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# Projections of Education Statistics to 2028

Forty-seventh Edition



# Projections of Education Statistics to 2028

Forty-seventh Edition

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#### National Center for Education Statistics

James L. Woodworth Commissioner

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## Foreword

*Projections of Education Statistics to 2028* is the 47th report in a series begun in 1964. It includes statistics on elementary and secondary schools and degree-granting postsecondary institutions. This report provides revisions of projections shown in *Projections of Education Statistics to 2027* and projections of enrollment, graduates, teachers, and expenditures to the year 2028.

In addition to projections at the national level, the report includes projections of public elementary and secondary school enrollment and public high school graduates to the year 2028 at the state level. The projections in this report were produced by the National Center for Education Statistics (NCES) to provide researchers, policy analysts, and others with state-level projections developed using a consistent methodology. They are not intended to supplant detailed projections prepared for individual states.

Assumptions regarding the population and the economy are the key factors underlying the projections of education statistics. NCES projections do not reflect changes in national, state, or local education policies that may affect education statistics. Appendix A of this report outlines the projection methodology and describes the models and assumptions used to develop the national and state projections. The enrollment models use enrollment data and population estimates and projections from NCES, the U.S. Census Bureau, and the forecasting service IHS Global Inc. The models are based on the mathematical projection of past data patterns into the future. Some models also use projections of economic variables from IHS Global Inc.

The projections presented in this report are based on assumptions for the fertility rate, internal migration, net immigration, and mortality rate from the Census Bureau. For further information, see appendix A.

James L. Woodworth, Commissioner

National Center for Education Statistics

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## **About This Report**

### PROJECTIONS

This edition of *Projections of Education Statistics* provides projections for key education statistics, including enrollment, graduates, teachers, and expenditures in elementary and secondary public and private schools, as well as enrollment and degrees conferred at degree-granting postsecondary institutions. Included are national data on enrollment and graduates for at least the past 15 years and projections to the year 2028. Also included are state-level data on enrollment in public elementary and secondary schools and public high schools beginning in 1990, with projections to 2028. This report is organized by the level of schooling with sections 1, 2, 3, and 4 covering aspects of elementary and secondary education and sections 5 and 6 covering aspects of postsecondary education.

There are a number of limitations in projecting some statistics. Because of this, state-level data on enrollment and graduates in private elementary and secondary schools and on enrollment and degrees conferred in degreegranting postsecondary institutions are not included. Neither the actual numbers nor the projections of public and private elementary and secondary school enrollment include homeschooled students. Projections of elementary and secondary school enrollment and public high school graduates by age, state, and race/ethnicity are not included as the projections of the population by age, state, and race/ ethnicity are not presently available. While there were enough years of data to produce projections of public elementary and secondary enrollment separately for Asians and Pacific Islanders, there were not enough years of data to produce separate projections for Asians and Pacific Islanders for either public high school graduates or enrollment in degree-granting postsecondary institutions.

Similar methodologies were used to obtain a uniform set of projections for each of the 50 states and the District of Columbia. These projections are further adjusted to agree with the national projections of public elementary and secondary school enrollment and public high school graduates contained in this report.

The summary of projections provides highlights of the national and state data, while the reference tables and figures present more detail. All calculations within *Projections of Education Statistics* are based on unrounded estimates. Therefore, the reader may find that a calculation, such as a difference or percentage change, cited in the text or figure may not be identical to the calculation obtained by using the rounded values shown in the accompanying tables. Most figures in this report present historical and forecasted data

from 2003 through 2028. The shaded area of these figures highlights the projected data and begins at the last year of actual data and ends in 2028. As the last year of historical data differs by survey, the year in which the shaded area begins also differs.

Most statements in sections 1 through 6 examine a single statistic over a period of time. In each case, a trend test using linear regression was conducted to test for structure in the data over that time period. If the *p* value for the trend variable was less than or equal to .05, the text states that the statistic has either increased or decreased. If the *p* value was greater than .05 and the data for both the first and last years of the time period come from a universe sample and/ or are projections, then the text compares the first and last years in the time period. However, if the data for at least one of the two years came from a sample survey, a two-tailed t test at the .05 level was conducted to determine if any apparent difference between the data for the two years is not reliably measurable due to the uncertainty around the data. Depending on the results of the test, the text will either include a comparison of the two numbers or say that there was no measurable difference between the two numbers.

Appendix A describes the methodology and assumptions used to develop the projections; appendix B presents supplementary tables; appendix C describes data sources; appendix D is a list of the references; appendix E presents a list of abbreviations; and appendix F is a glossary of terms.

### LIMITATIONS OF PROJECTIONS

Projections of a time series usually differ from the final reported data due to errors from many sources, such as the properties of the projection methodologies, which depend on the validity of many assumptions.

The mean absolute percentage error is one way to express the forecast accuracy of past projections. This measure expresses the average of the absolute values of errors in percentage terms, where errors are the differences between past projections and actual data. For example, based on past editions of *Projections of Education Statistics*, the mean absolute percentage errors of public school enrollment in grades prekindergarten through 12 for lead times of 1, 2, 5, and 10 years were 0.3, 0.5, 1.2, and 2.6 percent, respectively. In contrast, mean absolute percentage errors of private school enrollment in grades prekindergarten through 8 for lead times of 1, 2, 5, and 10 years were 3.1, 5.8, 8.3, and 21.5 percent, respectively. For more information on mean absolute percentage errors, see table A-2 in appendix A.

## Section 1 Elementary and Secondary Enrollment

### INTRODUCTION

Total public and private elementary and secondary school enrollment was 56 million in fall 2016, representing a 3 percent increase since fall 2003 (table 1). Between fall 2016, the last year of actual public school data, and fall 2028, a further increase of 2 percent is expected. Both public and private school enrollments are projected to be higher in 2028 than in 2016. Public school enrollments are projected to be higher in 2028 than in 2016 for Blacks, Hispanics, Asians/Pacific Islanders, and students of Two or more races (table 6). Enrollment is projected to be lower for Whites and American Indians/Alaska Natives. Public school enrollments are projected to be higher in 2028 than in 2016 for the South and West, and to be lower for the Northeast and Midwest (table 3).

#### Factors affecting the projections

The grade progression rate method was used to project school enrollments. This method assumes that future trends in factors affecting enrollments will be consistent with past patterns. It implicitly includes the net effect of factors such as dropouts, deaths, nonpromotion, transfers to and from public schools, and state-level migration. See appendixes A.0 and A.1 for more details.

#### Factors that were not considered

The projections do not assume changes in policies or attitudes that may affect enrollment levels. For example, they do not account for changing state and local policies on prekindergarten (preK) and kindergarten programs. Continued expansion of these programs could lead to higher enrollments at the elementary school level. Projections exclude the number of students who are homeschooled.

#### Students of Two or more races

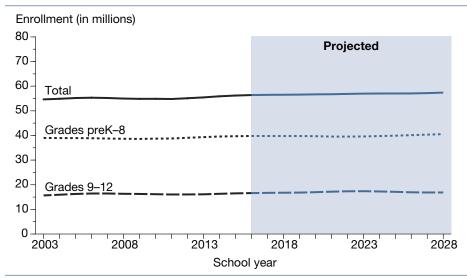
This is the eighth edition of *Projections of Education Statistics* to include actual and projected numbers for enrollment in public elementary and secondary schools for students of Two or more races. Collection of enrollment data for this racial/ethnic group began in 2008. The actual values from 2008 through 2016 and all the projected values for enrollments of the other racial/ethnic groups are lower than they would have been if this racial/ethnic category had not been added.

### **Accuracy of Projections**

An analysis of projection errors from the past 35 editions of *Projections of Education Statistics* indicates that the mean absolute percentage errors (MAPEs) for lead times of 1, 2, 5, and 10 years out for projections of public school enrollment in grades prekindergarten–12 were 0.3, 0.5, 1.2, and 2.6 percent, respectively. For the 1-year-out prediction, this means that the methodology used by the National Center for Education Statistics (NCES) has produced projections that have, on average, deviated from actual observed values by 0.3 percent. For projections of public school enrollment in grades prekindergarten–8, the MAPEs for lead times of 1, 2, 5, and 10 years out were 0.3, 0.6, 1.4, and 3.3 percent, respectively, while the MAPEs for projections of public school enrollment in grades 9–12 were 0.4, 0.7, 1.3, and 2.3 percent, respectively, for the same lead times. An analysis of projection errors from the past 17 editions of *Projections of Education Statistics* indicates that the MAPEs for lead times of 1, 2, 5, and 10 years out for projections of private school enrollment in grades prekinder-9, the MAPEs for lead times of 1, 2, 5, and 10 years out for projections of *Projections of Education Statistics* indicates that the MAPEs for lead times of 1, 2, 5, and 10 years out for projections of private school enrollment in grades prekinder-9, the MAPEs for lead times of 1, 2, 5, and 10 years out for projections of private school enrollment in grades prekinder-9, the MAPEs for lead times of 1, 2, 5, and 10 years out were 3.1, 5.8, 8.3, and 21.5 percent, respectively, while the MAPEs for projections of private school enrollment in grades prekinder-8, the MAPEs for lead times of 1, 2, 5, and 10 years out were 3.1, 5.8, 8.3, and 21.5 percent, respectively, while the MAPEs for projections of private school enrollment in grades 9–12 were 2.9, 4.2, 4.1, and 6.8 percent, respectively, for the same lead times. For more information, see table A-2 in appendix A.

### NATIONAL

## Figure 1. Actual and projected numbers for enrollment in elementary and secondary schools, by grade level: Fall 2003 through fall 2028



NOTE: PreK = prekindergarten. Enrollment numbers for prekindergarten through 12th grade and prekindergarten through 8th grade include private nursery and prekindergarten enrollment in schools that offer kindergarten or higher grades. Since the biennial Private School Universe Survey (PSS) is collected in the fall of odd-numbered years, private school numbers for alternate years are estimated based on data from the PSS. Some data have been revised from previously published figures. Mean absolute percentage errors of selected education statistics can be found in table A-2, appendix A.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2003–04 through 2016–17; Private School Universe Survey (PSS), selected years 2003–04 through 2015–16; and National Elementary and Secondary Enrollment Projection Model, 1972 through 2028. (This figure was prepared April 2019.)

Total elementary and secondary enrollment

- ▲ increased 3 percent between 2003 and 2016 (54.6 million versus 56.4 million); and
- ▲ is projected to increase 2 percent between 2016 and 2028 to 57.4 million.

Enrollment in prekindergarten through grade 8

- ▲ increased 2 percent between 2003 and 2016 (39.0 million versus 39.8 million); and
- ▲ is projected to increase 2 percent between 2016 and 2028 to 40.5 million.

Enrollment in grades 9–12

- ▲ was 6 percent higher in 2016 than in 2003 (16.6 million versus 15.7 million); and
- ▲ is projected to be 1 percent higher in 2028 (16.9 million) than in 2016.

For more information: Tables 1 and 2

## Enrollment by control of school

Enrollment in public elementary and secondary schools

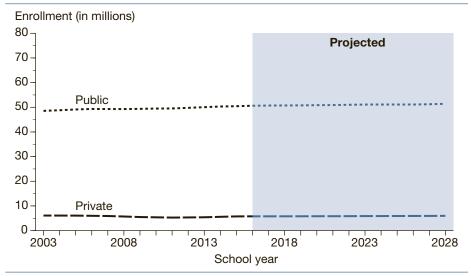
- ▲ increased 4 percent between 2003 and 2016 (48.5 million versus 50.6 million); and
- ▲ is projected to increase 2 percent between 2016 and 2028 to 51.4 million.

Enrollment in private elementary and secondary schools

- decreased 5 percent between 2003 and 2016 (6.1 million versus 5.8 million); and
- ▲ is projected to increase by 3 percent between 2016 and 2028 to 6.0 million.

*For more information: Table 1* 

#### Figure 2. Actual and projected numbers for enrollment in elementary and secondary schools, by control of school: Fall 2003 through fall 2028

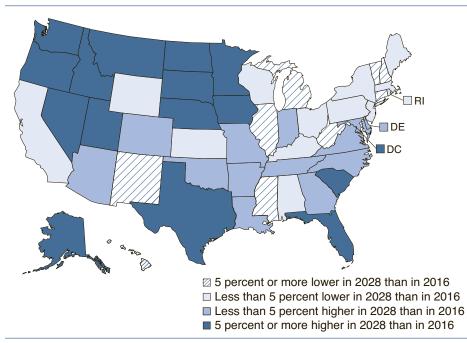


NOTE: Private school numbers include private nursery and prekindergarten enrollment in schools that offer kindergarten or higher grades. Since the biennial Private School Universe Survey (PSS) is collected in the fall of odd-numbered years, private school numbers for alternate years are estimated based on data from the PSS. Some data have been revised from previously published figures. Mean absolute percentage errors of selected education statistics can be found in table A-2, appendix A.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2003–04 through 2016–17; Private School Universe Survey (PSS), selected years 2003–04 through 2015–16; and National Elementary and Secondary Enrollment Projection Model, 1972 through 2028. (This figure was prepared April 2019.)

## STATE AND REGIONAL (PUBLIC SCHOOL DATA)

Figure 3. Projected percentage change in enrollment in public elementary and secondary schools, by state: Fall 2016 and fall 2028



NOTE: Mean absolute percentage errors of enrollment in public elementary and secondary schools by state and region can be found in table A-7, appendix A. Calculations are based on unrounded numbers.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2016–17; and State Public Elementary and Secondary Enrollment Projection Model, 1980 through 2028. (This figure was prepared April 2019.)

#### **Enrollment by state**

The expected 2 percent national increase in public school enrollment between 2016 and 2028 plays out differently among the states.

- Enrollments are projected to be lower in 2028 than in 2016 for 22 states, with projected enrollments
  - 5 percent or more lower in 9 states; and
  - less than 5 percent lower in 13 states.
- ▲ Enrollments are projected to be higher in 2028 than in 2016 for 28 states and the District of Columbia, with projected enrollments
  - less than 5 percent higher in 13 states; and
  - 5 percent or more higher in 15 states and the District of Columbia.

For more information: Tables 3 through 5

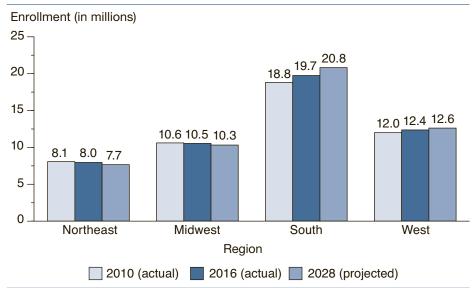
#### **Enrollment by region**

Public elementary and secondary enrollment is projected to

- decrease 4 percent between 2016 and 2028 for students in the Northeast;
- decrease 2 percent between 2016 and 2028 for students in the Midwest;
- ▲ increase 5 percent between 2016 and 2028 for students in the South; and
- increase 2 percent between 2016 and 2028 for students in the West.

