

# City Health Dashboard Technical Document

Part 2: Education Data

Version 3.1: Updated July 18, 2019



#### **Contents**

Section 1: Overview	
Document Mission	5
Important Changes for June 2019 Release of High School Graduation Estimates	5
Note on Absenteeism	5
State-based Education Data Selection Criteria	5
Updates to Technical Document	6
City Health Dashboard Team	7
Downloading Education Data	8
Citing Dashboard Data and Technical Document	8
Feedback or Errors	8
SECTION 2: Education Analytic Decisions	g
Education Level Disaggregation	9
School Inclusion	9
Data Censoring	9
Data Disclaimer	9
Data Rounding	9
Federal Information Processing Standards (FIPS) codes	9
Note on Honolulu, HI FIPS code	g
Subgroup Availability and Categories	10
Population Percentages	10
Reporting Rates	10
Validation	10
SECTION 3: School Geographic Mapping	11
Introduction to this Section	11
Analyses	11
Data inputs	11
Spatial join	11
SECTION 4: Metric Calculation for State-based Education Data	13
Introduction to this Section	13
A. High School Graduation	13
High school graduation: General notes	13
High school graduation: Reporting rates, numerators, and denominators	13
High school graduation: Weights	13

# City Health DASHBOARD

High school graduation: Categorizing subgroups	14
High school graduation: Data censoring	14
High school graduation: Analysis	14
High school graduation: Multi-year data	15
High school graduation: Indicators	15
High school graduation: State-specific notes	15
B. Third-grade Reading Proficiency	17
Third-grade reading proficiency: General notes	17
Third-grade reading proficiency: Reporting rates, numerators, and denominators	17
Third-grade reading proficiency: Weights	17
Third-grade reading proficiency: Categorizing subgroups	17
Third-grade reading proficiency: Data censoring	17
Third-grade reading proficiency: Analysis	18
Third-grade reading proficiency: Multi-year data	19
Third-grade reading proficiency: Indicators	19
Third-grade reading proficiency: State-specific notes	20
SECTION 5: Metric Calculation for National Education Data Sources	21
Introduction to this Section	21
A. Civil Rights Data Collection (CRDC)	21
CRDC: General notes	21
CRDC: Reporting rates, numerators, and denominators	21
CRDC: Weights	21
CRDC: Categorizing subgroups	21
CRDC: Analysis	21
CRDC: Multi-year data	22
CRDC: Indicators	22
CRDC: Metric-specific notes	22
SECTION 6: Comparison to EDFacts Data	23
SECTION 7: Acknowledgements	23
SECTION 8: References	24
Appendix A: Summary of Dataset of Origin, Censorship Rules, Estimate Provenance and Date of Acquisition (metrics only)	
Appendix B: High School Graduation Data Censorship Criteria by State	
Appendix C: Third-grade Reading Proficiency Data Censorship Criteria by State	28

# City Health DASHBOARD

Appendix D: Subgroups Reported by State for High School Graduation	29
Appendix E: Summary of Definition of Hispanic, NHOPI and Other Race for Metrics with Despecific Values (by Metric)	• .
Appendix F: High School Graduation Data by State	30
Appendix G: Third-grade Reading Proficiency by State	31
Appendix H: High School Graduation Data Sources	33
Appendix I: Third-grade Reading Proficiency Data Sources	36
Appendix J: Glossary of Terms	39
Appendix K: Updates Summary	40



#### **Section 1: Overview**

The City Health Dashboard (the Dashboard) is a one-stop resource allowing users to view and compare data from multiple sources on health and the factors that shape health to guide local solutions. Through a vigorous selection process, the City Health Dashboard selected 37 metrics spanning 5 domains—clinical care, health behaviors, health outcomes, physical environment, and social and economic factors—to quantify health, health determinants, and equity at the city level, and where available, census tract level.

The Dashboard metrics are derived from both private and publicly available data sources, with some data sources contributing several metrics and others contributing only a single metric.

#### **Document Mission**

This document is written for an audience interested in the technical attributes of the education metrics—absenteeism, high school graduation and third-grade reading proficiency—of the Dashboard. It provides details on which data sources, variables, and formulas were used to operationalize the education metrics and explains the rationale behind analytic decisions. It should be used in conjunction with the Technical Document Part 1, which addresses all other technical elements of the Dashboard analytics.

Users are invited to contact the Dashboard (<u>info@cityhealthdashboard.com</u>) with general feedback or questions not addressed below.

#### Important Changes for June 2019 Release of High School Graduation Estimates

We have made several updates and methodological improvements to our education data for our June 2019 release, including:

- Elimination of high school graduation enrollment weights. See Section 4A for more information.
- Addition of English proficiency status subgroup disaggregation for high school graduation. See Section 4A for more information.
- Addition of a spatial buffer for high school graduation. See Section 3 for more information.

#### Note on Absenteeism

Absenteeism was originally included in the City Health Dashboard Technical Document Part 1 as the data are not from state-based education data sources, but rather a national data source. However, for our June 2019 release, the Dashboard decided to combine all education metrics into a separate technical document, known as City Health Dashboard Technical Document Part 2: Education Data. Please refer to the City Health Dashboard Technical Document Part 1 for the technical attributes of the non-education metrics available on the Dashboard.

#### State-based Education Data Selection Criteria

The Dashboard chose to use state-based education data sources for high school graduation and third-grade reading proficiency instead of federally reported data sources through the U.S. Department of Education EDFacts (EDFacts). State-based education data sources are updated more regularly and provide data at a more granular level than federally reported data.



#### Limitations of State-based Education Data Sources

Overall, state-based education data are not reported or collected centrally. Caution is needed when comparing values across states as there may be variability in data collection and reporting practices by each state department of education. Any specific questions regarding the original data collection and reporting should be directed to the specific state departments of education. There are variations between and within states in terms of the following:

- Most recent year of data
- Data update frequency
- Race/ethnicity, gender, English proficiency status subgroup disaggregation availability
- Race/ethnicity and English proficiency status categories and definitions
- Data censorship criteria
- Definition of reading proficiency
- Data file layout and supporting documentation

The Dashboard acquired state departments of education. Some states have different release schedules so there are different years of data between and within states. For states without publicly available and downloadable data on their website, the Dashboard made best efforts to submit data requests as allowed by the project's timeline. The Dashboard made best efforts to standardize data collection and analysis.

#### Data Analysis

Primary data analysis of values calculated by the Dashboard was performed by Sarah Conderino, MPH (Surveillance Data Scientist, Department of Population Health, NYU School of Medicine) and Miriam Gofine, MPH (Senior Data Analyst, Department of Population Health, NYU School of Medicine). Allegra Wilson, Shauna Ford, and Taylor Lampe contributed to data validation.

#### <u>Updates to Technical Document</u>

This technical document will be continuously updated as needed. Please note that the date of the last update for this document is provided on the first page of this document and on the footer of this document. Documentation of updates can be found in Appendix K.



#### City Health Dashboard Team

Marc Gourevitch, MD, MPH Primary Investigator, City Health Dashboard

Muriel and George Singer Professor of Population Health and Chair, Department of Population Health, NYU Langone Health

Lorna Thorpe, PhD Methods Co-Primary Investigator, City Health Dashboard

Professor of Epidemiology, NYU School of Medicine

Director of the Division of Epidemiology, NYU School of

Medicine

Vice Chair of Strategy and Planning, Department of Population

Health, NYU Langone Health

Neil Kleiman, PhD City Policy/Partnerships Co-Primary Investigator, City Health

Dashboard

Clinical Assistant Professor of Public Service, NYU Wagner

Graduate School of Public Service

Shoshanna Levine, DrPH,

MPH

Program Director, City Health Dashboard

Becky Ofrane, MPH Manager, Engagement and Partnerships, City Health

Dashboard

Ben Spoer, PhD, MPH Manager, Metrics and Analytics, City Health Dashboard

Samantha Breslin, MPA Project Coordinator, City Health Dashboard

Miriam Gofine, MPH Senior Data Analyst, City Health Dashboard

Taylor Lampe, MPH Data Analyst, City Health Dashboard

Allegra Wilson, BA Research Analyst, City Health Dashboard



### **Downloading Education Data**

Dashboard education data are available for free download at <a href="https://www.cityhealthdashboard.com/data-downloads">www.cityhealthdashboard.com/data-downloads</a>. Users should consult the Downloadable Data Codebook, also available at <a href="https://www.cityhealthdashboard.com/data-downloads">www.cityhealthdashboard.com/data-downloads</a>, for more detail.

#### Citing Dashboard Data and Technical Document

#### Dashboard data:

City Health Dashboard. *City Health Dashboard Data*. New York: City Health Dashboard; 2019. Available for download at www.cityhealthdashboard.com/data-downloads.

#### **Technical Document:**

Wilson A, Gofine M, Kum S, Ford S, Athens J, Levine S, Spoer B, and Conderino S. *City Health Dashboard Technical Document, Part 2: Education Data*. New York: City Health Dashboard; 2019. Available for download at <a href="https://www.cityhealthdashboard.com/data-downloads/technical-documentation">www.cityhealthdashboard.com/data-downloads/technical-documentation</a>.

#### Feedback or Errors

Users are encouraged to contact the Dashboard with comments or questions regarding cityhealthdashboard.com and any documents available for download from it, including this Technical Document, at <a href="mailto:info@cityhealthdashboard.com">info@cityhealthdashboard.com</a>.



### **SECTION 2: Education Analytic Decisions**

#### **Education Level Disaggregation**

School districts, also known as local education agencies (LEA), do not map directly to city boundaries. Thus, the Dashboard acquired data at the individual school level in order to select the schools that are physically located within the city boundaries. The provided education estimates are only city-level estimates, not school district-level estimates. Census tract-level estimates are not available. For more detailed information on the count of schools within each city and the number of schools contributing to each city-level estimate, please email info@cityhealthdashboard.com.

