

**National Teacher and Principal Survey
of 2017-2018 (NTPS 2017-18)
Preliminary Field Activities**

OMB# 1850-0598 v.17

Supporting Statement

Part B

**National Center for Education Statistics
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Part B Collection of Information Employing Statistical Methods

This request is to contact districts and schools in order to begin preliminary activities for the NTPS 2017-18 collection, which include (a) contacting and seeking research approvals from special handling districts, where applicable, and (b) notifying sampled schools of their selection for the survey and to verify mailing addresses. This is the initial clearance request for NTPS 2017-18. The full NTPS 2017-18 clearance request (OMB# 1850-0598 v.18), addressing all remaining recruitment and data collection activities, is currently undergoing a 60-day public comment period (expected to be submitted to OMB on April 5, 2017).

Section B.1 of this document describes the universe, sample design, and estimation details for NTPS 2017-18. Section B.2 describes the data collection procedures for the preliminary field activities. Section B.2 also includes a description of the full-scale data collection procedures for NTPS 2015-16. A description of all operations for NTPS 2017-18, including stages after the preliminary field activities stage, is provided in the full NTPS 2017-18 clearance request (OMB# 1850-0598 v.18). Section B.3 discusses methods to secure cooperation and mitigate nonresponse. In particular, it describes methods used to improve response rates in NTPS 2015-16 and how those methods will be used in NTPS 2017-18. Section B.4 describes recent developments in a long history of tests of methods and procedures to improve data quality. It also includes a description of a test to include private schools in NTPS. Section B.5 lists the names and phone numbers of those involved in the design of the study and the development of these materials.

B.1 Universe, Sample Design, and Estimation

Section B.1.1 includes information on the study universe of interest and sample design planned for NTPS 2017-18. Section B.1.2 describes the precision requirements and target sample sizes set out for the study.

B.1.1 Universe and Sample Design: Respondent Universe

B.1.1.1 Schools

The respondent universe for NTPS 2017-18 data collection consists of approximately 94,000 public schools and 25,000 private schools in the 50 U.S. states and the District of Columbia (DC) that offer instruction in any of grades 1-12 or the ungraded equivalent. To be eligible for inclusion in the sample, schools must: provide classroom instruction to students; have one or more teachers who provide instruction; serve students in at least one of grades 1-12 or the ungraded equivalent; be located in one or more buildings, and be located in the continental United States.

NCES' 2015-16 Common Core of Data (CCD) will be used to construct the public school frame. The respondent universe for charter schools will be identified as those public charter schools that meet the NTPS definition of an eligible school found on the CCD. The universe has been adjusted to remove kindergarten-terminal schools, which are not eligible for NTPS. Table 1 presents the number of public schools on the 2012-13 CCD by urbanicity and school level. The CCD for 2015-16 is not yet available at the time of submitting this package.

Table 1. Respondent universe by school level and urbanicity for the proposed public school sample, based on the 2012-13 CCD

Region	School level				Total
	Primary	Middle	High	Combined	
Central City	15,308	3,699	5,407	1,727	26,141
Suburban	17,933	5,136	5,901	1,220	30,190
Town	6,138	2,340	3,481	876	12,835
Rural	12,221	3,189	6,014	3,538	24,962
Total	51,600	14,364	20,803	7,361	94,128

SOURCE: 2012-13 CCD.

The private school test frame is drawn from the 2015-16 Private School Survey (PSS) frame. Preschools and schools with kindergarten as the highest grade are excluded. Table 2 presents the number of private schools on

the 2015-16 PSS by urbanicity and school level.

Details of the first-stage sample design of schools are provided in section 2.

Table 2. Respondent universe by school level and urbanicity for the proposed private school test sample, based on the 2015-16 PSS

Region	School level			Total
	Elementary	Secondary	Combined	
Central City	4,975	1,121	2,702	8,798
Suburban	5,005	871	2,938	8,814
Town	1,315	145	766	2,226
Rural	2,735	472	1,939	5,146
Total	14,030	2,609	8,345	24,984

SOURCE: 2015-16 PSS

B.1.1.2 Teachers

Teachers will be randomly sampled within the second design stage from roster information provided by each participating sampled school. Teachers within the sampled school are classified as ineligible for NTPS if they are a short-term substitute teacher, student teacher, or a teacher's aide; or if they do not teach any of grades K-12 or comparable ungraded levels. The information that classifies teachers as ineligible is obtained from the Teacher Questionnaire. Details of the second-stage sample design of teachers are provided in section 2.

B.1.2 Precision Requirements and Sample Sizes

This section details the school sample sizes and precision requirements for the NTPS 2017-18 public and private school samples.

The final NTPS 2017-18 public sample will include approximately:

- 10,600 schools and school principals (9,100 traditional public and 1,500 public charter), with the goal of at least 6,800 interviews for each; and
- 47,000 teachers (42,100 traditional public and 4,900 public charter), with the goal of at least 35,000 interviews.

The final NTPS 2017-18 private school test sample will include approximately:

- 4,000 schools and school principals, with the goal of at least 2,300 interviews for each; and
- 9,000 teachers, with the goal of at least 6,000 interviews.

Sampling – Public Schools

The level of precision achieved by NTPS 2015-16 was evaluated to inform the sample design decisions for NTPS 2017-18. In particular, publishability and bias indicators (described in Section B.3.2) were reviewed in order to improve the school sample design for the 2017-18 NTPS. A key change in NTPS 2017-18 from NTPS 2015-16 is the inclusion of additional sample to enable the publication of state estimates. The 2017-18 NTPS oversampling stratification will be based preliminarily on the following domains:

- Charter/Non-charter;
- School Level (primary, middle, high, combined);
- Urbanicity (city, suburb, town, rural);
- School enrollment (four levels: schools with enrollment less than 100; schools with enrollment between 100 and 199; schools with enrollment 200 to 499; schools with enrollment 500 or more);
- State Tier, state.

The NCES standards for publishability indicate that the coefficient of variation (CV) must be no larger than 50%, and if the CV is between 30% and 50%, the estimates are published with a caveat. For a population

proportion of 20%, a CV of 30% corresponds to a standard error of 6%. In order to make sure that we don't fall below the CV 30% minimum with the uncertainties about response and about exact values of design effects, we set as a target a CV of 25% as a lower bound. This corresponds to an expected standard error of 5%. This considerably reduces the chance of falling below the 30% boundary (if we set 30% itself as the target, we would be below it one-half of the time). Our target goal then for each state is to make sure that the expected standard error is no larger than 5% for a population proportion of 20% (a CV of 25%), at both the school and teacher level.

Table 3 presents a portion of the analysis for public schools by school type, grade level, urbanicity, and poverty status. Presented are the anticipated number of responding schools or principals for the NTPS design and the expected precision based on an analysis of preliminary data. The final analyses using the NTPS 2015-16 final response rates and CV of 25% will be completed in June 2017, at which time NCES will brief OMB and subsequently submit a change request with the final analyses results and revised Table 3.

