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U.S. 2001 PIRLS NONRESPONSE BIAS ANALYSIS

Working Paper No. 2003-21

August 2003

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1. INTRODUCTION

The Progress in International Reading Literacy Study (PIRLS) is a large international comparative study of the reading literacy of young students. The student population for the U.S. 2001 PIRLS (hereafter simply referred to as PIRLS) was the set of all fourth-graders in the United States, corresponding to the grade in which the highest proportion of nine-year-olds are enrolled. The PIRLS school sample consisted of 200 schools (150 public and 50 private) containing a fourth grade, selected with probability proportionate to the school's enrollment of fourth-graders. One classroom was sampled from each selected school.

PIRLS was conducted in April and May 2001. For the original sample, the unweighted response rate at the school level was 62.5 percent, with 125 out of 200 schools responding. Through the use of replacements, the unweighted response rate was improved to 87 percent, with 174 out of 200 schools responding. However, as the response rate from the original sample was below 85 percent, NCES requested that Westat investigate the potential magnitude of nonresponse bias at the school level. The methodology and results of this investigation follow.

2. METHODOLOGY

There are at least two possible ways to analyze nonresponse bias given that replacement schools were used as substitutes for schools from the original sample that did not respond. One method is to base the analysis exclusively on the original sample of 200 schools and to treat all those that were substituted as nonrespondents. A second method is to base the analysis on the final sample of 200 schools (including replacements) and to treat as nonrespondents those schools from whom a final response was not received. The results of the first method are presented in section 3.1 of this report, while the results of the second method are contained in section 3.2.

In order to compare PIRLS respondents and nonrespondents it was necessary to match the sample of schools back to the sample frame to pick up as many characteristics as possible that might provide information about the presence of nonresponse bias. Comparing frame characteristics for respondents and nonrespondents is not always a good measure of nonresponse bias if the characteristics

are unrelated or weakly related to more substantive items in the survey, however this is often the only approach available. Frame characteristics were taken from the 1997–98 Common Core of Data (CCD) for public schools, and from the 1997–98 Private School Survey (PSS) for private schools. For categorical variables, response rates by characteristic were calculated. The hypothesis of independence between the characteristic and response status was tested using a Rao-Scott modified Chi-square statistic. For continuous variables, summary means were calculated. The 95 percent confidence interval for the difference between the mean for respondents and the mean for nonrespondents was tested to see whether or not it included zero. In addition to these tests, logistic regression models were set up to identify whether any of the frame characteristics were significant in predicting response status. All analyses were performed using WesVar and replicate weights to properly account for the complex sample design. The base weights used did not include a nonresponse adjustment factor. Due to the lack of primary sampling unit (PSU) information on the files received from the school sampling contractor, it was necessary to create replicate weights in WesVar assuming a two-stage design (schools, and classrooms within schools). The JK2 method was used, and the RS3 statistic was used for the Chi-square tests.

3. RESULTS

3.1 Original Sample

The following nonresponse bias analysis is based exclusively on the original sample of 200 schools. All schools that were substituted by a replacement were treated as nonrespondents, as were any nonresponding original schools that were not substituted. Standard errors are given throughout in parentheses.

Of initial interest was the relationship between response status and whether the school was public or private. Table 1 shows the relevant response rates. The test of independence gives RS3 = 0.403, with a p-value of 0.526. This indicates that there is no significant relationship between response status and public/private at the 5 percent level.

Catagory	Resp	onse rate
Category	Estimate (%)	Standard error (%)
Total	61.20	(6.302)
Public	64.31	(4.973)
Private	53.49	(14.698)

 Table 1.
 Original sample school response rate, by public/private and overall

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

3.1.1 Categorical Variables

The following characteristics were available for both public and private schools.

- Community type
- Public/religious affiliation
- Census region

Table 2 shows school response rates by community type. The test of independence gives RS3 = 0.523, with a p-value of 0.649. This indicates that there is no significant relationship between response status and community type at the 5 percent level.

Table 2.Original sample school response rate, by community type

Catagory	Response rate			
Category	Estimate (%)	Standard error (%)		
Central city	68.84	(6.518)		
Urban fringe or large town	56.86	(7.619)		
Rural or small town	61.00	(11.393)		

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

Table 3 shows school response rates by public/religious affiliation. The test of independence gives RS3 = 4.823, with a p-value of 0.072, however this must be interpreted with caution due to the presence of a cell with less than five observations. There is some evidence that Catholic schools were more likely to respond than others, but it is not significant at the 5 percent level.

Table 3.	Original	sample school	response rate,	by	public/religious	affiliation
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Catagory		Response rate	
Category	Estimate (%)	Standard error (%)	
Public	64.31	(4.973)	
Private—Catholic	90.09	(6.974)	
Private—Other religious	20.54	(14.063)	
Private—Non-sectarian	78.88	(39.113)	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

Table 4 shows school response rates by census region. The test of independence gives RS3 = 1.063, with a p-value of 0.624. This indicates that there is no significant relationship between response status and census region at the 5 percent level.

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Category		Response rate	
	Estimate (%)	Standard error (%)	
Northeast	58.98	(9.708)	
Midwest	73.67	(8.308)	
South	58.04	(11.549)	
West	59.60	(7.549)	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

3.1.2 Continuous Variables

The following characteristics were available for both public and private schools.

- Number of students enrolled in grade 4
- Total number of students
- Percentage Asian or Pacific Islander students
- Percentage Black, non-Hispanic students
- Percentage Hispanic students
- Percentage American Indian or Alaska Native students

- Percentage White, non-Hispanic students
- Ratio of total students to full-time equivalent (FTE) teachers

Table 5 shows the mean number of grade 4 students and the mean total number of students for responding and nonresponding schools.

 Table 5.
 Mean grade 4 enrollment and total students for original sample schools, by response status

Category	Respo	onding	Nonresponding		
Category	Estimate	Standard error	Estimate	Standard error	
Total number of students	415.17	(26.850)	386.32	(65.155)	
Students enrolled in grade 4	60.78	(4.754)	58.93	(10.794)	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

The difference in the mean grade 4 enrollment is 1.85, with a 95 percent confidence interval of (-22.23, 25.92). The confidence interval includes zero, therefore there is no evidence that the mean grade 4 enrollment of responding and nonresponding schools is significantly different at the 5 percent level.

The difference in the mean total students is 28.86, with a 95 percent confidence interval of (-115.64, 173.35). The confidence interval includes zero, therefore there is no evidence that the mean total enrollment of responding and nonresponding schools is significantly different at the 5 percent level.

Table 6 shows the mean race/ethnicity percentages for responding and nonresponding schools.

The difference in the mean percentage of Asian or Pacific Islander students is -0.35 percent, with a 95 percent confidence interval of (-2.31 percent, 1.60 percent). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean percentage of Asian or Pacific Islander students at the 5 percent level.

The difference in the mean percentage of Black, non-Hispanic students is 0.82 percent, with a 95 percent confidence interval of (-8.98 percent, 10.61 percent). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean percentage of Black, non-Hispanic students at the 5 percent level.

	Respon	ding	Nonresponding	
Category	Estimate (%)	Standard error (%)	Estimate (%)	Standard error (%)
Asian or Pacific Islander students	2.68	(0.640)	3.03	(0.759)
Black, Non-Hispanic students	13.60	(3.342)	12.79	(3.497)
Hispanic students	9.72	(1.915)	8.87	(2.063)
American Indian or Alaska Native students	2.89	(2.211)	0.52	(0.175)
White, Non-Hispanic students	71.06	(4.299)	74.74	(5.290)

 Table 6.
 Mean race/ethnicity percentages for original sample schools, by response status

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

The difference in the mean percentage of Hispanic students is 0.85 percent, with a 95 percent confidence interval of (-4.80 percent, 6.50 percent). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean percentage of Hispanic students at the 5 percent level.

The mean percentage of American Indian or Alaska Native students is 2.37 percent, with a 95 percent confidence interval of (-2.02 percent, 6.75 percent). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean percentage of American Indian or Alaska Native students at the 5 percent level.

The mean percentage of White, non-Hispanic students is -3.68 percent, with a 95 percent confidence interval of (-17.38 percent, 10.01 percent). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean percentage of White, non-Hispanic students at the 5 percent level.

Table 7 shows the mean ratio of total students to FTE teachers for responding and nonresponding schools. The difference in means is 2.94, with a 95 percent confidence interval of (-0.19, 6.06). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean ratio of total students to FTE teachers for responding and nonresponding schools, at the 5 percent level.

	Respo	nding	Nonresponding	
Category	Estimate	Standard	Estimate	Standard
	Estimate	error	Estimate	error
Ratio of total students to FTE teachers	16.15	(0.750)	13.21	(1.346)

Table 7. Mean ratio of total students to FTE teachers for original sample schools, by response status

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

For public schools only, another characteristic was available.

 Percentage of students eligible to participate in Free Lunch Program under the National School Lunch Act

Table 8 shows the mean percentage of students eligible for the Free Lunch Program for responding and nonresponding public schools. The difference in means is -6.66 percent, with a 95 percent confidence interval of (-18.53 percent, 5.21 percent). The confidence interval includes zero, however this must be interpreted with caution because the "free lunch" variable itself is missing for 35 out of the 150 public schools. The result suggests that the mean percentage of students eligible for the Free Lunch Program is not significantly different for responding and nonresponding public schools, at the 5 percent level.