For more information: Tables 3 through 5

## Figure 4. Actual and projected numbers for enrollment in public elementary and secondary schools, by region: Fall 2010, fall 2016, and fall 2028

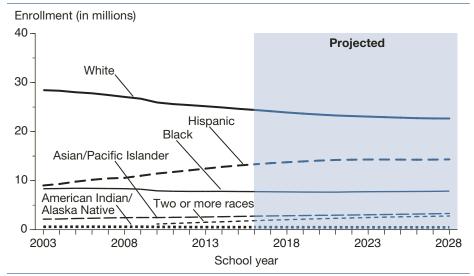


NOTE: Calculations are based on unrounded numbers. See the glossary for a list of the states in each region. Mean absolute percentage errors of enrollment in public elementary and secondary schools by state and region can be found in table A-7, appendix A. Although rounded numbers are displayed, the figures are based on unrounded estimates. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2010–11 and 2016–17; and State Public Elementary and Secondary Enrollment Projection Model, 1980 through 2028. (This figure was prepared April 2019.)

## **RACE/ETHNICITY (PUBLIC SCHOOL DATA)**





NOTE: Race categories exclude persons of Hispanic ethnicity. Enrollment data for students not reported by race/ethnicity were prorated by state and grade to match state totals. Data on students of Two or more races were not collected separately prior to 2008 and data on students of Two or more races from 2008 and 2009 were not reported by all states. Only in 2010 and later years were those data available for all 50 states and the District of Columbia. Total counts of ungraded students were prorated to prekindergarten through grade 8 and grades 9 through 12 based on prior reports. Some data have been revised from previously published figures. Mean absolute percentage errors of selected education statistics can be found in table A-2, appendix A. SOURCE: U.S. Department of Education, National Center for Education, 2003–04 through 2016–17; and National Public Elementary and Secondary Enrollment by Race/Ethnicity Projection Model, 1994 through 2028. (This figure was prepared April 2019.)

#### Enrollment by race/ ethnicity

Enrollment in public elementary and secondary schools is projected to

- decrease 7 percent between 2016 and 2028 for students who are White;
- increase 1 percent between 2016 and 2028 for students who are Black;
- ▲ increase 8 percent between 2016 and 2028 for students who are Hispanic;
- ▲ increase 20 percent between 2016 and 2028 for students who are Asian/Pacific Islander;
- decrease 7 percent between 2016 and 2028 for students who are American Indian/ Alaska Native; and
- ▲ increase 51 percent between 2016 and 2028 for students who are of Two or more races. (The line for this racial/ethnic group in figure 5 begins in 2010 when data for that group became available for all 50 states and the District of Columbia.)

*For more information: Tables 6 and 7* 

## Section 2 Elementary and Secondary Teachers

### INTRODUCTION

Between fall 2016, the last year of actual public school data, and fall 2028, the number of teachers in elementary and secondary schools is projected to increase 7 percent (table 8). The increase is projected to occur in both public and private schools. Both public and private schools are projected to experience a decline in pupil/teacher ratios. The annual number of new teacher hires is projected to be higher in 2028 than in 2016 in both public and private schools.

#### Factors affecting the projections

The projections of the number of elementary and secondary teachers are related to projected levels of enrollments and education revenue receipts from state sources per capita. For more details, see appendixes A.0 and A.2.

#### Factors that were not considered

The projections do not take into account possible changes in the number of teachers due to the effects of government policies.

#### About pupil/teacher ratios

The overall elementary and secondary pupil/teacher ratio and pupil/teacher ratios for public and private schools were computed based on elementary and secondary enrollment and the number of classroom teachers by control of school.

#### About new teacher hires

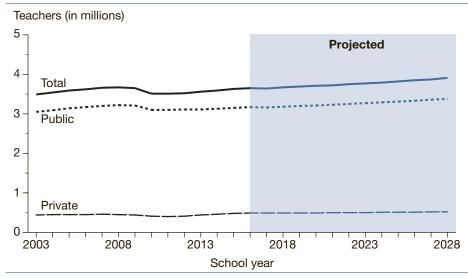
A teacher is considered to be a new teacher hire for a certain control of school (public or private) for a given year if the teacher teaches in that control that year but had not taught in that control in the previous year. A teacher who moves from teaching in one control of school to the other control is considered a new teacher hire, but a teacher who moves from one school to another school in the same control is not considered a new teacher hire.

#### Accuracy of Projections

An analysis of projection errors from the past 28 editions of *Projections of Education Statistics* that included projections of teachers indicates that the mean absolute percentage errors (MAPEs) for projections of classroom teachers in public elementary and secondary schools were 0.7 percent for 1 year out, 1.4 percent for 2 years out, 3.0 percent for 5 years out, and 6.5 percent for 10 years out. For the 1-year-out prediction, this means that one would expect the projection to be within 0.7 percent of the actual value, on average. For more information on the MAPEs of different National Center for Education Statistics (NCES) projection series, see table A-2 in appendix A.

### **TEACHERS IN ELEMENTARY AND SECONDARY SCHOOLS**

Figure 6. Actual and projected numbers for elementary and secondary teachers, by control of school: Fall 2003 through fall 2028



NOTE: Since the biennial Private School Universe Survey (PSS) is collected in the fall of oddnumbered years, private school numbers for alternate years are estimated based on data from the PSS. Data for teachers are expressed in full-time equivalents (FTE). Counts of private school teachers include prekindergarten through grade 12 in schools offering kindergarten or higher grades. Counts of public school teachers include prekindergarten through grade 12. Some data have been revised from previously published figures. Mean absolute percentage errors of selected education statistics can be found in table A-2, appendix A.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2003–04 through 2016–17; Private School Universe Survey (PSS), selected years, 2003–04 through 2015–16; Elementary and Secondary Teacher Projection Model, 1973 through 2028. (This figure was prepared April 2019.)

#### Number of teachers

The total number of elementary and secondary teachers

- was 5 percent higher in 2016 than in 2003 (3.7 million versus 3.5 million); and
- ▲ is projected to increase 7 percent between 2016 and 2028 to 3.9 million.

The number of teachers in public elementary and secondary schools

- ▲ was 4 percent higher in 2016 than in 2003 (3.2 million versus 3.0 million); and
- ▲ is projected to increase 7 percent between 2016 and 2028 to 3.4 million.

The number of teachers in private elementary and secondary schools

- was 10 percent higher in 2016 than in 2003 (485,000 versus 441,000); and
- ▲ is projected to increase by 8 percent between 2016 and 2028 to 522,000.

*For more information: Table 8* 

#### **Pupil/teacher ratios**

The pupil/teacher ratio in all elementary and secondary schools

- was lower in 2016 than in 2003 (15.4 versus 15.7); and
- is projected to decrease to 14.7 in 2028.

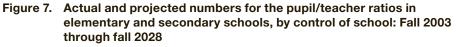
The pupil/teacher ratio in public elementary and secondary schools

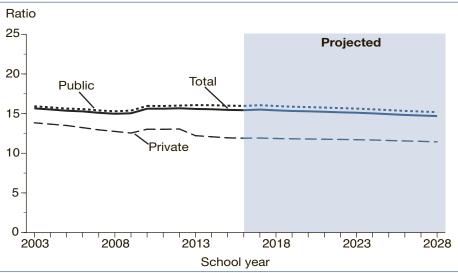
- was higher in 2016 than in 2003 (16.0 versus 15.9); and
- is projected to decrease to 15.2 in 2028.

The pupil/teacher ratio in private elementary and secondary schools

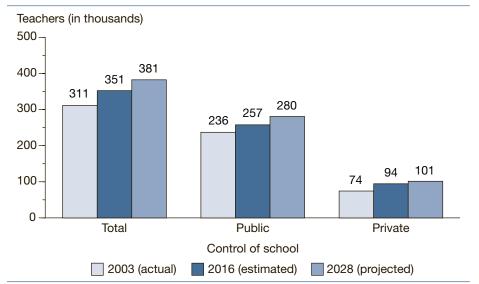
- decreased from 13.8 to 11.9 between 2003 and 2016; and
- is projected to decrease to 11.4 in 2028.

*For more information: Table 8* 





NOTE: Since the biennial Private School Universe Survey (PSS) is collected in the fall of oddnumbered years, private school numbers for alternate years are estimated based on data from the PSS. Data for teachers are expressed in full-time equivalents (FTE). Counts of private school teachers and enrollment include prekindergarten through grade 12 in schools offering kindergarten or higher grades. Counts of public school teachers and enrollment include prekindergarten through grade 12. Some data have been revised from previously published figures. Mean absolute percentage errors of selected education statistics can be found in table A-2, appendix A. SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2003–04 through 2016–17; Private School Universe Survey (PSS), selected years, 2003–04 through 2015–16; National Elementary and Secondary Enrollment Projection Model, 1972 through 2028; and Elementary and Secondary Teacher Projection Model, 1973 through 2028. (This figure was prepared April 2019.)



## Figure 8. Actual and projected numbers for elementary and secondary new teacher hires, by control of school: Fall 2003, fall 2016, and fall 2028

NOTE: Data for teachers are expressed in full-time equivalents (FTE). A teacher is considered to be a new hire for a public or private school if the teacher had not taught in that control of school in the previous year. A teacher who moves from a public to private or a private to public school is considered a new teacher hire, but a teacher who moves from one public school to another public school or one private school to another private school is not considered a new teacher hire. For more information about the New Teacher Hires Model, see appendix A.2. Calculations are based on unrounded numbers. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2003–04 and 2015–16; Private School Universe Survey (PSS), 2003–04 and 2015–16; Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2003–04; "Private School Teacher Data File," 2003–04; National Teacher Principal Survey (NTPS) 2015–16; Elementary and Secondary Teacher Projection Model, 1973 through 2028, and New Teacher Hires Projection Model, 1988 through 2028. (This figure was prepared April 2019.)

#### New teacher hires

The total number of new teacher hires

- was not measurably different in 2016 (351,000) than in 2003; and
- ▲ is projected to increase 9 percent between 2016 and 2028, to 381,000.

The number of new teacher hires in public schools

- was not measurably different in 2016 (257,000) than in 2003; and
- ▲ is projected to increase 9 percent between 2016 and 2028, to 280,000.

The number of new teacher hires in private schools

- was 27 percent higher in 2016 than in 2003 (94,000 versus 74,000); and
- ▲ is projected to increase 7 percent between 2016 and 2028, to 101,000.

*For more information: Table 8* 

## Section 3 High School Graduates

#### INTRODUCTION

The number of high school graduates increased nationally by 14 percent between 2003–04 and 2012–13, the last year of actual data for public schools (table 9). The number of high school graduates is projected to be 7 percent higher in 2028–29 than in 2012–13. The numbers of both public and private high school graduates are projected to be higher in 2028–29 than in 2012–13. The numbers of public high school graduates are projected to be higher in 2028–29 than in 2012–13. The numbers of public high school graduates are projected to be higher in 2028–29 than in 2012–13 in the South and West and lower in the Midwest and Northeast (table 10).

#### Factors affecting the projections

The projections of high school graduates are related to projections of 12th-graders and the historical relationship between the number of 12th-graders and the number of high school graduates. The methodology implicitly includes the net effect of factors such as dropouts, transfers to and from public schools, and state-level migration. For more details, see appendixes A.0 and A.3.

#### Factors that were not considered

The projections do not assume changes or attitudes that may affect the high school graduate levels. For example, they do not account for changes in policies influencing graduation requirements.

#### About high school graduates

A high school graduate is defined as an individual who has received formal recognition from school authorities, by the granting of a diploma, for completing a prescribed course of study. This definition does not include other high school completers or high school equivalency recipients.

#### High school graduates of Two or more races –

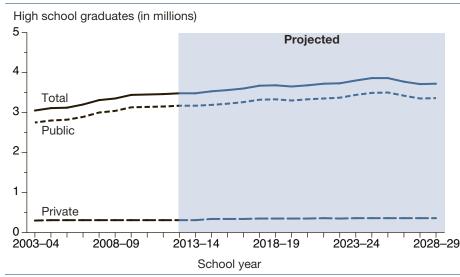
This is the sixth edition of *Projections of Education Statistics* to include actual and projected numbers for high school graduates of Two or more races. Collection of high school graduate data for this racial/ethnic group began in 2008–09. The actual values from 2008–09 through 2012–13 and all the projected values for high school graduates of the other racial/ethnic groups, except Hispanics, are lower than they would have been if this racial/ethnic category had not been added.

#### Accuracy of Projections

For National Center for Education Statistics (NCES) projections of public high school graduates produced over the last 28 editions, the mean absolute percentage errors (MAPEs) for lead times of 1, 2, 5, and 10 years out were 1.0, 1.1, 2.5, and 5.1, respectively. For the 1-year-out prediction, this means that one would expect the projection to be within 1.0 percent of the actual value, on average. For NCES projections of private high school graduates produced over the last 17 editions, the MAPEs for lead times of 1, 2, 5, and 10 years out were 3.0, 2.5, 4.9, and 7.7 percent, respectively. For more information, see table A-2 in appendix A.

### NATIONAL

## Figure 9. Actual and projected numbers for high school graduates, by control of school: School years 2003–04 through 2028–29



NOTE: The private school data for 2014–15 are an actual number. Since the biennial Private School Universe Survey (PSS) is collected in the fall of odd-numbered years and the numbers collected for high school graduates are for the preceding year, private school numbers for odd years are estimated based on data from the PSS. Includes graduates of regular day school programs. Excludes graduates of other programs, when separately reported, and recipients of high school equivalency certificates. Some data have been revised from previously published figures. Mean absolute percentage errors of selected education statistics can be found in table A-2, appendix A. SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2004–05 through 2015–06; "State Dropout and Completion Data File," 2005–06 through 2012–13; Private School Universe Survey (PSS), selected years, 2004–05 through 2015–16; and National High School Graduates Projection Model, 1972–73 through 2028–29. (This figure was prepared April 2019.)

The total number of high school graduates

- increased 14 percent between 2003–04 and 2012–13 (3.1 million versus 3.5 million); and
- ▲ is projected to increase 7 percent between 2012–13 and 2028–29 to 3.7 million.

The number of public high school graduates

- increased 15 percent between 2003–04 and 2012–13 (2.8 million versus 3.2 million); and
- ▲ is projected to increase 6 percent between 2012–13 and 2028–29 to 3.4 million.

The number of private high school graduates

- ▲ was 3 percent higher in 2012– 13 than in 2003–04 (309,000 versus 301,000); and
- ▲ is projected to increase 17 percent between 2012–13 and 2028–29 to 360,000.

*For more information: Table 9* 

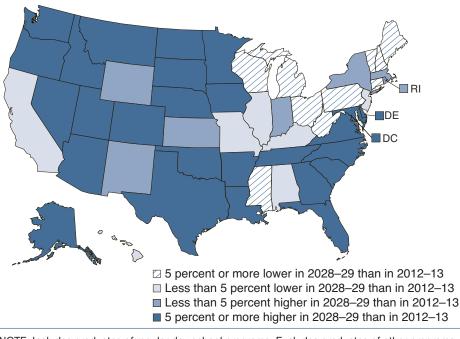
### STATE AND REGIONAL (PUBLIC SCHOOL DATA)

## High school graduates by state

The number of public high school graduates is projected to be higher in 2028–29 than in 2012–13. This plays out differently among the states.

