

**DATE:** March 23, 2020  
**TO:** Robert Sivinski, OMB  
**THROUGH:** Carrie Clarady, Avar Consulting, in contract to NCES  
**FROM:** Maura Spiegelman, NCES  
**SUBJECT:** 2020-21 National Teacher and Principal Survey (NTPS 2020-21) Change Request (OMB# 1850-0598 v.29)

The National Teacher and Principal Survey (NTPS), conducted every two to three years by the National Center for Education Statistics (NCES), is a system of related questionnaires that provides descriptive data on the context of elementary and secondary education. Redesigned from the Schools and Staffing Survey (SASS) with a focus on flexibility, timeliness, and integration with other ED data, the NTPS system allows for school, principal, and teacher characteristics to be analyzed in relation to one another. NTPS is an in-depth, nationally representative survey of first through twelfth grade public and private school teachers, principals, and schools. Kindergarten teachers in schools with at least a first grade are also surveyed. NTPS utilizes core content and a series of rotating modules to allow timely collection of important education trends as well as trend analysis. Topics covered include characteristics of teachers, principals, schools, teacher training opportunities, retention, retirement, hiring, and shortages. The NTPS 2019-20 preliminary activities were approved in July 2019, with a change request approved in November 2019 (OMB# 1850-0598 v.26-27). This request is to update the details of the NTPS 2019-20 sampling plan. This request does not introduce changes to the estimated respondent burden or the costs to the federal government. OMB approved the main study for 2020-21 in March 2020 (OMB# 1850-0598 v.28).

The current request is to correct errors in the recently approved NTPS 2020-21 v.28 package. These errors were introduced in the process of document upload and affect burden.

The revisions made to the last approved NTPS 2020-21 clearance documents (OMB# 1850-0598 v.28) are reflected below. Blue text indicates the document in which a change was made, followed by notes regarding the edits. Black font demarks the text that remains unchanged from the last approved, while text in red font shows the revisions that were made.

## Part A

### A.1.4 NTPS Study Design (p. 4)

The sample for NTPS 2020-21 will include approximately ~~10,600~~ **9,920** public schools and principals and ~~53,400~~ **49,250** public school teachers. The respondent universe for public schools will continue to consist of all public schools in the 50 U.S. states and the District of Columbia (DC) that offer instruction in any of grades 1-12. The NTPS 2020-21 will also include a private school sample, as was done in 2017-18, with approximately 3,000 private schools and principals and approximately ~~6,800~~ **6,300** private school teachers.

### A.12 Estimated Response Burden (p. 14-16)

The already approved total response burden estimate for special district IRB approvals is based on 360 minutes for IRB review by one staff member, and 60 minutes per member for special district IRB panel review, assuming each panel would on average be composed of six panel members. The burden per school for reading and potentially following up on the NTPS notification letter is estimated to average about 3 minutes. ~~Based on the estimated hourly rates for principals/administrators of \$46.85<sup>1</sup>, and based on 3,330 total burden hours for NTPS 2020-21 preliminary activities, the total estimated burden time cost to respondents is \$156,011.~~

<sup>1</sup> The average hourly earnings of principals/education administrators in the May 2017 National Occupational and Employment Wage Estimates sponsored by the Bureau of Labor Statistics (BLS) is \$46.85. Source: BLS Occupation Employment Statistics, <http://data.bls.gov/oes/> data type: Occupation code: Education Administrators, Elementary and Secondary Schools (11-9032); Annual Mean Wage \$97,440/2080 hours. Accessed on March 21, 2019.

The standard procedure for estimating burden time response cost is to multiply the estimated average length of time it takes to complete the survey by the average salary. The estimated average hourly earnings of teachers is \$30.38<sup>2</sup>, and of principals/administrators is \$47.47<sup>3</sup> in elementary and secondary schools in the May 2017 National Occupational and Employment Wage Estimates sponsored by the Bureau of Labor Statistics (BLS). **Therefore, based on 3,330 total burden hours for the already approved NTPS 2020-21 preliminary activities, the associated total estimated burden time cost to respondents is \$158,075, and based on an additional 42,328 total burden hours for the rest of NTPS 2020-21 activities, the total estimated burden time is 45,658 hours and the associated total estimated burden time cost to respondents is \$1,714,620.**

