



> Data Collected Through the ELS:2002



# Data Collected Through the ELS:2002

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> Data Collected Through the ELS:2002 > Module Objectives

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## Module Objectives

- Describe [ELS:2002 questionnaires](#)
- Describe the mathematics and reading assessments
- Present information on the response rates across the data collection rounds

> Data Collected Through the ELS:2002 > ELS:2002 Survey and Assessment Components

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## ELS:2002 Survey and Assessment Components

### Base Year survey Spring 2002 sophomores

- Student questionnaire
- Student assessments
  - Mathematics
  - Reading
- Parent questionnaire
- Teacher questionnaires
  - Mathematics
  - English
- Principal questionnaire
  - School information
- Library/media center questionnaire
- School facilities checklist

### First Follow-up survey Spring 2004 seniors

- Student questionnaires
  - Transfer student
  - Dropout
  - Early graduate
  - Home school
  - New student
- Student assessment
  - Mathematics
- Principal questionnaire

> Data Collected Through the ELS:2002 > ELS:2002 Student Background Information

00:02:27

## ELS:2002 Student Background Information

- Student Background information from sample students, parents, teachers, and school records were obtained during the base year and the first follow-up includes:
  - Race/ethnicity
  - Place and language of birth
  - English-speaking ability
  - Disabilities
  - Academic history (grades repeated, school transfers, early education)
  - Religion (parent only)
  - Parental education, occupation, and income
  - Family/household composition

> Data Collected Through the ELS:2002 > ELS:2002 School Climate Information

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## ELS:2002 School Climate Information

- School climate information from sample students, parents, principals, and school records were obtained during the base year and the first follow-up includes:
  - Positive/negative interactions among teachers/students
  - Incidence of crime, behavioral disruptions
  - School safety policies
  - School rules and disciplinary structure/enforcement
  - Academic press
  - Available technology, use by teachers
  - Teacher quality and rewards for good teaching

> Data Collected Through the ELS:2002 > ELS:2002 High School Structure Information

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## ELS:2002 High School Structure Information

- Information regarding school structure was obtained from principals during the base year and the first follow-up and included:
  - [School type](#) (19 types)
  - School calendar and class schedule
  - Differentiation of curriculum by ability, college-bound proportion
  - Special programs (such as dropout prevention)
  - School demographics (mainly race and poverty)
  - Graduation requirements and competency testing
  - Teacher qualifications
  - Principal's influence on policy areas

> Data Collected Through the ELS:2002 > ELS:2002 Student Behavior and Performance Information

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## ELS:2002 Student Behavior and Performance Information



- Student behavior and performance information from sample students, teachers, and transcripts were obtained during the base year and the first follow-up include:
  - Behavior infractions (absence, tardiness, suspension)
  - Preparation for class (homework completion)
  - Course completion and grade point averages
  - Honors and recognition
  - Achievement in mathematics and reading as assessed by ELS assessments

> Data Collected Through the ELS:2002 > The ELS:2002 Assessment Battery

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## The ELS:2002 Assessment Battery

- Provide measures of student achievement in reading and mathematics for individual students
  - Measured reading level of students at one point in time
  - Measured mathematics at two points in time, allowing for analysis of growth over time
  - [Item Response Theory \(IRT\)](#) methods were used to scale the items

> Data Collected Through the ELS:2002 > The ELS:2002 Assessment Battery (Continued)

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## **The ELS:2002 Assessment Battery (Continued)**

- Test specifications were derived from frameworks used for NELS:88
- To facilitate equating and constructing a cross-grade scale, many items were taken from NELS: 88, NAEP, and PISA
  - Equated to NELS:88 number right scale
  - Linked to NAEP 2005 12<sup>th</sup> grade mathematics scale (concordance)
  - Linked to PISA 2003 mathematics and PISA 2000 reading assessments (concordance)
- Some data available in public-use composites; many are restricted-use only

> Data Collected Through the ELS:2002 > ELS:2002 Reading and Mathematics Assessments

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## **ELS:2002 Reading and Mathematics Assessments**

- Mildly adaptive, vertically scaled (across grades)
  - Less susceptible to floor, ceiling effects
  - Better, more efficient assessment of student's particular level
  
- Reading 10<sup>th</sup> Grade
  - Topics: Literary content, natural and social science content
  - Processes: Reading comprehension
  