Table 3. School-domain expected interviews, standard errors, and design effects with state oversampling to achieve 30% CV or less

Domain	Frame Schools	Expected Sample Size (completed interviews)	Expected Standard Error	Design Effect
All	94,128	6,000	0.66%	1.62
Charter	6,530	739	1.72%	1.37
Non-charter	87,598	5,261	0.70%	1.59
Primary	51,600	2,681	0.92%	1.42
Middle	14,364	1,014	1.48%	1.39
High	20,803	1,568	1.45%	2.06
Combined	7,361	737	1.96%	1.78
City	26,141	1,764	1.21%	1.62
Suburban	30,190	1,808	1.17%	1.54
Town	12,835	912	1.69%	1.62
Rural	24,962	1,516	1.34%	1.70
Enrollment < 100	8,208	289	3.59%	2.32
100 <= Enrollment < 300	7,618	427	2.41%	1.55
300 <= Enrollment < 500	36,116	2,100	1.04%	1.42
500 <= Enrollment < 750	23,552	1,494	1.19%	1.33
750 <= Enrollment < 1,000	9,395	716	1.70%	1.30
1,000 <= Enrollment	9,239	973	1.42%	1.23
Percent FRPL < 35%	26,066	1,713	1.32%	1.87
35% <= Percent FRPL < 50%	15,561	1,051	1.52%	1.52
50% <= Percent FRPL < 75%	26,182	1,637	1.22%	1.52
75% <= Percent FRPL	24,417	1,463	1.27%	1.47
Not Participating FRPL	1,902	136	5.47%	2.54

Table 4 provides the analogous precision analysis for public school teachers. The expected standard errors were calculated based on the NTPS 2015-16 and scaled for the expected NTPS 2017-18 number of respondents. The final analyses using the NTPS 2015-16 final response rates and CV of 25% will be completed in June 2017, at which time NCES will brief OMB and subsequently submit a change request with the final analyses results and revised Table 4.

Table 4. Major domain expected teacher interviews, standard errors, and design effects with state oversampling to achieve 30% CV or less

Domain	Frame Full-Time Equivalent Teachers (in 1000s)	Expected Teacher Completed Interviews	Expected Standard Error	Design Effect
All	3,127.9	30,825	0.46%	4.05
Charter	144.9	3,193	1.27%	3.22
Non-charter	2,983.0	27,632	0.48%	3.92
Primary	1,473.6	11,872	0.70%	3.59
Middle	552.6	5,653	1.05%	3.89
High	924.3	9,955	0.85%	4.51
Combined	177.4	3,344	1.28%	3.41
City	920.6	9,264	0.85%	4.19
Suburban	1,202.1	10,329	0.79%	4.05
Town	368.0	4,405	1.15%	3.64
Rural	637.2	6,827	0.94%	3.76
Enrollment < 100	40.9	615	2.66%	2.73
100 <= Enrollment < 300	94.3	1,304	1.95%	3.11
300 <= Enrollment < 500	862.9	8,710	0.81%	3.53
500 <= Enrollment < 750	865.9	8,649	0.87%	4.08
750 <= Enrollment < 1,000	474.1	4,408	1.23%	4.20
1,000 <= Enrollment	789.8	7,139	1.01%	4.56
Percent FRPL < 35%	943.9	9,256	0.85%	4.22
35% <= Percent FRPL < 50%	530.3	5,486	1.09%	4.10
50% <= Percent FRPL < 75%	839.9	8,264	0.87%	3.94
75% <= Percent FRPL	755.2	7,071	0.94%	3.91
Not Participating FRPL	58.6	748	3.10%	4.48

Sampling – Private Schools

To inform the sample design for the NTPS 2017-18 Private School Pilot Study, NCES evaluated the level of precision achieved by 2011-12 SASS. The precision analysis was based on analysis variables and on proportions to address important characteristics. The following variables were evaluated:

- School type (Religious – Catholic, Religious – Other, Non-Religious);
- Grade Level (Elementary, Secondary, Combined); and
- Region (Northeast, Midwest, South, West).

The sample design for private schools is broadly consistent with the private school design for SASS, except that the sample size is increased by roughly one-third to achieve the precision goals for the experimental study (see Section B.4). In addition, sampling rates for nonsectarian and secondary schools are set to better equalize the precisions of these domains with the other school type and grade level domains. NCES has also evaluated the sampling plan for the ability to achieve a minimum level of CV. The desired goal was to achieve a CV of less than 30 percent for a population proportion of 20% in order to meet NCES standards for reporting.

In order to better equalize precision across major schools domains for private schools from those achieved in SASS 2011-12, NCES plans to oversample as follows:

- Secondary schools will be sampled at a rate proportional to 3.33 times the measure of size (as determined by number of FTE teachers);
- Non-Religious schools will be sampled at a rate proportional to 1.43 times the measure of size (except for secondary non-religious schools, which are sampled at the 3.33 rate); and

- Other strata will be sampled at a rate proportional to 1.0 times the measure of size.

For teachers, the expected number of completed interviews is estimated to be proportional to the product of the final school sampling factor and the number of full time equivalent (FTE) teachers over schools in the domain. The overall target number of completed interviews is 6,000. Assuming the attrition rate for the NTPS 2017-18 will be similar to the rate for the 2011-12 SASS, the sample size needs to be 9,000 in order to yield the expected number of completed teacher interviews. The teacher sample size for a sampled school should be proportional to the product of the final teacher multiplier (based on the expected attrition adjustment factors), final school oversampling factor, and measure of size for the school.

Tables 5 and 6 show expected sample sizes, standard errors, and CVs for population percentages of 20% by key domains of school type, grade level, and region.

Table 5 presents a portion of the analysis for private schools by affiliation, grade level, and region.

Table 5. School-domain expected interviews, standard errors, and design effects for the NTPS 2017-18 private school pilot study

Domain	Frame Schools	Expected Sample Size (completed interviews)	Expected Standard Error	Design Effect
All	24,861	2,266	1.08%	1.65
Catholic	6,407	742	1.83%	1.55
Other religious	11,600	774	1.80%	1.57
Nonsectarian	6,854	750	1.77%	1.46
Elementary	13,216	826	1.61%	1.34
Secondary	2,426	654	1.69%	1.17
Combined	9,219	786	1.72%	1.45
Northeast	5,787	602	2.26%	1.92
Midwest	6,105	512	2.24%	1.61
South	8,025	706	1.86%	1.53
West	4,944	446	2.38%	1.58

Table 6 provides the analogous precision analysis for private school teachers.

Table 6. Major domain expected teacher interviews, standard errors, and design for the NTPS 2017-18 private school pilot study

Domain	Frame Full-Time Equivalent Teachers	Expected Teacher Completed Interviews	Expected Standard Error	Design Effect
All	431,588	5,827	0.99%	3.58
Catholic	135,265	2,078	1.75%	3.98
Other religious	164,122	1,756	1.72%	3.24
Nonsectarian	132,201	1,993	1.65%	3.40
Elementary	163,523	1,644	1.65%	2.81
Secondary	62,614	1,933	1.66%	3.32
Combined	205,451	2,250	1.53%	3.31
Northeast	112,558	1,661	1.92%	3.84
Midwest	91,178	1,233	2.13%	3.50
South	149,772	1,848	1.74%	3.48
West	78,081	1,084	2.26%	3.47

The 2017-18 NTPS will have an implicit stratification based on the proposed systematic sampling sort order, which uses a hierarchy of the following domains:

- Three-level affiliation (Catholic, non-Catholic religious, nonreligious);
- Three-level school span (elementary, secondary, combined);
- Four-level Census region (Northeast, South, Central, Midwest);
- Four-level urbanicity (city, suburb, town, rural);
- Eleven-level affiliation;
- Five-level school size (enrollment <100, 100-199, 200-499, 500-749, 750+);
- State;
- Highest grade;
- Twelve-level urbanicity (large city, medium-sized city, small city, etc.);
- Zip code;
- School enrollment;
- PIN number.