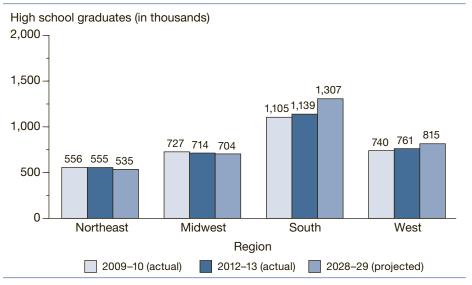
- High school graduates are projected to be lower in 2028–29 than in 2012–13 for 17 states, with projected high school graduates
  - less than 5 percent lower in 7 states; and
  - 5 percent or more lower in 10 states.
- ▲ High school graduates are projected to be higher in 2028–29 than in 2012–13 for 33 states and the District of Columbia, with projected high school graduates
  - 5 percent or more higher in 26 states and the District of Columbia; and
  - less than 5 percent higher in 7 states.

For more information: Table 10 Figure 10. Projected percentage change in the number of public high school graduates, by state: School years 2012–13 and 2028–29



NOTE: Includes graduates of regular day school programs. Excludes graduates of other programs, when separately reported, and recipients of high school equivalency certificates. Calculations are based on unrounded numbers. Mean absolute percentage errors of public high school graduates by state and region can be found in table A-14, appendix A.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Dropout and Completion Data File," 2012–13; and State Public High School Graduates Projection Model, 1980–81 through 2028–29. (This figure was prepared April 2019.)



## Figure 11. Actual and projected numbers for public high school graduates, by region: School years 2009–10, 2012–13, and 2028–29

NOTE: Includes graduates of regular day school programs. Excludes graduates of other programs, when separately reported, and recipients of high school equivalency certificates. See the glossary for a list of states in each region. Mean absolute percentage errors of public high school graduates by state and region can be found in table A-14, appendix A. Calculations are based on unrounded numbers. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2009–10; "State Dropout and Completion Data File," 2012–13; and State Public High School Graduates Projection Model, 1980–81 through 2028–29. (This figure was prepared April 2019.)

## High school graduates by region

The number of public high school graduates is projected to

- be 4 percent lower in 2028–29 than in 2012–13 in the Northeast;
- be 1 percent lower in 2028–29 than in 2012–13 in the Midwest;
- ▲ increase 15 percent between 2012–13 and 2028–29 in the South; and
- ▲ increase 7 percent between 2012–13 and 2028–29 in the West.

For more information: Table 10

### **RACE/ETHNICITY (PUBLIC SCHOOL DATA)**

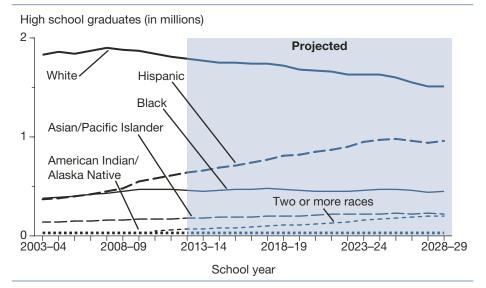
## High school graduates by race/ethnicity

The number of public high school graduates is projected to

- decrease 15 percent between 2012–13 and 2028–29 (1,791,000 versus 1,514,000) for students who are White;
- be 3 percent lower in 2028–29 than in 2012–13 (448,000 versus 462,000) for students who are Black;
- ▲ increase 49 percent between 2012–13 and 2028–29 (640,000 versus 955,000) for students who are Hispanic;
- increase 23 percent between 2012–13 and 2028–29 (179,000 versus 221,000) for students who are Asian/Pacific Islander;
- decrease 11 percent between 2012–13 and 2028–29 (31,000 versus 28,000) for students who are American Indian/ Alaska Native; and
- ▲ increase 199 percent between 2012–13 and 2028–29 (66,000 versus 196,000) for students who are of Two or more races.

*For more information: Table 11* 

## Figure 12. Actual and projected numbers for public high school graduates, by race/ethnicity: School years 2003–04 through 2028–29



NOTE: Race categories exclude persons of Hispanic ethnicity. Data on students of Two or more races were not collected separately prior to 2007–08, and data on students of Two or more races from 2007–08 through 2009–10 were not reported by all states. Therefore, the data are not comparable to figures for 2010–11 and later years. Mean absolute percentage errors of selected education statistics can be found in table A-2, appendix A. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2003–04 through 2009–10; "State Dropout and Completion Data File," 2010–11 through 2012–13; and National Public High School Graduates by Race/Ethnicity Projection Model, 1995–96 through 2028–29. (This figure was prepared April 2019.)

## Section 4 Expenditures for Public Elementary and Secondary Education

#### **INTRODUCTION**

Current expenditures (e.g., instruction and support services) for public elementary and secondary education are projected to increase 13 percent in constant dollars (adjusted for inflation) between school years 2015–16, the last year of actual data, and 2028–29 (table 12).

#### Factors affecting the projections

The projections of current expenditures are related to projections of economic growth as measured by disposable income per capita and assistance by state governments to local governments. For more details, see appendixes A.0 and A.4.

#### Factors that were not considered

Many factors that may affect future school expenditures were not considered in the production of these projections. Such factors include policy initiatives as well as potential changes in the age distribution of elementary and secondary teachers as older teachers retire and are replaced by younger teachers, or as older teachers put off retirement for various reasons.

#### About constant dollars and current dollars -

Throughout this section, projections of current expenditures are presented in constant 2017–18 dollars. The reference tables, later in this report, present these data both in constant 2017–18 dollars and in current dollars. The projections were developed in constant dollars and then placed in current dollars using projections for the Consumer Price Index (CPI) (table B-5 in appendix B).

### **Accuracy of Projections**

An analysis of projection errors from similar models used in the past 28 editions of *Projections of Education Statistics* that contained expenditure projections indicates that mean absolute percentage errors (MAPEs) for total current expenditures in constant dollars were 1.7 percent for 1 year out, 2.6 percent for 2 years out, 3.1 percent for 5 years out, and 7.2 percent for 10 years out. For the 1-year-out prediction, this means that one would expect the projection to be within 1.7 percent of the actual value, on average. MAPEs for current expenditures per pupil in fall enrollment in constant dollars were 1.7 percent for 1 year out, 2.6 percent for 2 years out, 3.3 percent for 5 years out, and 7.5 percent for 10 years out. See appendix A for further discussion of the accuracy of recent projections of current expenditures, and see table A-2 in appendix A for the MAPEs of these projections.

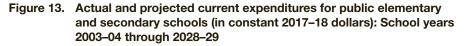
### **CURRENT EXPENDITURES**

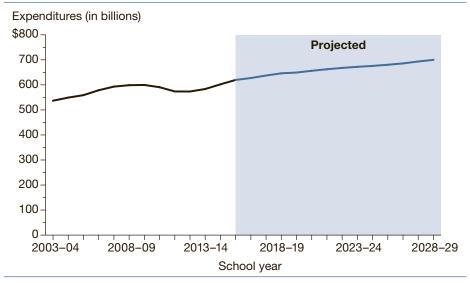
#### **Current expenditures**

Current expenditures in constant 2017–18 dollars

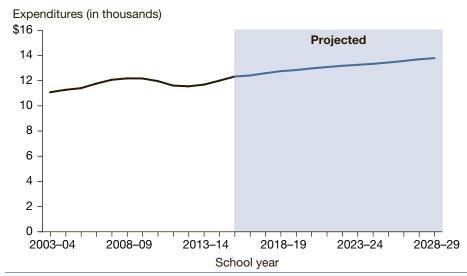
- ▲ increased 15 percent from 2003–04 to 2015–16 (\$538 billion versus \$621 billion); and
- ▲ are projected to increase 13 percent, to \$701 billion, from 2015–16 to 2028–29.

*For more information: Table 12* 





NOTE: Numbers were placed in constant dollars using the Consumer Price Index (CPI) for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor. For more detail about CPI, see table B-5 in appendix B. Current expenditures include instruction, support services, food services, and enterprise operations. Some data have been revised from previously published figures. Mean absolute percentage errors of selected education statistics can be found in table A-2, appendix A. SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "National Public Education Financial Survey," 2003–04 through 2015–16; Public Elementary and Secondary School Current Expenditures Projection Model, 1969–70 through 2028–29. (This figure was prepared April 2019.)



#### Figure 14. Actual and projected current expenditures per pupil in fall enrollment in public elementary and secondary schools (in constant 2017–18 dollars): School years 2003–04 through 2028–29

NOTE: Numbers were placed in constant dollars using the Consumer Price Index (CPI) for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor. For more detail about CPI, see table B-5 in appendix B. Current expenditures include instruction, support services, food services, and enterprise operations. Some data have been revised from previously published figures. Mean absolute percentage errors of selected education statistics can be found in table A-2, appendix A. SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2003–04 through 2016–17; "National Public Education Financial Survey," 2003–04 through 2015–16; National Elementary and Secondary Enrollment Projection Model, 1972 through 2028; and Elementary and Secondary School Current Expenditures Projection Model, 1969–70 through 2028–29. (This figure was prepared April 2019.)

## Current expenditures per pupil

Current expenditures per pupil in fall enrollment in constant 2017– 18 dollars

- increased 11 percent from 2003–04 to 2015–16 (\$11,100 versus \$12,300); and
- ▲ are projected to increase 12 percent, to \$13,800, from 2015–16 to 2028–29.

*For more information: Table 12* 

## Section 5 Enrollment in Degree-Granting Postsecondary Institutions

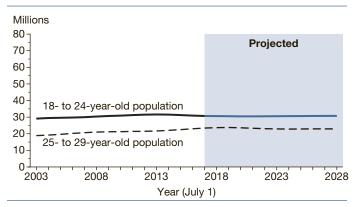
#### **INTRODUCTION**

Total enrollment in degree-granting postsecondary institutions is expected to increase 3 percent between fall 2017, the last year of actual data, and fall 2028 (table 13). Degree-granting institutions are postsecondary institutions that provide study beyond secondary school and offer programs terminating in an associate's, baccalaureate, or higher degree and participate in federal financial aid programs. Differential growth is expected by student characteristics such as age, sex, and attendance status (part-time or full-time). Enrollment is expected to increase in both public and private degree-granting postsecondary institutions.

#### Factors affecting the projections

The projections of enrollment levels are related to projections of college-age populations, disposable income, and unemployment rates. For more details, see appendixes A.0 and A.5. An important factor in the enrollment projections is the expected change in the population of 18- to 29-yearolds from 2003 through 2028 (table B-3 in appendix B).

#### Figure 15. Actual and projected population numbers for 18- to 24-year-olds and 25- to 29-year-olds: 2003 through 2028



NOTE: Some data have been revised from previously published figures. Projections are from the U.S. Census Bureau's 2017 National Population Projections, ratioadjusted to line up with the most recent historical estimate.

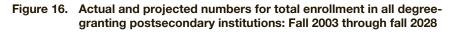
SOURCE: U.S. Department of Commerce, Census Bureau, Population Estimates, July 19, 2018 from <u>https://www2.census.gov/programs-surveys/popest/</u> <u>datasets/2010-2017/;</u> and Population Projections, retrieved October 10, 2018, from <u>https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html</u>. (This figure was prepared May 2019.)

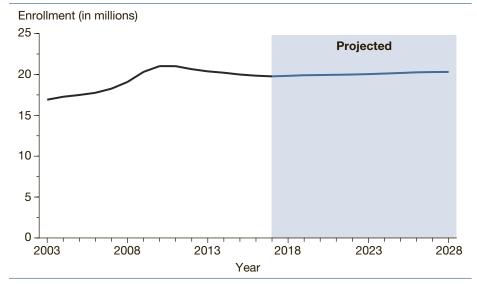
#### Factors that were not considered

The enrollment projections do not take into account such factors as the cost of a college education, the economic value of an education, and the impact of distance learning due to technological changes. These factors may produce changes in enrollment levels. The racial/ethnic backgrounds of nonresident aliens are not known.

### **Accuracy of Projections**

No mean absolute percentage errors were calculated for enrollments in degree-granting postsecondary institutions, as, beginning with *Projections of Education Statistics to 2027*, enrollment projections were calculated using a new model. For information concerning the accuracy of the previous models used to produce projections of enrollment in degree-granting postsecondary institutions, see page 125 of *Projections of Education Statistics to 2026*.





NOTE: Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Spring 2004 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This figure was prepared April 2019.)

### **TOTAL ENROLLMENT**

#### Total enrollment in degree-granting postsecondary institutions

- ▲ increased 17 percent from 2003 to 2017 (16.9 million versus 19.8 million); and
- ▲ is projected to increase 3 percent, to 20.3 million, from 2017 to 2028.

*For more information: Table 13* 

### ENROLLMENT BY SELECTED CHARACTERISTICS AND CONTROL OF INSTITUTION

## Enrollment by age of student

Enrollment in degree-granting postsecondary institutions of students who are 14 to 24 years old

- ▲ increased 32 percent between 2000 and 2017 (9.0 million versus 11.9 million; and
- is projected to increase
   6 percent between 2017 and
   2028 to 12.6 million.

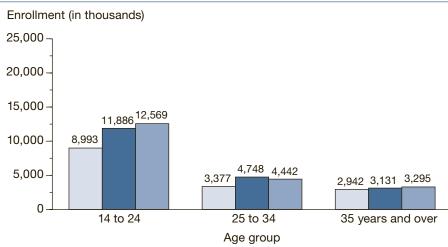
Enrollment in degree-granting postsecondary institutions of students who are 25 to 34 years old

- ▲ increased 41 percent between 2000 and 2017 (3.4 million versus 4.7 million); and
- is projected to be 6 percent lower in 2028 (4.4 million) than in 2017.

Enrollment in degree-granting postsecondary institutions of students who are 35 years old and over

- ▲ was 6 percent higher in 2017 than in 2000 (3.1 million versus 2.9 million); and
- is projected to increase
   5 percent between 2017 and
   2028 (3.3 million).

*For more information: Table 15* 

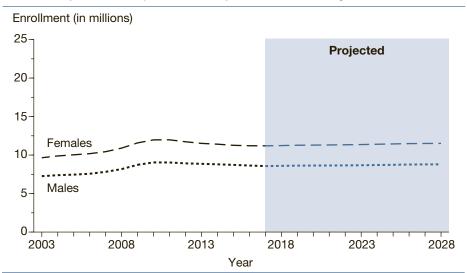


NOTE: Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. Distributions by age are estimates based on samples of the civilian noninstitutional population from the U.S. Census Bureau's Current Population Survey. Calculations are based on unrounded numbers.

2000 (actual) 2017 (actual) 2028 (projected)

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS) Spring 2001 and Spring 2018, Fall Enrollment component; Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028; and U.S. Department of Commerce, Census Bureau, Current Population Reports, "Social and Economic Characteristics of Students," 2000 and 2017. (This figure was prepared April 2019.)