**Table 1. Estimates of respondent burden for the 2020-21 NTPS**

| Activity   | Sample Size                | Estimated Response Rate | Estimated Number of Respondents | Estimated Number of Responses | Average Burden Time per Respondent (Minutes) | Total Burden Hours        |
|--|----------------------------|-------------------------|---------------------------------|-------------------------------|--|---------------------------|
| <b>Preliminary Activities (already approved)</b> |                            |                         |                                 |                               |  |                           |
| District IRB Staff Review                        | 300                        | 80%                     | 240                             | 240                           | 360  | 1,440                     |
| District IRB Panel Review                        | 300*6                      | 80%                     | 1,440                           | 1,440                         | 60   | 1,440                     |
| Notification letter – public schools             | 10,600                     | 65%                     | 6,890                           | 6,890                         | 3  | <del>344.5</del><br>345   |
| Notification letter – private schools            | 3,000                      | 70%                     | 2,100                           | 2,100                         | 3  | 105                       |
| <b>Total Preliminary Activities</b>              | --                         | --                      | <b>10,670</b>                   | <b>10,670</b>                 | --   | <b>3,330</b>              |
| <b>Main Data Collection Activities</b>           |                            |                         |                                 |                               |  |                           |
| <b>Public School Staff</b>                       |                            |                         |                                 |                               |  |                           |
| Electronic Teacher listing form                  | <del>10,600</del><br>9,920 | 5%                      | <del>530</del><br>496           | <del>530</del><br>496         | 30   | <del>265</del><br>248     |
| Electronic Teacher listing form (pre-populated)  | <del>10,600</del><br>9,920 | 31%                     | <del>3,286</del><br>3,075       | <del>3,286</del><br>3,075     | 15   | <del>822</del><br>769     |
| Paper Teacher Listing form (pre-populated)       | <del>10,600</del><br>9,920 | 25%                     | <del>2,650</del><br>2,480       | <del>2,650</del><br>2,480     | 15   | <del>663</del><br>620     |
| Paper Teacher Listing form (blank)               | <del>10,600</del><br>9,920 | 4%                      | <del>424</del><br>397           | <del>424</del><br>397         | 30   | <del>212</del><br>198     |
| Coordinator duties                               | <del>10,600</del><br>9,920 | 60%                     | <del>6,360</del><br>5,952       | <del>6,360</del><br>5,952     | 22   | <del>2,332</del><br>2,182 |
| School questionnaire                             | <del>10,600</del><br>9,920 | 72%                     | <del>7,632</del><br>7,142       | <del>7,632</del><br>7,142     | 35   | <del>4,452</del><br>4,166 |
| <b>Public School Principals</b>                  |                            |                         |                                 |                               |  |                           |
| Screener interview                               | <del>10,600</del><br>9,920 | 60%                     | <del>6,360</del><br>5,952       | <del>6,360</del><br>5,952     | 5  | <del>530</del><br>496     |
| Principal questionnaire                          | <del>10,600</del><br>9,920 | <del>0.70</del><br>68%  | <del>7,420</del><br>6,700       | <del>7,420</del><br>6,700     | 30   | <del>3,710</del><br>3,350 |
| <b>Public School Teachers</b>                    |                            |                         |                                 |                               |  |                           |

<sup>2</sup> The average hourly earnings of primary and secondary teachers in the May 2018 National Occupational and Employment Wage Estimates sponsored by the Bureau of Labor Statistics (BLS) is \$30.38. Source: BLS Occupation Employment Statistics, <http://data.bls.gov/oes/> data type: Occupation code: Elementary and Middle School Teachers (25-2020) and Secondary School Teachers (25-2030); accessed on September 4, 2019.