 Table 8.
 Mean percentage of students eligible for Free Lunch Program for original sample schools, by response status: Public schools only

	Responding		Nonresponding	
Category	Estimate (%)	Standard error (%)	Estimate (%)	Standard error (%)
Students eligible for Free Lunch Program	34.10	(4.053)	40.76	(4.673)

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

For private schools only, the following characteristics were available.

- Number of FTE teachers
- Percent male students

Table 9 shows the mean number of FTE teachers responding and nonresponding private schools. The difference in means is -3.27, with a 95 percent confidence interval of (-14.31, 7.78). The

confidence interval includes zero, therefore there is no evidence of a significant difference in the mean number of FTE teachers at the 5 percent level.

	Responding Nonresponding			onding
Category	Estimate	Standard	Estimata	Standard
		error	Estimate	error
FTE teachers	13.76	(2.116)	17.02	(5.141)

Table 9.Mean number of FTE teachers for original sample schools, by response status: Private
schools only

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

Table 10 shows the mean percentage of male students for responding and nonresponding private schools. The difference in means is -8.06 percent, with a 95 percent confidence interval of (-13.71 percent, -2.41 percent). The confidence interval does not include zero, therefore there is evidence that the mean percentage of male students is lower for responding private schools at the 5 percent level of significance.

Table 10.Mean percentage of male students for original sample schools, by response status: Private
schools only

	Responding		Nonresponding	
Category	Estimate (%)	Standard error (%)	Estimate (%)	Standard error (%)
Male students	50.42	(1.614)	58.48	(2.277)

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

This result indicates a potential source of bias in the PIRLS survey results for private schools, related to gender composition of school. Unfortunately this characteristic was not available for analysis for public schools.

3.1.3 Logistic Regression Model

A logistic regression model was set up treating response status as the binary dependent variable and frame characteristics as the predictor variables. Response was treated as "success" and nonresponse as "failure."

Public and private schools were modeled together using the following 11 variables.

- Community type
- Public/religious affiliation
- Census region
- Number of students enrolled in grade 4
- Total number of students
- Percentage Asian or Pacific Islander students
- Percentage Black, non-Hispanic students
- Percentage Hispanic students
- Percentage American Indian or Alaska Native students
- Percentage White, non-Hispanic students
- Ratio of total students to FTE teachers

Initial model fitting was performed in SAS in order to make use of the stepwise model selection option. The only predictor variable to make it into the final model was public/religious affiliation. This model was refitted using WesVar to take proper account of the complex sample design and confirmed to be the most parsimonious model. The final estimated model was as follows.

$$\log\left(\frac{P(\text{Response})}{P(\text{Non - response})}\right) = 1.318 - 0.729 * \text{Public} + 0.890 * \text{Catholic} - 2.671 * \text{Other Religious}$$

In the above equation, "Public," "Catholic," and "Other Religious" are mutually exclusive indicator variables of the implied school characteristics. The negative "Public" and "Other Religious" parameter estimates indicate that public and other religious schools were less likely to respond to PIRLS. The positive "Catholic" parameter estimate indicates that Catholic schools were more likely to respond to PIRLS. Standard errors and tests of hypotheses for the model parameter estimates are presented in table 11.

Parameter	Estimate	Standard error	Test for H0: Parameter $= 0$	P-value
Intercept	1.318	1.7674	0.7457	0.4576
Public	-0.729	1.7806	-0.4095	0.6831
Catholic	0.890	1.9936	0.4463	0.6564
Other religious	-2.671	2.0857	-1.2805	0.2033

 Table 11.
 Final model parameters for original sample schools

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

When the model is fit in WesVar using correct standard error estimates, the p-values above indicate that there is no significant difference between the effect of the (omitted) reference category, private–non-sectarian, and any of the other three categories. However, the F-value measuring the overall fit of the model is 5.1684, with a p-value of 0.0023. This indicates that the public/religious affiliation characteristic is a significant predictor of the response status of schools at the 5 percent level of significance. This apparent contradiction is easily explained away by looking at an alternative parameterization of the model, where Catholic is treated as the reference category. Such an analysis shows that there is a significant difference in effect when Catholic is compared to public, or to private–other religious.

3.2 Final Sample

The following nonresponse bias analysis is based on the final sample of 200 schools, including replacements. All schools from whom a final response was not received were treated as nonrespondents. Through the use of replacements, the unweighted response rate was improved to 87 percent, with 174 out of 200 schools responding. Standard errors are given throughout in parentheses.

Of initial interest was the relationship between response status and whether the school was public or private. Table 12 shows the relevant response rates. The test of independence gives RS3 = 1.865, with a p-value of 0.172. This indicates that there is no significant relationship between response status and public/private at the 5 percent level.

Catagony	Respo	onse rate
Category	Estimate (%)	Standard error (%)
Total	91.97	(1.883)
Public	90.42	(2.313)
Private	95.64	(2.677)

 Table 12.
 Final sample school response rate, by public/private and overall

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

3.2.1 Categorical Variables

The following characteristics were available for both public and private schools.

- Community type
- Public/religious affiliation
- Census region

Table 13 shows school response rates by community type. The test of independence gives RS3 = 3.369, with a p-value of 0.180. This indicates that there is no significant relationship between response status and community type at the 5 percent level.

 Table 13.
 Final sample school response rate, by community type

Catagory		Response rate	
Category	Estimate (%)	Standard error (%)	
Central city	87.85	(4.416)	
Urban fringe or large town	88.35	(4.043)	
Rural or small town	95.40	(2.238)	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

Table 14 shows school response rates by public/religious affiliation. The RS3 test statistic cannot be computed because the table contains a cell with zero observations. The ordinary Pearson Chisquare test statistic (that does not take into account the complex sample design) equals 1.716, with a p-value of 0.633. This must also be interpreted with caution due to the presence of a cell with less than five observations, however it would suggest that there is no significant relationship between response status and public/religious affiliation at the 5 percent level.

Category	Response rate		
Category	Estimate (%)	Standard error (%)	
Public	90.42	(2.313)	
Private—Catholic	95.72	(4.096)	
Private—Other religious	94.81	(3.581)	
Private—Non-sectarian	100.0	(0.0)	

Table 14. Final sample school response rate, by public/religious affiliation

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

Table 15 shows school response rates by census region. The test of independence gives RS3 = 2.348, with a p-value of 0.485. This must be interpreted with caution due to the presence of a cell with less than five observations, however it would suggest that there is no significant relationship between response status and census region at the 5 percent level.

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Table 15	Final sample school	response rate	by census	region
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Category	Resp	onse rate
Category	Estimate (%)	Standard error (%)
Northeast	91.39	(4.079)
Midwest	93.61	(4.401)
South	94.14	(2.316)
West	86.18	(5.176)

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

3.2.2 Continuous Variables

The following characteristics were available for both public and private schools.

- Number of students enrolled in grade 4
- Total number of students
- Percentage Asian or Pacific Islander students

- Percentage Black, non-Hispanic students
- Percentage Hispanic students
- Percentage American Indian or Alaska Native students
- Percentage White, non-Hispanic students
- Ratio of total students to FTE teachers

Table 16 shows the mean number of grade 4 students and the mean total number of students for responding and nonresponding schools.

	Responding		Nonresponding	
Category	Estimate	Standard	Standard Estimate	
	erro			error
Total number of students	385.27	(31.822)	605.36	(40.449)
Students enrolled in grade 4	55.19	(5.162)	98.02	(7.916)

Table 16. Mean grade 4 enrollment and total students for final sample schools, by response status

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

The difference in the mean grade 4 enrollment is -42.83, with a 95 percent confidence interval of (-62.38, -23.28). The confidence interval does not include zero, therefore there is evidence that the mean grade 4 enrollment is lower for responding schools at the 5 percent level of significance.

The difference in the mean total students is -220.09, with a 95 percent confidence interval of (-328.05, -112.13). This confidence interval also excludes zero, therefore there is evidence that the mean total enrollment is lower for responding schools at the 5 percent level of significance.

These results indicate a potential source of bias in the PIRLS survey results, related to size of school.

Table 17 shows the mean race/ethnicity percentages for responding and nonresponding schools.

	Respon	ding	Nonresponding	
Category	Estimate (%)	Standard error (%)	Estimate (%)	Standard error (%)
Asian or Pacific Islander students	2.86	(0.501)	4.32	(1.492)
Black, Non-Hispanic students	14.22	(2.336)	13.57	(4.147)
Hispanic students	10.27	(1.779)	12.90	(4.057)
American Indian or Alaska Native students	1.94	(1.468)	1.26	(0.775)
White, Non-Hispanic students	70.67	(3.128)	67.95	(6.439)

Table 17. Mean race/ethnicity percentages for final sample schools, by response status

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

The difference in the mean percentage of Asian or Pacific Islander students is -1.46 percent, with a 95 percent confidence interval of (-4.62 percent, 1.71 percent). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean percentage of Asian or Pacific Islander students at the 5 percent level.

The difference in the mean percentage of Black, non-Hispanic students is 0.65 percent, with a 95 percent confidence interval of (-9.19 percent, 10.50 percent). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean percentage of Black, non-Hispanic students at the 5 percent level.

