 1961 Duncan index was used for determining the occupation prestige values for the SES1 variable. The parent questionnaire included parent occupation codes determined by the respondents themselves. If the occupation texts were left uncoded or if the student supplied the parent occupation text, project staff subsequently coded those occupations if possible. Missing occupations were imputed.

Parent education was based on parent report, or student report if parent data missing, imputed otherwise.

Income was based on parent questionnaire information, imputed otherwise.

SAS Code:

```
SES1    = -9 ;
SES1QU  = -9 ;
ses1no = 0 ; /* Counts the number of nonmissing variables - max number
= 5 */
/* Temporary variables occ_M, occ_F, edc_M, edc_F are used
for re-coding based on Duncan SEI (occ) and recalibration of
level of education to values used in NELS */
occ_M = . ;
/* Assigning Duncan SEI values to occ_M based on OCCUMOTH values */
if OCCUMOTH = 1      then occ_M = 56.58 ;
else if OCCUMOTH = 2  then occ_M = 27.41 ;
else if OCCUMOTH = 3  then occ_M = 28.00 ;
else if OCCUMOTH = 4  then occ_M = . ;
else if OCCUMOTH = 5  then occ_M = 7.33 ;
else if OCCUMOTH = 6  then occ_M = 67.73 ;
else if OCCUMOTH = 7  then occ_M = . ;
else if OCCUMOTH = 8  then occ_M = 19.18 ;
else if OCCUMOTH = 9  then occ_M = 70.21 ;
else if OCCUMOTH = 10 then occ_M = 70.21 ;
```

```
else if OCCUMOTH = 11 then occ_M = 49.70 ;

else if OCCUMOTH = 12 then occ_M = 38.00 ;

else if OCCUMOTH = 13 then occ_M = 54.42 ;

else if OCCUMOTH = 14 then occ_M = 70.21 ;

else if OCCUMOTH = 15 then occ_M = 15.90 ;

else if OCCUMOTH = 16 then occ_M = 61.40 ;

else if OCCUMOTH = 17 then occ_M = . ;

else                   occ_M = . ;

/* If occ_M is not missing, increment counter by 1. */

if occ_M ne . then ses1no = sum(ses1no, 1) ;

/* Father occupation */

occ_F = . ;

/* Assigning Duncan SEI values to occ_F based on OCCUFATH values */

if OCCUFATH = 1      then occ_F = 56.58 ;

else if OCCUFATH = 2  then occ_F = 27.41 ;

else if OCCUFATH = 3  then occ_F = 28.00 ;

else if OCCUFATH = 4  then occ_F = . ;

else if OCCUFATH = 5  then occ_F = 7.33 ;

else if OCCUFATH = 6  then occ_F = 67.73 ;

else if OCCUFATH = 7  then occ_F = . ;

else if OCCUFATH = 8  then occ_F = 19.18 ;

else if OCCUFATH = 9  then occ_F = 70.21 ;

else if OCCUFATH = 10 then occ_F = 70.21 ;

else if OCCUFATH = 11 then occ_F = 49.70 ;

else if OCCUFATH = 12 then occ_F = 38.00 ;

else if OCCUFATH = 13 then occ_F = 54.42 ;

else if OCCUFATH = 14 then occ_F = 70.21 ;

else if OCCUFATH = 15 then occ_F = 15.90 ;

else if OCCUFATH = 16 then occ_F = 61.40 ;

else if OCCUFATH = 17 then occ_F = . ;

else                   occ_F = . ;

/* If occ_F is not missing, increment counter by 1. */

if occ_F ne . then ses1no = sum(ses1no, 1) ;

/* Education data are obtained from MOTHED and FATHED */

if MOTHED in (1,2)      then edc_M = MOTHED ;

else if MOTHED in (3,4,5) then edc_M = 3 ;

else if MOTHED in (6)     then edc_M = 4 ;

else if MOTHED in (7)     then edc_M = 5 ;

else if MOTHED in (8)     then edc_M = 6 ;

if FATHED in (1,2)      then edc_F = FATHED ;
```

```
else if FATHED in (3,4,5) then edc_F = 3 ;

else if FATHED in (6)     then edc_F = 4 ;

else if FATHED in (7)     then edc_F = 5 ;

else if FATHED in (8)     then edc_F = 6 ;

/* If edc_M is not missing, increment counter by 1. */

if edc_M ne . then ses1no = sum(ses1no, 1) ;

/* If edc_F is not missing, increment counter by 1. */

if edc_F ne . then ses1no = sum(ses1no, 1) ;

/* If value of income doesn't exist then income imputed so

   income nonmissing for all cases and counter incremented */

ses1no = sum(ses1no, 1) ;

/* SAS procedure PROC STANDARD is used for creating standardized 'Z-

scores'. It reads in edc_M, edc_F, occ_M, occ_F, and Income and

created said scores. Values for each variable will have a mean of

zero and standard deviation of 1. Calculations are weighted using

BYSTUWT. */

Proc Standard data=SES1 out=SES1OUT M=0 STD=1 VARDEF=weight ;

Var edc_M edc_F occ_M occ_F Income;

Weight BYSTUWT ;

/* Create composite SES1QU by setting it equal to missing if SES1 is

missing, otherwise setting it equal to the quartile break points of

SES1. */

if ses1no = 0 then ses1pm = . ;

else do ;

subtot = sum(edc_M, edc_F, occ_M, occ_F, Income) ;

ses1pm = subtot / ses1no ;

end ;

if ses1pm ne . then SES1 = ses1pm ;

else SES1 = . ;

Source: ELS:2002 Parent Questionnaire; Student Questionnaire;

Imputation
```