<sup>3</sup> The average hourly earnings of principals/education administrators in the May 2018 National Occupational and Employment Wage Estimates sponsored by the Bureau of Labor Statistics (BLS) is \$47.47. Source: BLS Occupation Employment Statistics, <http://data.bls.gov/oes/> data type: Occupation code: Education Administrators, Elementary and Secondary Schools (11-9032); accessed on September 4, 2019.

|   |                             |                        |                                     |                                     |    |                                    |
|---|-----------------------------|------------------------|-------------------------------------|-------------------------------------|----|------------------------------------|
| Teacher Questionnaire                           | <del>53,400</del><br>49,250 | <del>0.81</del><br>70% | <del>43,254</del><br>34,700         | <del>43,254</del><br>34,700         | 40 | <del>28,836</del><br>23,133        |
| <b>Total Public Schools</b>                     | --                          | --                     | <del>77,916</del><br><b>66,894</b>  | <del>77,916</del><br><b>66,894</b>  | -- | <del>41,822</del><br><b>35,163</b> |
| <b>Private School Staff</b>                     |                             |                        |                                     |                                     |    |                                    |
| Electronic Teacher listing form                 | 3,000                       | 20%                    | 600                                 | 600                                 | 30 | 300                                |
| Electronic Teacher listing form (pre-populated) | 3,000                       | 13%                    | 390                                 | 390                                 | 15 | 98                                 |
| Paper Teacher Listing form (pre-populated)      | 3,000                       | 11%                    | 330                                 | 330                                 | 15 | 83                                 |
| Paper Teacher Listing form (blank)              | 3,000                       | 16%                    | 480                                 | 480                                 | 30 | 240                                |
| Coordinator duties                              | 3,000                       | 60%                    | 1,800                               | 1,800                               | 22 | 660                                |
| School questionnaire                            | 3,000                       | 65%                    | 1,950                               | 1,950                               | 40 | 1,300                              |
| <b>Private School Principals</b>                |                             |                        |                                     |                                     |    |                                    |
| Screener interview                              | 3,000                       | 60%                    | 1,800                               | 1,800                               | 5  | 150                                |
| Principal questionnaire                         | 3,000                       | 65%                    | 1,950                               | 1,950                               | 30 | 975                                |
| <b>Private School Teachers</b>                  |                             |                        |                                     |                                     |    |                                    |
| Teacher Questionnaire                           | <del>6,800</del><br>6,300   | 80%                    | <del>5,440</del><br>5,040           | <del>5,440</del><br>5,040           | 40 | <del>3,627</del><br>3,360          |
| <b>Total Private Schools</b>                    | --                          | --                     | <del>14,740</del><br><b>14,340</b>  | <del>14,740</del><br><b>14,340</b>  | -- | <del>7,433</del><br><b>7,165</b>   |
| <b>TOTAL</b>                                    | --                          | --                     | <del>103,326</del><br><b>91,904</b> | <del>103,326</del><br><b>91,904</b> | -- | <del>52,585</del><br><b>45,658</b> |

\* Duplicative counts of individuals not included in respondent totals. Due to rounding, numbers presented in this table may not add up precisely to the totals provided.

~~Therefore, based on 3,330 total burden hours for the already approved NTPS 2020-21 preliminary activities, the associated total estimated burden time cost to respondents is \$158,075, and based on 52,585 total burden hours for the rest of NTPS 2020-21 activities; the associated total estimated burden time cost to respondents is \$1,783,342.~~

## Part B

### B.1.2 Precision Requirements and Sample Sizes (p. 3)

This section details the school sample sizes and precision requirements for the NTPS 2020-21 public and private school samples.

The final NTPS 2020-21 public school sample will include approximately:

- ~~10,600~~ 9,920 schools and school principals (~~9,300~~ 8,660 traditional public and ~~1,300~~ 1,260 public charter), with the goal of at least 6,700 interviews for each; and
- ~~53,400~~ 49,250 teachers (~~46,900~~ 43,460 traditional public and ~~6,500~~ 5,790 public charter), with the goal of at least 34,700 interviews.