The difference in the mean percentage of Hispanic students is -2.63 percent, with a 95 percent confidence interval of (-11.58 percent, 6.32 percent). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean percentage of Hispanic students at the 5 percent level.

The difference in the mean percentage of American Indian or Alaska Native students is 0.68 percent, with a 95 percent confidence interval of (-2.41 percent, 3.78 percent). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean percentage of American Indian or Alaska Native students at the 5 percent level.

The difference in the mean percentage of White, non-Hispanic students is 2.72 percent, with a 95 percent confidence interval of (-11.07 percent, 16.51 percent). The confidence interval includes zero,

therefore there is no evidence of a significant difference in the mean percentage of White, non-Hispanic students at the 5 percent level.

Table 18 shows the mean ratio of total students to FTE teachers for responding and nonresponding schools. The difference in means is -2.39, with a 95 percent confidence interval of (-5.47, 0.68). The confidence interval includes zero, therefore there is no evidence of a significant difference in the mean ratio of total students to FTE teachers for responding and nonresponding schools, at the 5 percent level.

Table 18. Mean ratio of total students to FTE teachers for final sample schools, by response status

Category	Responding		Nonresponding	
	Estimate	Standard error	Estimate	Standard error
Ratio of total students to FTE teachers	15.69	(0.674)	18.08	(1.231)

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

For public schools only, another characteristic was available.

 Percentage of students eligible to participate in Free Lunch Program under the National School Lunch Act

Table 19 shows the mean percentage of students eligible for the Free Lunch Program for responding and nonresponding public schools. The difference in means is -9.66 percent, with a 95 percent confidence interval of (-19.66 percent, 0.34 percent). The confidence interval only just includes zero, however this must be interpreted with caution because the "free lunch" variable itself is missing for 35 out of the 150 public schools. The result suggests that the mean percentage of students eligible for the Free Lunch Program is not significantly different for responding and nonresponding public schools, at the 5 percent level.

	Responding		Nonresponding	
Category	Estimate (%)	Standard error (%)	Estimate (%)	Standard error (%)
Students eligible for Free Lunch Program	37.97	(3.136)	47.63	(3.741)

Table 19. Mean percentage of students eligible for Free Lunch Program for final sample schools, by response status: Public schools only

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

For private schools only, the following characteristics were available.

- Number of FTE teachers
- Percentage of male students

Table 20 shows the mean number of FTE teachers responding and nonresponding private schools. The difference in means is -22.18, with a 95 percent confidence interval of (-45.44, 1.08). The confidence interval only just includes zero. There is some evidence that the mean number of FTE teachers is lower for responding private schools, though it is not significant at the 5 percent level.

 Table 20.
 Mean number of FTE teachers for final sample schools, by response status: Private schools only

Catagory	Responding		Nonresponding	
Category	Estimate	Standard error	Estimate	Standard error
FTE teachers	11.96	(2.018)	34.14	(11.547)

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

Table 21 shows the mean percentage of male students for responding and nonresponding private schools. The difference in means is 3.23 percent, with a 95 percent confidence interval of (0.16 percent, 6.31 percent). The confidence interval does not include zero, therefore there is evidence that the mean percentage of male students is lower for responding private schools at the 5 percent level of significance.

	Respond	Nonresponding		
Category	Estimate (%)	Standard error (%)	Estimate (%)	Standard error (%)
Male students	50.42	(1.095)	47.18	(1.206)

Table 21. Mean percentage of male students for final sample schools, by response status: Private schools only

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

This result indicates a potential source of bias in the PIRLS survey results for private schools, related to gender composition of school. Unfortunately this characteristic was not available for analysis for public schools.

3.2.3 Logistic Regression Model

A logistic regression model was set up treating response status as the binary dependent variable and frame characteristics as the predictor variables. Response was treated as "success" and nonresponse as "failure."

Public and private schools were modeled together using the following 11 variables.

- Community type
- Public/religious affiliation
- Census region
- Number of students enrolled in grade 4
- Total number of students
- Percentage Asian or Pacific Islander students
- Percentage Black, non-Hispanic students
- Percentage Hispanic students
- Percentage American Indian or Alaska Native students
- Percentage White, non-Hispanic students

Ratio of total students to FTE teachers

Initial model fitting was performed in SAS in order to make use of the stepwise model selection option. The only predictor variable to make it into the final model was grade 4 enrollment. This model was refitted using WesVar to take proper account of the complex sample design and confirmed to be the most parsimonious model. The final estimated model was as follows.

$$\log\left(\frac{P(\text{Response})}{P(\text{Nonresponse})}\right) = 3.822 - 0.019 \text{ * Number of students enrolled in grade 4}$$

The negative "Number of students enrolled in grade 4" estimate indicates that schools with a higher number of students in grade 4 were less likely to respond to PIRLS. Standard errors and tests of hypotheses for the model parameter estimates are presented in table 22.

Parameter	Estimate	Standard error	Test for H0: Parameter = 0	P-value
Intercept	3.822	0.4420	8.6471	< 0.0001
Number of students enrolled in grade 4	-0.019	0.0037	-5.0338	< 0.0001

SOURCE: U.S. Department of Education, National Center for Education Statistics, Progress in International Reading Literacy Study, 2001.

The F-value measuring the overall fit of the model is 25.34, with a p-value < 0.0001. This indicates that the number of students enrolled in grade 4 is a significant predictor of the response status of schools, even at the 1 percent level of significance. This finding is consistent with the statistically significant difference in mean grade 4 enrollment by response status, considered previously.

3.2.4 Size of School and Reading Literacy

Given the findings presented earlier, it is important to question whether the substantive results of the survey differ according to size of school. (Obviously this relationship can only be analyzed for respondents.) If they do not, then there is less cause for concern over nonresponse bias. To this end, reading test scores were regressed against total school enrollment obtained from the PIRLS questionnaire. There was a statistically significant linear relationship, with the school enrollment parameter estimate

having a p-value of 0.0039. A quadratic relationship was also tested, but the higher order term was not significant. The value of the school enrollment parameter estimate in the linear model was -0.043, indicating a negative relationship between reading test scores and school size. Combining the facts that responding schools tended to be smaller in size than nonresponding schools, and that smaller schools seemed to do better in the reading literacy tests, it is possible that the PIRLS results overestimate students' reading abilities.

4. CONCLUSIONS

Westat's investigation into nonresponse bias at the school level for PIRLS has shown that there is no statistically significant relationship between response status and the majority of school characteristics that were available for analysis.

However, for the original sample of 200 schools, whether the school was public, private— Catholic, private—other religious, or private—non-sectarian, was a significant predictor of response status. Catholic schools were the most likely to respond, and private—other religious schools the least likely. Once replacements were used, this association was no longer apparent for the final sample of 200 schools.

The use of replacement schools did however seem to introduce a nonresponse bias that was not present in the original sample of schools. For the final sample, the number of students enrolled in grade 4 at the school was negatively related to response propensity. That is, schools with a higher number of students in grade 4 were less likely to respond. This effect may have been introduced if it was easier to get replacements to respond for smaller schools than it was for larger schools.

It is difficult to assess the amount of any bias that may have been introduced into the survey results as a result of the association just described. However, investigations into the association between reading test scores and school size indicated that smaller schools tended to do statistically significantly better than larger schools, leaving the possibility that school nonresponse has resulted in an upward bias in results.

One way of approximately quantifying this is as follows. After replacements, the nonresponding schools make up 8 percent of the population (table 12). On average they have an enrollment that is 220 students higher than responding schools (table 16). The regression model indicates that each extra student is associated with a decrease of 0.043 in mean achievement score. Together these imply that the score for students from nonresponding schools might be about 9.5 points lower than for students from responding schools, so that the school nonresponse bias might be in the order of 0.8 scale score points. This is before any mitigating effects of nonresponse bias adjustments. Thus even though there is a statistically significant relationship between school size and response status in the final sample, it seems very likely to have had a negligible impact on overall study results.

Listing of NCES Working Papers to Date

Working papers can be downloaded as .pdf files from the NCES Electronic Catalog (<u>http://nces.ed.gov/pubsearch/</u>). You can also contact Sheilah Jupiter at (202) 502–7363 (sheilah.jupiter@ed.gov) if you are interested in any of the following papers.