Category	Min	Max	Mean Unweighted	Std Deviation Unweighted
Continuous	0	1.82	0.63	0.43

```
--------------------------------------------------------------------------------------------------

Name:       BYINCOME

Position:   143

Length:     2

Label:      Total family income from all sources 2001-composite


Description:

BYINCOME was previously named INCOME on the BY ECB.

Family income: the primary source was question BYP85 in the parent

questionnaire. If missing, the value was imputed (in the base

year for base year respondents; in the first follow-up for others).

See section 3.3 of the Base Year Data File User's Manual for a

discussion of the imputation procedures.

BYP85 item wording:

85. Which category does your total family income from all sources in

2001 fall into?  (If you are not sure about the amount, please

estimate.)

(MARK ONE RESPONSE)

None

$1,000 or less

$1,001 - $5,000

$5,001 - $10,000

$10,001 - $15,000

$15,001 - $20,000

$20,001 - $25,000

$25,001 - $35,000

$35,001 - $50,000

$50,001 - $75,000

$75,001 - $100,000

$100,001 - $200,000

$200,001 or more

Source: ELS:2002 Parent Questionnaire; Imputation
```

Category	Label	Frequency Unweighted	Percent Unweighted
1	None	80	0.49
2	$1,000 or less	178	1.10
3	$1,001-$5,000	305	1.88

4	$5,001-$10,000	351	2.17
5	$10,001-$15,000	699	4.32
6	$15,001-$20,000	782	4.83
7	$20,001-$25,000	1,000	6.17
8	$25,001-$35,000	1,894	11.69
9	$35,001-$50,000	3,022	18.66
10	$50,001-$75,000	3,316	20.47
11	$75,001-$100,000	2,178	13.45
12	$100,001-$200,000	1,810	11.17
13	$200,001 or more	582	3.59
TOTAL		16,197	100.00


```
Name:       BYRACE

Position:   75

Length:     2

Label:      Student's race/ethnicity-composite
```

Description:
BYRACE was previously named RACE on the BY ECB.
The race/Hispanic ethnicity variable is obtained from the student
questionnaire, when available; sampling roster, if missing on the
questionnaire; or parent questionnaire, if missing on the sampling
roster and parent respondent is biological parent. Race/ethnicity was
logically imputed from other questionnaire items (e.g., surname,
native language) if missing from all available sources. Race adheres
to the following definitions:
American Indian or Alaska Native, not Hispanic or Latino
(This category includes only persons who reported American Indian or
Alaska Native as their sole race and did not report Hispanic
ethnicity)
Asian, Hawaiian or other Pacific Islander, not Hispanic or Latino
(This category includes persons who reported Asian as their sole race,
but did not report Hispanic ethnicity. Additionally, Hawaiians and
Pacific Islanders are included in this category even though they were
collected separately, due to small reported numbers and to preserve
consistency with related longitudinal studies. The restricted-use
data file contains a variable which maintains a separate category for

Hawaiians/other Pacific Islanders.)

Black, not Hispanic or Latino

(This category includes only persons who reported Black as their sole

race, but did not report Hispanic ethnicity)

Hispanic, no race specified

(This category includes Hispanic or Latino ethnicity only. Race

information was not reported for these cases; only Hispanic

indication.)