Teachers will be sampled from roster information provided by each participating sampled school. The target teacher completed interview sample sizes are designed to be proportional to the square root of the number of full-time teachers for each school and assume an attrition rate due to nonresponse.

Sampling – Principals within All Schools

For each sampled traditional public, public charter, and private schools, the principal will be included in the survey as a result of the school being selected.

Survey Weights

Schools, principals, and teachers will be weighted by the inverse of the probability of selection. The final weight will contain adjustments for nonresponse and any other sampling or field considerations that arise after the sample has been drawn.

Response Rates

We expect the NTPS 2017-18 response rates to approximate those of NTPS 2015-16 (for public schools) and SASS 2011-12 (for private schools) or to fall lower given the long-term trend in declining response rates for federal surveys. Table 7 provides the base-weighted response rates for SASS 2011-12, as the final base-weighted response rates are not yet calculated for NTPS 2015-16.

Table 7. Base-weighted response rates for SASS 2011-12 by respondent and school type

School Type	Unit of Observation		
	Teacher	Principal	School
Traditional Public	77.92%	72.90%	72.68%
Charter	70.36%	69.67%	69.15%
Private	69.9%	64.7%	65.7%

B.2 Procedures for the Collection of Information

Section B.2.1 describes the operations for the preliminary field activities for NTPS 2017-18, with Section B.2.1.1 describing special districts operation and Section B.2.1.2 the school pre-contact letter. Section B.2.2 describes school-level data collection procedures for the school-level questionnaires (i.e., Teacher Listing Form, School Questionnaire, and Principal Questionnaire), with Section B.2.2.1 describing the procedures to be used with priority schools Section B.2.2.2 with non-priority schools. Section B.2.3 describes data collection procedures for the Teacher Questionnaire.

B.2.1 Preliminary Field Activities

B.2.1.1 Special Contact District Operation

Special contact districts require that a research application be submitted to and reviewed by the district before they will allow schools under their jurisdiction to participate in a study. Districts are identified as “special contact districts” prior to data collection because they were flagged as such during previous cycles of SASS,

NTPS, or SSOCS, or by other NCES studies. Special contact districts are also identified during data collection when districts indicate that they will not complete the survey until a research application is submitted, reviewed, and approved.

Once a district is identified as a special contact district, basic information about the district is obtained from the NCES Common Core of Data (CCD). The basic information includes the NCES LEA ID number, district name, city, and state. The next step is to search the district's website for a point of contact and any information available about the district's requirements for conducting external research. Some districts identified as being a special contact district from the previous cycle may be incorrect and staff will verify whether a given district has requirements for conducting external research before proceeding.

The following are examples of the type of information that will be gathered from each district's website in order to prepare a research application for submission to this district:

- Name and contact information for the district office or department that reviews applications to conduct external research, and the name and contact information of the person in charge of that office.
- Information about review schedules and submission deadlines.
- Whether application fees are required, and if so, how much.
- Whether a district sponsor is required.
- Whether an online application is required, and if so, the link to the application if possible.
- Information about research topics and/or agenda on which the district is focusing.
- The web link to the main research department or office website.
- Research guidelines, instructions, application forms, District Action Plans, Strategic Plan or Goals, if any.

Recruitment staff will contact districts by phone and email to obtain key information not listed on the district's website, (e.g., requirements for the research application, research application submission deadlines, etc.).

SSOCS/NTPS staff developed a generic research application that covers the information typically requested in district research applications. Staff will customize the generic research application to each district's specific requirements that need to be addressed or included in the research application (e.g., how the study addresses key district goals, or inclusion of a district study sponsor), or submit the generic application with minimal changes to districts that do not have specific application requirements.

Using the information obtained from the district website or phone or email exchanges, a district research request packet will be prepared. Each research application will include the following documents, where applicable:

- District research application cover letter;
- Research application (district-specific or generic, as required by the district);
- Study summary;
- FAQ document;
- Special contact district approval form;
- Participant informed consent form (if required by the district);
- SSOCS/NTPS Project Director's resume;
- Copy of questionnaires; and
- Application fee (if required by the district).

Where applicable, applications will include the draft 2017-18 NTPS questionnaires provided in Appendix B of this submission, and the 2015-16 NTPS questionnaires will be provided to districts that request them. Other information about the study may be required by the district and will be included with the application or provided upon request.

Approximately one week after the application is submitted to the district (either electronically or in hard copy, as required by the district), SSOCS/NTPS district recruitment staff will contact the district's research office to confirm receipt of the package and to ask when the district expects to review the research application and

when a decision will be made. If additional information is requested by the district (e.g., the list of sampled schools), recruitment staff will follow up on such requests and will be available to answer any questions the district may have throughout the data collection period.

To reduce burden for the special contact districts and improve operational efficiency, NCES is planning to seek research approval simultaneously for NTPS 2017-18 and SSOCS 2018. Although NCES plans to minimize overlap in the schools sampled for NTPS and SSOCS, most of the largest districts will have schools selected for both surveys. All special contact districts with schools in both surveys will receive both research applications concurrently and will be given the option to participate in NTPS only, SSOCS only, or both NTPS and SSOCS. The research request packets for the districts in both studies will contain an additional letter introducing the studies and emphasizing that SSOCS and NTPS are working together to minimize the number of schools asked to participate in both studies.

Some districts charge a fee (~\$50-200) to process research application requests, which will be paid as necessary.

B.2.1.2 School Pre-Contact Letters

The school pre-contact letter is to verify school mailing addresses and to inform schools about the upcoming data collection. A letter is sent to each sampled school informing them of their selection for the study. About 4% of all school addresses get corrected by the U.S. Post Office in response to the pre-contact letter, saving time and effort during the actual data collection period.