The final NTPS 2020-21 private school sample will include approximately:

- 3,000 schools and school principals, with the goal of at least 1,750 interviews for each; and
- ~~6,800~~ 6,300 teachers, with the goal of at least 4,500 interviews.

| Domain                            | Frame Schools               | Expected Sample Size (completed interviews) | Expected Standard Error   | Design Effect           |
|-----------------------------------|-----------------------------|---|---------------------------|-------------------------|
| <b>All</b>                        | <b>93,634</b>               |   | <b>0.63%</b>              | <b>1.68</b>             |
| Charter                           | 6,819                       |   | 1.71%                     | 1.41                    |
| Non-charter                       | 86,815                      |   | 0.67%                     | 1.66                    |
| Primary                           | 51,470                      |   | 0.88%                     | 1.49                    |
| Middle                            | 14,177                      |   | 1.43%                     | 1.42                    |
| High                              | 20,406                      |   | 1.42%                     | 2.17                    |
| Combined                          | 7,581                       |   | 1.90%                     | 1.83                    |
| City                              | 26,085                      |   | 1.17%                     | 1.67                    |
| Suburban                          | 30,305                      |   | 1.13%                     | 1.58                    |
| Town                              | 12,630                      |   | 1.61%                     | 1.69                    |
| Rural                             | 24,614                      |   | 1.29%                     | 1.79                    |
| Enrollment < 100                  | 7,946                       |   | 3.54%                     | 2.45                    |
| 100 <= Enrollment < 300           | 7,341                       |   | 2.36%                     | 1.60                    |
| 300 <= Enrollment < 500           | 36,097                      |   | 1.00%                     | 1.49                    |
| 500 <= Enrollment < 750           | 23,395                      |   | 1.15%                     | 1.38                    |
| 750 <= Enrollment < 1,000         | 9,447                       |   | 1.64%                     | 1.34                    |
| 1,000 <= Enrollment               | 9,408                       |   | 1.36%                     | 1.26                    |
| Percent FRPL < 35%                | <del>26,848</del><br>27,165 |   | 1.21%                     | <del>1.86</del><br>1.89 |
| 35% <= Percent FRPL < 50%         | <del>15,724</del><br>15,870 |   | <del>1.44%</del><br>1.43% | 1.58                    |
| 50% <= Percent FRPL < 75%         | <del>26,327</del><br>26,578 |   | 1.18%                     | 1.60                    |
| 75% <= Percent FRPL               | <del>23,900</del><br>24,021 |   | 1.28%                     | 1.59                    |
| <del>Not Participating FRPL</del> | <del>835</del>              |   | <del>8.30%</del>          | <del>3.26</del>         |

**Table 4. NTPS 2020-21 public school expected interviews, standard errors, and design effects by state with state oversampling to achieve 25% CV or less**