#### School Inclusion

All public schools were included in analysis. This consists of regular schools (including charter and magnet schools), special education schools, vocational schools, and other/alternative schools. For definitions of these types of schools, please refer to individual state departments of education or Appendix J.

#### **Data Censoring**

Data censorship varies between and within data sources and may not reflect the Dashboard's policies noted in the City Health Dashboard Technical Document Part 1. Please refer to Section 4 and 5 and Appendix A, B & C for more information on the censoring policies by metric and data source.

#### **Data Disclaimer**

Estimates presented in the Dashboard are subject to the same limitations as those inherent in the source datasets. We highlight the most likely sources of bias in Section 6.

#### **Data Rounding**

All calculated values were rounded to one decimal place immediately prior to data export.

#### Federal Information Processing Standards (FIPS) codes

The Federal Information Processing Series (FIPS), formerly Federal Information Processing Standards, are codes for geographic entities maintained and issued by the Census Bureau. When concatenated as State-County, State-Place, or State-County-Tract, FIPS codes function as unique identifiers for geographic entities. The Census Bureau assigns codes to geographic entities such as tracts, which are not covered by FIPS. Note: Census Bureau codes for tracts are referred to as Tract FIPS within the Dashboard.

#### Note on Honolulu, HI FIPS code

The Dashboard reports data for the 500 most populous cities in the nation as selected by the CDC's 500 Cities Project.<sup>2</sup> The Dashboard selected city and tract FIPS codes as census tract boundary shapefiles released by the 500 Cities Project.<sup>3</sup> As per the CDC 500 Cities Project, the Dashboard uses the FIPS code for the county of Honolulu, Hawaii (15-003) to represent the geographic area associated with the city of Honolulu (Urban Honolulu CDP, FIPS code 15-71550) for absenteeism, high school graduation, and third-grade reading proficiency.<sup>4</sup>



#### Subgroup Availability and Categories

The Dashboard acquired disaggregated education data when possible. Availability of subgroup disaggregation and categorization of subgroups vary between data sources and may not reflect the Dashboard categories.

Subgroup disaggregation availability by metric:

Metric	Race/ethnicity	Gender	English proficiency status
Absenteeism	X	X	
High school graduation	X	Х	X
Third-grade reading proficiency			

For race/ethnicity groups across all three metrics, the Dashboard combined according to the following demographic groups: Asian; Black; Hispanic; White (not Hispanic or Latino); and Other. For a summary of definitions of Hispanic, Asian, and Other race for metrics with demographic-specific values, please refer to Appendix E. For more information on the rationale behind these population groups, refer to the City Health Dashboard Technical Document Part 1.

#### Population Percentages

Text describing population breakdowns by race/ethnicity group rate values are on the Demographic Detail page for absenteeism and high school graduation. These values are not available for download. Please email <a href="mailto:info@cityhealthdashboard.com">info@cityhealthdashboard.com</a> for more information on their calculation.

#### Reporting Rates

Absenteeism, high school graduation, and third-grade reading proficiency rates are reported as calculated by the Dashboard staff. Confidence intervals are presented when available, but not all data sources provided all necessary data elements for the calculation.

Since there were not always numerators or denominators reported in third-grade reading proficiency datasets, the Dashboard analysts calculated weights based on grade-level enrollment for aggregating school-based rates to the city level. For more information on the relevant formulas for each metric, please refer to Section 4B.

#### **Validation**

The Dashboard implemented a multi-step data validation process to ensure the accuracy of (1) metric value calculation and (2) data uploaded to the website display.

- Internal data results validation.
   Analyses on the Dashboard were initially calculated by a primary analyst from the City Health Dashboard analysis team. All analyses were then independently replicated by a secondary analyst within the group. Results were directly compared and if applicable, discrepancies were iteratively investigated and internally documented until the two separate analyses generated identical values.
- 2. The Dashboard development site data validation.
  A quality assurance audit by the site's web developers at Forum One ensured that values calculated by the Dashboard staff in SAS correctly appear on the site.



#### **SECTION 3: School Geographic Mapping**

#### Introduction to this Section

Education metrics were defined using schools that fell within the geographic boundaries of the Centers for Disease Control and Prevention (CDC) 500 Cities Project. The final sample of schools were filtered based on the following National Center for Education Statistics (NCES) data files:

- NCES School Directory files
- NCES Education Demographic and Geographic Estimates (EDGE) files
- NCES Elementary/Secondary Information Systems (EISi) grade enrollment files The years of data for each data file varied by metric depending on when the analysis was conducted. The individual school estimates within a city were then aggregated to provide city-

level metrics for absenteeism, high school graduation, and third-grade reading proficiency.

All analyses were performed using SAS version 9.4 and ArcGIS 10.4.1.5,6

#### Analyses

#### Data inputs

- (1) NCES School Directories. The flat files were downloaded from here.
  - High school graduation: NCES (Preliminary) Directory 2017-18 & NCES Directory (v.1a) 2016-2017 7,8
  - Absenteeism and third-grade reading proficiency: NCES (Preliminary) Directory 2016-17 & NCES Directory (v.1a) 2015-2016 9,10
- (2) NCES Education Demographic and Geographic Estimates (EDGE) files for public schools for a school year. The file was downloaded from here.
  - a. High school graduation: NCES EDGE 2016-17 shapefile (points)<sup>11</sup>
  - b. Absenteeism and third-grade reading proficiency: NCES EDGE 2015-16 shapefile (points)<sup>12</sup>
- (3) NCES Elementary/Secondary Information Systems (EISi) data file created using the tableGenerator for the 2015-16 school year (most recent available in the system). This file was only used for third-grade reading proficiency. Data file containing information about grades from NCES EISi was downloaded from <a href="here">here</a>. The following fields were use:
  - a. NCESSCH
  - b. School Type [Public School]: "1-Regular school", "2-Special education school", "3-Vocational school", "4-Alternative/other school"
    - i. Third-grade reading proficiency: Grade 3 offered [Public School]: "1-Yes", "2-No"
- (4) City boundaries shapefile (polygons) from the CDC 500 Cities Project.<sup>3</sup> The file was downloaded from here.

#### Spatial join

- (5) The spatial projection of the public schools shapefile was transformed to match the projection of the city boundaries shapefile.
- (6) A spatial join was performed between the re-projected EDGE public schools shapefile and the city boundaries shapefile. The result of the spatial join is public schools within city boundaries of the CDC 500 Cities Project.
- (7) For absenteeism, the latitude and longitude of a school, as per the CCD\_LATCOD and CCD\_LONCOD variables, was used to determine its location within city boundaries defined by the CDC 500 Cities Project.<sup>14</sup>

# City Health DASHBOARD

(8) As part of our methodology improvements for June 2019, we applied a 10m buffer to the spatial join for high school graduation. This "across the street" buffer captures some schools that are considered to be schools in a given city, but would not have been captured without the buffer because the point location of the school falls just outside the city boundaries. This buffer was applied to high school graduation, but <u>not</u> absenteeism and third-grade reading proficiency. The buffer will be applied to those metrics when the underlying data sources are next updated.

For more details on the SAS code and ArcGIS methods, please contact the Dashboard at info@cityhealthdashboard.com.



#### **SECTION 4: Metric Calculation for State-based Education Data**

#### Introduction to this Section

State-based education data provide the underlying data for the high school graduation and third-grade reading proficiency metrics. This section is organized by metric, with notes on elements specific to the high school graduation and third-grade reading proficiency metrics.

All analyses were performed using SAS v9.4. For more details on the SAS code, please contact the Dashboard at <a href="mailto:info@cityhealthdashboard.com">info@cityhealthdashboard.com</a>.

#### A. High School Graduation

High school graduation: General notes

The high school graduation metric was calculated using state-based education data sources. These data were acquired from November 2019 - April 2019. The Dashboard defines high school graduation as the percent of public school students who graduate high school within four years of entering ninth grade. Note: this metric is at the city (not school district) level, and involves all school types. This is commonly referred to as the Four Year Adjusted Cohort Graduation Rate. The formula is presented here:

If you have any questions regarding the Four Year Adjusted Cohort Graduation Rate, please direct them to the individual state departments of education.

High school graduation: Reporting rates, numerators, and denominators

High school graduation rates are reported as calculated by the Dashboard staff. States vary in how they report rates—they can be reported as exact rates or approximate rates. Exact rates are reported as reported by the state department of education and approximate rates (e.g. ~95%) are reported as the value (95%). The type of rate is noted in the downloadable data.

Numerators and denominators are collected and reported when available. Confidence intervals are calculated for almost all states, except for Louisiana, Texas, and certain race/ethnicities for DC.

High school graduation: Weights

In the May 2018 release of high school graduation, the Dashboard calculated weights based on grade-level enrollment in order to aggregate school-based rates to the city level as there were not always numerators or denominators reported. Sensitivity analyses identified this analytic decision as contributing to elevated city-level rates.

For the June 2019 release, the Dashboard eliminated the enrollment weight for high school graduation to reduce this source of bias. The Dashboard made sure to acquire school-level datasets that provided the rate and numerators and/or denominators for high school graduation data. However, some states were unable to publicly release numerators and/or denominators. For those states, the Dashboard provided the individual schools of interest so the state department of education could calculate city-level rates for us.



High school graduation: Categorizing subgroups

Not all states provided disaggregated data by subgroup. For more detail on what subgroups are available by state, please refer to Appendix D.

The following race/ethnicity groups are presented on the Dashboard: Asian, Black, Hispanic, White, Other. Please refer to Appendix E for more detail on the Dashboard's categorization of race/ethnicity groups used for high school graduation. If you have any questions on how state-specific race/ethnicity groups are defined, please direct them to the individual state department of education.

The Dashboard disaggregates high school graduation data by English proficiency status disaggregation to calculate estimates for Limited English Proficiency (LEP). Nomenclature and definition of this subgroup varies by state. Of note, some states refer to it as "LEP," "English Language Learners (ELL)," or "English Learners (EL)." The Dashboard chose to name the subgroup "LEP" to be consistent with the 2016-2017 NCES reporting of high school graduation data by demographic characteristics.<sup>15</sup> If you have any questions on how state-specific English proficiency status is defined, please direct them to the individual state department of education.