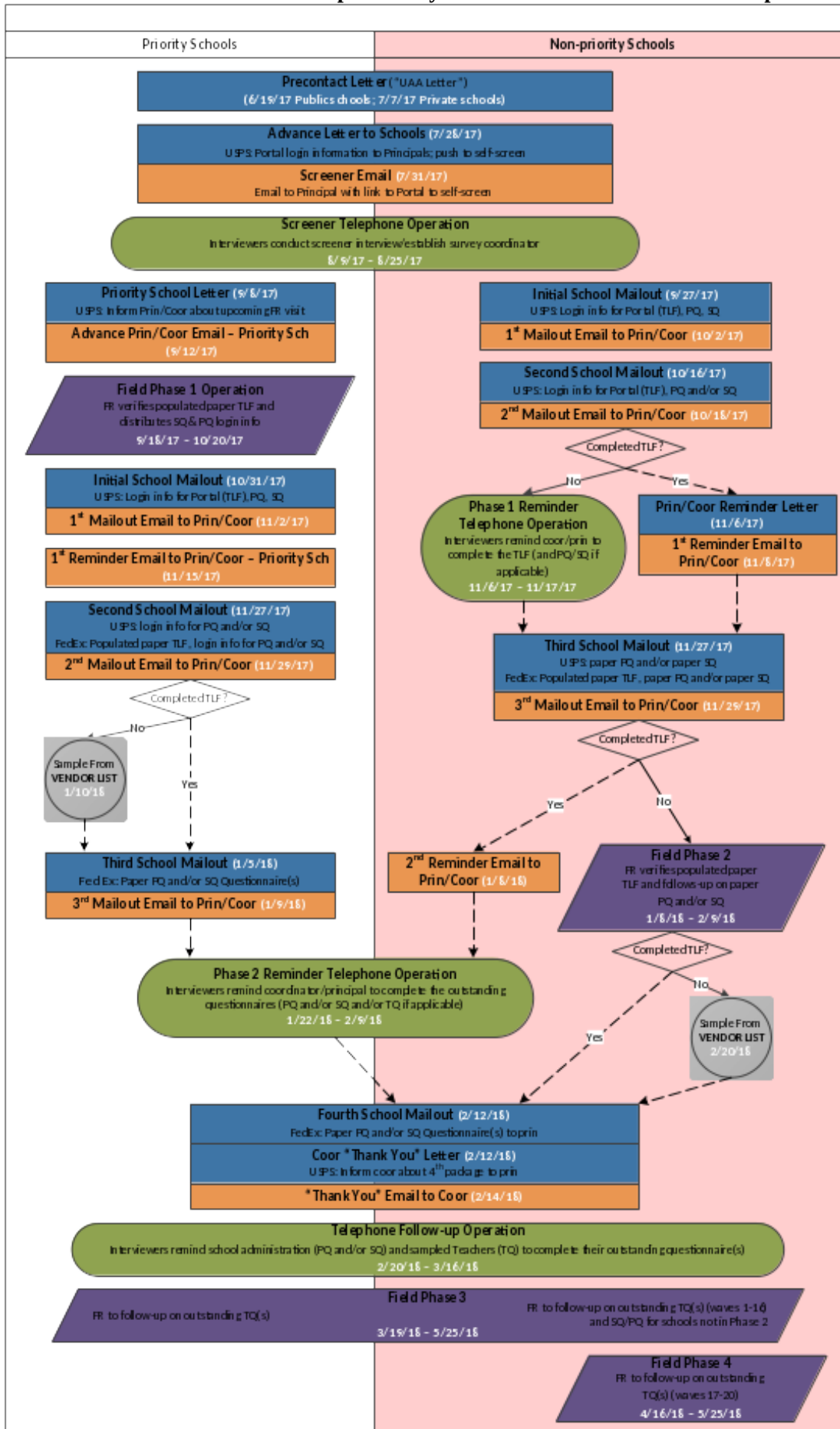
B.2.2 School-level Data Collection Procedures

School-level data collection procedures for NTPS 2017-18 are summarized in Exhibit 1.

In July, all schools will receive an advance letter addressed to the principal at the school address. The letter includes instructions for completing a brief screener interview online using the NTPS Respondent Portal. The purpose of the screener interview is to determine the school's eligibility for the NTPS and establish a survey coordinator. The survey coordinator will be asked to facilitate the completion of NTPS questionnaires within their school, and materials will be mailed to him or her throughout data collection. Principals who do not self-screen will be contacted by telephone.

After the advance letter and screener interview, schools will enter one of two data collection paths. The data collection methodology employed will be dependent on whether the school has been identified as a "priority school." The propensity model is based on a model developed to identify priority schools for the 2015-16 NTPS data collection; the same model with updated information will be used for the 2017-18 NTPS data collection. Prior to the start of NTPS 2017-18 data collection, a propensity model will be run to identify "priority" schools. These "priority" schools have characteristics of schools from which it has been historically difficult to collect data and which have a potentially high impact on weighting. The priority flag takes into account both the response propensity and the base weight of a school to create a measure of a school's potential effect on nonresponse weighting adjustments and final estimates. Schools with either an extremely high weight or an extremely low response propensity have a large response influence, meaning their nonresponse will disproportionately affect the nonresponse adjustment cell in which they are located. Thus, efforts are made to prioritize field operations in these school early during data collection.

Exhibit 1: 2017-18 National Teacher and Principal Survey – School-Level Data Collection Operations



B.2.2.1 Priority Schools

In early September 2017, principals or survey coordinators at priority schools will be mailed a letter, at the school address, informing them that their school may receive a personal visit from Census Bureau staff in the coming weeks. About ten days later, data collection will begin with a personal visit from a Census Bureau Field Representative. The expectation for the personal visit is that the Census Bureau Field Representative will complete the school's Teacher Listing Form (TLF). In most cases, the TLF will be pre-populated with vendor or clerically-researched data and the Field Representative will only need to verify that the teacher information is complete and accurate. The Field Representative will also distribute sealed letters containing login information for the school and principal questionnaires.

Schools for which the personal visit is unsuccessful will receive an initial package in late October 2017 addressed to the survey coordinator at the school address. If a survey coordinator was not established during the screener interview, the package will be addressed to the principal at the school address. The mailed package will contain a letter to the survey coordinator or principal and three individual sealed envelopes that contain login information for completing the TLF, Principal Questionnaire, and School Questionnaire. A few days after the initial package mailing, email will also be used to contact the survey coordinator and principal. Additionally, principals and survey coordinators will be contacted by email around the same time the initial packages are mailed to the sampled schools. The emails will include the appropriate hyperlinks and User IDs to complete the NTPS questionnaires online. A reminder email will be sent in mid-November to principals and survey coordinators.

In late-November 2017, a second package will be mailed to the survey coordinator or principal, at the school address, of nonresponding priority schools. The package will include a reminder letter, a pre-populated paper TLF and a return envelope (if applicable), and/or replacement materials for completing the principal and/or school questionnaires online. Principal and survey coordinator email addresses will be used as means of reminding nonresponding school staff to complete their questionnaires.

In early January 2018, priority schools that have not provided or verified their TLF will have their teachers sampled from the vendor or clerically-researched list of teachers. If outstanding school-level forms remain, a third package will be mailed to the survey coordinator or principal at the school address. This package will include a reminder letter, paper versions of the principal and/or school questionnaire(s), and postage-paid addressed return envelopes. Principal and survey coordinator email addresses will be used as means of reminding nonresponding schools to complete their questionnaires.

Beginning in late January 2018, priority schools that have not yet completed their school and/or principal questionnaires will be sent to a telephone reminder operation aimed at reminding the survey coordinator or school principal to complete their questionnaires. If outstanding school-level forms remain after the telephone reminder operation, one more attempt by mail, email, and telephone will be made to remind the school to complete their outstanding questionnaire(s).

B.2.2.2 Non-priority Schools

In late September 2017, all non-priority schools will receive an initial school package addressed to the survey coordinator at the school address. If a survey coordinator was not established during the screener interview, the package will be addressed to the principal at the school address. The package will contain a letter to the survey coordinator or principal, and three individual sealed envelopes that contain login information for completing the TLF, Principal Questionnaire, and School Questionnaire. Principals and survey coordinators will also be contacted by email around the same time the initial packages are mailed to the sampled schools. The emails will contain the appropriate hyperlinks and User IDs to complete the NTPS questionnaires online.