| State | Frame Schools | Expected Completed Interviews | Expected Standard Error | Design Effect |
|-------|---------------|-------------------------------|-------------------------|---------------|
| All   | 93,634        |                               | 0.63%                   | 1.68          |
| AK    | 510           | ±                             | 4.96%                   | 1.65          |
| WY    | 339           |                               | 4.99%                   | 1.30          |
| DC    | 219           |                               | 4.98%                   | 0.95          |
| VT    | 315           |                               | 4.99%                   | 1.11          |
| SD    | 496           | 1                             | 4.98%                   | 1.52          |
| MT    | 563           | ±                             | 4.99%                   | 1.54          |
| DE    | 218           |                               | 4.98%                   | 0.98          |
| RI    | 297           |                               | 4.98%                   | 1.04          |
| ND    | 421           |                               | 4.98%                   | 1.24          |
| HI    | 292           |                               | 4.99%                   | 1.08          |
| NH    | 455           |                               | 5.00%                   | 1.20          |
| ID    | 706           | ±                             | 4.98%                   | 1.38          |
| ME    | 613           |                               | 5.00%                   | 1.23          |
| NV    | 666           | ±                             | 5.00%                   | 1.47          |
| WV    | 740           |                               | 4.98%                   | 1.26          |
| NM    | 835           | ±                             | 4.98%                   | 1.42          |
| NE    | 870           | ±                             | 4.99%                   | 1.45          |
| CT    | 1,209         | ±                             | 4.99%                   | 1.88          |
| UT    | 993           | ±                             | 4.97%                   | 1.38          |
| OR    | 1,227         | ±                             | 4.99%                   | 1.42          |
| MS    | 1,071         |                               | 4.99%                   | 1.34          |
| IA    | 1,186         | ±                             | 5.00%                   | 1.37          |
| AR    | 960           |                               | 4.99%                   | 1.32          |
| KS    | 1,257         |                               | 4.99%                   | 1.35          |
| KY    | 1,462         | ±                             | 5.00%                   | 1.44          |
| MN    | 2,066         | ±                             | 4.97%                   | 2.07          |
| SC    | 1,231         |                               | 4.92%                   | 1.28          |
| AL    | 1,508         | ±                             | 5.00%                   | 1.42          |
| AZ    | 2,306         | ±                             | 4.99%                   | 2.26          |
| MD    | 1,421         |                               | 4.98%                   | 1.35          |
| OK    | 1,441         | ±                             | 4.99%                   | 1.44          |
| LA    | 1,349         | ±                             | 4.99%                   | 1.39          |
| CO    | 1,671         | ±                             | 4.78%                   | 1.47          |
| WA    | 2,257         | ±                             | 4.77%                   | 1.54          |
| MA    | 1,786         | ±                             | 4.66%                   | 1.43          |
| IN    | 1,881         | ±                             | 4.54%                   | 1.35          |
| WI    | 1,943         | ±                             | 4.52%                   | 1.40          |
| TN    | 1,787         | ±                             | 4.46%                   | 1.32          |
| MO    | 2,008         | ±                             | 4.27%                   | 1.42          |
| VA    | 2,072         | ±                             | 4.01%                   | 1.32          |
| NJ    | 2,474         | ±                             | 3.90%                   | 1.43          |
| GA    | 2,303         | ±                             | 3.72%                   | 1.34          |
| MI    | 3,302         | ±                             | 3.72%                   | 1.59          |
| NC    | 2,638         | ±                             | 3.58%                   | 1.33          |
| PA    | 3,029         | ±                             | 3.41%                   | 1.37          |
| OH    | 3,357         | ±                             | 3.37%                   | 1.37          |
| IL    | 3,920         | 238                           | 3.30%                   | 1.42          |
| FL    | 4,047         | 326                           | 2.95%                   | 1.56          |
| NY    | 4,780         | 354                           | 2.67%                   | 1.39          |
| TX    | 8,880         | 639                           | 2.28%                   | 1.82          |
| CA    | 10,257        | 609                           | 2.21%                   | 1.63          |

Table 5 provides the analogous precision analysis for public school teachers. The expected standard errors were calculated based on analyses using the NTPS 2017-18 final response rates and CV of 25%.

**Table 5. NTPS 2020-21 major domain public teacher expected teacher interviews, standard errors, and design effects with state oversampling to achieve 25% CV or less**

| Domain                        | Frame Full-Time Equivalent Teachers (in 1000s) | Expected Teacher Completed Interviews | Expected Standard Error | Design Effect    |
|-------------------------------|--|---------------------------------------|-------------------------|------------------|
| <b>All</b>                    | <b>3,13</b>                                    | <b>43,254</b>                         | <b>0.38% 0.36%</b>      | <b>3.08 2.74</b> |
| Charter                       | 160.4  | 4,328                                 | 1.07% 1.02%             | 2.48 2.35        |
| Non-charter                   | 2977.2   | 38,925                                | 0.39% 0.38%             | 3.01 2.77        |
| Primary                       | 1487.2   | 16,999                                | 0.57% 0.53%             | 2.80 2.45        |
| Middle                        | 548.3  | 7,899                                 | 0.86% 0.82%             | 2.95 2.68        |
| High                          | 912.8  | 13,725                                | 0.70% 0.66%             | 3.34 3.04        |
| Combined                      | 189.3  | 4,629                                 | 1.07% 1.03%             | 2.67 2.46        |
| City                          | 928.7  | 12,939                                | 0.69% 0.64%             | 3.08 2.68        |
| Suburban                      | 1214.0   | 14,301                                | 0.65% 0.61%             | 3.02 2.69        |
| Town                          | 365.0  | 6,326                                 | 0.96% 0.91%             | 2.89 2.63        |
| Rural                         | 629.8  | 9,688                                 | 0.79% 0.75%             | 3.01 2.73        |
| Enrollment < 100              | 38.4   | 816                                   | 2.29% 1.93%             | 2.15 2.37        |
| 100 <= Enrollment < 300       | 90.3   | 1,766                                 | 1.67% 1.52%             | 2.46 2.38        |
| 300 <= Enrollment < 500       | 863.4  | 12,461                                | 0.66% 0.64%             | 2.76 2.42        |
| 500 <= Enrollment < 750       | 864.9  | 11,868                                | 0.72% 0.67%             | 3.09 2.71        |
| 750 <= Enrollment < 1,000     | 475.8  | 6,150                                 | 1.01% 0.95%             | 3.18 2.80        |
| 1,000 <= Enrollment           | 804.7  | 10,194                                | 0.81% 0.78%             | 3.38 3.07        |
| Percent FRPL < 35%            | 969.0  | 13,704                                | 0.69% 0.65%             | 3.24 2.91        |
| 35% <= Percent FRPL < 50%     | 541.1  | 7,905                                 | 0.89% 0.84%             | 3.15 2.86        |
| 50% <= Percent FRPL < 75%     | 861.7  | 11,631                                | 0.71% 0.67%             | 2.97 2.68        |
| 75% <= Percent FRPL           | 737.8  | 9,487                                 | 0.79% 0.73%             | 2.94 2.52        |
| <b>Not Participating FRPL</b> | <b>28.0</b>                                    | <b>526</b>                            | <b>3.64%</b>            | <b>3.49</b>      |