#### High school graduation: Data censoring

State-based education data adhere to the state's data censoring criteria. The Dashboard did not censor data further than what individual states already censored. No individual-level data were accessed or analyzed. For more detail on individual states' data censoring criteria, please refer to Appendix B.

#### High school graduation: Analysis

Data were acquired from state departments of education (Appendix F & H). State file formats varied substantially. From each file, the Dashboard identified columns relevant to the metric and created a macro that would systematically import the state data files, pulling these relevant columns to create a unified dataset.

State files fell into four basic formats:

- 1. Single, long file: Rates, numerators, and denominators were found on a single tab/sheet, and if available, subgroups were designated in a single column.
- 2. Single, wide file: Rates, numerators, and denominators were found in a single tab/sheet, and data values for each subgroup were found in distinct columns.
- 3. Multiple files/sheets: Data were found in separate files or tabs/sheets.
- 4. Single column: Rates, numerators, and denominators were all found in a single column.

Next, data were matched according to the following steps:

- The files of directories (2016-17 and 2017-18) containing NCES school IDs, state school IDs, school grades information, and the spatial join result were merged using a common field, NCESSCH (NCES school ID).
- 2. State-based education files were matched to the spatial join/directory files based on school IDs and NCES IDs. as available in the individual state files.
- 3. The Dashboard used string matching for state files that did not have school IDs. The Dashboard cleaned school names and matched them to NCES data through the SAS procedure COMPGED. For schools that did not have an exact match, the top five matches were manually reviewed to determine true and false matches.



The Dashboard calculated city-level graduation rates by summing the number of high school graduates and four-year graduation cohort totals for all schools within the given city, for all students and stratified by subgroup.

High school graduation: Multi-year data

Multi-year data are not available for high school graduation and only data from the June 2019 release are displayed on the site. The Dashboard's methodology changed substantially from the May 2018 release to the June 2019 release, making multi-year comparison of high school graduation inappropriate.

High school graduation: Indicators

Rate Indicator.

The Dashboard created the following indicator (variable educ\_indicator), available in the Dashboard data download, to provide more information on what type of rate was utilized for all reported high school graduation values.

educ\_indicator=1: All school estimates are a rate educ\_indicator=2: At least one school estimate is an approximate rate

The Dashboard indicates when an approximate rate is displayed on a page (i.e. where educ\_indicator=2) under the "Tips and Cautions for Using the Data" sub-header.

#### County Indicator:

County-level data are used where city-level data are unavailable/censored as outlined in Section 2: Federal Informational Processing Standards (FIPS) codes. The Dashboard created the following indicator (variable county\_indicator), available in the Dashboard data download, to indicate which geography was utilized for all reported values:

county\_indicator=0: Estimate is calculated from city-specific values county\_indicator=1: Estimate is calculated from an average of component counties' values (i.e.city falls under one or more counties) county\_indicator=2: Estimate is calculated from its single corresponding county values (i.e. city falls under on specific county)

The Dashboard indicates when county data are displayed on a page (i.e., where county\_indicator=1 or county\_indicator=2) under the "Tips and Cautions for Using the Data" sub-header.

High school graduation: State-specific notes

There are nuances to each state's data for high school graduation.

- For Maryland, the race/ethnicity subgroup disaggregation comes from the city of Baltimore specifically, not from the state department of education.
- Louisiana, Texas, and Utah state departments of education calculated city-level rates for the Dashboard. The Dashboard uploaded the estimates as provided by the state departments of education.
- Data are unavailable for Illinois and New Mexico because the number of students or graduates required to calculate the city-level high school graduation rate was not available from the state departments of education.
- For the District of Columbia, the Dashboard used district-level data as all schools fall within district boundaries, rendering the spatial join unnecessary.



For more detail on the state-based data sources, method of data acquisition, year of data, month of acquisition, and specific notes, please refer to Appendix F & H.



### **B. Third-grade Reading Proficiency**

Third-grade reading proficiency: General notes

The third-grade reading proficiency metric was calculated using state-based education data sources. These data were acquired from August 2017-April 2018. The Dashboard defines third-grade reading proficiency as the percent of public school third-graders who score "proficient" or above in reading on standardized tests. Note: this metric is at the city (not school district) level, and involves all school types. The formula is presented here:

3rd grade reading proficiency= Total 3rd graders who score proficient or above on reading] x 100% Total 3rd graders who were tested

Third-grade reading proficiency tests are different in every state, with different definitions of proficiency and different skills tested. In general, achieving a score of "proficient" or above implies that students have satisfactorily achieved the grade-level reading standard, adequately preparing them to advance to the next grade. The reading proficiency test scores do not include scores from alternative reading proficiency tests (for third-graders in specialized education programs). If you have any questions regarding third-grade reading proficiency tests, please direct them to the individual state department of education.

Third-grade reading proficiency: Reporting rates, numerators, and denominators
Third-grade reading proficiency rates are reported as calculated by the Dashboard staff. States vary in how they report rate. The type of rate is noted in the downloadable data.

Numerators and denominators are not collected beyond what was publicly provided by the states and are not reported. Confidence intervals are not calculated as not all state-based education data sources provided the necessary data elements.

#### Third-grade reading proficiency: Weights

Since there were not always numerators or denominators reported, the Dashboard analysts calculated weights based on grade-level enrollment for aggregating school-based rates to the city level. The Dashboard used third-grade school enrollment data from NCES ElSi to create weights for the school and student subgroups in order to provide a city estimate for third grade reading proficiency. The output from our geographic analysis was used to select which schools to include (see Section 3). Weights were adjusted to account for schools that did not report or censored their third-grade reading proficiency rate data. For more detail on the formulas, please refer to the *Third-grade reading proficiency: Analysis section*.

#### Third-grade reading proficiency: Categorizing subgroups

The Dashboard did not report any disaggregated data by subgroup for third-grade reading proficiency. There was substantial state censorship of subgroups, especially in race/ethnicity groups, at the school level. As a result, there were not enough disaggregated subgroup data for the majority of the 500 cities.

#### Third-grade reading proficiency: Data censoring

The Dashboard selected the state-provided combined rate over the individual proficiency levels if rates were reported both as a combined proficient or above rate AND as individual proficiency levels (i.e. proficient or above). This was done to reduce missingness from state censorship in individual proficiency levels, and was applied to the District of Columbia and the 32 states that provided a combined proficient or above rate. The remaining 19 states reported rates as individual proficiency levels. For those states, the Dashboard summed the rates for proficient or



above to get an overall estimate of proficient or above. The overall rate was censored if a component rate was missing. For more detail on which states provided a combined proficient or above rate, please refer to Appendix G.

State-based education data adhere to the state's data censoring criteria. Specific criteria for data censoring can also vary within a state as well, with high school graduation and third-grade reading proficiency metrics having different criteria. No individual-level data were accessed or analyzed. For more detail on data censoring criteria by state, please refer to Appendix C.

#### Third-grade reading proficiency: Analysis

Data were acquired from state departments of education (Appendix G & I). From each file, the Dashboard identified columns relevant to the metric and created a macro that would systematically import the state data files, pulling these relevant columns to create a unified dataset.

State files fell into four basic formats:

- 1. Single, long file: Rates, numerators, and denominators were found on a single tab/sheet, and if available, subgroups were designated in a single column.
- 2. *Single, wide file*: Rates, numerators, and denominators were found in a single tab/sheet, and data values for each subgroup were found in distinct columns.
- 3. Multiple files/sheets: Data were found in separate files or tabs/sheets.
- 4. Single column: Rates, numerators, and denominators were all found in a single column.

When available, the following elements were included in the macro: school names and IDs, counts for numerators, counts for denominators, rates, subgroup designation, and filtering criteria (i.e. year, subject, test, grade). Rates were reported differently by each state and were cleaned as follows:

- Approximate rates were set to the specific value (i.e. ~95% becomes 95%)
- Rates reported in decimal format were multiplied by 100
- If rates were not reported, calculating the rate from the numerator and denominator
- If rates were reported both as a combined proficient or above rate AND as individual
  proficiency levels (i.e. proficient or above), the Dashboard selected the state-provided
  combined rate over the individual proficiency levels. If rates were only reported in
  individual proficiency levels, the Dashboard summed the rates for proficient or above to
  get an overall estimate of proficient or above. The overall rate was censored if a
  component rate was missing.

Next, data were matched according to the following steps:

- The files of directories (2015-16 and 2016-17) containing NCES school IDs, state school IDs, school grades information, and the spatial join result were merged using a common field, NCESSCH (NCES school ID).
- 2. State-based education files were matched to the spatial join/directory files based on school IDs and NCES IDs, as available in the individual state files.
- 3. The Dashboard used string matching for state files that did not have school IDs. The Dashboard cleaned school names and matched them to NCES data through the SAS procedure COMPGED. For schools that did not have an exact match, the top five matches were manually reviewed to determine true and false matches.
  - a. There were 8 states (AK, LA, MS, ND, NY, UT, VA, WY) for which there were duplicate match results for school names that were not unique. For those school names, the Dashboard used state school directories or other files to identify



which of the duplicate schools are located in the CDC 500 Cities Project boundaries.

The Dashboard multiplied school specific third-grade reading proficiency rates by the corresponding weight and summed all schools within the given city (see below). These city-level rates were then adjusted by dividing them by the weight adjustments, the sum of weights for all schools that did not censor their reading proficiency data.