About three weeks later, a second package will be mailed to nonresponding schools. The package will include a reminder letter to the survey coordinator or principal and replacement materials for completing the outstanding questionnaires online. Principal and survey coordinator email addresses will be used as means of reminding nonresponding school staff to complete their questionnaires.

Beginning in November 2017, nonpriority schools that have not completed their TLF electronically will be sent to a telephone reminder operation aimed at reminding the survey coordinator or school principal to complete their TLF online. Non-priority schools that have completed their TLF but have not returned either the Principal Questionnaire or School Questionnaire will receive a reminder letter and email during this time.

In late November 2017, non-priority schools with outstanding school-level questionnaires will be mailed a third package. The package will include a reminder letter to the survey coordinator or principal, paper versions of the questionnaires that are still outstanding, and postage-paid return envelopes. If the TLF is one of the outstanding questionnaires, the version included in this third mailout will be pre-populated with teacher list data from the vendor or clerical research. Principal and survey coordinator email addresses will be used as means of reminding nonresponding school staff to complete their questionnaires.

In early January 2018, non-priority schools that have not yet completed their TLF will be sent to a Field operation, where sampled schools will receive an in-person visit from a Field Representative. The expectation for the personal visit is that the Census Bureau Field Representative will verify the school's TLF, which will be pre-populated with vendor or clerically-researched data when it's available, and distribute paper school and/or principal questionnaires as needed. After the Field operation, non-priority schools that have not provided or verified their TLF will have their teachers sampled from the vendor or clerically-researched list of teachers.

Beginning in early January 2018, principals and/or survey coordinators in non-priority schools that have completed their TLF but have not completed their school and/or principal questionnaire will be sent a reminder email and contacted by telephone.

If outstanding school and/or principal questionnaires remain after the field or telephone operation, one more attempt by mail, email, telephone, and in-person visit (if not previously visited) will be made to attempt to remind the school to complete their outstanding questionnaire(s).

B.2.3 Teacher Data Collection

Teachers will be sampled weekly from completed or verified TLFs throughout data collection. As teachers are sampled, they will be mailed an initial teacher package containing a letter that introduces the survey, provides the login information to complete their survey online. Around the same time, teachers for whom an email address is available will also be sent an email including the hyperlink and User ID to complete their teacher questionnaire online. If the school has a survey coordinator established, the individually-sealed teacher packages will be sent to the survey coordinator, at the school address, with a cover letter. If the school does not have a survey coordinator established, the teacher packages will be mailed individually to the sampled teachers at the school address in most cases. Exceptions may be made to this for late sampled teachers whose materials may be mailed directly to their school's principal to distribute.

If the school's teachers were sampled from a vendor or clerical list (where the school did not complete or verify a TLF), materials for the sampled teachers to complete their teacher questionnaires will be mailed directly to the teachers at their school address regardless of whether a survey coordinator was established. Exceptions may be made to this for late sampled teachers whose materials may be mailed directly to their school's survey coordinator (when there is one established) or the principal to distribute.

Teachers with a valid email address will be sent an email containing the hyperlink to the online Teacher Questionnaire and their User ID a few days after their initial mailout.

Each sampled teacher will receive as many as three reminder packages to complete their outstanding Teacher Questionnaire. Each teacher mailing will be accompanied by an email to the teacher a few days after the mailing. The first reminder letter will contain the login information for the Teacher Questionnaire (URL and User ID) and will be sent to the survey coordinator (if applicable). The second and third reminder packages will include a letter and a paper questionnaire and will be addressed directly to the sampled teachers at the school address, regardless of whether the school has a survey coordinator established.

Beginning in late January 2018, telephone interviewers will contact survey coordinators to ask them to remind

their schools' sampled teachers to complete their questionnaires. Telephone interviewers and/or Field Representatives will contact nonresponding teachers by phone or during an in-person visit from late February through May 2018.

B.3 Methods to Secure Cooperation, Maximize Response Rates, and Deal with Nonresponse

This section describes the methods that NCES will use to secure cooperation, maximize response rates, and deal with nonresponse for NTPS 2017-18. Section B.3.1 details how NTPS plans to secure cooperation by leveraging its status as the primary source of information on K-12 schools and staffing in the United States. Section B.3.2 describes the methods that will be used to minimize nonresponse. The design is based on the results from the 2015-16 NTPS, which employed a number of different contact strategies aimed at boosting response rates.

B.3.1 Methods to Secure Cooperation and Maximize Response Rates

The entire survey process, starting with securing research cooperation from key public school groups and individual sample members and continuing throughout the distribution and collection of individual questionnaires, is designed to increase survey response rates. In addition, the following elements of the data collection plan, in particular, will contribute to overall success of the survey and will enhance the survey response rates.

1. **Visible support from top-level Federal, State, and local education officials.** Without the support of high-level officials in the U.S. Department of Education, State Education Agencies, and the sampled local school districts, surveys of public school principals and teachers cannot be successfully implemented. Obtaining endorsements from these officials is a critical factor in the success of the data collection procedures. Top-level Education Department officials will need to fully support the data collection by endorsing the survey in writing and sending advance letters and notices to sampled districts that require prior research applications and to individual survey participants (principals and teachers) to encourage participation.
2. **Endorsements from key public school groups.** The level of interest and cooperation demonstrated by key groups can often greatly influence the degree of participation of survey respondents. Endorsements are viewed as a critical factor in soliciting cooperation from state and local education officials. NCES has obtained endorsements for the 2017-18 NTPS from the following organizations or agencies:
 - American Association of School Administrators
 - Association of American Educators
 - Association for Supervision and Curriculum Development
 - American Federation of Teachers
 - Association for Middle Level Education
 - Council of the Great City Schools
 - National Association of Elementary School Principals
 - National Association of Secondary School Principals
 - American Association of School Librarians
 - American Montessori Society
 - National Parent Teacher Association
3. **Stressing the importance of the survey and the respondents' participation.** Official letters will be used to motivate respondents to return surveys. NTPS 2017-18 respondent letters will be sent by the U.S. Census Bureau and signed by the NCES Commissioner and/or the Associate Commissioner of the Sample Survey Division at NCES. Communications in the form of both letters and emails will be personalized for the principal and survey coordinators, which is expected to have positive effects on the survey response rates.

B.3.2 Methods to Minimize with Nonresponse

A major challenge in any survey is obtaining high response rates, and this is even more important today when response rates have been falling among federal surveys in general, and in the SASS/NTPS series of studies in particular.

The main problem associated with nonresponse is the potential for nonresponse bias in the estimates produced using data collected from nonrespondents. Bias can occur when respondents are systematically different from nonrespondents. Two approaches that will be used to reduce the potential for bias are designing the data collection procedures and methods wisely to reduce nonresponse (e.g., establishing survey coordinators) and using statistical methods of sampling and weighting to reduce the effect of nonresponse on the estimates. While the statistical approaches are important in controlling biases and costs, the data collection procedures and methods are at the heart of a successful study.

Methods selected to minimize nonresponse in NTPS 2017-18 will build upon those used in NTPS 2015-16, including actions that were taken late in the data collection to boost principal and teacher response rates.

Data Collection Strategies to Minimize Non Response

1. **Minimize survey burden on schools.** NTPS survey procedures are designed to minimize burden on schools and sampled individuals (principals and teachers), and the survey instruments have been designed to be completed as quickly and easily as possible.