	Listing of NCES Working Papers by Program Area	
No.	Title	NCES contact
Baccalaure	ate and Beyond (B&B)	
98–15	Development of a Prototype System for Accessing Linked NCES Data	Steven Kaufman
2001-15	Baccalaureate and Beyond Longitudinal Study: 2000/01 Follow-Up Field Test Methodology Report	Andrew G. Malizio
2002-04	Improving Consistency of Response Categories Across NCES Surveys	Marilyn Seastrom
Beginning I	Postsecondary Students (BPS) Longitudinal Study	
98–11	Beginning Postsecondary Students Longitudinal Study First Follow-up (BPS:96–98) Field Test Report	Aurora D'Amico
98-15	Development of a Prototype System for Accessing Linked NCES Data	Steven Kaufman
1999–15	Projected Postsecondary Outcomes of 1992 High School Graduates	Aurora D'Amico
2001-04	Beginning Postsecondary Students Longitudinal Study: 1996–2001 (BPS:1996/2001) Field Test Methodology Report	Paula Knepper
2002-04	Improving Consistency of Response Categories Across NCES Surveys	Marilyn Seastrom
Common C	ore of Data (CCD)	
95-12	Rural Education Data User's Guide	Samuel Peng
96–19	Assessment and Analysis of School-Level Expenditures	William J. Fowler, Jr.
97-15	Customer Service Survey: Common Core of Data Coordinators	Lee Hoffman
97–43	Measuring Inflation in Public School Costs	William J. Fowler, Jr.
98-15	Development of a Prototype System for Accessing Linked NCES Data	Steven Kaufman
1999–03	Evaluation of the 1996–97 Nonfiscal Common Core of Data Surveys Data Collection, Processing, and Editing Cycle	Beth Young
2000-12	Coverage Evaluation of the 1994–95 Common Core of Data: Public Elementary/Secondary School Universe Survey	Beth Young
2000-13	Non-professional Staff in the Schools and Staffing Survey (SASS) and Common Core of Data (CCD)	Kerry Gruber
2002-02	School Locale Codes 1987 - 2000	Frank Johnson
Data Devel	opment	
2000–16a	Lifelong Learning NCES Task Force: Final Report Volume I	Lisa Hudson
2000–16b	Lifelong Learning NCES Task Force: Final Report Volume II	Lisa Hudson
Decennial (Census School District Project	
95-12	Rural Education Data User's Guide	Samuel Peng
96–04	Census Mapping Project/School District Data Book	Tai Phan
98–07	Decennial Census School District Project Planning Report	Tai Phan

No.	Title	NCES contact
Early Child	lhood Longitudinal Study (ECLS)	
96–08	How Accurate are Teacher Judgments of Students' Academic Performance?	Jerry West
96–18	Assessment of Social Competence, Adaptive Behaviors, and Approaches to Learning with	Jerry West
	Young Children	
97–24	Formulating a Design for the ECLS: A Review of Longitudinal Studies	Jerry West
97–36	Measuring the Quality of Program Environments in Head Start and Other Early Childhood	Jerry West
	Programs: A Review and Recommendations for Future Research	
1999–01	A Birth Cohort Study: Conceptual and Design Considerations and Rationale	Jerry West
2000-04	Selected Papers on Education Surveys: Papers Presented at the 1998 and 1999 ASA and	Dan Kasprzyk
	1999 AAPOR Meetings	
2001-02	Measuring Father Involvement in Young Children's Lives: Recommendations for a	Jerry West
	Fatherhood Module for the ECLS-B	
2001-03	Measures of Socio-Emotional Development in Middle Childhood	Elvira Hausken
2001-06	Papers from the Early Childhood Longitudinal Studies Program: Presented at the 2001	Jerry West
	AERA and SRCD Meetings	
2002-05	Early Childhood Longitudinal Study-Kindergarten Class of 1998-99 (ECLS-K),	
	Psychometric Report for Kindergarten Through First Grade	Elvira Hausken
Education 1	Finance Statistics Center (EDFIN)	
94–05	Cost-of-Education Differentials Across the States	William J. Fowler, Jr.
96–19	Assessment and Analysis of School-Level Expenditures	William J. Fowler, Jr.
97–43	Measuring Inflation in Public School Costs	William J. Fowler, Jr.
98–04	Geographic Variations in Public Schools' Costs	William J. Fowler, Jr.
1999–16	Measuring Resources in Education: From Accounting to the Resource Cost Model Approach	William J. Fowler, Jr.
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1999-03	Trocedures Guide for Transcript Studies	Dawn Nelson
1999-06	1998 Revision of the Secondary School Taxonomy	Dawn Nelson
2002-04	Improving Consistency of Response Categories Across NCFS Surveys	Marilyn Seastrom
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1999–05	Procedures Guide for Transcript Studies	Dawn Nelson
1999–06	1998 Revision of the Secondary School Taxonomy	Dawn Nelson
2001–07	A Comparison of the National Assessment of Educational Progress (NAEP), the Third International Mathematics and Science Study Repeat (TIMSS-R), and the Programme for International Student Assessment (PISA)	Arnold Goldstein
2001-08	Assessing the Lexile Framework: Results of a Panel Meeting	Sheida White
2001-11	Impact of Selected Background Variables on Students' NAEP Math Performance	Arnold Goldstein
2001-13	The Effects of Accommodations on the Assessment of LEP Students in NAEP	Arnold Goldstein
2001–19	The Measurement of Home Background Indicators: Cognitive Laboratory Investigations of the Responses of Fourth and Eighth Graders to Questionnaire Items and Parental Assessment of the Invasiveness of These Items	Arnold Goldstein
2002-04	Improving Consistency of Response Categories Across NCES Surveys	Marilyn Seastrom
2002-06	The Measurement of Instructional Background Indicators: Cognitive Laboratory Investigations of the Responses of Fourth and Eighth Grade Students and Teachers to Questionnaire Items	Arnold Goldstein
2003-06	NAEP Validity Studies: The Validity of Oral Accommodation in Testing	Patricia Dabbs
2003-07	NAEP Validity Studies: An Agenda for NAEP Validity Research	Patricia Dabbs
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2003-10	A Content Comparison of the NAEP and PIRLS Fourth-Grade Reading Assessments	Marilyn Binkley
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2003-16	NAEP Validity Studies: Implications of Electronic Technology for the NAEP Assessment	Patricia Dabbs
2003-17	NAEP Validity Studies: The Effects of Finite Sampling on State Assessment Sample Requirements	Patricia Dabbs
2003-19	NAEP Quality Assurance Checks of the 2002 Reading Assessment Results of Delaware	Janis Brown
National E	ducation Longitudinal Study of 1988 (NELS:88)	
95–04	National Education Longitudinal Study of 1988: Second Follow-up Questionnaire Content Areas and Research Issues	Jeffrey Owings
95–05	National Education Longitudinal Study of 1988: Conducting Trend Analyses of NLS-72, HS&B, and NELS:88 Seniors	Jeffrey Owings
95–06	National Education Longitudinal Study of 1988: Conducting Cross-Cohort Comparisons Using HS&B, NAEP, and NELS:88 Academic Transcript Data	Jeffrey Owings
95–07	National Education Longitudinal Study of 1988: Conducting Trend Analyses HS&B and NELS:88 Sophomore Cohort Dropouts	Jeffrey Owings
95-12	Rural Education Data User's Guide	Samuel Peng
95–14	Empirical Evaluation of Social, Psychological, & Educational Construct Variables Used in NCES Surveys	Samuel Peng
96–03	National Education Longitudinal Study of 1988 (NELS:88) Research Framework and Issues	Jeffrey Owings
98–06	National Education Longitudinal Study of 1988 (NELS:88) Base Year through Second Follow-Up: Final Methodology Report	Ralph Lee

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98-09	High School Curriculum Structure: Effects on Coursetaking and Achievement in	Jeffrey Owings
	Mathematics for High School Graduates-An Examination of Data from the National	
	Education Longitudinal Study of 1988	
98-15	Development of a Prototype System for Accessing Linked NCES Data	Steven Kaufman
1999–05	Procedures Guide for Transcript Studies	Dawn Nelson
1999–06	1998 Revision of the Secondary School Taxonomy	Dawn Nelson
1999–15	Projected Postsecondary Outcomes of 1992 High School Graduates	Aurora D'Amico
2001-16	Imputation of Test Scores in the National Education Longitudinal Study of 1988	Ralph Lee
2002-04	Improving Consistency of Response Categories Across NCES Surveys	Marilyn Seastrom
2003–01	Mathematics, Foreign Language, and Science Coursetaking and the NELS:88 Transcript Data	Jeffrey Owings
2003-02	English Coursetaking and the NELS:88 Transcript Data	Jeffrey Owings
2003-18	Report for Computation of Balanced Repeated Replicate (BRR) Weights for the Third (NELS88:1994) and Fourth (NELS88:2000) Follow-up Surveys	Dennis Carroll
National H	ousehold Education Survey (NHES)	
95–12	Rural Education Data User's Guide	Samuel Peng
96–13	Estimation of Response Bias in the NHES:95 Adult Education Survey	Steven Kaufman
96–14	The 1995 National Household Education Survey: Reinterview Results for the Adult Education Component	Steven Kaufman
96–20	1991 National Household Education Survey (NHES:91) Questionnaires: Screener, Early Childhood Education, and Adult Education	Kathryn Chandler
96–21	1993 National Household Education Survey (NHES:93) Questionnaires: Screener, School Readiness, and School Safety and Discipline	Kathryn Chandler
96–22	1995 National Household Education Survey (NHES:95) Questionnaires: Screener, Early Childhood Program Participation, and Adult Education	Kathryn Chandler
96–29	Undercoverage Bias in Estimates of Characteristics of Adults and 0- to 2-Year-Olds in the 1995 National Household Education Survey (NHES:95)	Kathryn Chandler
96–30	Comparison of Estimates from the 1995 National Household Education Survey (NHES:95)	Kathryn Chandler
97–02	Telephone Coverage Bias and Recorded Interviews in the 1993 National Household Education Survey (NHES:93)	Kathryn Chandler
97–03	1991 and 1995 National Household Education Survey Questionnaires: NHES:91 Screener, NHES:91 Adult Education, NHES:95 Basic Screener, and NHES:95 Adult Education	Kathryn Chandler
97–04	Design, Data Collection, Monitoring, Interview Administration Time, and Data Editing in the 1993 National Household Education Survey (NHES:93)	Kathryn Chandler
97–05	Unit and Item Response, Weighting, and Imputation Procedures in the 1993 National Household Education Survey (NHES:93)	Kathryn Chandler
97–06	Unit and Item Response, Weighting, and Imputation Procedures in the 1995 National Household Education Survey (NHES:95)	Kathryn Chandler
97–08	Design, Data Collection, Interview Timing, and Data Editing in the 1995 National Household Education Survey	Kathryn Chandler
97–19	National Household Education Survey of 1995: Adult Education Course Coding Manual	Peter Stowe
97–20	National Household Education Survey of 1995: Adult Education Course Code Merge Files User's Guide	Peter Stowe
97–25	1996 National Household Education Survey (NHES:96) Questionnaires: Screener/Household and Library, Parent and Family Involvement in Education and Civic Involvement, Youth Civic Involvement, and Adult Civic Involvement	Kathryn Chandler
97–28	Comparison of Estimates in the 1996 National Household Education Survey	Kathryn Chandler
97–34	Comparison of Estimates from the 1993 National Household Education Survey	Kathryn Chandler