Relevant formulas are presented here for users' reference:

 $\label{eq:total_state} Third-grade \ Reading \ Proficiency \ Weight_i=\frac{Total \ 3rd \ grade \ population \ for \ school_i}{Total \ 3rd \ grade \ population \ for \ all \ schools \ in \ city}$ 

Third-grade Reading Proficiency Unadjusted City Rate= 
$$\sum_{i=1}^{n} (Rate_i *Weight_i)$$

Where rate<sub>i</sub> is the third-grade reading proficiency rate of an individual school; where weight<sub>i</sub> is the weight of that individual school; where unadjusted city rate is the derived city third-grade reading proficiency estimate from multiplying rate<sub>i</sub> and weight<sub>i</sub> for an individual school and summing it for all schools in the city

Weight Adjustment= 
$$\sum_{i=1}^{n}$$
 (Weight<sub>i</sub>)

Where the weight adjustment is calculated as the sum of weights for all schools that did not censor their third-grade reading proficiency data

Third-grade Reading Proficiency Adjusted City Rate= 
$$\frac{\sum_{i=1}^{n} (Rate_{i}^{*}Weight_{i})}{Weight Adjustment}$$

Third-grade reading proficiency: Multi-year data

Multi-year data are not available for third-grade reading proficiency and only data from the May 2018 release are displayed on the site.

Third-grade reading proficiency: Indicators

Rate Indicator:

The Dashboard created the following indicator, available in the Dashboard data download, to provide more information on what type of rate was utilized for all reported third-grade reading proficiency values.

```
educ_indicator=1: All school estimates are a rate educ_indicator=2: At least one school estimate is an approximate rate
```

The Dashboard indicates when an approximate rate is displayed on a page (i.e., where educ\_indicator=2) under the "Tips and Cautions for Using the Data" sub-header.

#### County Indicator:

County-level data are used where city-level data are unavailable/censored as outlined in Section 2: Federal Informational Processing Standards (FIPS) codes. The Dashboard created the following indicator (variable county\_indicator), available in the Dashboard data download, to indicate which geography was utilized for all reported values:

county indicator=0: Estimate is calculated from city-specific values

county\_indicator=1: Estimate is calculated from an average of component counties' values (i.e. city falls under one or more counties) county\_indicator=2: Estimate is calculated from its single corresponding county values (i.e. city falls under on specific county)

The Dashboard indicates when county data are displayed on a page (i.e., where county\_indicator=1 or county\_indicator=2) under the "Tips and Cautions for Using the Data" sub-header.

Third-grade reading proficiency: State-specific notes

There are nuances to each state's data for third-grade reading proficiency.

- For Massachusetts, the state is currently transitioning between two different reading
  proficiency tests (MCAS and Next Generation MCAS). Thus, some of the schools in the
  Dashboard's Massachusetts cities are taking one test, while others are taking the other
  test. The Dashboard chose to analyze assessment results from the Next Generation
  MCAS.
- For Virginia, elementary school reading proficiency scores are not disaggregated by grade level, thus any reading proficiency values for Virginian cities are elementary school values.
- For California, the enrollment data are from the state department of education, not from NCES EISi.
- For the District of Columbia, the Dashboard used district-level data as all schools fall within district boundaries, rendering the spatial join unnecessary.

For more detail on the data sources, method of data acquisition, year of data, month of acquisition, and specific notes, please refer to Appendix G & I.



#### **SECTION 5: Metric Calculation for National Education Data Sources**

#### Introduction to this Section

A national education data source provides the underlying data for the absenteeism metric. This section provides notes on elements specific to the national education data source and the absenteeism metric.

All analyses were performed using SAS v9.4. For more details on the SAS code, please contact the Dashboard at <a href="mailto:info@cityhealthdashboard.com">info@cityhealthdashboard.com</a>.

#### A. Civil Rights Data Collection (CRDC)

#### CRDC: General notes

The absenteeism metric was calculated using the 2015-16 Civil Rights Data Collection survey. These data were the most recently available data at the time of analysis in October 2018. The Dashboard defines absenteeism as the percent of public school students who miss ≥15 days of school in an academic year. Note: this metric is at the city (not school district) level, and involves all school types. The formula is presented here:

#### CRDC: Reporting rates, numerators, and denominators

Absenteeism rates are reported as calculated by the Dashboard staff. Numerators and denominators are reported. Confidence intervals were not calculated because MOE or SE data were not presented in the underlying dataset, which presents counts.

#### CRDC: Weights

No weights were applied to the CRDC analysis.

#### CRDC: Categorizing subgroups

The following race/ethnicity groups are presented on the Dashboard: Asian, Black, Hispanic, White, Other. Please refer to Appendix E for more detail on the Dashboard's categorization of race/ethnicity groups used for absenteeism. If you have any questions on how absenteeism race/ethnicity categories are defined, please direct them to CRDC.

#### CRDC: Analysis

Chronic student absenteeism variables (see variables prefix SCH\_ABSENT\_) were used in this analysis. Sex-specific values within schools were summed to create totals per school. Please refer to Section 3 for more information on the spatial join performed between the school locations (points) and the city boundaries (polygons) to identify schools within the city boundaries.

Schools with preschools (SCH\_GRADE\_PS="YES") and Juvenile Justice Facility Schools (JJ="YES") were excluded from analysis.



#### CRDC: Multi-year data

Multi-year data are not available for absenteeism and only estimates from 2015-2016 data are displayed on the site. Please refer to *CRDC: Metric-specific* notes for the rationale behind not presenting multi-year estimates for this metric.

CRDC: Indicators County Indicator:

County-level data are used where city-level data are unavailable/censored as outlined in Section 2: Federal Informational Processing Standards (FIPS) codes. The Dashboard created the following indicator (variable county\_indicator), available in the Dashboard data download, to indicate which geography was utilized for all reported values:

county\_indicator=0: Estimate is calculated from city-specific values county\_indicator=1: Estimate is calculated from an average of component counties' values (i.e. city falls under one or more counties) county\_indicator=2: Estimate is calculated from its single corresponding county values (i.e. city falls under on specific county)

The Dashboard indicates when county data are displayed on a page (i.e., where county\_indicator=1 or county\_indicator=2) under the "Tips and Cautions for Using the Data" sub-header.

CRDC: Metric-specific notes

There are nuances to CRDC data on absenteeism.

• The Dashboard initially calculated absenteeism estimates using 2013-2014 CRDC data, published in May 2018. An update using 2015-2016 data was released in October 2018. Although the analysis of these two datasets was identical, markedly large differences in the percent of chronically absent students between the two datasets were identified for a minority of cities. Although it is plausible that these changes accurately reflect the reality of absenteeism in each city, CRDC data may be biased due to reporting error. Please email info@cityhealthdashboard.com with any questions.

For more detail on the data source, method of data acquisition, and month of acquisition please refer to Appendix A.



### **SECTION 6: Comparison to EDFacts Data**

City-level high school graduation rates were compared to EDFacts district-level high school graduation rates for cities that were coterminous with district boundaries. Occasional differences were observed between the calculated city-level rates and EDFacts district level rates that may be attributed to the following reasons:

- 1. Censoring at the school level (e.g. when the cohort total for the school is below the censoring criteria for the given state)
- 2. Differences in the types of schools that were included in district-level data versus the calculated city-level rates (e.g. alternative or special education schools that are likely not included in the district-level data)
- 3. Differences in the years of data

#### **SECTION 7: Acknowledgements**

The Dashboard acknowledges Dr. Jessica Athens, Shauna Ford, Dr. Susan Kum, Dr. Erin Fahle, Rania Kanchi, Alexis Feinberg, and Priscilla Lopez for their significant contributions to the Dashboard site and analyses.



#### **SECTION 8: References**

- Geographic Terms and Concepts Codes for Geographic Entities U.S. Census Bureau; <a href="https://www.census.gov/geo/reference/gtc/gtc\_codes.html#fips">https://www.census.gov/geo/reference/gtc/gtc\_codes.html#fips</a>. Accessed January 24, 2018.
- Centers for Disease Control and Prevention. About the Project 500 Cities: Local Data for Better Health. 2018; <a href="https://www.cdc.gov/500cities/about.htm">https://www.cdc.gov/500cities/about.htm</a>. Accessed April 10, 2018.
- 3. 500 Cities: Local Data for Better Health. 500 Cities: Local Data for Better Health Census Tract Boundaries (Last Update Date: December 4, 2017). 2017; <a href="https://chronicdata.cdc.gov/500-Cities/500-Cities-City-Boundaries/n44h-hy2i">https://chronicdata.cdc.gov/500-Cities/500-Cities-City-Boundaries/n44h-hy2i</a>. Accessed December 4, 2017.
- 4. 500 Cities: Local Data for Better Health. Local Data for Better Health, 2017 Release. 2017; <a href="https://chronicdata.cdc.gov/500-Cities/500-Cities-Local-Data-for-Better-Health-2017-relea/6vp6-wxuq">https://chronicdata.cdc.gov/500-Cities/500-Cities-Local-Data-for-Better-Health-2017-relea/6vp6-wxuq</a>. Accessed September 27, 2017.
- 5. SAS Institute Inc. SAS System. In. Vol 9.4. Cary, NC 2015.
- 6. *ArcGIS Desktop: Release 10.4.1* [computer program]. Redlands, CA: Environmental Systems Research Institute,; 2016.
- 7. National Center for Education Statistics Public Elementary/Secondary School Universe Survey Data. Preliminary directory. 2017-18; <a href="https://nces.ed.gov/ccd/pubschuniv.asp">https://nces.ed.gov/ccd/pubschuniv.asp</a>. Accessed April, 2019.
- 8. National Center for Education Statistics Public Elementary/Secondary School Universe Survey Data. Directory (v.1a). 2016-17; <a href="https://nces.ed.gov/ccd/pubschuniv.asp">https://nces.ed.gov/ccd/pubschuniv.asp</a>. Accessed April, 2019.
- 9. National Center for Education Statistics Public Elementary/Secondary School Universe Survey Data. Directory (v.1a). 2015-16; <a href="https://nces.ed.gov/ccd/pubschuniv.asp">https://nces.ed.gov/ccd/pubschuniv.asp</a>. Accessed February, 2018.
- National Center for Education Statistics Public Elementary/Secondary School Universe Survey Data. Preliminary directory. 2016-17; <a href="https://nces.ed.gov/ccd/pubschuniv.asp">https://nces.ed.gov/ccd/pubschuniv.asp</a>. Accessed February, 2018.
- 11. National Center for Education Statistics Education Demographic and Geographic Estimates. Public Schools & School Districts: School Data 2016-17; https://nces.ed.gov/programs/edge/Geographic/SchoolLocations. Accessed April, 2019.
- 12. National Center for Education Statistics Education Demographic and Geographic Estimates. Public Schools & School Districts: School Data. 2015-16; <a href="https://nces.ed.gov/programs/edge/Geographic/SchoolLocations">https://nces.ed.gov/programs/edge/Geographic/SchoolLocations</a>. Accessed February, 2018.
- 13. National Center for Education Statistics Elementary/Secondary Information System (ElSi). tableGenerator. 2015-16; <a href="https://nces.ed.gov/ccd/elsi/">https://nces.ed.gov/ccd/elsi/</a>. Accessed February, 2018.
- 500 Cities: Local Data for Better Health. 500 Cities: Local Data for Better Health, Census Tract Boundaries (Last Update Date: December 4, 2017). 2017;
   <a href="https://chronicdata.cdc.gov/500-Cities/500-Cities-Census-Tract-Boundaries/x7zy-2xmx">https://chronicdata.cdc.gov/500-Cities/500-Cities-Census-Tract-Boundaries/x7zy-2xmx</a>.
   Accessed December 4, 2017.
- 15. National Center for Education Statistics. Public high school 4-year adjusted cohort graduation rate (ACGR), by race/ethnicity and selected demographic characteristics for the United States, the 50 states, and the District of Columbia: School year 2016–17. 2019; <a href="https://nces.ed.gov/ccd/tables/ACGR\_RE\_and\_characteristics\_2016-17.asp">https://nces.ed.gov/ccd/tables/ACGR\_RE\_and\_characteristics\_2016-17.asp</a>. Accessed May 14, 2019.
- 16. US Department of Education. Civil Rights Data Collection (CRDC) for the 2015-16 School Year. *Access* 2015-16 CRDC Data