### Sampling – Private Schools

The NTPS private school sample will be roughly the same as the private school survey from Schools and Staffing Survey (SASS) 2011-12: a school sample size of 3,000 and about 1,750 completed school interviews. For the 2017-18 NTPS, the sample size was 4,000 (expecting 2,266 completed school interviews) to achieve sufficient power for an embedded experiment.

The sampling plan oversamples as follows:

- Elementary schools are sampled at a rate proportional to the measure of size;
- Secondary schools are sampled at a rate proportional to 3 times the measure of size;
- Combined schools are sampled at a rate proportional to 1.2 times the measure of size;
- The oversampling rates for Nonsectarian schools are increased by an additional factor of 1.25 (e.g. the oversampling rate for Nonsectarian secondary schools is  $3 \times 1.25 = 3.75$ ); and
- The oversampling rates for Baptist schools are increased by an additional factor of 1.1 (e.g. the oversampling rate for Baptist combined schools is  $1.2 \times 1.1 = 1.32$ ).

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 4,500. Assuming the attrition rate for the 2020-21 NTPS will be similar to the rate for 2017-18, the sample size needs to be ~~6,800~~ 6,300 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 6 and 7 show expected sample sizes, standard errors, and CVs for population percentages of 20% by key domains of school type, grade level, and region.

Table 6 presents a portion of the analysis for private schools by affiliation, grade level, and region.

**Table 6. School-domain expected interviews, standard errors, and design effects for the NTPS 2020-21 private school sample**

| School domain   | Frame schools | Expected completed school interviews |       | For 20% population percentage |                   |               |        | Min pop % for CV <30% |
|-----------------|---------------|--------------------------------------|-------|-------------------------------|-------------------|---------------|--------|-----------------------|
|                 |               |                                      |       | Expected standard error       | 95% CI half-width | Design effect | CV     |                       |
| All             | 24,984        | <del>1,950</del>                     | 1,750 | 1.24%                         | 2.44%             | 1.70          | 6.22%  | 1.06%                 |
| Catholic        | 6,428         | <del>598</del>                       | 537   | 2.13%                         | 4.18%             | 1.53          | 10.66% | 3.06%                 |
| Other religious | 12,006        | <del>740</del>                       | 664   | 2.00%                         | 3.92%             | 1.66          | 10.01% | 2.71%                 |
| Nonsectarian    | 6,550         | <del>612</del>                       | 549   | 2.17%                         | 4.25%             | 1.62          | 10.84% | 3.16%                 |
| Elementary      | 14,030        | <del>702</del>                       | 630   | 1.86%                         | 3.64%             | 1.36          | 9.29%  | 2.34%                 |
| Secondary       | 2,609         | <del>558</del>                       | 501   | 1.96%                         | 3.85%             | 1.21          | 9.81%  | 2.61%                 |
| Combined        | 8,345         | <del>691</del>                       | 620   | 1.94%                         | 3.80%             | 1.45          | 9.69%  | 2.54%                 |
| Northeast       | 6,018         | <del>540</del>                       | 485   | 2.57%                         | 5.04%             | 2.00          | 12.86% | 4.39%                 |
| Midwest         | 6,024         | <del>416</del>                       | 373   | 2.66%                         | 5.21%             | 1.65          | 13.30% | 4.68%                 |
| South           | 8,081         | <del>626</del>                       | 562   | 2.10%                         | 4.11%             | 1.55          | 10.48% | 2.96%                 |
| West            | 4,861         | <del>368</del>                       | 330   | 2.79%                         | 5.47%             | 1.61          | 13.96% | 5.13%                 |