## Figure 17. Actual and projected numbers for total enrollment in all degreegranting postsecondary institutions, by age group: Fall 2000, fall 2017, and fall 2028



## Figure 18. Actual and projected numbers for enrollment in all degree-granting postsecondary institutions, by sex: Fall 2003 through fall 2028

NOTE: Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Spring 2004 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This figure was prepared April 2019.)

## Enrollment by sex of student

Enrollment of males in degreegranting postsecondary institutions

- ▲ increased 18 percent between 2003 and 2017 (7.3 million versus 8.6 million); and
- is projected to increase
   3 percent between 2017 and
   2028 to 8.8 million.

Enrollment of females in degreegranting postsecondary institutions

- ▲ increased 16 percent between 2003 and 2017 (9.7 million versus 11.2 million); and
- ▲ is projected to increase 3 percent between 2017 and 2028 to 11.5 million.

For more information: Tables 13 and 15

## Enrollment by attendance status

Enrollment of full-time students in degree-granting postsecondary institutions

- increased 17 percent between 2003 and 2017 (10.3 million versus 12.1 million); and
- ▲ is projected to increase 2 percent between 2017 and 2028 to 12.3 million.

Enrollment of part-time students in degree-granting postsecondary institutions

- increased 17 percent between 2003 and 2017 (6.6 million versus 7.7 million); and
- is projected to increase
   5 percent between 2017 and
   2028 to 8.0 million.

For more information: Tables 13–15

## Enrollment by level of student

Enrollment of undergraduate students in degree-granting postsecondary institutions

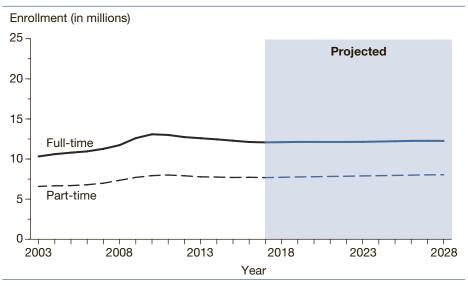
- increased 16 percent between 2003 and 2017 (14.5 million versus 16.8 million); and
- is projected to increase
   3 percent between 2017 and
   2028 to 17.2 million.

Enrollment of postbaccalaureate students in degree-granting postsecondary institutions

- ▲ increased 24 percent between 2003 and 2017 (2.4 million versus 3.0 million); and
- ▲ is projected to increase 3 percent between 2017 and 2028 to 3.1 million.

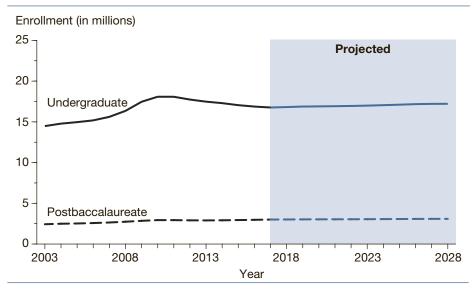
*For more information: Tables 16–17* 

# Figure 19. Actual and projected numbers for enrollment in all degree-granting postsecondary institutions, by attendance status: Fall 2003 through fall 2028

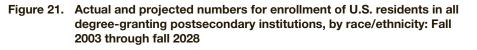


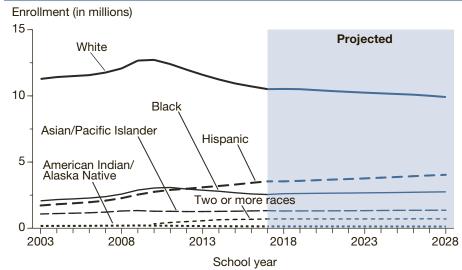
NOTE: Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Spring 2004 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This figure was prepared April 2019.)

# Figure 20. Actual and projected numbers for enrollment in all degree-granting postsecondary institutions, by level of enrollment: Fall 2003 through fall 2028



NOTE: Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Spring 2004 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This figure was prepared April 2019.)





NOTE: Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. Race categories exclude persons of Hispanic ethnicity. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Spring 2004 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model, 1980 through 2028. (This figure was prepared April 2019.)

#### Enrollment by race/ ethnicity

Enrollment of U.S. residents is projected to

- decrease 6 percent for students who are White between 2017 and 2028 (10.5 million versus 9.9 million);
- increase 8 percent for students who are Black between 2017 and 2028 (2.5 million versus 2.7 million);
- ▲ increase 14 percent for students who are Hispanic between 2017 and 2028 (3.5 million versus 4.0 million);
- ▲ increase 2 percent for students who are Asian/Pacific Islander between 2017 and 2028 (1.3 million versus 1.4 million);
- decrease 9 percent for students who are American Indian/ Alaska Native between 2017 and 2028 (138,000 versus 125,000); and
- ▲ increase 1 percent for students who are of Two or more races between 2017 and 2028 (700,000 and 705,000).

*For more information: Table 19* 

## Enrollment in public and private institutions

Enrollment in public degreegranting postsecondary institutions

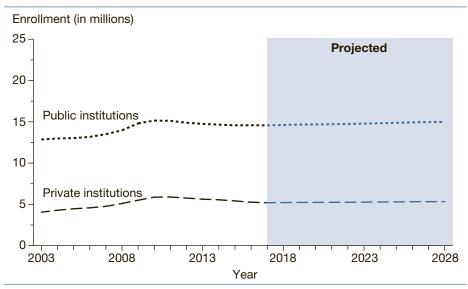
- ▲ increased 13 percent between 2003 and 2017 (12.9 million versus 14.6 million); and
- is projected to increase
   3 percent between 2017 and
   2028 to 15.0 million.

Enrollment in private degreegranting postsecondary institutions

- ▲ increased 28 percent between 2003 and 2017 (4.1 million versus 5.2 million); and
- is projected to increase
   2 percent between 2017 and
   2028 to 5.3 million.

*For more information: Table 13* 

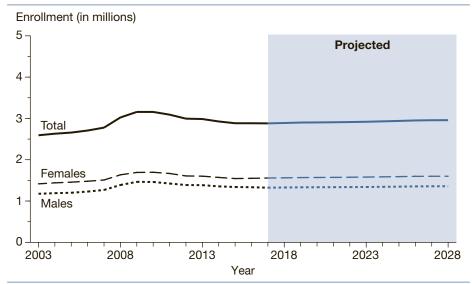
#### Figure 22. Actual and projected numbers for enrollment in all degree-granting postsecondary institutions, by control of institution: Fall 2003 through fall 2028



NOTE: Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Spring 2004 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This figure was prepared April 2019.)

### FIRST-TIME FRESHMEN ENROLLMENT

#### Figure 23. Actual and projected numbers for total first-time degree/certificateseeking students in degree-granting postsecondary institutions, by sex: Fall 2003 through fall 2028



NOTE: Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Spring 2004 through Spring 2018, Fall Enrollment component; and First-Time Freshmen Projection Model, 1980 through 2028. (This figure was prepared April 2019.)

## First-time freshmen fall enrollment

Total first-time freshmen fall enrollment in all degree-granting postsecondary institutions

- ▲ increased 11 percent from 2003 to 2017 (2.59 million versus 2.88 million); and
- ▲ is projected to increase 3 percent between 2017 and 2028 to 2.96 million.

First-time freshmen fall enrollment of males in all degree-granting postsecondary institutions

- ▲ increased 13 percent from 2003 to 2017 (1.18 million versus 1.32 million); and
- ▲ is projected to increase 3 percent between 2017 and 2028 to 1.36 million.

First-time freshmen fall enrollment of females in all degree-granting postsecondary institutions

- ▲ was 10 percent higher in 2017 than in 2003 (1.56 million versus 1.42 million); and
- is projected to increase
   3 percent between 2017 and
   2028 to 1.60 million.

*For more information: Table 18* 

## FULL-TIME-EQUIVALENT ENROLLMENT, BY CONTROL OF INSTITUTION

## Full-time-equivalent fall enrollment

Total full-time-equivalent fall enrollment in degree-granting postsecondary institutions

- ▲ increased 17 percent between 2003 and 2017 (12.7 million versus 14.9 million); and
- ▲ is projected to increase 2 percent between 2017 and 2028 to 15.2 million.

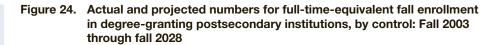
Full-time-equivalent fall enrollment in public degreegranting postsecondary institutions

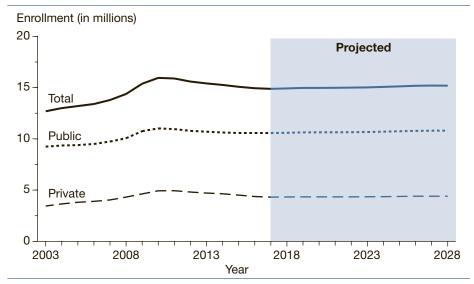
- ▲ increased 14 percent between 2003 and 2017 (9.2 million versus 10.6 million); and
- ▲ is projected to increase 2 percent between 2017 and 2028 to 10.8 million.

Full-time-equivalent fall enrollment in private degreegranting postsecondary institutions

- increased 25 percent between 2003 and 2017 (3.4 million versus 4.3 million); and
- is projected to increase
   2 percent between 2017 and
   2028 to 4.4 million.

*For more information: Table 20* 





NOTE: Full-time-equivalent fall enrollment is the full-time enrollment, plus the full-time-equivalent of the part-time students. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Spring 2004 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This figure was prepared April 2019.)

# Section 6 Postsecondary Degrees Conferred

### INTRODUCTION

Long-term growth in enrollment in degree-granting postsecondary institutions has been reflected by increases in the numbers of associate's, bachelor's, master's, and doctor's degrees conferred (tables 13 and 21). Increases in the number of degrees conferred are expected to continue between academic year 2016–17, the last year of actual data, and academic year 2028–29. During that period, the number of associate's degrees is projected to increase 1 percent, the number of bachelor's degrees is projected to increase 3 percent, and the numbers of master's degrees and doctor's degrees are each projected to increase 4 percent.

#### Factors affecting the projections

The projections of the number of degrees conferred are related to projections of the college-age populations developed by the Census Bureau and college enrollments from this report. For more details, see appendixes A.0 and A.6.

#### Factors that were not considered

Some factors that may affect future numbers of degrees, such as choice of degree and labor force requirements, were not included in the projection models.

#### Changes in degree classifications

The National Center for Education Statistics (NCES) no longer uses the first-professional degree classification. Beginning with academic year 2009–10, most degrees formerly classified as first-professional—such as M.D., D.D.S., and law degrees—are classified as doctor's degrees. However, master's of divinity degrees are now classified as master's degrees. This is the eighth edition of *Projections of Education Statistics* to use these new classifications. With this change, the actual numbers of master's and doctor's degrees conferred are higher than the actual numbers in *Projections of Education Statistics to 2020* and earlier editions of this report. The revisions of actual numbers are reflected in the projections.

#### Accuracy of Projections

No mean absolute percentage errors were calculated for degrees conferred because this is the second edition of *Projections of Education Statistics* to use the current models. For information concerning the accuracy of the previous models used to produce projections of postsecondary degrees conferred, see page 125 of *Projections of Education Statistics to 2026*.

### DEGREES, BY LEVEL OF DEGREE AND SEX OF RECIPIENT

#### Associate's degrees

The total number of associate's degrees

- ▲ increased 51 percent between 2003–04 and 2016–17 (665,000 versus 1.01 million); and
- ▲ is projected to increase 1 percent between 2016–17 and 2028–29 to 1.02 million.

The number of associate's degrees awarded to males

- increased 52 percent between 2003–04 and 2016–17 (260,000 versus 394,000); and
- ▲ is projected to increase 1 percent between 2016–17 and 2028–29 to 396,000.

The number of associate's degrees awarded to females

- increased 51 percent between 2003–04 and 2016–17 (405,000 versus 611,000); and
- ▲ is projected to increase 1 percent between 2016–17 and 2028–29 to 619,000.

*For more information: Table 21* 

#### **Bachelor's degrees**

The total number of bachelor's degrees

- ▲ increased 40 percent between 2003–04 and 2016–17 (1.40 million versus 1.96 million); and
- is projected to increase 3 percent between 2016–17 and 2028–29 to 2.01 million.

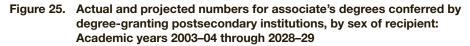
The number of bachelor's degrees awarded to males

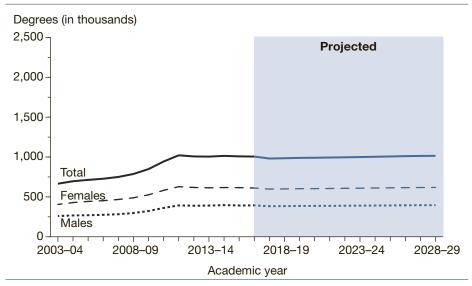
- increased 40 percent between 2003–04 and 2016–17 (595,000 versus 836,000); and
- ▲ is projected to increase 2 percent between 2016–17 and 2028–29 to 855,000.

The number of bachelor's degrees awarded to females

- increased 39 percent between 2003–04 and 2016–17 (804,000 versus 1.12 million); and
- is projected to be 3 percent higher in 2028–29 (1.15 million) than in 2016–17.

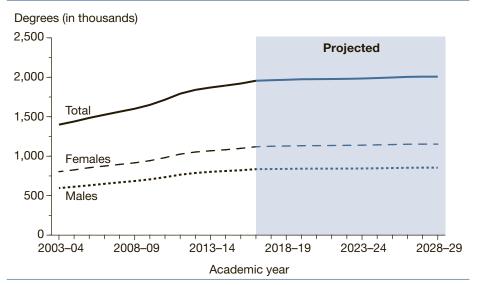
*For more information: Table 21* 



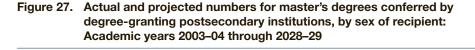


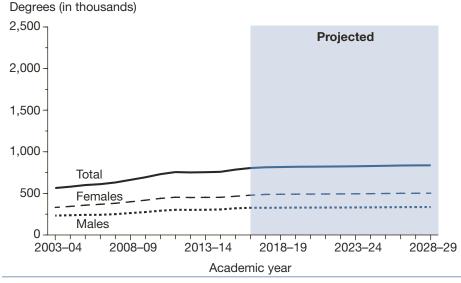
NOTE: Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Fall 2004 through Fall 2017, Completions component; and Degrees Conferred Projection Model, 1980–81 through 2028–29. (This figure was prepared April 2019.)

## Figure 26. Actual and projected numbers for bachelor's degrees conferred by degree-granting postsecondary institutions, by sex of recipient: Academic years 2003–04 through 2028–29



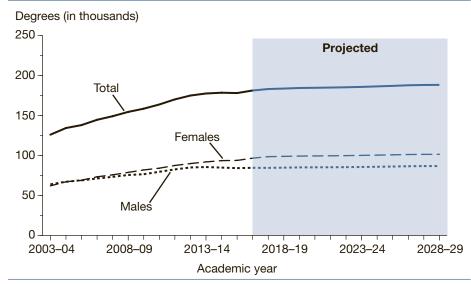
NOTE: Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Fall 2004 through Fall 2017, Completions component; and Degrees Conferred Projection Model, 1980–81 through 2028–29. (This figure was prepared April 2019.)