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97–38	Reinterview Results for the Parent and Youth Components of the 1996 National Household Education Survey	Kathryn Chandler
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97–40	Unit and Item Response Rates, Weighting, and Imputation Procedures in the 1996 National Household Education Survey	Kathryn Chandler
98–03	Adult Education in the 1990s: A Report on the 1991 National Household Education Survey	Peter Stowe
98–10	Adult Education Participation Decisions and Barriers: Review of Conceptual Frameworks and Empirical Studies	Peter Stowe
2002-04	Improving Consistency of Response Categories Across NCES Surveys	Marilyn Seastrom
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96–17	National Postsecondary Student Aid Study: 1996 Field Test Methodology Report	Andrew G. Malizio
2000-17	National Postsecondary Student Aid Study:2000 Field Test Methodology Report	Andrew G. Malizio
2002-03	National Postsecondary Student Aid Study, 1999–2000 (NPSAS:2000), CATI Nonresponse Bias Analysis Report.	Andrew Malizio
2002-04	Improving Consistency of Response Categories Across NCES Surveys	Marilyn Seastrom
2003–20	Imputation Methodology for the National Postsecondary Student Aid Study: 2004	James Griffith
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98–15	Development of a Prototype System for Accessing Linked NCES Data	Steven Kaufman
2000-01	1999 National Study of Postsecondary Faculty (NSOPF:99) Field Test Report	Linda Zimbler
2002-04	Improving Consistency of Response Categories Across NCES Surveys	Marilyn Seastrom
2002–08	A Profile of Part-time Faculty: Fall 1998	Linda Zimbler
Postsecond	ary Education Descriptive Analysis Reports (PEDAR)	
2000-11	Financial Aid Profile of Graduate Students in Science and Engineering	Aurora D'Amico
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95–16	Intersurvey Consistency in NCES Private School Surveys	Steven Kaufman
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96–16	Strategies for Collecting Finance Data from Private Schools	Stephen Broughman
96–26	Improving the Coverage of Private Elementary-Secondary Schools	Steven Kaufman
96–27	Intersurvey Consistency in NCES Private School Surveys for 1993–94	Steven Kaufman
97–07	The Determinants of Per-Pupil Expenditures in Private Elementary and Secondary Schools: An Exploratory Analysis	Stephen Broughman
97–22	Collection of Private School Finance Data: Development of a Questionnaire	Stephen Broughman
98-15	Development of a Prototype System for Accessing Linked NCES Data	Steven Kaufman
2000-04	Selected Papers on Education Surveys: Papers Presented at the 1998 and 1999 ASA and 1999 AAPOR Meetings	Dan Kasprzyk
2000-15	Feasibility Report: School-Level Finance Pretest, Private School Questionnaire	Stephen Broughman

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Progress in	ı International Reading Literacy Study (PIRLS)		
2003–05	PIRLS-IEA Reading Literacy Framework: Comparative Analysis of the 1991 IEA Reading Study and the Progress in International Reading Literacy Study	Laurence Ogle	
2003-10	A Content Comparison of the NAEP and PIRLS Fourth-Grade Reading Assessments	Marilyn Binkley	
2003-21	U.S. 2001 PIRLS Nonresponse Bias Analysis	Laurence Ogle	
Recent Col	llege Graduates (RCG)		
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2002-04	Improving Consistency of Response Categories Across NCES Surveys	Marilyn Seastrom	
Schools and	d Staffing Survey (SASS)		
94–01	Schools and Staffing Survey (SASS) Papers Presented at Meetings of the American Statistical Association	Dan Kasprzyk	
94-02	Generalized Variance Estimate for Schools and Staffing Survey (SASS)	Dan Kasprzyk	
94-03	1991 Schools and Staffing Survey (SASS) Reinterview Response Variance Report	Dan Kasprzyk	
94–04	The Accuracy of Teachers' Self-reports on their Postsecondary Education: Teacher Transcript Study, Schools and Staffing Survey	Dan Kasprzyk	
94–06	Six Papers on Teachers from the 1990–91 Schools and Staffing Survey and Other Related Surveys	Dan Kasprzyk	
95–01	Schools and Staffing Survey: 1994 Papers Presented at the 1994 Meeting of the American Statistical Association	Dan Kasprzyk	
95–02	QED Estimates of the 1990–91 Schools and Staffing Survey: Deriving and Comparing OED School Estimates with CCD Estimates	Dan Kasprzyk	
95-03	Schools and Staffing Survey: 1990–91 SASS Cross-Ouestionnaire Analysis	Dan Kasprzyk	
95-08	CCD Adjustment to the 1990–91 SASS: A Comparison of Estimates	Dan Kasprzyk	
95-09	The Results of the 1993 Teacher List Validation Study (TLVS)	Dan Kasprzyk	
95–10	The Results of the 1991–92 Teacher Follow-up Survey (TFS) Reinterview and Extensive Reconciliation	Dan Kasprzyk	
95–11	Measuring Instruction, Curriculum Content, and Instructional Resources: The Status of Recent Work	Sharon Bobbitt John Ralph	&
95-12	Rural Education Data User's Guide	Samuel Peng	
95–14	Empirical Evaluation of Social, Psychological, & Educational Construct Variables Used in NCES Surveys	Samuel Peng	
95–15	Classroom Instructional Processes: A Review of Existing Measurement Approaches and Their Applicability for the Teacher Follow-up Survey	Sharon Bobbitt	
95-16	Intersurvey Consistency in NCES Private School Surveys	Steven Kaufman	
95–18	An Agenda for Research on Teachers and Schools: Revisiting NCES' Schools and Staffing Survey	Dan Kasprzyk	
96–01	Methodological Issues in the Study of Teachers' Careers: Critical Features of a Truly	Dan Kasprzyk	
96–02	Schools and Staffing Survey (SASS): 1995 Selected papers presented at the 1995 Meeting	Dan Kasprzyk	
96_05	Cognitive Research on the Teacher Listing Form for the Schools and Staffing Survey	Dan Kasprzyk	
96_05	The Schools and Staffing Survey (SASS) for 1008_00. Design Recommendations to	Dan Kaspizyk	
20-00	Inform Broad Education Policy	Бан казрідук	
96–07	Should SASS Measure Instructional Processes and Teacher Effectiveness?	Dan Kasprzyk	
96–09	Making Data Relevant for Policy Discussions: Redesigning the School Administrator Questionnaire for the 1998–99 SASS	Dan Kasprzyk	
96-10	1998–99 Schools and Staffing Survey: Issues Related to Survey Depth	Dan Kasprzyk	