- https://www2.ed.gov/about/offices/list/ocr/docs/crdc-2015-16.html. Accessed October 1, 2018.
- National Center for Education Statistics IPEDS 2017-18 Data Collection System. 2017-18 Survey Materials: Glossary. 2018;
   <a href="https://surveys.nces.ed.gov/ipeds/Downloads/Forms/IPEDSGlossary.pdf">https://surveys.nces.ed.gov/ipeds/Downloads/Forms/IPEDSGlossary.pdf</a>. Accessed March, 2018.
- 18. U.S. Department of Education. Definitions. 2018; <a href="https://www.ed.gov/race-top/district-competition/definitions">https://www.ed.gov/race-top/district-competition/definitions</a>. Accessed March, 2018.
- 19. U.S. Department of Education. Developing Programs for English Language Learners: Glossary. 2019; <a href="https://www2.ed.gov/about/offices/list/ocr/ell/glossary.html">https://www2.ed.gov/about/offices/list/ocr/ell/glossary.html</a>. Accessed May 14, 2019.
- 20. National Center for Education Statistics. CCD School and District Glossary. 2018; <a href="https://nces.ed.gov/ccd/commonfiles/glossary.asp">https://nces.ed.gov/ccd/commonfiles/glossary.asp</a>. Accessed March, 2018.



# **SECTION 9: Appendices**

# Appendix A: Summary of Dataset of Origin, Censorship Rules, Estimate Provenance and Date of Acquisition (metrics only)

Metric	Dataset of origin	Censorship		Estimate Provenance	Date of Data Access*
		Internal Dashboard Guidelines	NVSS Guideline (as per DUA) <sup>‡</sup>	Estimates posted on the Dashboard as received from source or calculated by the	
		Censor where denominator <50	Censor where numerator <10	Dashboard's staff	
Absenteeism	CRDC	no	no	Calculated by the Dashboard	8/7/2018
High school graduation	State-based education data	no	no	Calculated by the Dashboard	Varies (see Appendix H)
Third-grade reading proficiency	State-based education data	no	no	Calculated by the Dashboard	Varies (see Appendix I)

<sup>\*</sup>Datasets are sometimes updated after the initial release if the administrator identifies an error. This column records the date of dataset acquisition to indicate to users which version of the underlying dataset informs our analyses.

 $<sup>^{\</sup>ddagger}$  NVSS Data Use Agreement censorship guidelines require censorship of values with numerator less than 10  $\,$ 



# Appendix B: High School Graduation Data Censorship Criteria by State

State	Data Censorship Criteria	State	Data Censorship Criteria	State	Data Censorship Criteria
Alabama	Censorship: N<11 Ranges: Percentages>95%	Kentucky	Censorship: N<10	North Dakota	Censorship: N<10
Alaska	Does not censor	Louisiana	Provided aggregated city- level rates	Ohio	Censorship: N<10
Arizona	Censorship: N<11	Maine	Censorship: N<5	Oklahoma	Censorship: N<11 Range: Depends on cohort group sizes
Arkansas	Censorship: N<10	Maryland	Censorship: N<10 Range: Percentages ≤5 or ≥95	Oregon	Does not censor
California	Censorship: N<11	Massachusetts	Censorship: N<6	Pennsylvania	Censorship: N<11
Colorado	Does not censor	Michigan	Censorship: N<10 Range: Percentages >95%,<5%	Rhode Island	Censorship: N<10
Connecticut	Censorship: N<6 Range: Percentages >95%,<5%	Minnesota	Censorship: N<11	South Carolina	Censorship: Does not release censorship criteria publicly
Delaware	Censorship: N<15	Mississippi	Censorship: N<10	South Dakota	Censorship: N<10
DC	Censorship: N<10	Missouri	Censorship: N<11	Tennessee	Censorship: N<5%
Florida	Censorship: N<10	Montana	Censorship: N<5	Texas	Censorship: Does not release censorship criteria publicly
Georgia	Censorship: N<10	Nebraska	Censorship: N<10	Utah	Censorship: N<10
Hawaii	Censorship: N<10	Nevada	Censorship: N<10	Vermont	Censorship: N<11
Idaho	Censorship: N<5	New Hampshire	Censorship: N<40	Virginia	Censorship: N<10
Illinois	No data	New Jersey	Censorship: N<10	Washington	Censorship: All students N<10
Indiana	Censorship: N<10	New Mexico	No data	West Virginia	Censorship: N<10
lowa	Censorship: N<10	New York	Censorship: N<5	Wisconsin	Censorship: Does not release censorship criteria publicly
Kansas	Censorship: N<10	North Carolina	Censorship: N<10 Range: Percentages >95%,<5%	Wyoming	Does not censor



# Appendix C: Third-grade Reading Proficiency Data Censorship Criteria by State

State	Data Censorship Criteria	State	Data Censorship Criteria	State	Data Censorship Criteria
Alabama	Censorship: N<11 Range: Percentage: ≥95%,<1%	Kentucky	Censorship: N<10	North Dakota	Censorship: N<10
Alaska	Censorship: N<6 Range: Percentages may be reported in ranges	Louisiana	Censorship: N<10 Range: Percentages ≤1%	Ohio	Censorship: N<10
Arizona	Censorship: N<11 Range: Percentages: >98%,<2%	Maine	Censorship: N<5	Oklahoma	Censorship: N<10 Range: Percentages: >95%,<5%
Arkansas	Censorship: N<11	Maryland	Censorship: N<10 Range: Percentages: ≥95%, ≤5%	Oregon	Censorship: N<6 Range: Percentages:>95%, <5%
California	Censorship: N<11	Massachusetts	Censorship: N<10	Pennsylvania	Censorship: N<11
Colorado	Censorship: N<16	Michigan	Censorship: N<10 Range: Percentages: <5%, >95%	Rhode Island	Censorship: N<10
Connecticut	Censorship: N<6 Range: Percentages: >95%,<5%	Minnesota	Censorship: N<10	South Carolina	Censorship: N<10
Delaware	Censorship: N<15 Range: Percentages: >95%,<5%	Mississippi	Censorship: N<10 Range: Percentages: >95%,<5%	South Dakota	Censorship: N<10
District of Columbia	Censorship: N<10	Missouri	Censorship: N<30	Tennessee	Censorship: N<10 Range: Percentages: ≥99%, <1%
Florida	Censorship: N<10	Montana	Censorship: N<5	Texas	Censorship: N<5
Georgia	Censorship: N<15	Nebraska	Censorship: N<10 in a group, N<5 students at a performance level.	Utah	Censorship: N<10
Hawaii	Censorship: N<10	Nevada	Censorship: N<10	Vermont	Censorship: N<11
Idaho	Censorship: N<10	New Hampshire	Censorship: N<11	Virginia	Censorship: N<10
Illinois	Censorship: N<10	New Jersey	Censorship: N<11	Washington	Censorship: N<10 Range: Percentages>95%
Indiana	Censorship: N<10	New Mexico	Censorship: N<10 Range: Percentages may be reported in ranges	West Virginia	Censorship: N<10
lowa	Censorship: N<10	New York	Censorship: N<5	Wisconsin	Censorship: N<20
Kansas	Censorship: N<10	North Carolina	Censorship: N<10 Range: Percentages: >95%,<5%	Wyoming	Censorship: N<5 Range: Percentages: >95%, <5%