NOTE: Includes some degrees formerly classified as first-professional, such as divinity degrees (M.Div. and M.H.L./Rav). Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS) Fall 2004 through Fall 2017, Completions component; and Degrees Conferred Projection Model, 1980–81 through 2028–29. (This figure was prepared April 2019.)

## Figure 28. Actual and projected numbers for doctor's degrees conferred by degree-granting postsecondary institutions, by sex of recipient: Academic years 2003–04 through 2028–29



NOTE: Doctor's degrees include Ph.D., Ed.D., and comparable degrees at the doctoral level. Includes most degrees formerly classified as first-professional, such as M.D., D.D.S., and law degrees. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS) Fall 2004 through Fall 2017, Completions component; and Degrees Conferred Projection Model, 1980–81 through 2028–29. (This figure was prepared April 2019.)

#### **Master's degrees**

The total number of master's degrees

- ▲ increased 43 percent between 2003–04 and 2016–17 (564,000 versus 805,000); and
- ▲ is projected to increase 4 percent between 2016–17 and 2028–29 to 837,000.

The number of master's degrees awarded to males

- increased 40 percent between 2003–04 and 2016–17 (233,000 versus 327,000); and
- ▲ is projected to increase 3 percent between 2016–17 and 2028–29 to 335,000.

The number of master's degrees awarded to females

- ▲ increased 44 percent between 2003–04 and 2016–17 (331,000 versus 478,000); and
- ▲ is projected to increase 5 percent between 2016–17 and 2028–29 to 502,000.

*For more information: Table 21* 

#### **Doctor's degrees**

The total number of doctor's degrees

- increased 44 percent between 2003–04 and 2016–17 (126,000 versus 181,000); and
- ▲ is projected to increase 4 percent between 2016–17 and 2028–29 to 188,000.

The number of doctor's degrees awarded to males

- ▲ increased 32 percent between 2003–04 and 2016–17 (64,000 versus 85,000); and
- ▲ is projected to increase 3 percent between 2016–17 and 2028–29 to 87,000.

The number of doctor's degrees awarded to females

- ▲ increased 56 percent between 2003–04 and 2016–17 (62,000 versus 97,000); and
- ▲ is projected to increase 5 percent between 2016–17 and 2028–29 to 102,000.

For more information: Table 21

Projections of Education Statistics to 2028

## **Reference Tables**

#### Table 1. Enrollment in elementary, secondary, and degree-granting postsecondary institutions, by level and control of institution: Selected years, 1869–70 through fall 2028

[In thousands]

				[	In thousands]						
				c elementary a condary schools			rate elementary econdary school			egree-grantin condary institu	
Year	Total enrollment, all levels	Elementary and secondary, total	Total	Prekinder- garten through grade 8	Grades 9 through 12	Total	Prekinder- garten through grade 8	Grades 9 through 12	Total	Public	Private
1	2	3	4	5	6	7	8	9	10	11	12
1869–70           1879–80           1889–90           1899–1900           1909–10           1919–20	14,491 17,092 19,728 23,876	14,334 16,855 19,372 23,278	6,872 9,868 12,723 15,503 17,814 21,578	6,792 9,757 12,520 14,984 16,899 19,378	80 110 203 519 915 2,200	1,611 1,352 1,558 1,699	1,516 1,241 1,441 1,486	 95 111 117 214	52 116 157 238 355 598		
1929–30 1939–40 1949–50 Fall 1959 Fall 1959 Fall 1969 Fall 1985	29,430 29,539 31,151 44,497 59,055 57,226	28,329 28,045 28,492 40,857 51,050 44,979	25,678 25,434 25,111 35,182 45,550 39,422	21,279 18,832 19,387 26,911 32,513 27,034	4,399 6,601 5,725 8,271 13,037 12,388	2,651 2,611 3,380 5,675 5,500 <sup>3</sup> 5,557	2,310 2,153 2,708 4,640 4,200 <sup>3</sup> 4,195	341 458 672 1,035 1,300 <sup>3</sup> 1,362	1,101 1,494 2,659 3,640 8,005 12,247	 1,355 2,181 5,897 9,479	698 1,304 1,459 2,108 2,768
Fall 1990 Fall 1991 Fall 1992 Fall 1992 Fall 1993 Fall 1994	60,683 62,087 63,181 63,837 64,385	46,864 47,728 48,694 49,532 50,106	41,217 42,047 42,823 43,465 44,111	29,876 30,503 31,086 31,502 31,896	11,341 11,544 11,737 11,963 12,215	5,648 <sup>3</sup> 5,681 5,870 <sup>3</sup> 6,067 5,994 <sup>3</sup>	$\begin{array}{c} 4,512^{3} \\ 4,550 \\ 4,746^{3} \\ 4,950 \\ 4,856^{3} \end{array}$	$1,136^{3}$ 1,131 1,125 <sup>3</sup> 1,118 1,138 <sup>3</sup>	13,819 14,359 14,487 14,305 14,279	10,845 11,310 11,385 11,189 11,134	2,974 3,049 3,103 3,116 3,145
Fall 1995 Fall 1996 Fall 1997 Fall 1997 Fall 1998 Fall 1999	65,020 65,911 66,574 67,033 67,725	50,759 51,544 52,071 52,526 52,875	44,840 45,611 46,127 46,539 46,857	32,338 32,762 33,071 33,344 33,486	12,502 12,849 13,056 13,195 13,371	5,918 5,933 <sup>3</sup> 5,944 5,988 <sup>3</sup> 6,018	4,756 4,755 <sup>3</sup> 4,759 4,776 <sup>3</sup> 4,789	1,163 1,178 <sup>3</sup> 1,185 1,212 <sup>3</sup> 1,229	14,262 14,368 14,502 14,507 14,850	11,092 11,120 11,196 11,138 11,376	3,169 3,247 3,306 3,369 3,474
Fall 2000 Fall 2001 Fall 2002 Fall 2002 Fall 2003 Fall 2004	68,685 69,920 71,015 71,551 72,154	53,373 53,992 54,403 54,639 54,882	47,204 47,672 48,183 48,540 48,795	33,686 33,936 34,114 34,201 34,178	13,517 13,736 14,069 14,339 14,618	$ \begin{array}{r}     6,169^{3} \\     6,320 \\     6,220^{3} \\     6,099 \\     6,087^{3} \end{array} $	$\begin{array}{c} 4,906^{3} \\ 5,023 \\ 4,915^{3} \\ 4,788 \\ 4,756^{3} \end{array}$	$1,264^{3}$ 1,296 $1,306^{3}$ 1,311 $1,331^{3}$	15,312 15,928 16,612 16,911 17,272	11,753 12,233 12,752 12,859 12,980	3,560 3,695 3,860 4,053 4,292
Fall 2005 Fall 2006 Fall 2007 Fall 2007 Fall 2008 Fall 2009	72,674 73,061 73,459 74,055 75,163	55,187 55,307 55,201 54,973 54,849	49,113 49,316 49,291 49,266 49,361	34,204 34,235 34,204 34,286 34,409	14,909 15,081 15,086 14,980 14,952	6,073 5,991 <sup>3</sup> 5,910 5,707 <sup>3</sup> 5,488	4,724 4,631 <sup>3</sup> 4,546 4,365 <sup>3</sup> 4,179	$\begin{array}{c} 1,349\\ 1,360^{3}\\ 1,364\\ 1,342^{3}\\ 1,309\end{array}$	17,487 17,754 18,258 19,082 20,314	13,022 13,175 13,501 13,971 14,811	4,466 4,579 4,757 5,111 5,503
Fall 2010 Fall 2011 Fall 2012 Fall 2013 Fall 2014	75,886 75,800 75,748 75,817 76,097	54,867 54,790 55,104 55,440 55,888	49,484 49,522 49,771 50,045 50,313	34,625 34,773 35,018 35,251 35,370	14,860 14,749 14,753 14,794 14,943	5,382 <sup>3</sup> 5,268 5,333 <sup>3</sup> 5,396 5,575 <sup>3</sup>	4,084 <sup>3</sup> 3,977 4,031 <sup>3</sup> 4,084 4,202 <sup>3</sup>	$\begin{array}{c} 1,299^{3} \\ 1,291 \\ 1,302^{3} \\ 1,312 \\ 1,373^{3} \end{array}$	21,019 21,011 20,644 20,377 20,209	15,142 15,116 14,885 14,747 14,655	5,877 5,894 5,760 5,630 5,554
Fall 2015 Fall 2016 Fall 2017 <sup>6</sup> Fall 2018 <sup>6</sup> Fall 2019 <sup>6</sup>	76,177 <sup>4</sup> 76,238 <sup>5</sup> 76,242 76,346 76,476	56,189⁴ 56,391⁵ 56,477 56,518 56,572	50,438⁴ 50,615⁵ 50,695 50,728 50,770	$35,388^4$ $35,477^5$ 35,473 35,465 35,457	15,050 15,138 15,222 15,264 15,313	5,751 5,776 5,781 5,789 5,802	4,304 4,301 <sup>6</sup> 4,300 4,297 4,308	1,446 1,474 <sup>6</sup> 1,481 1,492 1,494	19,988 19,847 19,766 19,828 19,904	14,573 14,586 14,560 14,608 14,665	5,415 5,261 5,205 5,220 5,239
Fall 2020 <sup>6</sup> Fall 2021 <sup>6</sup> Fall 2022 <sup>6</sup> Fall 2022 <sup>6</sup> Fall 2023 <sup>6</sup> Fall 2024 <sup>6</sup>	76,606 76,675 76,856 77,013 77,126	56,678 56,719 56,865 56,973 57,019	50,857 50,892 51,012 51,098 51,124	35,384 35,231 35,189 35,235 35,376	15,473 15,661 15,823 15,863 15,748	5,821 5,827 5,853 5,875 5,894	4,316 4,310 4,337 4,356 4,374	1,505 1,517 1,515 1,520 1,521	19,928 19,956 19,991 20,040 20,107	14,685 14,708 14,736 14,774 14,824	5,243 5,248 5,255 5,266 5,283
Fall 2025 <sup>6</sup> Fall 2026 <sup>6</sup> Fall 2027 <sup>6</sup> Fall 2028 <sup>6</sup>	77,206 77,308 77,471 77,693	57,029 57,050 57,176 57,387	51,119 51,123 51,228 51,419	35,519 35,703 35,894 36,073	15,601 15,420 15,334 15,346	5,910 5,927 5,948 5,969	4,392 4,413 4,434 4,454	1,518 1,514 1,514 1,515	20,177 20,258 20,295 20,305	14,876 14,936 14,965 14,975	5,301 5,321 5,329 5,330

-Not available

<sup>1</sup>Beginning in fall 1985, data include estimates for an expanded universe of private schools. Therefore, direct comparisons with earlier years should be avoided.

<sup>2</sup>Data for 1869–70 through 1949–50 include resident degree-credit students enrolled at any time during the academic year. Beginning in 1959, data include all resident and extension students enrolled at the beginning of the fall term.

<sup>a</sup>Estimated. <sup>4</sup>Includes imputations for public school prekindergarten enrollment in California and Oregon. <sup>9</sup>Includes imputations for public school prekindergarten enrollment in California.

<sup>6</sup>Includes imputations for public school prekindergarten enrollment in California. <sup>6</sup>Projected data. Fall 2017 data for degree-granting institutions are actual. NOTE: Data for 1869-70 through 1949-50 reflect enrollment for the entire school year. Elementary and secondary enrollment includes students in local public school systems and in most private schools (religiously affiliated and nonsectarian), but generally excludes homeschooled children and students in subcollegiate departments of colleges and in federal schools. Excludes preprimary students in private schools that do not offer higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Annual Report of the Commissioner of Education, 1870 to 1910; Biennial Survey of Education in the United States, 1919–20 through 1949–50; Statistics of Nonpublic Elementary and Secondary School Systems, 1959 through 1980; 1985–86 Private School Survey; Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary and Secondary School Systems, 1959 through 1980; 1985–86 Private School Survey; Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary and Secondary School Systems, 1959 through 1980; 1985–86 Private School Survey; Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary and Secondary Education," 1985–86 through 2016–17; Private School Universe Survey (PSS), 1991–92 through 2015–16; National Elementary and Secondary Enrollment Projection Model, 1972 through 2028; Opening (Fall) Enrollment in Higher Education, 1959; Higher Education General Information Survey (HEGIS), "Fall Enrollment in Institutions of Higher Education" surveys, 1969 and 1985; Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment Survey" (IPEDS-EF:90–99); IPEDS Spring 2001 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This table was prepared March 2019.)

#### Table 2. Enrollment in public elementary and secondary schools, by level and grade: Selected years, fall 1980 through fall 2028

[In thousands]