No.	Title	NCES contact
96-11	Towards an Organizational Database on America's Schools: A Proposal for the Future of	Dan Kasprzyk
	SASS, with comments on School Reform, Governance, and Finance	
96-12	Predictors of Retention, Transfer, and Attrition of Special and General Education	Dan Kasprzyk
	Teachers: Data from the 1989 Teacher Followup Survey	
96-15	Nested Structures: District-Level Data in the Schools and Staffing Survey	Dan Kasprzyk
96–23	Linking Student Data to SASS: Why, When, How	Dan Kasprzyk
96–24	National Assessments of Teacher Quality	Dan Kasprzyk
96–25	Measures of Inservice Professional Development: Suggested Items for the 1998–1999	Dan Kasprzyk
	Schools and Staffing Survey	
96–28	Student Learning, Teaching Quality, and Professional Development: Theoretical	Mary Rollefson
	Linkages, Current Measurement, and Recommendations for Future Data Collection	-
97-01	Selected Papers on Education Surveys: Papers Presented at the 1996 Meeting of the	Dan Kasprzyk
	American Statistical Association	
97–07	The Determinants of Per-Pupil Expenditures in Private Elementary and Secondary	Stephen Broughman
	Schools: An Exploratory Analysis	
97–09	Status of Data on Crime and Violence in Schools: Final Report	Lee Hoffman
97-10	Report of Cognitive Research on the Public and Private School Teacher Questionnaires	Dan Kasprzyk
	for the Schools and Staffing Survey 1993–94 School Year	
97-11	International Comparisons of Inservice Professional Development	Dan Kasprzyk
97-12	Measuring School Reform: Recommendations for Future SASS Data Collection	Mary Rollefson
97–14	Optimal Choice of Periodicities for the Schools and Staffing Survey: Modeling and	Steven Kaufman
	Analysis	
97-18	Improving the Mail Return Rates of SASS Surveys: A Review of the Literature	Steven Kaufman
97–22	Collection of Private School Finance Data: Development of a Questionnaire	Stephen Broughman
97–23	Further Cognitive Research on the Schools and Staffing Survey (SASS) Teacher Listing	Dan Kasprzyk
	Form	
97–41	Selected Papers on the Schools and Staffing Survey: Papers Presented at the 1997 Meeting	Steve Kaufman
	of the American Statistical Association	
97–42	Improving the Measurement of Staffing Resources at the School Level: The Development	Mary Rollefson
	of Recommendations for NCES for the Schools and Staffing Survey (SASS)	
97–44	Development of a SASS 1993-94 School-Level Student Achievement Subfile: Using	Michael Ross
	State Assessments and State NAEP, Feasibility Study	
98-01	Collection of Public School Expenditure Data: Development of a Questionnaire	Stephen Broughman
98-02	Response Variance in the 1993–94 Schools and Staffing Survey: A Reinterview Report	Steven Kaufman
98–04	Geographic Variations in Public Schools' Costs	William J. Fowler, Jr.
98–05	SASS Documentation: 1993–94 SASS Student Sampling Problems; Solutions for	Steven Kaufman
	Determining the Numerators for the SASS Private School (3B) Second-Stage Factors	
98–08	The Redesign of the Schools and Staffing Survey for 1999–2000: A Position Paper	Dan Kasprzyk
98-12	A Bootstrap Variance Estimator for Systematic PPS Sampling	Steven Kaufman
98-13	Response Variance in the 1994–95 Teacher Follow-up Survey	Steven Kaufman
98-14	Variance Estimation of Imputed Survey Data	Steven Kaufman
98-15	Development of a Prototype System for Accessing Linked NCES Data	Steven Kaufman
98–16	A Feasibility Study of Longitudinal Design for Schools and Staffing Survey	Stephen Broughman
1999–02	Tracking Secondary Use of the Schools and Staffing Survey Data: Preliminary Results	Dan Kasprzyk
1999–04	Measuring Teacher Qualifications	Dan Kasprzyk
1999–07	Collection of Resource and Expenditure Data on the Schools and Staffing Survey	Stephen Broughman
1999–08	Measuring Classroom Instructional Processes: Using Survey and Case Study Fieldtest	Dan Kasprzyk
	Results to Improve Item Construction	
1999–10	What Users Say About Schools and Staffing Survey Publications	Dan Kasprzyk

No.	Title	NCES contact
1999–12	1993-94 Schools and Staffing Survey: Data File User's Manual, Volume III: Public-Use	Kerry Gruber
	Codebook	
1999–13	1993-94 Schools and Staffing Survey: Data File User's Manual, Volume IV: Bureau of	Kerry Gruber
	Indian Affairs (BIA) Restricted-Use Codebook	
1999–14	1994–95 Teacher Followup Survey: Data File User's Manual, Restricted-Use Codebook	Kerry Gruber
1999–17	Secondary Use of the Schools and Staffing Survey Data	Susan Wiley
2000-04	Selected Papers on Education Surveys: Papers Presented at the 1998 and 1999 ASA and	Dan Kasprzyk
	1999 AAPOR Meetings	
2000-10	A Research Agenda for the 1999–2000 Schools and Staffing Survey	Dan Kasprzyk
2000-13	Non-professional Staff in the Schools and Staffing Survey (SASS) and Common Core of	Kerry Gruber
	Data (CCD)	
2000-18	Feasibility Report: School-Level Finance Pretest, Public School District Questionnaire	Stephen Broughman
2002-04	Improving Consistency of Response Categories Across NCES Surveys	Marilyn Seastrom
Third Inter	national Mathematics and Science Study (TIMSS)	
2001-01	Cross-National Variation in Educational Preparation for Adulthood: From Early	Elvira Hausken
	Adolescence to Young Adulthood	
2001-05	Using TIMSS to Analyze Correlates of Performance Variation in Mathematics	Patrick Gonzales
2001-07	A Comparison of the National Assessment of Educational Progress (NAEP), the Third	Arnold Goldstein
	International Mathematics and Science Study Repeat (TIMSS-R), and the Programme	
	for International Student Assessment (PISA)	
2002-01	Legal and Ethical Issues in the Use of Video in Education Research	Patrick Gonzales

Listing of NCES Working Papers by Subject

No.	Title	NCES contact	
Achievement (student) - mathematics			
2001-05	Using TIMSS to Analyze Correlates of Performance Variation in Mathematics	Patrick Gonzales	
Adult educ	ation		
96–14	The 1995 National Household Education Survey: Reinterview Results for the Adult Education Component	Steven Kaufman	
96–20	1991 National Household Education Survey (NHES:91) Questionnaires: Screener, Early Childhood Education, and Adult Education	Kathryn Chandler	
96–22	1995 National Household Education Survey (NHES:95) Questionnaires: Screener, Early Childhood Program Participation and Adult Education	Kathryn Chandler	
98–03	Adult Education in the 1990s: A Report on the 1991 National Household Education	Peter Stowe	
98–10	Adult Education Participation Decisions and Barriers: Review of Conceptual Frameworks and Empirical Studies	Peter Stowe	
1999–11	Data Sources on Lifelong Learning Available from the National Center for Education Statistics	Lisa Hudson	
2000–16a	Lifelong Learning NCES Task Force: Final Report Volume I	Lisa Hudson	
2000–16b	Lifelong Learning NCES Task Force: Final Report Volume II	Lisa Hudson	
Adult litera	acy—see Literacy of adults		
American l	Indian – education		
1999–13	1993–94 Schools and Staffing Survey: Data File User's Manual, Volume IV: Bureau of	Kerry Gruber	
	Indian Affairs (BIA) Restricted-Use Codebook		
Assessment	t/achievement		
95–12	Rural Education Data User's Guide	Samuel Peng	
95-12	Assessing Students with Disabilities and Limited English Proficiency	James Houser	
97-29	Can State Assessment Data be Used to Reduce State NAEP Sample Sizes?	Larry Ogle	
97-30	ACT's NAEP Redesign Project: Assessment Design is the Key to Useful and Stable	Larry Ogle	
,, 50	Assessment Results	2001 9 0 810	
97-31	NAEP Reconfigured: An Integrated Redesign of the National Assessment of Educational	Larry Ogle	
	Progress	, ,	
97-32	Innovative Solutions to Intractable Large Scale Assessment (Problem 2: Background	Larry Ogle	
	Questions)	, ,	
97-37	Optimal Rating Procedures and Methodology for NAEP Open-ended Items	Larry Ogle	
97–44	Development of a SASS 1993-94 School-Level Student Achievement Subfile: Using	Michael Ross	
	State Assessments and State NAEP, Feasibility Study		
98–09	High School Curriculum Structure: Effects on Coursetaking and Achievement in	Jeffrey Owings	
	Mathematics for High School Graduates-An Examination of Data from the National		
	Education Longitudinal Study of 1988		
2001-07	A Comparison of the National Assessment of Educational Progress (NAEP), the Third	Arnold Goldstein	
	International Mathematics and Science Study Repeat (TIMSS-R), and the Programme		
	for International Student Assessment (PISA)		
2001-11	Impact of Selected Background Variables on Students' NAEP Math Performance	Arnold Goldstein	
2001-13	The Effects of Accommodations on the Assessment of LEP Students in NAEP	Arnold Goldstein	

No.	Title	NCES contact
2001–19	The Measurement of Home Background Indicators: Cognitive Laboratory Investigations of the Responses of Fourth and Eighth Graders to Questionnaire Items and Parental Assessment of the Invasiveness of These Items	Arnold Goldstein
2002-05	Early Childhood Longitudinal Study-Kindergarten Class of 1998–99 (ECLS–K)	
2002 00	Psychometric Report for Kindergarten Through First Grade	Elvira Hausken
2002-06	The Measurement of Instructional Background Indicators: Cognitive Laboratory Investigations of the Responses of Fourth and Eighth Grade Students and Teachers to Questionnaire Items	Arnold Goldstein
2003-19	NAEP Quality Assurance Checks of the 2002 Reading Assessment Results of Delaware	Janis Brown
Beginning	students in postsecondary education	
98–11	Beginning Postsecondary Students Longitudinal Study First Follow-up (BPS:96–98) Field Test Report	Aurora D'Amico
2001–04	Beginning Postsecondary Students Longitudinal Study: 1996–2001 (BPS:1996/2001) Field Test Methodology Report	Paula Knepper
Civic parti	cipation	
97–25	1996 National Household Education Survey (NHES:96) Questionnaires: Screener/Household and Library, Parent and Family Involvement in Education and Civic Involvement, Youth Civic Involvement, and Adult Civic Involvement	Kathryn Chandler
Climate of	schools	
95–14	Empirical Evaluation of Social, Psychological, & Educational Construct Variables Used in NCES Surveys	Samuel Peng
Cost of edu	ication indices	
94–05	Cost-of-Education Differentials Across the States	William J. Fowler, Jr.
Course-tak	ing	
95-12	Rural Education Data User's Guide	Samuel Peng
98–09	High School Curriculum Structure: Effects on Coursetaking and Achievement in Mathematics for High School Graduates—An Examination of Data from the National Education Longitudinal Study of 1988	Jeffrey Owings
1999–05	Procedures Guide for Transcript Studies	Dawn Nelson
1999–06	1998 Revision of the Secondary School Taxonomy	Dawn Nelson
2003–01	Mathematics, Foreign Language, and Science Coursetaking and the NELS:88 Transcript Data	Jeffrey Owings
2003–02	English Coursetaking and the NELS:88 Transcript Data	Jeffrey Owings
Crime		
97–09	Status of Data on Crime and Violence in Schools: Final Report	Lee Hoffman
Curriculun	n	
95–11	Measuring Instruction, Curriculum Content, and Instructional Resources: The Status of Recent Work	Sharon Bobbitt & John Ralph
98–09	High School Curriculum Structure: Effects on Coursetaking and Achievement in Mathematics for High School Graduates—An Examination of Data from the National Education Longitudinal Study of 1988	Jeffrey Owings