Good questionnaire design techniques have been employed to minimize item nonresponse. Questionnaires from previous rounds of SASS and NTPS were carefully analyzed to determine which items had the highest levels of item nonresponse. This information guided NCES in reviewing the clarity of item wording, definitions, and instructions. Items that were not considered to be effective or useful were removed from the survey so as to streamline the questionnaires and ease the response burden.

A key design feature of NTPS is the ability to link to other NCES collections such as *EDFacts* and the Civil Rights Data Collection (CRDC). Information from these sources will be incorporated into final datasets to allow researchers and policymakers to analyze those data together. This will further reduce the need to collect from schools data that have already been collected from state or district education agencies.

2. **Recruit survey coordinators.** Successive administrations of SASS and NTPS have shown that an important procedure to help maximize response rates is to establish a school-based "survey coordinator" to serve as a primary point of contact for NTPS staff. The use of a survey coordinator is expected to help keep response rates high, provide some minimal data quality checks, and simplify the follow-up process by having one point of contact.
3. **Tailor nonresponse follow up strategies in public schools.** In an effort to maximize response rates and minimize the potential for bias, NCES took a number of steps prior to the 2015-16 NTPS to identify high priority schools. These high priority schools are those to be targeted differently during data collection. The schools identified as high priority had the lowest propensity to respond (based on 2011-12 SASS data, as described below) and the highest potential impact on estimates.

As in the 2015-16 NTPS, public schools sampled for the 2017-18 NTPS will be assigned a "priority" flag based on the weighted response influence of the case. The weighted response influence takes into account both the response propensity and the base weight of a school to create a measure of a school's potential effect on nonresponse weighting adjustments and final estimates. The weighted response influence can be calculated as:

$$\hat{\phi}_i = \log(w_i) \left(\frac{1}{\hat{p}_i} \right)$$

where: $\hat{\phi}_i$ is the final weighted response influence for a school,

w_i is the baseweight for a school, and

$\hat{\rho}_i$ is the estimated response propensity for a school

As the formula shows, a case with either an extremely high weight or an extremely low response propensity has a large response influence, meaning that their nonresponse will disproportionately affect the nonresponse adjustment cell in which they are located. Missing that particular school's information may result in biased estimates (if variables in the propensity model are related to outcomes of interest), and will certainly result in increased variance in the estimates (due to more variable final weights). In order to avoid having extreme weights drive the value of weighted response influence, the formula takes the natural log of the base weight.

The weighted response propensity model for the 2015-16 NTPS was developed using data from the 2011-12 SASS. Specific categories of variables available for evaluation include geography, urbanicity, racial/ethnic makeup, enrollment, grades levels, percent free lunch reciprocity, and type of school. These variables are available in the SASS 2011-2012 and NTPS 2015-16 sample files, enabling us to leverage past experience in creating the response propensity models. The NTPS 2015-16 data collection plan employed propensity modeling to identify high priority schools and modified collection strategies in order to increase response rates for those schools. Results from the NTPS 2015-16 data showed that the model and strategies used helped reduce declining response rates amongst those schools and thus the same propensity model and similar collection strategies will be used in 2017-18 NTPS.

The priority flag was assigned at the school level in the 2015-16 NTPS, and the same will be done for the 2017-18 NTPS. During data collection, the priority flag was used to move high priority schools and schools without a survey coordinator into field follow-up operations earlier in collection in an effort to boost response rates. Schools in the high priority group generally do not respond until later in the data collection process and ultimately require field intervention.

2017-18 NTPS data collection for priority schools will begin with a personal visit from a Census Bureau Field Representative rather than beginning with a series of mailouts and telephone operations. By contacting the school staff in-person at the beginning of data collection, costs are expected to be reduced due to the omission of the mailout and telephone operations that typically precede field operations. In addition, this approach is expected to raise the probability of response by providing the field staff more time to secure the completed questionnaires. The primary focus of the operation will be obtaining a complete TLF; however, the Field Representative will also deliver the invitations to complete the school and principal questionnaires online. Throughout data collection the cases assigned to field will be reviewed by NTPS staff on a daily basis.

NTPS focuses on obtaining cooperation and improving response rates at the school level for a number of reasons. Past administrations of SASS and NTPS have shown that when cooperation is obtained at the school level, teachers and principals are more likely to respond. Additionally, evaluations of schools' response propensities have shown that the nonresponse in past administrations was driven primarily at the school level. Results showed that schools in special contact districts are the primary driving force behind low response propensity. Special districts are those that require additional applications or documentation to collect data in their schools. Nearly 80% of the schools with high propensity for non-response reside in these special districts. For this reason, resources will continue to be allocated to focus heavily on obtaining approvals from special contact districts in order to boost response rates for this group.

4. ***Use vendor lists for teaching sampling.*** NTPS teacher-level response rates are calculated by multiplying response at the school level to the TLF by response at the teacher level. In the past, this has meant that if the school did not complete the TLF, teachers from that school could not be sampled, ultimately lowering the teacher response rate. The goal in NTPS 2015-16 was to improve the overall teacher response rate by allowing NTPS to sample teachers from schools that have not submitted a TLF; therefore, TLFs received from sample schools were supplemented with vendor-purchased teacher lists.

When a vendor-purchased list was unavailable, a clerical operation was conducted to look up teacher information on school and/or district websites. The vendor and clerically-researched lists were evaluated in the 2015-16 NTPS and 2014 NTPS pilot test and showed high levels of comparability to lists obtained directly from schools. In the 2017-18 NTPS, TLFs received from sample schools will be supplemented with vendor-purchased teacher lists and a clerical look-up operation utilizing school websites. This operation will help to improve the overall teacher response rate by allowing teacher sampling from schools that have not submitted a TLF.