Hispanic or Latino, regardless of race

(This category includes Hispanic or Latino ethnicity and any

combination of race)

More than one race, non-Hispanic

(This category includes only persons who reported two or more races

but did not report Hispanic ethnicity)

White, not Hispanic or Latino

(This category includes only persons who reported White as their sole

race but did not report Hispanic ethnicity)

The restricted file presents race as a series of five dichotomous

variables (the respondent is/is not White; is/is not Black, etc.).

The variables are: White, Black, American Indian/AN, Asian, Native

Hawaiian/PI. For disclosure risk reasons, simplified versions of race

appear on the public files, with NH/PI combined with Asian.

Source: ELS:2002 Student Questionnaire;Sampling;Parent Questionnaire

Category	Label	Frequency Unweighted	Percent Unweighted
1	Amer. Indian/Alaska Native, non-Hispanic	130	0.80
2	Asian, Hawaii/Pac. Islander,non-Hispanic	1,460	9.01
3	Black or African American, non-Hispanic	2,020	12.47
4	Hispanic, no race specified	996	6.15
5	Hispanic, race specified	1,221	7.54
6	More than one race, non-Hispanic	735	4.54
7	White, non-Hispanic	8,682	53.60
-8	Survey component legitimate skip/NA	305	1.88
-4	Nonrespondent	648	4.00
TOTAL		16,197	100.00

```
--------------------------------------------------------------------------------------------------

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Name:       BYPARED

Position:   131

Length:     2

Label:      Parents' highest level of education


Description:

BYPARED was previously named PARED on the BY ECB.

The highest level of education reached by either of the student's

parents. It is obtained from the parent questionnaire when available,

or from the student questionnaire if missing on the parent

questionnaire. The inputs are the composite variables MOTHED and

FATHED. Because MOTHED and FATHED were imputed if otherwise missing,

PARED is nonmissing for all student respondent cases.

SAS Code:

/* PARED is set to the higher of the two values (MOTHED and FATHED),

or missing if both MOTHED and FATHED are missing. */

if MOTHED>=FATHED then PARED=MOTHED;

else if FATHED>MOTHED then PARED=FATHED;

if PARED<0 then PARED=-9;

Source: ELS:2002 Parent Questionnaire; Student Questionnaire
```

Category	Label	Frequency Unweighted	Percent Unweighted
1	Did not finish high school	944	5.83
2	Graduated from high school or GED	3,053	18.85
3	Attended 2-year school, no degree	1,666	10.29
4	Graduated from 2-year school	1,597	9.86
5	Attended college, no 4-year degree	1,758	10.85
6	Graduated from college	3,468	21.41
7	Completed Master's degree or equivalent	1,786	11.03
8	Completed PhD, MD, other advanced degree	1,049	6.48
-9	Missing	49	0.30
-8	Survey component legitimate skip/NA	179	1.11
-4	Nonrespondent	648	4.00
TOTAL		16,197	100.00

Name: BYSEX

Position: 71

Length: 2

Label: Sex-composite

Description:

BYSEX was previously named SEX in the BY ECB.

Gender of student (male or female). Taken from student questionnaire

(BYS14) if available; if missing, then taken from (in order of

preference) school roster, logical imputation based on first name,

or statistical imputation otherwise. See section 3.3 of the Base Year

Data File User's Manual for a discussion of the imputation procedures.

1 Male

2 Female

Source: ELS:2002 Student Questionnaire; Sampling; Imputation

Category	Label	Frequency Unweighted	Percent Unweighted
1	Male	7,653	47.25
2	Female	7,717	47.64
-8	Survey component legitimate skip/NA	179	1.11
-4	Nonrespondent	648	4.00
TOTAL		16,197	100.00

Name: BYDOB_P

Position: 109

Length: 6

Label: Student's year and month of birth

Description:

BYDOB_P was previously named DOBIRTHP on the BY ECB.

Student month and year of birth as provided on question 13 of

student questionnaire. Date appears as YYYYMMDD with day (DD)

suppressed on public file. If the month is missing, then the

month is set to '00'(e.g., YYYY00). Years of 1980, 1981, or 1982

were set to 1983. Years of 1988 or 1989 were set to 1987. Dates

less than 1980 or greater than 1989 were set to missing.

Source: ELS:2002 Student Questionnaire

| | | | Mean | Std Deviation |
Category	Min	Max	Unweighted	Unweighted
Continuous	198300.00	198712.00	198560.33	61.10

Name: F1PSEPLN

Position: 904

Length: 2

Label: F1 postsecondary plans right after high school

Description:

Post-secondary plans right after high school are obtained from

a series of student level variables evaluating plans right after

high school (F1S45) or some time in the future (F1S47 and F1S49).