Customer service

No.	Title	NCES contact
1999–10	What Users Say About Schools and Staffing Survey Publications	Dan Kasprzyk
2000-02	Coordinating NCES Surveys: Options, Issues, Challenges, and Next Steps	Valena Plisko
2000-04	Selected Papers on Education Surveys: Papers Presented at the 1998 and 1999 ASA and	Dan Kasprzyk
	1999 AAPOR Meetings	
Data qualit	v	
97–13	Improving Data Quality in NCES: Database-to-Report Process	Susan Ahmed
2001-11	Impact of Selected Background Variables on Students' NAEP Math Performance	Arnold Goldstein
2001-13	The Effects of Accommodations on the Assessment of LEP Students in NAEP	Arnold Goldstein
2001–19	The Measurement of Home Background Indicators: Cognitive Laboratory Investigations of the Responses of Fourth and Eighth Graders to Questionnaire Items and Parental Assessment of the Invasiveness of These Items	Arnold Goldstein
2002-06	The Measurement of Instructional Background Indicators: Cognitive Laboratory Investigations of the Responses of Fourth and Eighth Grade Students and Teachers to Ouestionnaire Items	Arnold Goldstein
2003-19	NAEP Quality Assurance Checks of the 2002 Reading Assessment Results of Delaware	Janis Brown
Data wareh	ouse	
2000-04	Selected Papers on Education Surveys: Papers Presented at the 1998 and 1999 ASA and 1999 AAPOR Meetings	Dan Kasprzyk
Design effe	cts	
2000-03	Strengths and Limitations of Using SUDAAN, Stata, and WesVarPC for Computing Variances from NCES Data Sets	Ralph Lee
Dropout ra	tes, high school	
95–07	National Education Longitudinal Study of 1988: Conducting Trend Analyses HS&B and NELS:88 Sophomore Cohort Dropouts	Jeffrey Owings
Early child	hood education	
96–20	1991 National Household Education Survey (NHES:91) Questionnaires: Screener, Early Childhood Education, and Adult Education	Kathryn Chandler
96–22	1995 National Household Education Survey (NHES:95) Questionnaires: Screener, Early Childhood Program Participation, and Adult Education	Kathryn Chandler
97–24	Formulating a Design for the ECLS: A Review of Longitudinal Studies	Jerry West
97–36	Measuring the Quality of Program Environments in Head Start and Other Early Childhood Programs: A Review and Recommendations for Future Research	Jerry West
1999–01	A Birth Cohort Study: Conceptual and Design Considerations and Rationale	Jerry West
2001-02	Measuring Father Involvement in Young Children's Lives: Recommendations for a Fatherhood Module for the ECLS-B	Jerry West
2001-03	Measures of Socio-Emotional Development in Middle School	Elvira Hausken
2001–06	Papers from the Early Childhood Longitudinal Studies Program: Presented at the 2001 AERA and SRCD Meetings	Jerry West
2002-05	Early Childhood Longitudinal Study-Kindergarten Class of 1998–99 (ECLS–K), Psychometric Report for Kindergarten Through First Grade	Elvira Hausken

Educational attainment

98–11 Beginning Postsecondary Students Longitudinal Study First Follow-up (BPS:96–98) Field Aurora D'Amico Test Report

No.	Title	NCES contact
2001–15	Baccalaureate and Beyond Longitudinal Study: 2000/01 Follow-Up Field Test Methodology Report	Andrew G. Malizio
Educationa	l research	
2000-02	Coordinating NCES Surveys: Options, Issues, Challenges, and Next Steps	Valena Plisko
2002-01	Legal and Ethical Issues in the Use of Video in Education Research	Patrick Gonzales
Eighth-gra	ders	
2001-05	Using TIMSS to Analyze Correlates of Performance Variation in Mathematics	Patrick Gonzales
Employme	nt	
96–03	National Education Longitudinal Study of 1988 (NELS:88) Research Framework and Issues	Jeffrey Owings
98–11	Beginning Postsecondary Students Longitudinal Study First Follow-up (BPS:96–98) Field Test Report	Aurora D'Amico
2000–16a	Lifelong Learning NCES Task Force: Final Report Volume I	Lisa Hudson
2000–16b	Lifelong Learning NCES Task Force: Final Report Volume II	Lisa Hudson
2001–01	Cross-National Variation in Educational Preparation for Adulthood: From Early Adolescence to Young Adulthood	Elvira Hausken
Employme	nt – after college	
2001-15	Baccalaureate and Beyond Longitudinal Study: 2000/01 Follow-Up Field Test Methodology Report	Andrew G. Malizio
2000–11 Enrollment 2001–15	Financial Aid Profile of Graduate Students in Science and Engineering t – after college Baccalaureate and Beyond Longitudinal Study: 2000/01 Follow-Up Field Test	Aurora D'Amico Andrew G. Malizio
2001 10	Methodology Report	
Faculty – h	igher education	
97–26	Strategies for Improving Accuracy of Postsecondary Faculty Lists	Linda Zimbler
2000-01	1999 National Study of Postsecondary Faculty (NSOPF:99) Field Test Report	Linda Zimbler
2002–08	A Profile of Part-time Faculty: Fall 1998	Linda Zimbler
Fathers – r	ole in education	
2001-02	Measuring Father Involvement in Young Children's Lives: Recommendations for a	Jerry West
	Fatherhood Module for the ECLS-B	
Finance – e	lementary and secondary schools	
94–05	Cost-of-Education Differentials Across the States	William J. Fowler, Jr
96–19	Assessment and Analysis of School-Level Expenditures	William J. Fowler, Jr
98-01	Collection of Public School Expenditure Data: Development of a Questionnaire	Stephen Broughman
1999–07	Collection of Resource and Expenditure Data on the Schools and Staffing Survey	Stephen Broughman
1999–16	Measuring Resources in Education: From Accounting to the Resource Cost Model Approach	William J. Fowler, Jr
2000–18	Feasibility Report: School-Level Finance Pretest, Public School District Questionnaire	Stephen Broughman
Finance – r	postsecondary	
97–27	Pilot Test of IPEDS Finance Survey	Peter Stowe

No.	Title	NCES contact
2000-14	IPEDS Finance Data Comparisons Under the 1997 Financial Accounting Standards for	Peter Stowe
	Private, Not-for-Profit Institutes: A Concept Paper	
Finance – p	rivate schools	
95-17	Estimates of Expenditures for Private K-12 Schools	Stephen Broughman
96–16	Strategies for Collecting Finance Data from Private Schools	Stephen Broughman
97–07	The Determinants of Per-Pupil Expenditures in Private Elementary and Secondary Schools: An Exploratory Analysis	Stephen Broughman
97–22	Collection of Private School Finance Data: Development of a Questionnaire	Stephen Broughman
1999–07	Collection of Resource and Expenditure Data on the Schools and Staffing Survey	Stephen Broughman
2000–15	Feasibility Report: School-Level Finance Pretest, Private School Questionnaire	Stephen Broughman
Geography		
98–04	Geographic Variations in Public Schools' Costs	William J. Fowler, Jr.
Graduate st	udents	
2000–11	Financial Aid Profile of Graduate Students in Science and Engineering	Aurora D'Amico
Graduates o	of postsecondary education	
2001–15	Baccalaureate and Beyond Longitudinal Study: 2000/01 Follow-Up Field Test Methodology Report	Andrew G. Malizio
Imputation		
2000–04	Selected Papers on Education Surveys: Papers Presented at the 1998 and 1999 ASA and 1999 AAPOR Meeting	Dan Kasprzyk
2001-10	Comparison of Proc Impute and Schafer's Multiple Imputation Software	Sam Peng
2001-16	Imputation of Test Scores in the National Education Longitudinal Study of 1988	Ralph Lee
2001-17	A Study of Imputation Algorithms	Ralph Lee
2001-18	A Study of Variance Estimation Methods	Ralph Lee
	Investation Mathedalams for the National Destances dam. Student Aid Studen 2004	Isomer Criffidh