Table 7 provides the analogous precision analysis for private school teachers.

**Table 7. Major domain expected teacher interviews for the NTPS 2020-21 private school sample**

| School domain   | Frame teachers (FTE) | Expected completed teacher interviews |     | For 20% population percentage |                        |                      |                          | Min pop % for CV <30%  |
|-----------------|----------------------|---------------------------------------|-----|-------------------------------|------------------------|----------------------|--------------------------|------------------------|
|                 |                      |                                       |     | Expected standard error       | 95% CI half-width      | Design effect        | CV                       |                        |
| All             | 449,441              | <del>5,440</del>                      |     | 1.02%                         | 2.00%                  | <del>2.91</del> 2.93 | <del>5.09%</del> 5.10%   | <del>0.71%</del> 0.72% |
| Catholic        | 136,810              | <del>1,812</del>                      |     | <del>1.52%</del> 1.80%        | <del>3.61%</del> 3.53% | <del>3.17</del> 3.10 | <del>9.20%</del> 9.01%   | <del>2.30%</del> 2.21% |
| Other religious | 183,015              | <del>1,896</del>                      |     | <del>1.54%</del> 1.68%        | <del>3.23%</del> 3.29% | <del>2.67</del> 2.72 | <del>8.25%</del> 8.39%   | <del>1.86%</del> 1.92% |
| Nonsectarian    | 129,616              | <del>1,732</del>                      |     | <del>1.42%</del> 1.82%        | <del>3.54%</del> 3.56% | <del>2.92</del> 2.94 | <del>9.03%</del> 9.09%   | <del>2.21%</del> 2.24% |
| Elementary      | 174,278              | <del>1,433</del>                      |     | <del>1.27%</del> 1.71%        | <del>3.42%</del> 3.36% | <del>2.25</del> 2.28 | <del>8.72%</del> 8.56%   | <del>2.07%</del> 1.99% |
| Secondary       | 67,254               | <del>1,822</del>                      |     | <del>1.47%</del> 1.72%        | <del>3.30%</del> 3.37% | <del>2.68</del> 2.73 | <del>8.43%</del> 8.59%   | <del>1.93%</del> 2.01% |
| Combined        | 207,910              | <del>2,186</del>                      |     | <del>1.73%</del> 1.58%        | <del>3.04%</del> 3.10% | <del>2.72</del> 2.78 | <del>7.76%</del> 7.91%   | <del>1.64%</del> 1.71% |
| Northeast       | 128,835              | <del>1,630</del>                      |     | <del>1.55%</del> 1.96%        | <del>3.81%</del> 3.85% | <del>3.19</del> 3.27 | <del>9.73%</del> 9.81%   | <del>2.56%</del> 2.61% |
| Midwest         | 88,259               | <del>1,092</del>                      |     | <del>1.27%</del> 2.25%        | <del>4.39%</del> 4.40% | <del>2.83</del> 2.80 | <del>11.20%</del> 11.23% | <del>3.37%</del> 3.39% |
| South           | 154,954              | <del>1,749</del>                      |     | 1.451.75%                     | <del>3.43%</del> 3.42% | <del>2.77</del> 2.78 | <del>8.76%</del> 8.74%   | <del>2.09%</del> 2.08% |
| West            | 77,393               | <del>970</del>                        | 794 | 2.38%                         | <del>4.66%</del> 3.67% | <del>2.83</del> 2.82 | <del>11.88%</del> 11.91% | <del>3.77%</del> 3.79% |