Early graduates are flagged if they are enrolled in an educational

institution (F1E43).

SAS code:

*Four-year college or university;

    if f1s49=1   then F1PSEPLN=5;

*Two-year community college;

else if f1s49=2   then F1PSEPLN=4;

*Vocational, technical, or trade school;

else if f1s49=3   then F1PSEPLN=3;

*Early grad already in school ;

else if f1e43=1   then F1PSEPLN=6;

*Don't plan to continue;

else if f1s47=1   then F1PSEPLN=1;

*Planning but type unspecified;

```
else if f1s45=1 or f1s47=2 or f1s47=5 or

        f1s47=3 or f1s47=4    then f1psepln=2;

else if f1s47=-3            then F1PSEPLN=-3;

else if f1s47=-8            then F1PSEPLN=-8;

else if f1s47=-4            then F1PSEPLN=-4;

else if F1QSTAT>0           then F1PSEPLN=-9;
```

Source: ELS:2002 First follow-up Student, Transfer, Homeschool,

and Early Graduate Questionnaires

		Frequency	Percent
Category	Label	Unweighted	Unweighted
--------------------	--	------------------	------------------
1	Don't plan to continue	207	1.28
2	Don't know or planning but unspecified	834	5.15
3	Vocational, technical, or trade school	986	6.09
4	Two-year community college	2,894	17.87
5	Four-year college or university	8,955	55.29
6	Early hs grad attending postsec school	326	2.01
-9	Missing	46	0.28
-8	Survey component legitimate skip/NA	818	5.05
-4	Nonrespondent	1,131	6.98
TOTAL		16,197	100.00

Name: F2EVRATT

Position: 2223

Length: 2

Label: Whether has ever attended a postsecondary institution - composite

Description:

This variable indicates whether the respondent has ever attended a

postsecondary institution since high school completion/exit; taken

directly from the second follow-up interview (F2B07) if available,

and imputed for second follow-up respondents if missing.

Applies to: All second follow-up respondents except current high

schoolers (i.e., applies to respondents where F2RTYPE = 1, 2, 3, 4, 5)

Source: ELS:2002 Second Follow-up Interview; Imputation.

```
                                                        Frequency             Percent

Category            Label                               Unweighted          Unweighted
------------------  -------------------------------------  ------------------  -------------------

0                   No                                         3,505               21.64

1                   Yes                                       10,534               65.04

-8                  Survey component legitimate skip/NA          359                2.22

-4                  Nonrespondent                              1,691               10.44

-3                  Item legitimate skip/NA                      108                0.67

TOTAL                                                         16,197              100.00
```


```
Name:      F2PS1SEC

Position:  2231

Length:    2

Label:     Sector of first postsecondary institution


Description:

Sector of the first "real" postsecondary institution attended (see

also F2PS1) as indicated by Integrated Postsecondary Education Data

System (IPEDS). For institutions with no IPEDS code, institutional

sector (if available) was provided by the respondent.

SAS Code:

/* check institution file to see if SM applied to

their first 'real' institution */

if F2PS1=F2IORDER then output;

/**/

F2PS1SEC = F2ISECTR;

If F2B07 <= 0 Then F2PS1SEC = -3;

If F2NRSTAT IN(1,2,3) Then F2PS1SEC = -4;

Else If F2NRSTAT IN(4,5,6) Then F2PS1SEC = -8;

If F2PS1SEC = . Then F2PS1SEC = -9;

Applies to: Second follow-up respondents who have attended a post-

secondary institution.

Source: ELS:2002 Second follow-up interview; Integrated Postsecondary

Education Data System (IPEDS)
```

		Frequency	Percent
Category	Label	Unweighted	Unweighted
1	Public, 4-year or above	4,178	25.79
2	Private not-for-profit, 4-year or above	2,135	13.18
3	Private for-profit, 4-year or above	176	1.09
4	Public, 2-year	3,465	21.39
5	Private not-for-profit, 2-year	42	0.26
6	Private for-profit, 2-year	184	1.14
7	Public, less than 2-year	114	0.70
8	Private not-for-profit, less than 2-year	25	0.15
9	Private for-profit, less than 2-year	165	1.02
-9	Missing	50	0.31
-8	Survey component legitimate skip/NA	359	2.22
-4	Nonrespondent	1,691	10.44
-3	Item legitimate skip/NA	3,613	22.31
TOTAL		16,197	100.00