Appendix D: Subgroups Reported by State for High School Graduation

State	Subgroup disaggregation	State	Subgroup disaggregation	State	Subgroup disaggregation
Alabama	Race/ethnicity Gender LEP	Kentucky	Race/ethnicity Gender LEP*	North Dakota	Race/ethnicity Gender LEP
Alaska	Race/ethnicity Gender LEP	Louisiana	None	Ohio	Race/ethnicity Gender LEP
Arizona	Race/ethnicity Gender LEP	Maine	Race/ethnicity Gender LEP	Oklahoma	Race/ethnicity Gender LEP
Arkansas	Race/ethnicity Gender LEP	Maryland	Race/ethnicity Gender LEP	Oregon	Race/ethnicity Gender LEP
California	Race/ethnicity Gender LEP	Massachusetts	Race/ethnicity Gender LEP	Pennsylvania	Race/ethnicity Gender LEP
Colorado	Race/ethnicity Gender LEP	Michigan	Race/ethnicity Gender LEP	Rhode Island	Race/ethnicity Gender LEP
Connecticut	Race/ethnicity Gender LEP	Minnesota	Race/ethnicity Gender LEP	South Carolina	Race/ethnicity Gender LEP
Delaware	Race/ethnicity Gender LEP*	Mississippi	Race/ethnicity LEP*	South Dakota	Race/ethnicity Gender LEP
District of Columbia	Race/ethnicity Gender LEP	Missouri	Race/ethnicity	Tennessee	Race/ethnicity Gender LEP
Florida	Race/ethnicity Gender LEP	Montana	Race/ethnicity Gender LEP	Texas	Race/ethnicity Gender LEP
Georgia	Race/ethnicity Gender LEP	Nebraska	Race/ethnicity Gender LEP	Utah	Race/ethnicity Gender LEP
Hawaii	Race/ethnicity Gender LEP	Nevada	Race/ethnicity Gender LEP	Vermont	Race/ethnicity Gender LEP
ldaho	Race/ethnicity LEP	New Hampshire	Race/ethnicity Gender LEP	Virginia	Race/ethnicity Gender LEP
Illinois	No data	New Jersey	Race/ethnicity Gender LEP	Washington	Race/ethnicity Gender LEP
Indiana	Race/ethnicity Gender LEP	New Mexico	No data	West Virginia	None
lowa	Race/ethnicity Gender LEP	New York	Race/ethnicity Gender LEP	Wisconsin	Race/ethnicity Gender LEP
Kansas	Race/ethnicity Gender LEP	North Carolina	Race/ethnicity Gender LEP	Wyoming	Race/ethnicity Gender LEP

<sup>\*</sup>LEP rate are not available for the city in this state due to data censorship at the school level.



# Appendix E: Summary of Definition of Hispanic, NHOPI and Other Race for Metrics with Demographic-Specific Values (by Metric)

Metric	Data Source	Hispanic ethnicity is mutually exclusive with racial groups	Definition of Asian	Definition of "Other"	Metric value is available for specific racial/ethnic groups
Absenteeism	CRDC	No	Asian, Native Hawaiian, or other Pacific Islander†	American Indian or Alaska Native, Two or more races†	Yes
High school graduation	State-based education data	Yes	Asian, Native Hawaiian, Pacific Islander, or Filipino	American Indian or Alaska Native, Two or more races	Yes
Third-grade reading proficiency	State-based education data	N/A	N/A	N/A	No

<sup>†</sup>Civil Rights Data Collection. Survey Forms: 2013-14 CRDC School Form (downloadable MS Word Document) - see table headers on page 10. Available at: https://www2.ed.gov/about/offices/list/ocr/data.html. Accessed April 26, 2018

#### Appendix F: High School Graduation Data by State

State	Data Year	State	Data Year	State	Data Year
Alabama	2016-2017	Kentucky	2016-2017	North Dakota	2016-2017
Alaska	2017-2018	Louisiana	2016-2017	Ohio	2016-2017
Arizona	2016-2017	Maine	2016-2017	Oklahoma	2016-2017
Arkansas	2016-2017	Maryland	2016-2017	Oregon	2016-2017
California	2016-2017	Massachusetts	2016-2017	Pennsylvania	2016-2017
Colorado	2016-2017	Michigan	2016-2017	Rhode Island	2016-2017
Connecticut	2016-2017	Minnesota	2016-2017	South Carolina	2016-2017
Delaware	2016-2017	Mississippi	2016-2017	South Dakota	2016-2017
District of Columbia*	2017-2018	Missouri	2016-2017	Tennessee	2016-2017
Florida	2017-2018	Montana	2016-2017	Texas	2016-2017
Georgia	2017-2018	Nebraska	2017-2018	Utah	2017-2018
Hawaii	2017-2018	Nevada	2016-2017	Vermont	2016-2017
ldaho	2016-2017	New Hampshire	2017-2018	Virginia	2017-2018
Illinois	No data	New Jersey	2016-2017	Washington	2016-2017
Indiana	2016-2017	New Mexico	No data	West Virginia	2016-2017
lowa	2016-2017	New York	2017-2018	Wisconsin	2017-2018
Kansas	2017-2018	North Carolina	2017-2018	Wyoming	2017-2018

<sup>\*</sup>Using district values



# Appendix G: Third-grade Reading Proficiency by State

State	Reading Proficiency Test	Data Year	Notes	State	Reading Proficiency Test	Data Year	Notes
Alabama	ACT Aspire	2015-2016		Montana	SBA	2016-2017	Using combined rate
Alaska	PEAKS	2016-2017	Using combined rate	Nebraska	NeSA	2016-2017	
Arizona	AzMERIT	2015-2016		Nevada	CRT/SBA	2016-2017	Using combined rate
Arkansas	ACT Aspire	2016-2017	Using combined rate	New Hampshire	SBA	2016-2017	
California	CAASP/SBA	2015-2016	Using combined rate	New Jersey	PARCC	2015-2016	
Colorado	CMAS/PARCC	2016-2017	Using combined rate	New Mexico	PARCC	2016-2017	Using combined rate
Connecticut	SBA	2015-2016	Using combined rate	New York	Engage NY	2016-2017	Using combined rate
Delaware	DE SBA	2014-2015	Using combined rate	North Carolina	North Carolina End of Grade (EOG) Assessment	2015-2016	Using combined rate
District of Columbia	DC PARCC	2015-2016	Using district values and combined rate	North Dakota	SBA	2015-2016	
Florida	FSA	2016-2017	Using combined rate	Ohio	Ohio State Test	2016-2017	Using combined rate
Georgia	Georgia Milestones End of Grade Assessments	2016-2017		Oklahoma	OSTP	2015-2016	
Hawaii	SBA	2016-2017	Using combined rate	Oregon	SBA	2015-2016	Using combined rate
Idaho	ID SBA	2015-2016		Pennsylvania	PSSA	2015-2016	
Illinois	PARCC	2015-2016		Rhode Island	PARCC	2016-2017	Using combined rate
Indiana	ISTEP+	2016-2017	Using combined rate	South Carolina	SC Ready	2016-2017	Using combined rate
Iowa	IA Assessment	2015-2016		South Dakota	SBA	2015-2016	
Kansas	KSA	2016-2017		Tennessee	TN Ready	2014-2015	Using combined rate
Kentucky	KPREP	2015-2016	Using combined rate	Texas	STAAR	2015-2016	Using combined rate
Louisiana	LEAP	2016-2017		Utah	SAGE	2015-2016	Using combined rate
Maine	eMPowerME	2016-2017	Using combined rate	Vermont	SBA	2016-2017	Using combined rate
Maryland	PARCC	2015-2016		Virginia	SOL	2016-2017	Only provides an elementary school reading proficiency value, not disaggregated by grade. Using combined rate



Massachusetts	Next Generation MCAS	2016-2017	Transitioning between two tests and not all schools are taking the same test. Using combined rate	Washington	SBA	2015-2016	Using combined rate
Michigan	M-STEP	2015-2016	Using combined rate	West Virginia	WVGSA	2016-2017	Using combined rate
Minnesota	MCA-III	2016-2017		Wisconsin	Wisconsin Forward Exam	2016-2017	Using combined rate
Mississippi	MAAP	2016-2017		Wyoming	PAWS	2016-2017	Using combined rate
Missouri	MAP	2015-2016					



# Appendix H: High School Graduation Data Sources

State	Author	Method of Acquisition	Hyperlink (Active as of May 14, 2019)	Click-through	Month of Acquisition	State	Author	Method of Acquisition	Hyperlink (Active as of May 14, 2019)	Click-through	Month of Acquisition
Alabama	Alabama State Department of Education	Download	http://www.alsde.edu /dept/data/Pages/gra duationrate-all.aspx		August 2018	Montana	Montana Office of Public Instruction	Data request			December 2018
Alaska	Alaska Department of Education & Early Development	Data request			March 2019	Nebraska	Nebraska Department of Education	Download	http://nep.ed ucation.ne.g ov/Links		March 2019
Arizona	Arizona Department of Education	Download	http://www.azed.gov/ accountability- research/data/	Select "Graduation Rates" tab	November 2018	Nevada	State of Nevada Department of Education	Download	http://www.n evadareportc ard.com/di/m ain/cohort4yr	Select all districts and schools under the "Available" table and move to the "Selected" table.	November 2018
Arkansas	Arkansas Department of Education	Data request			November 2018	New Hampshire	New Hampshire Department of Education	Data request			December 2018
California	California Department of Education	Download	https://www.cde.ca.q ov/ds/sd/sd/filesacgr. asp		April 2019	New Jersey	State of New Jersey Department of Education	Download & Data Request	https://www. state.nj.us/e ducation/dat a/grate/2017		Download: November 2018 Data request: December 2018
Colorado	Colorado Department of Education	Download	https://www.cde.stat e.co.us/cdereval/gra dratecurrent		November 2018	New Mexico					
Connecticut	Connecticut State Department of Education	Download	http://edsight.ct.gov/ SASPortal/main.do	Select "Four-year Cohort Graduation Rate" box, select year, "All districts," and "All schools"	November 2018	New York	New York State Education Department	Download	https://data.n ysed.gov/do wnloads.php		February 2019
Delaware	<u>Delaware</u> <u>Department of</u> <u>Education</u>	Data request			January 2019	North Carolina	Public Schools of North Carolina	Download	http://www.n cpublicschoo ls.org/accou ntability/repo rting/cohortg radrate	Select "Longitudinal 4- year Cohort Graduation Rates: 2006 through 2018" under "Additional Information"	November 2018
District of Columbia	Office of the State Superintendent of Education	Download	https://osse.dc.gov/p ublication/2017-18- adjusted-cohort- graduation-rate		November 2018	North Dakota	North Dakota Department of Public Instruction	Download	https://insigh ts.nd.gov/Da ta		November 2018
Florida	Florida Department of Education	Download	http://cdn.fldoe.org/a ccountability/data- sys/edu-info- accountability- services/pk-12- public-school-data-	Select "High School Graduation Rates (EDStats tool)", select "PK-12 Public Schools", select "High School Graduation Rates"	January 2019	Ohio	Ohio Department of Education	Data request			April 2019