- Mathematics 10<sup>th</sup> and 12<sup>th</sup> grade
  - Topics: Arithmetic, algebra, geometry, data analysis/probability, and advanced topics
  - Processes: Skill/knowledge, understanding/comprehension, and problem-solving ability

> Data Collected Through the ELS:2002 > High School Transcripts

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## High School Transcripts

- Collected from base year school
- Transfer school if student transferred
- Provides a complete record of high school coursework
  - By course title, grade earned, year and term, grade in school
  - Coded according to [CSSC course classification scheme](#)

> Data Collected Through the ELS:2002 > High School Transcripts (Continued)

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## **High School Transcripts (Continued)**

- High school completion status
  - Diploma or certificate of attendance
  - Date of graduation or leaving school
- School course catalog also collected
- Grading system used
- Review Chapter 2 of the Data File User's Manual for more information on the [transcript sample](#)

> Data Collected Through the ELS:2002 > ELS:2002 Student Motivation and Engagement Information

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## **ELS:2002 Student Motivation and Engagement Information**

- Student motivation and engagement information from sample students during the base year and the first follow-up include:
  - Time investment in homework
  - Importance of grades
  - Perceptions of parents' expectations
  - Engagement, reasons for attending school
  - Mathematics and English self-efficacy
  - Control expectation, action control

> Data Collected Through the ELS:2002 > ELS:2002 Classroom Experience Information

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## ELS:2002 Classroom Experience Information

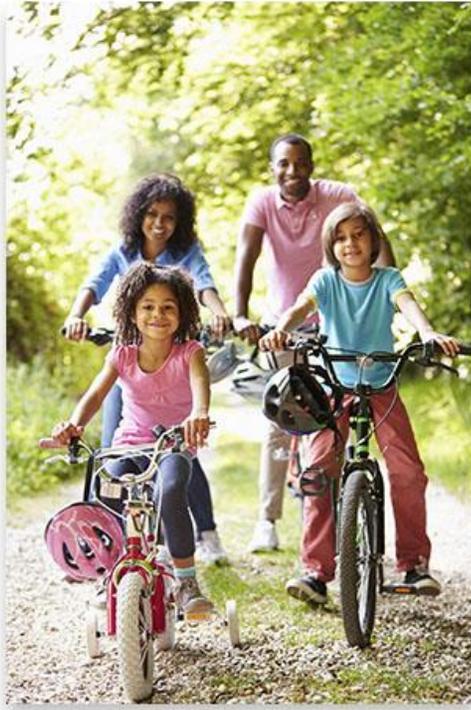


- Classroom experience information from sample students and teachers was obtained during the base year and the first follow-up includes:
  - Student participation in classroom activities
  - Student interaction with peers and teacher
  - Teacher education, certification, and experience
  - Teacher professional development
  - Participation in special programs
  - Computer use

> Data Collected Through the ELS:2002 > ELS:2002 Experiences Outside the Classroom

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## ELS:2002 Experiences Outside the Classroom



- Information about student experiences outside of the classroom were collected from students and parents during the base year and the first follow-up and include:
  - Participation in sports, clubs, hobbies, community service
  - Employment while in school
  - Family activities (cultural events, family routines)
  - Use of time (homework, reading, TV/video watching, hobbies/arts, with friends)

> Data Collected Through the ELS:2002 > ELS:2002 Social Capital Information

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## ELS:2002 Social Capital Information

- Social capital information from sample students, teachers, and parents were obtained during the base year and the first follow-up includes:
  - Social network (parents know friends and friends' parents)
  - Friends' values, expectations, and goals
  - Parent's involvement in school and parent/teacher contacts
  - Parent relationship (homework assistance, discussions with student)
  - Family rules

> Data Collected Through the ELS:2002 > ELS:2002 Plans and Expectations Information

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## **ELS:2002 Plans and Expectations Information**

- Plans and expectations → Students, teachers, parents
  - Educational and occupational expectations
  - Values for future life
  - Perceptions of other family members' values
  - College preparation (sources of information, entrance exam plans, financial saving, enrolled in college bound program)
  - Factors to be considered in deciding which college to attend

> Data Collected Through the ELS:2002 > ELS:2002 Survey Components

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## ELS:2002 Survey Components