Inflation

97–43	Measuring Inflation in Public School Costs	William J. Fowler, Jr.
Institution	data	
2000-01	1999 National Study of Postsecondary Faculty (NSOPF:99) Field Test Report	Linda Zimbler
Instruction	al resources and practices	
95–11	Measuring Instruction, Curriculum Content, and Instructional Resources: The Status of Recent Work	Sharon Bobbitt & John Ralph
1999–08	Measuring Classroom Instructional Processes: Using Survey and Case Study Field Test Results to Improve Item Construction	Dan Kasprzyk
Internation	al comparisons	
97-11	International Comparisons of Inservice Professional Development	Dan Kasprzyk
97–16	International Education Expenditure Comparability Study: Final Report, Volume I	Shelley Burns

No.	Title	NCES contact
97–17	International Education Expenditure Comparability Study: Final Report, Volume II, Quantitative Analysis of Expenditure Comparability	Shelley Burns
2001-01	Cross-National Variation in Educational Preparation for Adulthood: From Early Adolescence to Young Adulthood	Elvira Hausken
2001-07	A Comparison of the National Assessment of Educational Progress (NAEP), the Third International Mathematics and Science Study Repeat (TIMSS-R), and the Programme for International Student Assessment (PISA)	Arnold Goldstein
Internation	al comparisons – math and science achievement	
2001–05	Using TIMSS to Analyze Correlates of Performance Variation in Mathematics	Patrick Gonzales
Libraries		
94–07	Data Comparability and Public Policy: New Interest in Public Library Data Papers Presented at Meetings of the American Statistical Association	Carrol Kindel
97–25	1996 National Household Education Survey (NHES:96) Questionnaires: Screener/Household and Library, Parent and Family Involvement in Education and Civic Involvement, Youth Civic Involvement, and Adult Civic Involvement	Kathryn Chandler
Limited En	glish Proficiency	
95–13	Assessing Students with Disabilities and Limited English Proficiency	James Houser
2001-11	Impact of Selected Background Variables on Students' NAEP Math Performance	Arnold Goldstein
2001-13	The Effects of Accommodations on the Assessment of LEP Students in NAEP	Arnold Goldstein
Literacy of	adults	
98–17	Developing the National Assessment of Adult Literacy: Recommendations from Stakeholders	Sheida White
1999–09a	1992 National Adult Literacy Survey: An Overview	Alex Sedlacek
1999–09b	1992 National Adult Literacy Survey: Sample Design	Alex Sedlacek
1999–09c	1992 National Adult Literacy Survey: Weighting and Population Estimates	Alex Sedlacek
1999–09d	1992 National Adult Literacy Survey: Development of the Survey Instruments	Alex Sedlacek
1999–09e	1992 National Adult Literacy Survey: Scaling and Proficiency Estimates	Alex Sedlacek
1999–09f	1992 National Adult Literacy Survey: Interpreting the Adult Literacy Scales and Literacy Levels	Alex Sedlacek
1999–09g	1992 National Adult Literacy Survey: Literacy Levels and the Response Probability Convention	Alex Sedlacek
1999–11	Data Sources on Lifelong Learning Available from the National Center for Education Statistics	Lisa Hudson
2000–05	Secondary Statistical Modeling With the National Assessment of Adult Literacy: Implications for the Design of the Background Questionnaire	Sheida White
2000–06	Using Telephone and Mail Surveys as a Supplement or Alternative to Door-to-Door Surveys in the Assessment of Adult Literacy	Sheida White
2000-07	"How Much Literacy is Enough?" Issues in Defining and Reporting Performance Standards for the National Assessment of Adult Literacy	Sheida White
2000–08	Evaluation of the 1992 NALS Background Survey Questionnaire: An Analysis of Uses with Recommendations for Revisions	Sheida White
2000-09	Demographic Changes and Literacy Development in a Decade	Sheida White
2001–08	Assessing the Lexile Framework: Results of a Panel Meeting	Sheida White
Literacy of	adults – international	
97–33	Adult Literacy: An International Perspective	Marilyn Binkley

No.	Title	NCES contact
Mathemati		
98–09	High School Curriculum Structure: Effects on Coursetaking and Achievement in Mathematics for High School Graduates—An Examination of Data from the National Education Longitudinal Study of 1988	Jeffrey Owings
1999–08	Measuring Classroom Instructional Processes: Using Survey and Case Study Field Test Results to Improve Item Construction	Dan Kasprzyk
2001-05	Using TIMSS to Analyze Correlates of Performance Variation in Mathematics	Patrick Gonzales
2001–07	A Comparison of the National Assessment of Educational Progress (NAEP), the Third International Mathematics and Science Study Repeat (TIMSS-R), and the Programme for International Student Assessment (PISA)	Arnold Goldstein
2001-11	Impact of Selected Background Variables on Students' NAEP Math Performance	Arnold Goldstein
2002-06	The Measurement of Instructional Background Indicators: Cognitive Laboratory Investigations of the Responses of Fourth and Eighth Grade Students and Teachers to Questionnaire Items	
Parental in	volvement in education	
96–03	National Education Longitudinal Study of 1988 (NELS:88) Research Framework and Issues	Jeffrey Owings
97–25	1996 National Household Education Survey (NHES:96) Questionnaires: Screener/Household and Library, Parent and Family Involvement in Education and Civic Involvement, Youth Civic Involvement, and Adult Civic Involvement	Kathryn Chandler
1999–01	A Birth Cohort Study: Conceptual and Design Considerations and Rationale	Jerry West
2001-06	Papers from the Early Childhood Longitudinal Studies Program: Presented at the 2001 AERA and SRCD Meetings	Jerry West
2001–19	The Measurement of Home Background Indicators: Cognitive Laboratory Investigations of the Responses of Fourth and Eighth Graders to Questionnaire Items and Parental Assessment of the Invasiveness of These Items	Arnold Goldstein
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98–10	Adult Education Participation Decisions and Barriers: Review of Conceptual Frameworks and Empirical Studies	Peter Stowe
Postsecond	arv education	
1999–11	Data Sources on Lifelong Learning Available from the National Center for Education Statistics	Lisa Hudson
2000–16a	Lifelong Learning NCES Task Force: Final Report Volume I	Lisa Hudson
2000-16b	Lifelong Learning NCES Task Force: Final Report Volume II	Lisa Hudson
2003-20	Imputation Methodology for the National Postsecondary Student Aid Study: 2004	James Griffith
Postsecond	ary education – persistence and attainment	
98–11	Beginning Postsecondary Students Longitudinal Study First Follow-up (BPS:96–98) Field Test Report	Aurora D'Amico
1999–15	Projected Postsecondary Outcomes of 1992 High School Graduates	Aurora D'Amico
Postsecond	arv education – staff	
97–26	Strategies for Improving Accuracy of Postsecondary Faculty Lists	Linda Zimbler
2000-01	1999 National Study of Postsecondary Faculty (NSOPF:99) Field Test Report	Linda Zimbler

No.	Title	NCES contact
2002-08	A Profile of Part-time Faculty: Fall 1998	Linda Zimbler
	-	
Principals		
2000-10	A Research Agenda for the 1999–2000 Schools and Staffing Survey	Dan Kasprzyk
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Private sch	ools	
96-16	Strategies for Collecting Finance Data from Private Schools	Stephen Broughman
97–07	The Determinants of Per-Pupil Expenditures in Private Elementary and Secondary Schools: An Exploratory Analysis	Stephen Broughman
97–22	Collection of Private School Finance Data: Development of a Questionnaire	Stephen Broughman
2000–13	Non-professional Staff in the Schools and Staffing Survey (SASS) and Common Core of Data (CCD)	Kerry Gruber
2000-15	Feasibility Report: School-Level Finance Pretest, Private School Questionnaire	Stephen Broughman
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1999–15	Projected Postsecondary Outcomes of 1992 High School Graduates	Aurora D'Amico
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1999–16	Measuring Resources in Education: From Accounting to the Resource Cost Model Approach	William J. Fowler, Jr.
2000-18	Feasibility Report: School-Level Finance Pretest, Public School District Questionnaire	Stephen Broughman
Public scho	pols	
97–43	Measuring Inflation in Public School Costs	William J. Fowler, Jr.
98-01	Collection of Public School Expenditure Data: Development of a Questionnaire	Stephen Broughman
98-04	Geographic Variations in Public Schools' Costs	William J. Fowler, Jr.
1999–02	Tracking Secondary Use of the Schools and Staffing Survey Data: Preliminary Results	Dan Kasprzyk
2000-12	Coverage Evaluation of the 1994–95 Public Elementary/Secondary School Universe Survey	Beth Young
2000–13	Non-professional Staff in the Schools and Staffing Survey (SASS) and Common Core of Data (CCD)	Kerry Gruber
2002-02	Locale Codes 1987 - 2000	Frank Johnson
Public scho	ools – secondary	
98–09	High School Curriculum Structure: Effects on Coursetaking and Achievement in Mathematics for High School Graduates—An Examination of Data from the National Education Longitudinal Study of 1988	Jeffrey Owings
Reform, ed	ucational	
96–03	National Education Longitudinal Study of 1988 (NELS:88) Research Framework and	Jeffrey Owings
	Issues	
Response r	ates	
98–02	Response Variance in the 1993-94 Schools and Staffing Survey: A Reinterview Report	Steven Kaufman
School dist	ricts	
2000-10	A Research Agenda for the 1999–2000 Schools and Staffing Survey	Dan Kasprzyk
School dist	ricts, public	
98–07	Decennial Census School District Project Planning Report	Tai Phan

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1999–06 1998 Revision of the Secondary School Taxonomy

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