5. **Monitor publishability and bias measures.** For NTPS 2015-16, NCES monitored data collection progress throughout survey operations in order to identify and potentially minimize problems with nonresponse. The Census Bureau created weekly “publishability” reports from their data collection tracking system that showed whether key analysis cells were large enough to provide publishable estimates as of that point in time. By monitoring this publishability metric, NCES was able to identify populations of schools for which nonresponse hampered reporting. These results will be considered in designing the sample and nonresponse follow-up strategies for NTPS 2017-18. NCES also monitored R-indicators, a measure of representativeness, or lack of bias in the respondent population, on a weekly basis. The closer the R-indicator is to 1, the more balanced is the respondent population. Towards the end of data collection in 2015-16, the R-indicator for the full sample indicated that the respondent population was fairly well balanced. NCES plans to continue to monitor these two indicators in NTPS 2017-18.
6. **Personalize principal contact materials.** The *National Teacher and Principal Surveys (NTPS) 2015-16 Refusal Conversion Change Request (OMB# 1850-0598 v.13)* was approved in January 2016 as a result of response issues with high priority schools despite early field collection efforts, much of which were due to the data collection timing falling between Thanksgiving and Christmas and a too short length of the field operation. During the field operation, schools often communicated to field staff that they had not received any mailed materials for NTPS to date. They indicated that packages addressed generically to “School Principal/ Administrator” are often either overlooked or thrown out upon receipt at the school, as generically labelled mail is perceived as junk mail. As a result, NTPS 2015-16 requested and received clearance to send personalized letters to nonresponding principals in charter schools, schools in towns, and schools with enrollment less than 100. To be sure that all mailed 2017-18 NTPS materials intended for the school principal successfully make it to the principal, all principal contact materials will be personalized with the principal’s name. Principals’ names will be obtained from vendor-purchased school staff lists. If a principal’s name is not available from the vendor, clerical staff will research this information using school and district websites.
7. **Use of email to target principals, survey coordinators, and teachers.** The 2015-16 NTPS demonstrated that email was an effective tool to drive participation in both the NTPS teacher and principal surveys. It proved that teacher email addresses could be effectively collected on the TLF, school websites, and from vendor lists of teachers; that principal email addresses could be effectively collected from school websites and from vendor purchased school data; and that survey coordinator email addresses could be effectively collected during the screener interview. Because personalized emails carry no cost and may help boost response, throughout 2017-18 NTPS data collection, teachers, principals, and survey coordinators will be contacted via email. The emails will include login information to access the NTPS online survey instruments, in addition to text inviting and subsequently reminding these respondents to complete their survey online.
8. **Send a third reminder email to teachers.** The *2015-16 National Teacher and Principal Survey (NTPS) Teacher Reminder Email Change Request (OMB# 1850-0598 v.15)* was approved in June 2016 and requested the ability to send a third reminder email (fourth email in total) to late-sample waves of teachers in NTPS 2015-16 to give them a final reminder/opportunity to complete the survey before close-out. The response rates for late-sample wave teachers in the NTPS had been leveling off and appeared to be lower than for earlier waves of teachers. This may have been a product of the timing of school testing and late-school year activities because late-sample wave teachers received an invitation to

complete the survey during a period with a heavy school workload. Given that this additional reminder email carried no cost and may help response rates, a third reminder email will be sent to nonresponding teachers during 2017-18 NTPS data collection.

9. **Consider new methods of minimizing nonresponse.** NCES is considering a number of other methods to minimize nonresponse in NTPS 2017-18, including the use of incentives. The 2017-18 NTPS will include an experiment designed to examine the effectiveness of offering teachers a monetary incentive to boost overall teacher response. Further information about incentives are provided below in section B.4.2.

Statistical Approaches to Nonresponse

One of the methods employed to reduce the potential for nonresponse bias is adjustment of the sample weights to account for nonresponse. If schools or teachers with certain characteristics are systematically less likely than others to respond to a survey, the collected data may not accurately reflect the characteristics and experiences of the nonrespondents, which can lead to bias. To adjust for this, respondents are assigned weights that, when applied, result in them representing their own characteristics and experiences as well as those of nonrespondents with similar attributes. The school weights are also raked to sampled-based control totals in order to maintain the background characteristics of the sample. This is another method used to reduce the potential for nonresponse bias in the estimates produced from the data.

Response rates will be computed for the TLF, the School Questionnaire, the Principal Questionnaire, and the Teacher Questionnaire. Data collected through any instrument with a response rate of less than 85 percent will be evaluated for nonresponse bias. In addition to comparing the characteristics of respondents and nonrespondents using data that are available from the sampling frames (for example, school type and school locale from the school frame), we will also compare study estimates to estimates from previous rounds of NTPS and SASS. The nonresponse bias analysis will be similar to that conducted for SASS as reported in study methodology documentation (for the most recent released SASS methodology report, see <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2010332>). A methodology report covering NTPS 2017-18 will be developed and released, and will describe the methods and results of the nonresponse bias analysis.

B.4 Tests of Methods and Procedures

The SASS/NTPS series of studies has a long history of testing materials, methods, and procedures to improve the quality of its data. Section B.4.1 describes those tests that have most influenced the NTPS design, beginning with the 2014-15 NTPS Pilot Test and continuing through a new research project aimed at improving procedures for requesting research approval from special contact districts. Section B.4.2 describes a proposed experiment to include private schools, principals, and teachers in NTPS.

The following tests are planned for the 2017-18 NTPS data collection:

- Incentives for teachers (and/or coordinator), and
- Private School Test.

B.4.1 Tests Influencing the Design of NTPS 2017-18

2014-15 NTPS Pilot Test

Five experiments designed to optimize the design of the 2015-16 NTPS were conducted as part of the 2014-15 NTPS Pilot Test: 1) the Questionnaire Mode Experiment, 2) the TLF Email Experiment, 3) the Invitation Mode Experiment, 4) the Teacher Questionnaire Instruction Experiment, and 5) the Vendor Analysis. Each of these experiments is briefly described below, along with its results and implications for successor NTPS data collections.

1. **Questionnaire Mode Experiment.** This experiment was designed to determine whether paper questionnaires or Internet survey instruments (i.e., mail-only versus internet sequential modes) constituted the most effective mode of collecting the TLF, School Questionnaire, and Principal Questionnaire. For all three survey instruments, the schools assigned to the paper mode had higher response rates than the schools assigned to the internet mode.

Some known issues with data collection could have impacted these response rates. First, the pilot test did not use survey coordinators, a method shown to boost response rates in SASS. Second, there were problems related to the contact materials for the internet treatment groups. As a result of this experiment, NTPS 2015-16 was primarily paper based; used improved contact materials and login procedures; and included an experimental sample of 1,000 schools, outside the main study, which were offered Internet survey at the onset of data collection and which followed standard production NTPS procedures, including the establishment of a survey coordinator.

2. ***Teacher Listing Form (TLF) Email Experiment.*** This experiment was designed to assess the feasibility of collecting teacher email addresses on the TLF and the quality of those collected. The pilot test design included a split-panel experiment, with half of sampled schools randomly assigned to receive a TLF that included a request for teachers' email addresses and the other half to receive a TLF that did not request email addresses. At the end of data collection, response rates were comparable between the schools that received the TLF with the email address field and the schools that received the TLF without the email address field. As a result of this experiment and the Invitation Mode Experiment described below, NCES used the TLF with the email address field in NTPS 2015-16 and plans to continue to do so for NTPS 2017-18.
3. ***Invitation Mode Experiment.*** The purpose of this experiment was to identify which of three methods of inviting teachers to complete the Teacher Questionnaire yielded the best response rates. Schools were randomly assigned to the following invitation modes: 1) both email and mailed paper invitation letters to complete the internet instrument (treatment A), 2) a mailed paper invitation letter to complete the internet instrument only (treatment B), and 3) a mailed package that included a letter and paper questionnaire (treatment C). The results of the experiment indicated that a strategy using a combination of email and paper invitations (treatment A) is best for inviting teachers to complete the internet questionnaire. The response rate for treatment group A was comparable to that of treatment group C that received only mailed paper materials. As a result of this experiment, teachers sampled for NTPS 2015-16 for whom we had a valid email address were sent both email and paper invitations as the initial request to fill out the Teacher Questionnaire. Teachers without valid email addresses were sent their initial invitation as part of a mailed package that included a paper copy of the survey. For the 2017-18 NTPS, NCES plans to push for web response by both mailed and emailed correspondence, switching to a paper questionnaire at the third mailing.
4. ***Teacher Questionnaire Instruction Experiment.*** This experiment was designed to determine (1) whether including instructions in the NTPS questionnaire impacts response rates for questionnaire items and data quality, and (2) whether the position, format, and presence or absence of a preface in the instruction impacts response rates for questionnaire items. NCES is currently analyzing the results from this experiment and plans to incorporate these findings in a future NTPS administration.
5. ***Vendor Analysis.*** The purpose of this experiment was to evaluate both the feasibility of collecting teacher lists from a vendor and the reliability of the purchased information to see whether it could be used to supplement or replace school-collected TLFs. NCES purchased teacher lists from a vendor for schools sampled for the 2014-15 NTPS pilot test. The vendor teacher lists were compared with information collected from the TLFs. The results suggested that the vendor list information was comprehensive and reliable at a relatively low cost. NCES used vendor lists to sample teachers from a subset of schools that did not respond to the TLF in NTPS 2015-16 and plans to use vendor lists for the 2017-18 NTPS.