### Second Follow-up (2006) *Two years after high school*

- Sample member questionnaire only
- Routing by postsecondary enrollment status (based on gate questions):
  - Standard enrollee
  - “Delayer”
  - “Leaver”
  - “Delayer-leaver”
  - Non-enrollee
  - HS student

### Third Follow-up (2012) *Eight years after high school*

- Sample member questionnaire only
- All components possible, based on gate questions

> Data Collected Through the ELS:2002 > ELS:2002 Second Follow-Up Topics

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## ELS:2002 Second Follow-Up Topics

- Focuses on the post-high school experience of sampled students
  - Reasons for college choice
  - College coursework
    - Initial field of study
    - Current major and minor fields of study
    - Remedial coursework
    - Adequacy of high school preparation
  - Academic and social integration
    - Faculty and advisor contact
    - Participation in extracurricular activities
    - Participation in sports
  - Enrollment intensity (full-time/part-time)
  - Means of financing enrollment
  - College work-study/other employment
  - Reasons not enrolled

> Data Collected Through the ELS:2002 > ELS:2002 Third Follow-Up Topics

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## ELS:2002 Third Follow-Up Topics

- Focuses on three main content areas
  - Attainment in education
  - Employment and occupation
  - Finances, family, and life events
- Attainment in education
  - Questionnaire data
    - High school completion/equivalency
    - Postsecondary enrollment
    - Educational aspirations and expectations
    - Educational financing and debt
  - Administrative data
    - Postsecondary transcripts
    - National Student Loan Data System (NSLDS) for federal loans, Pell
    - Central Processing System (CPS) for Free Application for Federal Student Aid (FAFSA) data
    - General Educational Development (GED) Testing Service (GEDTS) for GED receipt

> Data Collected Through the ELS:2002 > ELS:2002 Third Follow-Up Topics

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## ELS:2002 Third Follow-Up Topics



- Employment and occupation
  - Employment status and history
  - Job certification, licensure and training
  - Job satisfaction and benefits
- Finances, family, and life events
  - Income and assets
  - Family size, marital status and living arrangements
  - Civic participation (volunteerism and voting)
  - Life events (divorce, illness, childbearing)

> Data Collected Through the ELS:2002 > ELS:2002 Postsecondary Transcripts

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## **ELS:2002 Postsecondary Transcripts**

- Collected in 2013-2014
- Full enrollment history through 2012
  - All institutions indicated on transcripts, including those sample member omitted in survey
  - Graduate enrollment included
- Transcript composites will be produced
- Transcript data files expected to release in 2015

&gt; Data Collected Through the ELS:2002 &gt; ELS:2002 Response Rates

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## ELS:2002 Response Rates

Survey round response rates				
Survey	Eligible	Participated	Weighted percent	Unweighted percent
Base-year school sample	1,221	752	67.8	61.6
Base-year student questionnaire	17,591	15,362	87.3	87.3
First follow-up questionnaire	16,515	14,989	88.7	90.8
First follow-up high school transcripts	16,373	14,920	90.7	91.1
Second follow-up questionnaire	15,892	14,159	88.4	89.1
Third follow-up questionnaire	15,724	13,250	83.8	84.3
2002 sophomore cohort in 2012	15,568	13,133	83.9	84.4
2004 senior cohort in 2012	13,635	11,652	84.8	85.5

NOTE: Base-year student questionnaire and first follow-up questionnaire rates based on public release file. Second follow-up questionnaire and third follow-up questionnaire rates based on fielded in-scope cases.

SOURCE: U.S. Department of Education, National Center for Education Statistics. Education Longitudinal Study of 2002 (ELS:2002) Base Year to Third Follow-up.

> Data Collected Through the ELS:2002 > Summary

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## Summary

This module provided information about the data collected through the ELS:2002 and:

- Described ELS:2002 questionnaires
- Described the mathematics and reading assessments
- Described the response rates across the data collection rounds

> Data Collected Through the ELS:2002 > Resources

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## Resources

- [ELS:2002 questionnaires](#)
- [School Types Resource Document](#)
- [Item Response Theory \(IRT\)](#)
- [ELS:2002 Reading and Mathematics Assessments](#)
- [CSSC course classification scheme](#)
- [High School Transcripts](#)
- [Transcript sample](#)
- [ELS:2002 Response Rates](#)