City	<del> lealth</del>	O A R D			1	1	1			
		•	pubs- reports/students.stml #rates	under "Students", select "Build Your Own Table" tab						
Georgia	The Governor's Office of Student Achievement	Download	https://gosa.georgia. gov/downloadable- data	KAD	January 2019	Oklahoma	Oklahoma State Department of Education	Data request		December 2018
Hawaii	Hawaii State Department of Education	Data request			February 2019	Oregon	<u>Oregon.gov</u>	Download	https://www. oregon.gov/o de/reports- and- data/student s/Pages/Coh ort- Graduation- Rate.aspx	August 2018
Idaho	Idaho State Department of Education	Data request			November 2018	Pennsylvania	Pennsylvania Department of Education	Data request		January 2019
Illinois						Rhode Island	Rhode Island Department of Education	Download	https://www. eride.ri.gov/F ileExchange/ fredDetails.a spx?fileID=3 8516&downl oad=no	November 2018
Indiana	Indiana Department of Education	Download	https://www.doe.in.g ov/accountability/find -school-and- corporation-data- reports		November 2018	South Carolina	South Carolina Department of Education	Download	https://ed.sc. gov/data/rep ort- cards/histori c-school- report- cards/2017/d ata-files-for- researchers- 2017/	November 2018
lowa	lowa Department of Education	Download	https://educateiowa. gov/documents/grad uation-rates- building- subgroup/2018/10/io wa-public-high- school-class-2017-4- year		November 2018	South Dakota	South Dakota Department of Education	Download	http://doe.sd. gov/reportca rd/index.asp x	November 2018
Kansas	Kansas State Department of Education	Data request			March 2019	Tennessee	Tennessee Department of Education	Download	https://www.t n.gov/educat ion/news/20 18/10/1/tenn essee- maintains- highest- graduation- rate-on- recordhtml	November 2018
Kentucky	Kentucky Department of Education	Download	http://applications.ed ucation.ky.gov/SRC/ DataSets.aspx	Under "Delivery Targets"	August 2018	Texas	<u>Texas</u> <u>Education</u> <u>Agency</u>	Data request		April, 2019
Louisiana	Louisiana Department of Education	Data request			February 2019	Utah	<u>Utah State</u> <u>Board of</u> <u>Education</u>	Data request		February 2019

City	<b>Health</b> DASHB	OARD	ı	1	ī	1			Ī	•	i
Maine	Maine Department of Education	Data request			December 2018	Vermont	State of Vermont Agency of Education	Data request			November 2018
Maryland	Maryland State Department of Education	Download	All Students: http://reportcard.msd e.maryland.gov/Grap hs/#/DataDownload/3/17/ 6/99/XXXX Baltimore: http://reportcard.msd e.maryland.gov/Grap hs/#/AtaGlance/Inde x/3/17/6/30/XXXX		November 2018	Virginia	Virginia Department of Education	Download	http://www.d oe.virginia.g ov/statistics reports/grad uation_comp letion/cohort reports/inde x.shtml		November 2018
Massachusetts	Massachusetts Department of Elementary and Secondary Education	Download	http://profiles.doe.ma ss.edu/statereport/gr adrates.aspx		November 2018	Washington	State of Washington Office of Superintendent of Public Instruction	Download	http://www.k 12.wa.us/Dat aAdmin/Drop out- Grad.aspx		November 2018
Michigan	Michigan Department of Education	Download	https://www.mischoo ldata.org/DistrictSch oolProfiles2/EntitySu mmary/SchoolDataFi le.aspx		November 2018	West Virginia	West Virginia Department of Education	Download	https://zoom wv.k12.wv.u s/Dashboard /portalHome. jsp	Select "Graduation" on top bar.	November, 2018
Minnesota	Minnesota Department of Education	Download	http://w20.education. state.mn.us/MDEAn alytics/DataTopic.jsp ?TOPICID=2		November 2018	Wisconsin	Wisconsin Department of Public Instruction	Download	https://dpi.wi. gov/wisedas h/download- files/year	Select "hs_completion_c ertified_2016-17" zip file	November 2018
Mississippi	Mississippi Department of Education	Data request			January 2019	Wyoming	Wyoming Department of Education	Download	https://portal s.edu.wyomi ng.gov/Repo rts/Public/wd e-reports- 2012/public- reports/gradr ates/fedfoury earadjusteds chool		November 2018
Missouri	Missouri Department of Elementary & Secondary Education	Download	https://apps.dese.mo .gov/MCDS/home.as px	Select "Reports and Resources," select "Students" on left sidebar, select "Building Adjusted Cohort Graduation Rates (xls)" under "Graduation & Dropout Rates"	April 2019						



# Appendix I: Third-grade Reading Proficiency Data Sources

State	Author	Method of Acquisition	Hyperlink (active as of April 20, 2018)	Click-through	Month of Data Acquisition	State	Author	Method of Acquisition	Hyperlink (active as of April 20, 2018)	Click-through	Month of Data Acquisition
Alabama	Alabama State Department of Education	Download	http://www.alsde.edu/dept/data/Paqes/assessment-all.aspx?navtext=Assessment%20Reports:%20Statewide%20Reports		September 2017	Montana	Montana Office of Public Instruction	Data request			December 2017
Alaska	Alaska Department of Education & Early Development	Data request			December 2017	Nebraska	Nebraska Department of Education	Download	http://nep.educati on.ne.gov/Links	Select "NeSA Reading Assessments Detail Data"	March 2018
Arizona	Arizona Department of Education	Download	http://www.azed.gov/ accountability- research/data/		August 2017	Nevada	State of Nevada Department of Education	Download	http://nevadarepo rtcard.com/di/mai n/assessment	Select "CRT (New NV Standards" under "Exam. "Select Schools. Select all districts and schools under the "Available" table and move to the "Selected" table.	March 2018
Arkansas	Arkansas Department of Education	Download	http://www.arkansas ed.gov/divisions/lear ning- services/student- assessment/test- scores/year?y=2017		October 2017	New Hampshire	New Hampshire Department of Education	Download	https://www.educ ation.nh.gov/instr uction/assessmen t/index.htm	Select "2017 Smarter Balanced Disaggregated Data File" under "2017 Final Assessment Results for SAT and Smarter Balanced"	December 2017
California	California Department of Education	Download	Reading proficiency: https://caaspp.cde.c a.gov/sb2017/Resea rchFileListCAA?ps=t rue&lstTestType=A& lstCounty=00&lstCnt yNam=Select%20Co unty&lstTestYear= 2016 Enrollment: https://www.cde.ca.q ov/ds/sd/sd/filesenr.asp		Third-grade reading proficiency: December 2017 Enrollment: March 2018	New Jersey	State of New Jersey Department of Education	Download	http://www.state.n i.us/education/sch ools/achievement/ 16/parcc/spring/e xcel.htm		August 2017
Colorado	Colorado Department of Education	Download	http://www.cde.state. co.us/assessment/c mas-dataandresults		January 2018	New Mexico	New Mexico Public Education Department	Download	https://webnew.pe d.state.nm.us/bur eaus/accountabilit y/achievement- data/	Select "Proficiencies Webfiles, State, District, School by Grade 2017"	January 2018
Connecticut	Connecticut State Department of Education	Download	http://edsight.ct.gov/ SASPortal/main.do	Select "Smarter Balanced" under "Performance"	December 2017	New York	New York State Education Department	Download	https://data.nysed .gov/downloads.p hp	Select "3-8 Assessment Database"	September 2017
Delaware	Delaware Department of Education	Download	https://data.delaware .gov/Education/Stud ent- Performance/a7q2- pipe		November 2017	North Carolina	Public Schools of North Carolina	Download	http://www.ncpubl icschools.org/src/r esearchers/	Select "Drilldown" under "Ready Accountability Tables"	December 2017