							Eleme	entary								Secor	ndary		
Year	All grades	Total	Pre- kinder- garten	Kinder- garten	1st grade	2nd grade	3rd grade	4th grade	5th grade	6th grade	7th grade	8th grade	Un- graded	Total	9th grade	10th grade	11th grade	12th grade	Un- graded <sup>1</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1980	40,877	27,647	96	2,593	2,894	2,800	2,893	3,107	3,130	3,038	3,085	3,086	924	13,231	3,377	3,368	3,195	2,925	366
1985	39,422	27,034	151	3,041	3,239	2,941	2,895	2,771	2,776	2,789	2,938	2,982	511	12,388	3,439	3,230	2,866	2,550	303
1990	41,217	29,876	303	3,306	3,499	3,327	3,297	3,248	3,197	3,110	3,067	2,979	541	11,341	3,169	2,896	2,612	2,381	284
1991	42,047	30,503	375	3,311	3,556	3,360	3,334	3,315	3,268	3,239	3,181	3,020	542	11,544	3,313	2,915	2,645	2,392	278
1992	42,823	31,086	505	3,313	3,542	3,431	3,361	3,342	3,325	3,303	3,299	3,129	536	11,737	3,352	3,027	2,656	2,431	272
1993 1994 1995 1996 1997	43,465 44,111 44,840 45,611 46,127	31,502 31,896 32,338 32,762 33,071	545 603 637 670 695	3,377 3,444 3,536 3,532 3,503	3,529 3,593 3,671 3,770 3,755	3,429 3,440 3,507 3,600 3,689	3,437 3,439 3,445 3,524 3,597	3,361 3,426 3,431 3,454 3,507	3,350 3,372 3,438 3,453 3,453 3,458	3,356 3,381 3,395 3,494 3,492	3,355 3,404 3,422 3,464 3,520	3,249 3,302 3,356 3,403 3,415	513 492 500 399 440	11,963 12,215 12,502 12,849 13,056	3,487 3,604 3,704 3,801 3,819	3,050 3,131 3,237 3,323 3,376	2,751 2,748 2,826 2,930 2,972	2,424 2,488 2,487 2,586 2,673	250 244 247 208 216
1998	46,539	33,344	729	3,443	3,727	3,681	3,696	3,592	3,520	3,497	3,530	3,480	449	13,195	3,856	3,382	3,021	2,722	214
1999	46,857	33,486	751	3,397	3,684	3,656	3,691	3,686	3,604	3,564	3,541	3,497	415	13,371	3,935	3,415	3,034	2,782	205
2000	47,204	33,686	776	3,382	3,636	3,634	3,676	3,711	3,707	3,663	3,629	3,538	334	13,517	3,963	3,491	3,083	2,803	177
2001	47,672	33,936	865	3,379	3,614	3,593	3,653	3,695	3,727	3,769	3,720	3,616	304	13,736	4,012	3,528	3,174	2,863	159
2002	48,183	34,114	915	3,434	3,594	3,565	3,623	3,669	3,711	3,788	3,821	3,709	285	14,069	4,105	3,584	3,229	2,990	161
2003	48,540	34,201	950	3,503	3,613	3,544	3,611	3,619	3,685	3,772	3,841	3,809	255	14,339	4,190	3,675	3,277	3,046	150
2004	48,795	34,178	990	3,544	3,663	3,560	3,580	3,612	3,635	3,735	3,818	3,825	215	14,618	4,281	3,750	3,369	3,094	122
2005	49,113	34,204	1,036	3,619	3,691	3,606	3,586	3,578	3,633	3,670	3,777	3,802	205	14,909	4,287	3,866	3,454	3,180	121
2006	49,316	34,235	1,084	3,631	3,751	3,641	3,627	3,586	3,602	3,660	3,716	3,766	170	15,081	4,260	3,882	3,551	3,277	110
2007	49,291	34,204	1,081	3,609	3,750	3,704	3,659	3,624	3,600	3,628	3,700	3,709	139	15,086	4,200	3,863	3,557	3,375	92
2008	49,266	34,286	1,180	3,640	3,708	3,699	3,708	3,647	3,629	3,614	3,653	3,692	117	14,980	4,123	3,822	3,548	3,400	87
2009	49,361	34,409	1,223	3,678	3,729	3,665	3,707	3,701	3,652	3,644	3,641	3,651	119	14,952	4,080	3,809	3,541	3,432	90
2010	49,484	34,625	1,279	3,682	3,754	3,701	3,686	3,711	3,718	3,682	3,676	3,659	77	14,860	4,008	3,800	3,538	3,472	42
2011	49,522	34,773	1,291	3,746	3,773	3,713	3,703	3,672	3,699	3,724	3,696	3,679	77	14,749	3,957	3,751	3,546	3,452	43
2012	49,771	35,018	1,307	3,831	3,824	3,729	3,719	3,690	3,673	3,723	3,746	3,699	76	14,753	3,975	3,730	3,528	3,477	43
2013	50,045	35,251	1,328	3,834	3,885	3,791	3,738	3,708	3,697	3,684	3,748	3,753	85	14,794	3,980	3,761	3,526	3,476	52
2014	50,313	35,370	1,369	3,772	3,863	3,857	3,806	3,719	3,719	3,710	3,710	3,757	87	14,943	4,033	3,794	3,568	3,496	52
2015 <sup>2</sup>	50,438	35,388	1,402	3,713	3,768	3,842	3,869	3,793	3,733	3,731	3,732	3,719	87	15,050	4,019	3,846	3,598	3,537	49
2016 <sup>3</sup>	50,615	35,477	1,426	3,699	3,694	3,761	3,874	3,858	3,814	3,754	3,761	3,749	88	15,138	3,986	3,860	3,669	3,571	52
										Projected									
2017	50,695	35,473	1,415	3,670	3,709	3,686	3,784	3,864	3,870	3,831	3,782	3,775	88	15,222	4,019	3,828	3,682	3,642	52
2018	50,728	35,465	1,417	3,678	3,680	3,700	3,709	3,774	3,876	3,888	3,859	3,796	88	15,264	4,047	3,859	3,652	3,655	52
2019	50,770	35,457	1,425	3,697	3,684	3,672	3,724	3,699	3,786	3,893	3,916	3,874	88	15,313	4,069	3,886	3,681	3,625	51
2020	50,857	35,384	1,430	3,712	3,704	3,676	3,695	3,714	3,710	3,803	3,922	3,931	88	15,473	4,153	3,907	3,707	3,654	51
2021	50,892	35,231	1,426	3,700	3,718	3,696	3,699	3,685	3,725	3,727	3,831	3,937	87	15,661	4,214	3,988	3,728	3,680	52
2022	51,012	35,189	1,457	3,782	3,706	3,710	3,719	3,689	3,696	3,742	3,755	3,846	87	15,823	4,220	4,047	3,804	3,700	52
2023	51,098	35,235	1,465	3,802	3,788	3,698	3,733	3,709	3,700	3,713	3,770	3,769	88	15,863	4,122	4,052	3,860	3,776	52
2024	51,124	35,376	1,473	3,821	3,809	3,780	3,721	3,723	3,720	3,717	3,740	3,784	88	15,748	4,040	3,958	3,866	3,832	52
2025	51,119	35,519	1,479	3,837	3,828	3,800	3,804	3,712	3,735	3,737	3,745	3,754	88	15,601	4,056	3,879	3,776	3,837	52
2026	51,123	35,703	1,484	3,851	3,844	3,819	3,824	3,794	3,723	3,752	3,765	3,759	89	15,420	4,025	3,895	3,701	3,748	51
2027	51,228	35,894	1,488	3,862	3,858	3,836	3,843	3,814	3,805	3,740	3,779	3,779	89	15,334	4,029	3,865	3,716	3,674	51
2028	51,419	36,073	1,492	3,871	3,869	3,850	3,860	3,833	3,826	3,823	3,767	3,794	90	15,346	4,051	3,869	3,687	3,688	51

<sup>1</sup>Includes students reported as being enrolled in grade 13. <sup>2</sup>The prekindergarten, elementary total, and "all grades" counts include imputations for prekindergarten enrollment in California and Oregon. <sup>3</sup>The prekindergarten, elementary total, and "all grades" counts include imputations for prekindergarten enrollment in California. NOTE: Due to changes in reporting and imputation practices, prekindergarten enrollment for verse price to 1992 represent an undercount compared to later years. The total ungraded

years prior to 1992 represent an undercount compared to later years. The total ungraded

counts of students were prorated to the elementary and secondary levels based on prior reports. Detail may not sum to totals because of rounding. SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of Public Elementary and Secondary School Systems*, 1980–81; Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Encludention," 1985–86 through 2016–17; and National Elementary and Secondary Enrollment Projection Model, 1072 thready 2010, ("Dist to the way programed March 2010). 1972 through 2028. (This table was prepared March 2019.)

#### Table 3. Enrollment in public elementary and secondary schools, by region, state, and jurisdiction: Selected years, fall 1990 through fall 2028

	Actual total enrollment     change in total enroll- ment,     Projected total enrollment     dot													Percent change in total enroll-							
Region, state, and jurisdiction	Fall 1990	Fall 2000	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015 <sup>1</sup>	Fall 2016 <sup>2</sup>		Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021	Fall 2028	ment, 2016 to 2028
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
United States	41,216,683	47,203,539	49,315,842	49,290,559	49,265,572	49,360,982	49,484,181	49,521,669	49,771,118	50,044,522	50,312,581	50,438,043	50,615,189	2.2	50,695,200	50,728,400	50,770,000	50,857,100	50,891,900	51,418,700	1.6
Region Northeast Midwest South West	7,281,763 9,943,761 14,807,016 9,184,143	10,729,987	8,257,889 10,819,248 18,293,633 11,945,072	10,770,210 18,422,773	10,742,973	8,092,029 10,672,171 18,651,889 11,944,893	8,071,335 10,609,604 18,805,000 11,998,242	7,953,981 10,573,792 18,955,932 12,037,964		7,961,243 10,572,920 19,298,714 12,211,645	10,560,539 19,506,193	7,933,762 10,555,579 19,641,472 12,307,230	7,959,304 10,538,947 19,749,816 12,367,122	0.1 -0.3 4.2 2.7	7,928,200 10,514,400 19,845,300 12,407,400	7,896,100 10,485,600 19,914,100 12,432,600	7,870,000 10,457,400 19,987,400 12,455,300	10,443,900	7,823,000 10,417,300 20,166,800 12,484,700	10,316,100 20,815,500	-3.7 -2.1 5.4 2.1
State Alabama Alaska Arizona Arkansas California	721,806 113,903 639,853 436,286 4,950,474	133,356 877,696 449,959	743,632 132,608 1,068,249 476,409 6,406,750	742,919 131,029 1,087,447 479,016 6,343,471	130,662 1,087,817	748,889 131,661 1,077,831 480,559 6,263,438	755,552 132,104 1,071,751 482,114 6,289,578	744,621 131,167 1,080,319 483,114 6,287,834	486,157	746,204 130,944 1,102,445 489,979 6,312,623	744,164 131,176 1,111,695 490,917 6,312,161	743,789 132,477 1,109,040 492,132 6,305,347	744,930 132,737 1,123,137 493,447 6,309,138	# 1.2 4.0 2.1 0.3	739,400 133,700 1,127,400 493,700 6,307,600	734,200 134,300 1,131,700 494,000 6,293,000	732,200 135,100 1,135,000 494,600 6,277,900	495,200	732,700 137,400 1,143,300 496,400 6,232,500	740,900 144,400 1,172,900 510,700 6,137,800	-0.5 8.8 4.4 3.5 -2.7
Colorado Connecticut Delaware District of Columbia . Florida	574,213 469,123 99,658 80,694 1,861,592	114,676 68,925	794,026 575,100 122,254 72,850 2,671,513	801,867 570,626 122,574 78,422 2,666,811	818,443 567,198 125,430 68,681 2,631,020	832,368 563,968 126,801 69,433 2,634,522	843,316 560,546 129,403 71,284 2,643,347	854,265 554,437 128,946 73,911 2,668,156	76,140	876,999 546,200 131,687 78,153 2,720,744	889,006 542,678 134,042 80,958 2,756,944	899,112 537,933 134,847 84,024 2,792,234	905,019 535,118 136,264 85,850 2,816,791	5.9 -3.5 5.7 16.2 5.6	909,900 528,100 137,400 86,400 2,842,300	913,500 521,400 138,300 89,100 2,863,200	916,600 514,600 139,100 91,900 2,883,600	919,500 508,800 139,800 94,500 2,911,400	920,600 501,700 140,300 97,000 2,938,000	948,400 471,100 141,000 105,300 3,119,600	4.8 -12.0 3.5 22.6 10.8
Georgia Hawaii Idaho Illinois Indiana	1,151,687 171,708 220,840 1,821,407 954,525	245,117 2,048,792	1,629,157 180,728 267,380 2,118,276 1,045,940	1,649,589 179,897 272,119 2,112,805 1,046,764	179,478 275,051 2,119,707	1,667,685 180,196 276,299 2,104,175 1,046,661	1,677,067 179,601 275,859 2,091,654 1,047,232	1,685,016 182,706 279,873 2,083,097 1,040,765	184,760 284,834 2,072,880	1,723,909 186,825 296,476 2,066,990 1,047,385	1,744,437 182,384 290,885 2,050,239 1,046,269	1,757,237 181,995 292,277 2,041,779 1,046,757	1,764,346 181,550 297,200 2,026,718 1,049,547	4.7 -0.6 6.2 -2.7 0.8	1,769,500 181,600 299,700 2,023,500 1,048,000	1,772,800 180,700 302,500 2,015,100 1,046,500	1,776,000 180,300 304,900 2,006,500 1,042,900		1,785,900 178,700 309,800 1,988,300 1,042,900	1,814,200 171,800 324,300 1,894,300 1,057,300	2.8 -5.4 9.1 -6.5 0.7
lowa Kansas Kentucky Louisiana Maine	483,652 437,034 636,401 784,757 215,149	470,610 665,850 743,089	483,122 469,506 683,152 675,851 193,986	485,115 468,295 666,225 681,038 196,245	487,559 471,060 670,030 684,873 192,935	491,842 474,489 680,089 690,915 189,225	495,775 483,701 673,128 696,558 189,077	495,870 486,108 681,987 703,390 188,969	499,825 489,043 685,167 710,903 185,739	502,964 496,440 677,389 711,491 183,995	505,311 497,275 688,640 716,800 182,470	508,014 495,884 686,598 718,711 181,613	509,831 494,347 684,017 716,293 180,512	2.8 1.7 0.3 1.8 -4.5	511,700 494,100 682,400 715,900 179,100	514,000 493,500 680,000 713,100 177,900	516,700 493,000 678,100 711,200 176,700	711,300	521,500 491,800 676,200 711,700 175,100	535,400 490,600 682,200 718,400 171,600	5.0 -0.8 -0.3 0.3 -5.0
Maryland Massachusetts Michigan Minnesota Mississippi	715,176 834,314 1,584,431 756,374 502,417	975,150	851,640 968,661 1,722,656 840,565 495,026	845,700 962,958 1,692,739 837,578 494,122	843,861 958,910 1,659,921 836,048 491,962	848,412 957,053 1,649,082 837,053 492,481	852,211 955,563 1,587,067 838,037 490,526	854,086 953,369 1,573,537 839,738 490,619	859,638 954,773 1,555,370 845,404 493,650	866,169 955,739 1,548,841 850,973 492,586	874,514 955,844 1,537,922 857,235 490,917	879,601 964,026 1,536,231 864,384 487,200	886,221 964,514 1,528,666 875,021 483,150	3.8 1.2 -2.9 4.2 -1.5	893,500 963,300 1,511,400 885,000 478,600	898,900 961,000 1,493,500 891,100 473,400	904,700 958,200 1,478,300 896,300 469,000	909,000 955,500 1,465,100 902,900 465,400	911,900 952,000 1,451,500 907,100 462,400	914,100 939,400 1,400,700 924,000 441,600	3.1 -2.6 -8.4 5.6 -8.6
Missouri Montana Nebraska Nevada New Hampshire	816,558 152,974 274,081 201,316 172,785	286,199 340,706	920,353 144,418 287,580 424,766 203,572	917,188 142,823 291,244 429,362 200,772	917,871 141,899 292,590 433,371 197,934	917,982 141,807 295,368 428,947 197,140	918,710 141,693 298,500 437,149 194,711	916,584 142,349 301,296 439,634 191,900	917,900 142,908 303,505 445,707 188,974	918,288 144,129 307,677 451,831 186,310	917,785 144,532 312,635 459,189 184,670	919,234 145,319 316,014 467,527 182,425	915,040 146,375 319,194 473,744 180,888	-0.2 2.8 5.9 7.8 -5.7	914,300 147,400 323,300 479,300 178,600	912,600 149,000 326,100 485,400 176,300	911,300 150,400 328,800 490,900 174,200	331,100 496,000	910,700 152,900 332,700 501,000 170,000	915,100 160,600 344,900 527,800 161,000	# 9.7 8.1 11.4 -11.0
New Jersey New Mexico New York North Carolina North Dakota	1,089,646 301,881 2,598,337 1,086,871 117,825	1,313,405 320,306 2,882,188 1,293,638 109,201	1,388,850 328,220 2,809,649 1,444,481 96,670	1,382,348 329,040 2,765,435 1,489,492 95,059	330,245 2,740,592 1,488,645	1,396,029 334,419 2,766,052 1,483,397 95,073	1,402,548 338,122 2,734,955 1,490,605 96,323	1,356,431 337,225 2,704,718 1,507,864 97,646	1,372,203 338,220 2,710,703 1,518,465 101,111	1,370,295 339,244 2,732,770 1,530,857 103,947	1,400,579 340,365 2,741,185 1,548,895 106,586	1,408,845 335,694 2,711,626 1,544,934 108,644	1,410,421 336,263 2,729,776 1,550,062 109,706	4.0 -0.3 0.9 2.8 12.4	1,405,600 334,900 2,723,500 1,554,200 108,700	1,400,900 332,500 2,715,500 1,554,500 110,700	1,397,100 330,100 2,710,400 1,555,100 112,600	327,200	1,388,200 324,500 2,703,300 1,563,300 116,400	1,356,200 306,100 2,649,700 1,612,600 127,400	-3.8 -9.0 -2.9 4.0 16.1
Ohio Oklahoma Oregon Pennsylvania Rhode Island	1,771,089 579,087 472,394 1,667,834 138,813	623,110 546,231 1,814,311	1,836,722 639,391 562,574 1,871,060 151,612	1,827,184 642,065 565,586 1,801,971 147,629	645,108 575,393 1,775,029	1,764,297 654,802 582,839 1,785,993 145,118	1,754,191 659,911 570,720 1,793,284 143,793	1,740,030 666,120 568,208 1,771,395 142,854	673,483 587,564 1,763,677	1,724,111 681,848 593,000 1,755,236 142,008	1,724,810 688,511 601,318 1,743,160 141,959	1,716,585 692,878 608,825 1,717,414 142,014	1,710,143 693,903 606,277 1,727,497 142,150	-1.7 4.2 6.7 -2.5 -0.5	1,695,900 697,000 609,800 1,721,000 142,200	1,686,500 698,400 613,600 1,715,200 142,100	1,676,400 700,100 617,600 1,712,300 141,300	622,600 1,712,000	1,661,500 703,400 626,500 1,709,400 139,500	1,637,400 721,600 650,600 1,698,600 135,700	-4.3 4.0 7.3 -1.7 -4.5