NTPS 2015-16 Full-Scale Collection

1. ***Schools and Principals Internet Test.*** The 2015-16 NTPS included an Internet experiment for schools and principals, which was designed to test the efficacy of offering an internet response option as the initial mode of data collection, as done previously in the Questionnaire Mode Experiment included in the 2014-15 NTPS Pilot Study, described earlier.

Key differences exist between the 2014-15 and 2015-16 NTPS internet experiments, with the most notable being that the 2015-16 experiment included the use of a survey coordinator at the school, and improved respondent contact materials and mailout packaging. In the 2015-16 NTPS, an independent sample of 1,000 public schools was selected for this experiment, which invited schools and principals to complete the NTPS school-level questionnaires using the internet at the first and second contacts by mail. A clerical operation prior to data collection obtained email addresses for sampled principals assigned to the internet treatment. Principals were sent emails as an initial mode of invitation to complete the NTPS questionnaires as well as reminder emails; the timing of these emails was a few days following the mailings.

Paper questionnaires were offered at the third and final mailout. Data collection for the internet treatment concluded after the third mailing, so the schools in the experimental treatment did not receive a fourth mailing and were not included in the telephone follow-up or field follow-up operations. When comparing the response rates for all three survey instruments at the end of the reminder telephone operation – the most reasonable time to make the comparison – and removing the cases that would have qualified for the early field operation, the response rates for schools assigned to the internet treatment are five to six percent higher than those for the paper treatment. Therefore, the initial mailout will invite respondents to complete online questionnaires during the 2017-18 NTPS data collection for all questionnaire types. Paper questionnaires will be introduced during the third mailing. Principal email addresses (purchased from the vendor) and school-based survey coordinator email addresses (collected at the time the survey coordinator is established) will be utilized during data collection. Invitations to complete the principal and school questionnaires via the Internet response option will be sent to the principal and school-based survey coordinator by email in conjunction with the various mailings.

2. **Contact Time Tailoring Experiment.** This test was designed to determine the optimal contact time for teachers. During the telephone nonresponse follow-up operation, interviewers contacted nonresponding principals and teachers to remind them to complete their questionnaire. Teachers tend to be difficult to reach during the school day due to their teaching schedules. NCES staff hypothesized that teachers may be easier to reach by phone in the late afternoon, when school had been dismissed. To test the accuracy of this theory, an experiment was embedded in the telephone nonresponse follow-up operation. A portion of the NRFU teacher workload received an experimental treatment, where they were intended to be contacted only in the afternoon between 2:00 p.m. and 5:00 p.m. (respondent time). The remainder of the NRFU teacher universe functioned as the control group. These teachers were intended to receive contacts throughout the school day, per typical telephone follow-up procedures. The research questions this test was designed to answer were as follows:
 - a. Are afternoons more productive for calling teachers?
 - b. If not afternoons, are there more productive times than others for calling teachers?
 - c. Do productive contact times for teachers hold globally, or do different types of schools have different productive call time frames?
 - d. Can we use school-level frame information (e.g. urbanicity, school size, grade level) to help tailor call times in future rounds of data collection?
 - e. If the calls are being made at “productive times,” are fewer call attempts required to successfully make contact with the teacher?
 - f. If the calls are being made at “productive times,” are fewer call attempts and total contacts required to obtain a completed interview?

Operational challenges in conducting the call time experiment were encountered. Early in the telephone nonresponse follow-up operation, telephone interviewers reported that school staff members were complaining about receiving multiple calls to reach the sampled teachers. School staff members indicated that they would prefer to know the names of the teachers the interviewer needed to reach so that they could assist the interviewer in as few phone calls as possible. As a result, the results of the experiment could not be evaluated as intended. Instead of comparing the success of reaching the sampled teachers by their treatment group, staff compared the success rates of the actual call times. Call times

were categorized as ‘early’ (before 2:00 p.m.) or ‘late’ (between 2:00 p.m. and 5:00 p.m.). There was not a noticeable difference in the success rates of contacting teachers by call time. Additional analyses on the data may be conducted to help inform future administrations of NTPS.

B.4.2 Tests Included in the Design of NTPS 2017-18

NCES is currently considering options for tests of methods, materials, and procedures to be conducted as part of the full-scale NTPS 2017-18.

1. **Testing rotating content modules.** The School Questionnaire, Principal Questionnaire, and Teacher Questionnaire each include core sections with content that is included in every survey administration. In addition, these instruments include rotating content modules that are fielded in selected administrations of NTPS. NCES is currently conducting cognitive interviews to evaluate new items for rotating NTPS modules on topics of educator evaluation, professional development, classroom organization, and instructional time (OMB #1850-0803 v.147). These cognitive interviews are designed to improve question wording, organization, and the order of the questions in the instruments. Respondents include a mix of teachers and principals from urban, suburban, and rural schools, teachers who are both full- and part-time, and teachers with alternative certification. The final questionnaires, including rotating content modules revised as a result of the cognitive interviews, are included in the NTPS 2017-18 clearance request (OMB# 1850-0598 v.18; expected to be submitted to OMB on April 5, 2017).
2. **Testing the use of teacher incentives.** Teacher incentive treatments are proposed in the NTPS 2017-18 clearance request (OMB# 1850-0598 v.18; expected to be submitted to OMB on April 5, 2017).
3. **Special Contact District Research Project.** NCES conducts several school-based studies within the NCES legislative mandate to report on the condition of education, including NTPS, the Survey of School Crime and Safety (SSOCS), and the National Assessment of Educational Progress (NAEP). A critical step for data collection is obtaining approval from public school districts that require prior approval to conduct studies with students, teachers, and staff. The number of these special contact districts is steadily increasing. This increased requirement poses a barrier to successful data collection, because many districts and schools have complex and lengthy approval processes, reject all outside research, or only review applications for outside research once a year. This has contributed to lower response rates for non-mandatory NCES surveys. There is a research project currently underway at NCES that is exploring how different program areas, both within NCES and in other federal agencies, seek approval from PreK-12 public districts and schools in order to identify best practices and make recommendations for future operations. The results of this research project will inform the design of the special districts operation for NTPS 2019-20.

B.4.3 NTPS 2017-18 Private School Test

All aspects of the private school test are proposed in the NTPS 2017-18 clearance request (OMB# 1850-0598 v.18; expected to be submitted to OMB on April 5, 2017).

B.5 Individuals Responsible for Study Design and Performance

The following individuals are responsible for the NTPS 2017-18 study design, data collection, and analysis:

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