District of City	/ <b>Health</b> DASHB Columbia Public	Opownload	https://dcps.dc.gov/p ublication/dcps-data-		August 2017	North Dakota	North Dakota Department	Data request			September 2017
Columbia	Schools		set-parcc				of Public Instruction				2017
Florida	Florida Department of Education	Download	http://www.fldoe.org/ accountability/data- sys/edw/	Select "Florida PK-20 Education Information Portal" on left sidebar" -> Select "PK-12 Public Schools"-> Select "English Language Arts" under "Assessments"-> Select "Build Your Own Table"	January 2018	Ohio	Ohio Department of Education	Download	http://reportcard.e ducation.ohio.gov /Pages/Download -Data.aspx	Select year->select "School Building Data"-> select "Building Achievement Ratings"	December 2017
Georgia	The Governor's Office of Student Achievement	Download	https://gosa.georgia. gov/downloadable- data		December 2017	Oklahoma	Oklahoma State Department of Education	Download	http://sde.ok.gov/ sde/accountability -resources	Under "Data"	August 2017
Hawaii	Hawaii State Department of Education	Download	http://www.hawaiipu blicschools.org/Visio nForSuccess/Advan cingEducation/Strive HIPerformanceSyste m/Pages/2016-17- results.aspx		December 2017	Oregon	<u>Oregon.gov</u>	Download	http://www.oregon .gov/ode/educator = resources/assess ment/Pages/Asse ssment-Group- Reports-for-2014- 2015-and-2015- 2016.aspx		September 2017
Idaho	Idaho State Department of Education	Download	http://sde.idaho.gov/ communications/freq uently-requested- data.html		August 2017	Pennsylvania	Pennsylvania Department of Education	Data request			January 2018
Illinois	Illinois State Board of Education	Download	https://www.isbe.net/ Pages/Illinois-State- Report-Card- Data.aspx		February 2018	Rhode Island	Rhode Island Department of Education	Data request			January 2018
Indiana	Indiana Department of Education	Download	https://www.doe.in.g ov/accountability/find -school-and- corporation-data- reports	select "2017 ISTEP+ School Results Grades 3-8"	January 2018	South Carolina	South Carolina Department of Education	Download	https://ed.sc.gov/ data/test- scores/state- assessments/sc- ready/2017/	Select "SC READY 2017 Data File" under "2017" under "Data" on the right sidebar	October 2017
lowa	lowa Department of Education	Data request			August 2017	South Dakota	South Dakota Department of Education	Download	http://doe.sd.gov/r eportcard/index.a spx	Select "English Language Arts 2015- 16" under "Report Card Tables"	September 2017
Kansas	Kansas State Department of Education	Download	http://ksreportcard.ks de.org/assessment_r esults.aspx?org_no= State&rptType=3	Select "Download Full Results"	December 2017	Tennessee	Tennessee Department of Education	Download	https://www.tn.go v/education/data/ data- downloads.html	Select "Base Accountability File Updated 12/13/16" under "State Assessments"	September 2017
Kentucky	Kentucky Department of Education	Download	http://applications.ed ucation.ky.gov/SRC/ DataSets.aspx	Select "Grade" under "KPREP" under "Assessment"	September 2017	Texas	Texas Education Agency	Download	https://rptsvr1.tea. texas.gov/perfrep ort/tapr/2017/dow nload/DownloadD ata.html		August 2017
Louisiana	Louisiana Department of Education	Download	https://www.louisian abelieves.com/resou rces/library/pk-8- performance	Select "Spring 2017 State- LEA-School LEAP Achievement Level Summary"	August 2017	Utah	Utah State Board of Education	Download	https://www.scho ols.utah.gov/data/ reports	Under "SAGE Proficiency Rates"	September 2017
Maine	Maine Department of Education	Data request			September 2017	Vermont	State of Vermont Agency of Education	Data request			January 2018

Maryland City	Health Dasale B Department of Education	BOBOWHO ad	http://reportcard.msd e.maryland.gov/dow nloadindex.aspx?K= 99AAA		August 2017	Virginia	Virginia Department of Education	Download	http://www.doe.vir ginia.gov/statistic s_reports/school report_card/index.	Select "School Subject-Area"	December 2017
Massachusetts	Massachusetts Department of Elementary and Secondary Education	Download	http://profiles.doe.ma ss.edu/statereport/n extgenmcas.aspx		April 2018	Washington	State of Washington Office of Superintende nt of Public	Download	shtml http://reportcard.o spi.k12.wa.us/Dat aDownload.aspx	Select "AIM-EOC- MSP-SBA Assessments School (with suppression - new format)" under "AIM/EOC/MSP/SBA	September 2017
Michigan	Michigan Department of Education	Download	https://www.mischoo ldata.org/DistrictSch oolProfiles2/EntitySu mmary/SchoolDataFi le.aspx		September 2017	West Virginia	Instruction West Virginia Department of Education	Download	https://zoomwv.k1 2.wv.us/Dashboar d/portalHome.jsp	Data Downloads"  Select "State Assessment Results" on top bar. Select "SY16-17 Assessment Proficiency & Subgroup Summary" under "Related Links"	December 2017
Minnesota	Minnesota Department of Education	Download	http://w20.education. state.mn.us/MDEAn alytics/DataTopic.jsp ?TOPICID=1	Select "TAB" file	December 2017	Wisconsin	Wisconsin Department of Public Instruction	Download	https://dpi.wi.gov/ wisedash/downlo ad- files/type?field_wi sedash_upload_t ype_value=Forwa rd&field_wisedas h_data_view_valu e=Certified		September 2017
Mississippi	Mississippi Department of Education	Download	http://mdereports.md ek12.org/report1/r20 16-17.aspx	Select "2017 Mississippi Academic Assessment Program (MAAP) Results"	September 2017	Wyoming	Wyoming Department of Education	Download	https://fusion.edu. wyoming.gov/My Sites/Data Repor ting/data reportin g assessment re ports.aspx	Select "Performance Level Results Grades 3-8 and 11 PAWS, ACT, and WY-ALT Disaggregated- School Level"	December 2017
Missouri	Missouri Department of Elementary & Secondary Education	Download	https://mcds.dese.m o.gov/quickfacts/Pag es/State- Assessment.aspx/		September 2017		•				



#### Appendix J: Glossary of Terms

Definitions are presented here verbatim from their source.

**Adjusted Cohort**: The result of removing any allowable exclusions from a cohort (or subcohort). For the Fall Enrollment component, it is the cohort for calculating retention rate; for the Graduation Rates component, this is the cohort from which graduation and transfer-out rates are calculated; and for the Outcome Measures component, these are the four cohorts (first-time, full-time; first-time, part-time; non-first-time, full-time; or nonfirst-time, part-time) for which outcomes rates are calculated at 4, 6, and 8 years.<sup>17</sup>

Cohort: A specific group of students established for tracking purposes. 17

Graduate rate: The four-year or extended-year adjusted cohort graduation rate as defined by 34 CFR 200.19(b)(1).18

**Limited English Proficiency:** An English language learner. A national-origin-minority student who is limited-English-proficient. Also referred to as ELL or EL.<sup>19</sup>

**Local education agency:** As defined in ESEA, a public board of education or other public authority legally constituted within a State for either administrative control or direction of, or to perform a service function for, public elementary schools or secondary schools in a city, county, township, school district, or other political subdivision of a State, or for a combination of school districts or counties that is recognized in a State as an administrative agency for its public elementary schools or secondary schools.<sup>18</sup>

**Macro**: a code for performing a specific task. In the case of the Dashboard, a macro is used to import different state-based education data files in SAS to create a unified dataset.

**NCES School District ID**: The 7 digit school identification number. The first 2 digits of the 7 digit school district ID identify the state and the last 5 identify the district ID. Put together, they make a 7 digit unique ID code for each school district.<sup>20</sup>

**NCES School ID**: The 5 digit school identification number. When combined with the NCES School District ID, the two codes comprise a unique 12 digit code for each school. The first 7 digits of the 12 digit school ID are the district ID, and the last five are the school ID.<sup>20</sup>

**Other/Alternative Schools**: A public elementary/secondary school that (1) addresses needs of students that typically cannot be met in a regular school, (2) provides nontraditional education, (3) serves as an adjunct to a regular school, or (4) falls outside the categories of regular, special education, or vocational education.<sup>20</sup>

**Regular Schools**: A public elementary/secondary school providing instruction and education services that does not focus primarily on special education, vocational/technical education, or alternative education, or on any of the particular themes associated with magnet/special program emphasis schools.<sup>20</sup>

**Special Education Schools**: A public elementary/secondary school that focuses primarily on special education—including instruction for any of the following students with: autism, deaf-blindness, developmental delay, hearing impairment, intellectual disability, multiple disabilities, orthopedic impairment, serious emotional disturbance, specific learning disability, speech or language impairment, traumatic brain injury, visual impairment, and other health impairments—and that adapts curriculum, materials, or instruction for students served.<sup>20</sup>

**Vocational Schools**: A public elementary/secondary school that focuses primarily on providing formal preparation for semiskilled,

skilled, technical, or professional occupations for high school-age students who have opted to develop or expand their employment opportunities, often in lieu of preparing for college entry.<sup>20</sup>



#### **Abbreviations**

**CDC** Centers for Disease Control and Prevention

**CRDC** Civil Rights Data Collection

**EDFacts** U.S. Department of Education EDFacts

**EL** English Learners

**ELL** English Language Learners

**LEA** Local Education Agency

**LEP** Limited English Proficiency

**NAEP** National Assessment of Educational Progress

**NCES** National Center for Education Statistics

NCES EDGE National Center for Education Statistics Education Demographic and Geographic Estimates

NCES ELSI National Center for Education Statistics Elementary and Secondary Information System

#### Appendix K: Updates Summary

Technical Document Part 2: Education Data v2.0	July 2018	Addition of Section 6: Comparison to EDFacts data (7/3/18)
Technical Document Part 1 v3.1	October 2018	<ul> <li>Absenteeism: Data source updated to 2015-16 from 2013-14 (10/29/18)</li> <li>Life expectancy: Metric posted 10/2/18; minor revision to city values posted 10/29/18</li> <li>Uninsured: Data source changed to ACS from BRFSS-CDC 500 (10/29/18); revised strata</li> <li>Violent crime: Updated to 2017 FBI UCR data (10/29/18)</li> <li>Revised Technical Documentation (v3.0), downloadable data (v3.0) and codebook (v3.0) (10/29/18)</li> <li>Minor typos corrected in Technical Documentation (v3.1) (10/31/18)</li> </ul>
Technical Document Part 2: Education Data v3.0	June 5, 2019	<ul> <li>High school graduation: Methodology change. Updated to 2019 release estimates, removal of 2018 release estimates (05/20/19)</li> <li>Revised Technical Documentation to include absenteeism (05/20/19)</li> </ul>
Technical Document Part 2: Education Data v3.1	June 21, 2019	<ul> <li>Absenteeism: Metric definition language change to emphasis that estimates are city level and include all public school types.</li> <li>High school graduation: Metric definition language change to emphasis that estimates are city level and include all public school types.</li> <li>Third-grade reading proficiency: Metric definition language change to</li> </ul>

emphasis that estimates are city level and include all public school

Last updated 7/18/19 40

types.