#### 🙄 Table 3. Enrollment in public elementary and secondary schools, by region, state, and jurisdiction: Selected years, fall 1990 through fall 2028—Continued

						Actua	ıl total enroll	nent						Percent change in total enroll-		I	Projected tot	al enrollmen	t		Percent change in total enroll-
Region, state, and jurisdiction	Fall 1990	Fall 2000	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015 <sup>1</sup>	Fall 2016 <sup>2</sup>	ment, 2011 to 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021	Fall 2028	ment, 2016 to 2028
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
South Carolina South Dakota Tennessee Texas Utah	622,112 129,164 824,595 3,382,887 446,652	677,411 128,603 909,161 4,059,619 481,485	708,021 121,158 978,368 4,599,509 523,386	712,317 121,606 964,259 4,674,832 576,244	718,113 126,429 971,950 4,752,148 559,778	723,143 123,713 972,549 4,850,210 571,586	725,838 126,128 987,422 4,935,715 585,552	727,186 128,016 999,693 5,000,470 598,832	735,998 130,471 993,496 5,077,659 613,279	745,657 130,890 993,556 5,153,702 625,461	756,523 133,040 995,475 5,233,765 635,577	763,533 134,253 1,001,235 5,301,477 647,870	771,250 136,302 1,001,562 5,360,849 659,801	6.1 6.5 0.2 7.2 10.2	776,700 137,600 1,002,200 5,414,700 667,400	781,600 139,100 1,001,300 5,462,600 674,600	786,900 140,800 1,002,000 5,506,400 681,600	792,700 142,400 1,004,700 5,549,800 688,000	798,300 143,900 1,007,600 5,587,800 693,000	822,000 151,000 1,044,400 5,861,300 732,400	6.6 10.8 4.3 9.3 11.0
Vermont Virginia Washington West Virginia Wisconsin Wyoming	95,762 998,601 839,709 322,389 797,621 98,226	102,049 1,144,915 1,004,770 286,367 879,476 89,940	95,399 1,220,440 1,026,774 281,939 876,700 85,193	94,038 1,230,857 1,030,247 282,535 874,633 86,422	93,625 1,235,795 1,037,018 282,729 873,750 87,161	91,451 1,245,340 1,035,347 282,662 872,436 88,155	96,858 1,251,440 1,043,788 282,879 872,286 89,009	89,908 1,257,883 1,045,453 282,870 871,105 90,099	89,624 1,265,419 1,051,694 283,044 872,436 91,533	88,690 1,273,825 1,058,936 280,958 874,414 92,732	87,311 1,280,381 1,073,638 280,310 871,432 94,067	87,866 1,283,590 1,087,030 277,452 867,800 94,717	88,428 1,287,026 1,101,711 273,855 864,432 94,170	-1.6 2.3 5.4 -3.2 -0.8 4.5	86,700 1,290,400 1,115,200 271,000 860,700 93,700	85,900 1,291,200 1,128,400 267,500 856,900 93,500	85,100 1,292,100 1,141,700 264,500 853,700 93,300	84,500 1,293,600 1,157,300 261,500 851,800 93,200	83,800 1,295,100 1,171,600 258,900 848,900 92,900	80,400 1,316,200 1,253,600 249,500 837,900 92,800	-9.0 2.3 13.8 -8.9 -3.1 -1.4
Jurisdiction Bureau of Indian Education DODEA <sup>3</sup> Other jurisdictions American Samoa Guam Northern Marianas Puerto Rico U.S. Viroin Islands		46,938 107,755 15,702 32,473 10,004 612,725 19,459			40,927 84,781 	41,351 — — 10,961 493,393 15,493	41,962 				 31,144 410,950 14,241		45,399 — 30,758 365,181 13,194		     						

-Not available.

#Rounds to zero.

<sup>1</sup>Includes imputations for prekindergarten enrollment in California and Oregon.

<sup>2</sup>Includes imputations for prekindergarten enrollment in California.

<sup>3</sup>DoDEA = Department of Defense Education Activity. Includes both domestic and overseas schools.

NOTE: Detail may not sum to totals because of rounding. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 1909–91 through 2016–17; and State Public Elementary and Secondary Enrollment Projection Model, 1980 through 2028. (This table was prepared March 2019.)

#### Table 4. Public school enrollment in prekindergarten through grade 8, by region, state, and jurisdiction: Selected years, fall 1990 through fall 2028

						Actua	l total enrolli	nent						Percent change in total enroll- ment.			Projected tot	al enrollmen	t		Percent change in total enroll- ment.
Region, state, and jurisdiction	Fall 1990	Fall 2000	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015 <sup>1</sup>	2010 to 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2027	2015 to
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
United States	29,875,914	33,686,421	34,203,962	34,234,751	34,204,081	34,285,564	34,409,260	34,624,530	34,772,751	35,017,893	35,250,792	35,369,694	35,387,986	2.2	35,503,500	35,551,300	35,605,600	35,682,600	35,716,900	36,667,800	3.6
Region Northeast Midwest South West	5,188,795 7,129,501 10,858,800 6,698,818	5,839,970 7,523,246 12,314,176 8,009,029	7,425,308 12,881,836	5,573,729 7,404,578 12,989,696 8,266,748	5,504,400 7,359,028 13,085,045 8,255,608	7,373,391 13,166,980	5,494,080 7,361,959 13,300,643 8,252,578		5,479,174 7,358,792 13,578,211 8,356,574	5,493,308 7,368,484 13,711,284 8,444,817	5,502,015 7,394,141 13,830,129 8,524,507	5,519,184 7,374,598 13,917,451 8,558,461	5,486,906 7,361,263 13,951,194 8,588,623	-1.0 0.2 3.8 3.5	5,471,800 7,350,300 14,072,100 8,609,400	5,443,300 7,326,500 14,173,700 8,607,800	7,300,800 14,284,300	5,398,700 7,288,500 14,397,800 8,597,600	5,378,500 7,268,000 14,493,200 8,577,200		-0.8 9.1
State Alabama Alaska Arizona Arkansas California	527,097 85,297 479,046 313,505 3,613,734	538,634 94,442 640,564 318,023 4,407,035	529,347 91,225 739,535 335,746 4,465,615	528,664 90,167 759,656 336,552 4,410,105	525,978 88,980 771,056 339,920 4,328,968	528,078 89,263 771,749 341,603 4,306,258	529,394 90,824 760,420 344,209 4,264,022	533,612 91,990 751,992 345,808 4,293,968	527,006 92,057 759,494 346,022 4,308,447	527,434 93,069 767,734 347,631 4,331,807	527,499 92,714 775,280 349,709 4,357,989	523,096 92,745 780,123 349,174 4,360,241	521,607 93,789 775,446 349,817 4,361,930	-2.2 2.0 3.1 1.2 1.6	521,300 95,500 782,600 349,700 4,340,700	522,100 96,800 788,800 349,700 4,302,700	523,400 98,000 794,900 350,100 4,262,200	524,900 99,300 800,100 351,300 4,219,700	526,700 100,200 803,700 353,000 4,169,300	537,700 106,100 846,900 364,500 4,160,600	13.1 9.2 4.2
Colorado Connecticut Delaware District of	419,910 347,396 72,606	516,566 406,445 80,801	549,875 399,705 84,639	559,041 398,063 84,996	565,726 394,034 85,019	580,304 392,218 86,811	591,378 389,964 87,710	601,077 387,475 90,279	610,854 383,377 90,624	617,510 380,709 91,004	627,619 377,162 93,204	634,363 374,888 94,696	638,203 370,877 95,002	6.2 -4.3 5.2	642,000 366,400 96,100	643,800 360,100 96,900	646,300 354,700 97,600	649,400 349,700 98,100	652,200 345,400 98,300	693,600 330,400 99,500	-10.9
Columbia Florida	61,282 1,369,934	53,692 1,759,902	55,646 1,873,395	52,391 1,866,562	55,836 1,855,859	50,779 1,849,295	51,656 1,850,901	53,548 1,858,498	56,195 1,876,102	58,273 1,892,560	60,379 1,913,710	62,997 1,933,695	64,955 1,952,461	21.3 5.1	66,600 1,986,300	69,400 2,018,000	72,100 2,049,400	74,500 2,080,700	76,500 2,101,900	81,400 2,279,600	
Georgia Hawaii Idaho Illinois Indiana	849,082 122,840 160,091 1,309,516 675,804	1,059,983 132,293 170,421 1,473,933 703,261	1,145,446 127,472 182,829 1,480,320 724,467	1,166,508 126,008 187,005 1,477,679 730,108	1,178,577 125,556 191,171 1,472,909 729,550	1,185,684 125,910 193,554 1,479,195 730,021	1,194,751 127,477 194,728 1,463,713 730,599	1,202,479 127,525 194,144 1,454,793 729,414	1,211,250 131,005 198,064 1,453,156 724,605	1,222,289 133,590 202,203 1,448,201 725,040	1,233,877 135,925 209,333 1,445,459 731,035	1,242,832 131,307 205,460 1,428,964 729,804	1,243,372 131,593 205,857 1,422,487 725,444	3.4 3.2 6.0 -2.2 -0.5	1,250,000 132,700 206,500 1,418,100 723,600	1,256,900 133,300 207,200 1,406,300 723,100	1,263,500 133,700 207,700 1,393,400 721,600	1,269,800 133,900 207,800 1,380,300 722,400	1,274,200 134,200 208,300 1,364,900 721,900	1,311,200 137,200 217,700 1,308,300 742,600	4.3 5.8 -8.0
lowa Kansas Kentucky Louisiana Maine	344,804 319,648 459,200 586,202 155,203	333,750 323,157 471,429 546,579 145,701	326,160 320,513 487,429 482,082 133,491	326,218 326,201 487,165 492,116 132,338	329,504 326,771 469,373 499,549 130,742	335,566 331,079 472,204 504,213 129,324	341,333 332,997 484,466 509,883 128,646	348,112 342,927 480,334 512,266 128,929	350,152 347,129 488,456 518,802 130,046	355,041 349,695 491,065 524,792 127,924	357,953 355,929 485,001 523,310 127,071	359,449 355,305 491,766 522,009 126,109	361,206 352,910 487,634 520,134 125,340	3.8 2.9 1.5 1.5 -2.8	362,700 353,200 488,700 522,400 124,400	363,800 352,400 488,400 523,400 123,400	365,600 351,800 488,600 523,600 122,400	367,500 351,500 489,200 523,500 121,400	368,900 350,800 489,500 525,600 120,700	382,800 354,200 507,100 539,200 120,100	0.4 4.0 3.7
Maryland Massachusetts Michigan Minnesota Mississippi	526,744 604,234 1,144,878 545,556 371,641	609,043 702,575 1,222,482 577,766 363,873	588,571 675,398 1,191,397 557,757 358,030	579,065 670,628 1,170,558 558,445 356,382	576,479 666,926 1,136,823 558,180 353,512	576,473 666,538 1,118,569 560,184 351,807	581,785 666,551 1,114,611 564,661 351,652	588,156 666,402 1,075,584 569,963 350,885	594,216 666,314 1,070,873 575,544 352,999	602,802 667,267 1,061,930 583,363 356,364	612,580 668,261 1,060,065 589,564 356,432	620,442 666,910 1,051,722 594,161 352,884	626,505 669,129 1,052,418 598,675 348,569	6.5 0.4 -2.2 5.0 -0.7	633,100 667,200 1,040,600 605,500 346,300	637,700 663,600 1,029,000 609,000 344,400	641,800 660,000 1,017,100 611,200 342,300	645,800 657,900 1,008,700 614,200 340,700	648,400 656,100 1,000,100 616,000 339,600	651,900 654,600 990,200 629,800 328,200	-2.2 -5.9 5.2
Missouri Montana Nebraska Nevada New Hampshire .	588,070 111,169 198,080 149,881 126,301	644,766 105,226 195,486 250,720 147,121	635,142 97,770 195,055 295,989 138,584	634,275 97,021 195,769 302,953 136,188	631,746 96,354 200,095 307,573 134,359	635,411 96,869 202,912 308,328 132,995	638,082 97,868 206,860 305,512 132,768	642,991 98,491 210,292 307,297 131,576	645,376 99,725 213,504 309,360 129,632	647,530 100,819 215,432 313,730 128,169	649,061 101,991 219,122 319,240 126,933	648,864 102,716 222,671 324,518 125,845	649,885 103,497 224,364 330,593 124,305	1.1 5.1 6.7 7.6 -5.5	650,800 104,400 225,500 334,500 122,800	650,200 105,400 226,200 339,800 121,300	649,900 106,300 226,800 345,300 119,600	650,100 107,300 228,100 349,800 118,400	650,000 107,900 229,100 353,200 117,100	664,500 114,100 238,900 372,400 113,600	10.3 6.5 12.7
New Jersey New Mexico New York North Carolina North Dakota	783,422 208,087 1,827,418 783,132 84,943	967,533 224,879 2,028,906 945,470 72,421	970,592 229,552 1,909,028 1,003,118 65,638	963,418 230,091 1,887,284 1,027,067 64,395	954,418 229,718 1,856,315 1,072,324 63,492	956,765 231,415 1,843,080 1,058,926 63,955	968,332 235,343 1,847,003 1,053,801 64,576	981,255 239,345 1,869,150 1,058,409 66,035	947,576 239,481 1,857,574 1,074,063 67,888	956,070 240,978 1,868,561 1,080,090 70,995	956,379 241,528 1,884,845 1,089,594 73,527	982,202 241,105 1,889,428 1,092,368 76,165	989,332 238,896 1,870,048 1,080,536 77,969	0.8 -0.2 # 2.1 18.1	987,500 238,400 1,873,000 1,087,600 78,500	982,400 237,200 1,871,000 1,091,000 80,400	976,700 235,700 1,870,500 1,103,300 82,200	973,400 234,200 1,869,800 1,109,600 84,200	969,200 232,600 1,866,600 1,113,900 85,900	955,300 226,400 1,842,200 1,155,200 98,000	-5.2 -1.5 6.9

#### 😳 Table 4. Public school enrollment in prekindergarten through grade 8, by region, state, and jurisdiction: Selected years, fall 1990 through fall 2028—Continued

		Actual total enrollment												Percent change in total			Projected tot	al enrollment			Percent change in total
Region, state, and jurisdiction	Fall 1990	Fall 2000	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015 <sup>1</sup>	enroll- ment, 2010 to 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2027	enroll- ment, 2015 to 2027
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Ohio Oklahoma Oregon Pennsylvania Rhode Island	1,257,580 424,899 340,243 1,172,164 101,797	1,293,646 445,402 379,264 1,257,824 113,545	1,261,331 456,954 379,680 1,227,625 103,870	1,253,193 459,944 380,576 1,220,074 101,996	1,241,322 462,629 383,598 1,205,351 99,159	1,239,494 467,960 395,421 1,194,327 97,983	1,225,346 476,962 404,451 1,200,446 98,184	1,222,808 483,464 392,601 1,209,766 97,734	1,217,226 490,196 391,310 1,204,850 97,659	1,211,299 496,144 409,325 1,204,732 97,809	1,208,500 501,504 414,405 1,201,169 98,738	1,204,872 503,846 421,561 1,193,762 99,067	1,194,990 505,311 427,227 1,176,868 99,143	-2.3 4.5 8.8 -2.7 1.4	1,190,600 509,200 431,300 1,171,300 98,500	1,185,700 511,700 435,300 1,163,800 97,700	1,182,000 514,800 439,400 1,156,800 96,700	1,182,500 520,600 444,400 1,153,400 96,000	1,181,100 524,400 448,500 1,149,900 95,300	1,185,600 549,100 472,600 1,158,200 94,300	-0.8 8.7 10.6 -1.6 -4.8
South Carolina South Dakota Tennessee Texas Utah	452,033 95,165 598,111 2,510,955 324,982	493,226 87,838 668,123 2,943,047 333,104	498,030 83,530 676,576 3,268,339 357,644	501,273 83,137 691,971 3,319,782 371,272	504,566 83,424 681,751 3,374,684 410,258	507,602 87,477 684,549 3,446,511 404,469	512,124 85,745 686,668 3,520,348 413,343	515,581 87,936 701,707 3,586,609 424,979	519,389 90,529 712,749 3,636,852 434,536	527,350 93,204 711,525 3,690,146 444,202	533,822 94,251 709,668 3,742,266 451,332	539,800 95,739 707,067 3,783,324 456,667	542,753 97,011 709,394 3,809,025 463,567	5.3 10.3 1.1 6.2 9.1	550,400 98,100 709,100 3,860,400 469,000	557,500 99,200 709,900 3,903,000 472,700	564,900 100,200 711,600 3,945,700 476,100	571,900 100,900 713,700 3,991,700 480,000	577,300 101,600 714,900 4,037,100 483,100	601,300 107,500 753,400 4,340,700 515,300	10.8 10.8 6.2 14.0 11.2
Vermont Virginia Washington West Virginia Wisconsin Wyoming	70,860 728,280 612,597 224,097 565,457 70,941	70,320 815,748 694,367 201,201 594,740 60,148	64,662 841,299 699,482 197,189 583,998 57,195	63,740 841,685 694,858 197,573 584,600 57,995	63,096 850,444 697,407 198,545 585,212 59,243	62,994 855,008 704,794 199,477 589,528 60,635	62,186 864,020 705,387 200,313 593,436 61,825	67,989 871,446 714,172 201,472 598,479 62,786	62,146 881,225 718,184 202,065 602,810 64,057	62,067 889,444 724,560 202,371 606,754 65,290	61,457 896,573 730,868 201,001 609,675 66,283	60,973 897,688 740,320 199,767 606,882 67,335	61,864 896,809 750,222 197,310 603,904 67,803	-9.0 2.9 5.0 -2.1 0.9 8.0	60,600 899,000 763,300 195,900 603,200 68,500	59,900 899,800 776,000 194,000 601,200 68,900	59,300 899,400 788,700 192,200 599,000 69,400	58,700 900,700 802,100 191,100 598,100 69,700	58,200 901,500 814,300 190,600 597,600 69,900	57,000 932,200 877,900 191,400 602,100 73,200	-7.9 3.9 17.0 -3.0 -0.3 8.0
Jurisdiction Bureau of Indian Education DoD, education activities Other jurisdictions American		35,746 89,996	36,133 74,249			30,612 69,186	31,381 —	31,985 —		_		_	61,355			_			_		
Samoa Guam Northern	9,390 19,276	11,895 23,698	11,766 21,946	11,763	-			21,561	21,223	21,166	23,301	21,112	20,765	-3.7	_	_		_	_	=	
Marianas Puerto Rico U.S. Virgin Islands	4,918 480,356 16,249	7,809 445,524 13,910	8,427 399,447 11,728	8,504 382,647 11,237	8,140 372,514 10,770	7,816 355,115 10,567	7,743 347,638 10,409	7,688 334,613 10,518	7,703 318,924 10,576	7,396 305,048 10,302	7,340 294,976 10,283	284,246 9,724	 261,667 9,503	-21.8 -9.7				-			

-Not available.

#Rounds to zero.

<sup>1</sup>Includes imputations for prekindergarten enrollment in California and Oregon.

NOTE: DoD = Department of Defense. The total ungraded counts of students were prorated to the elementary level (prekindergarten through grade 8) and the secondary level (grades 9 through 12) based on prior reports. Detail may not sum to totals because of rounding. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 1990–91 through 2015–16; and State Public Elementary and Secondary Enrollment Projection Model, 1980 through 2027. (This table was prepared January 2018.)

Reference Tables

#### Table 5. Public school enrollment in grades 9 through 12, by region, state, and jurisdiction: Selected years, fall 1990 through fall 2028

			1			Actua	al total enroll	ment						Percent change in total enroll-			Projected tot	al enrollmen	t		Percent change in total enroll-
Region, state, and jurisdiction	Fall 1990	Fall 2000	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015	ment, 2010 to 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2027	ment, 2015 to 2027
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
United States	11,340,769	13,517,118	14,909,336	15,081,091	15,086,478	14,980,008	14,951,722	14,859,651	14,748,918	14,753,225	14,793,730	14,942,887	15,050,057	1.3	15,076,000	15,097,400	15,095,200	15,120,000	15,254,200	15,391,300	2.3
Region Northeast Midwest South West	2,092,968 2,814,260 3,948,216 2,485,325	3,206,741 4,693,085	3,393,507 5,221,330	3,414,670	2,617,622 3,411,182 5,337,728 3,719,946	2,576,761 3,369,582 5,323,790 3,709,875	2,597,949 3,310,212 5,351,246 3,692,315	2,531,059 3,260,270 5,370,447 3,697,875	3,215,000 5,377,721	5,417,092	2,459,228 3,178,779 5,468,585 3,687,138	2,460,672 3,185,941 5,588,742 3,707,532	2,446,856 3,194,316 5,690,278 3,718,607	-3.3 -2.0 6.0 0.6	2,421,900 3,183,300 5,745,300 3,725,600	2,404,700 3,175,300 5,774,300 3,743,000	2,388,500 3,171,600 5,780,900 3,754,200	2,373,700 3,163,300 5,801,100 3,781,900	2,373,000 3,177,700 5,869,300 3,834,200	2,302,000 3,100,400 6,202,800 3,786,200	-5.9 -2.9 9.0 1.8
State Alabama Alaska Arizona Arkansas California	194,709 28,606 160,807 122,781 1,336,740	201,358 38,914 237,132 131,936 1,733,779	212,414 42,063 354,919 138,460 1,971,587	214,968 42,441 308,593 139,857 1,996,645	216,941 42,049 316,391 139,096 2,014,503	217,590 41,399 316,068 137,362 2,016,270	219,495 40,837 317,411 136,350 1,999,416	221,940 40,114 319,759 136,306 1,995,610	137,092		218,705 38,230 327,165 140,270 1,954,634	221,068 38,431 331,572 141,743 1,951,920	222,182 38,688 333,594 142,315 1,943,417	0.1 -3.6 4.3 4.4 -2.6	218,500 38,700 333,700 143,100 1,938,700	212,800 38,600 332,900 142,500 1,944,100	208,500 38,400 332,600 141,600 1,943,000	206,200 38,500 335,300 140,600 1,953,600	205,300 39,200 341,000 139,500 1,976,900	209,000 43,600 356,600 142,400 1,818,300	-5.9 12.7 6.9 # -6.4
Colorado Connecticut Delaware District of	154,303 121,727 27,052	207,942 155,734 33,875	229,951 175,354 36,298	234,985 177,037 37,258	236,141 176,592 37,555	238,139 174,980 38,619	240,990 174,004 39,091	242,239 173,071 39,124	243,411 171,060 38,322	246,051 170,245 38,022	249,380 169,038 38,483	254,643 167,790 39,346	260,909 167,056 39,845	7.7 -3.5 1.8	266,000 164,500 40,300	271,900 163,200 40,800	275,700 161,100 40,800	278,800 159,600 41,500	282,500 158,100 42,400	289,200 141,700 44,600	10.9 -15.2 11.8
Columbia Florida	19,412 491,658	15,233 674,919	21,230 801,629	20,459 804,951	22,586 810,952	17,902 781,725	17,777 783,621	17,736 784,849		17,867 799,602	17,774 807,034	17,961 823,249	19,069 839,773	7.5 7.0	17,800 850,300	17,800 855,400	17,900 860,800	18,400 867,500	19,300 892,100	26,200 987,100	37.3 17.5
Georgia Hawaii Idaho Illinois Indiana	302,605 48,868 60,749 511,891 278,721	384,954 52,067 74,696 574,859 286,006		462,649 54,720 80,375 640,597 315,832	471,012 54,341 80,948 639,896 317,214	470,108 53,568 81,497 640,512 316,126	472,934 52,719 81,571 640,462 316,062	474,588 52,076 81,715 636,861 317,818		481,043 51,170 82,631 624,679 316,329	490,032 50,900 87,143 621,531 316,350	501,605 51,077 85,425 621,275 316,465	513,865 50,402 86,420 619,292 321,313	8.3 -3.2 5.8 -2.8 1.1	520,800 50,400 87,400 618,800 322,200	521,800 50,800 87,900 621,300 318,700	521,400 51,100 88,700 624,100 316,900	522,300 52,200 89,700 629,000 311,800	527,600 52,800 90,500 634,500 312,200	546,600 54,000 91,100 591,200 308,700	6.4 7.2 5.5 -4.5 -3.9
lowa Kansas Kentucky Louisiana Maine	138,848 117,386 177,201 198,555 59,946	161,330 147,453 194,421 196,510 61,336	157,322 147,012 192,449 172,444 62,007	156,904 143,305 195,987 183,735 61,648	155,611 141,524 196,852 181,489 65,503	151,993 139,981 197,826 180,660 63,611	150,509 141,492 195,623 181,032 60,579	147,663 140,774 192,794 184,292 60,148	145,718 138,979 193,531 184,588 58,923	144,784 139,348 194,102 186,111 57,815	145,011 140,511 192,388 188,181 56,924	145,862 141,970 196,874 194,791 56,361	146,808 142,974 198,964 198,577 56,273	-0.6 1.6 3.2 7.8 -6.4	147,600 142,900 198,900 200,600 55,400	148,500 143,100 198,700 200,600 54,700	148,800 142,900 198,000 200,400 54,300	149,900 142,700 197,500 201,400 54,100	151,900 143,700 199,300 200,900 54,000	155,500 142,300 199,400 203,800 50,600	5.9 -0.5 0.2 2.6 -10.0
Maryland Massachusetts Michigan Minnesota Mississippi	188,432 230,080 439,553 210,818 130,776	243,877 272,575 498,144 276,574 133,998	271,449 296,511 550,885 281,486 136,924	272,575 298,033 552,098 282,120 138,644	269,221 296,032 555,916 279,398 140,610	267,388 292,372 541,352 275,864 140,155	266,627 290,502 534,471 272,392 140,829	264,055 289,161 511,483 268,074 139,641	259,870 287,055 502,664 264,194 137,620	256,836 287,506 493,440 262,041 137,286	253,589 287,478 488,776 261,409 136,154	254,072 288,934 486,200 263,074 138,033	253,096 294,897 483,813 265,709 138,631	-4.2 2.0 -5.4 -0.9 -0.7	255,000 296,300 479,500 268,400 137,800	257,800 297,300 473,500 271,100 135,900	259,400 297,900 468,900 275,000 133,500	263,200 296,800 461,500 277,900 131,800	266,700 296,300 458,400 283,200 130,200	282,000 287,000 420,400 292,900 127,000	11.4 -2.7 -13.1 10.2 -8.4
Missouri Montana Nebraska Nevada New Hampshire	228,488 41,805 76,001 51,435 46,484	267,978 49,649 90,713 89,986 61,340	282,563 47,646 91,591 116,406 67,183	286,078 47,397 91,811 121,813 67,384	285,442 46,469 91,149 121,789 66,413	282,460 45,030 89,678 125,043 64,939	279,900 43,939 88,508 123,435 64,372	275,719 43,202 88,208 129,852 63,135	271,208 42,624 87,792 130,274 62,268	270,370 42,089 88,073 131,977 60,805	269,227 42,138 88,555 132,591 59,377	268,921 41,816 89,964 134,671 58,825	269,349 41,822 91,650 136,934 58,120	-2.3 -3.2 3.9 5.5 -7.9	268,000 42,100 93,200 139,200 57,300	267,100 42,400 94,900 140,800 56,600	266,200 43,000 96,200 142,200 56,100	266,200 43,400 97,100 144,200 55,400	267,700 44,200 98,200 147,100 54,800	266,000 46,700 100,200 162,300 50,100	-1.2 11.6 9.4 18.5 -13.8
New Jersey New Mexico New York North Carolina North Dakota	306,224 93,794 770,919 303,739 32,882	345,872 95,427 853,282 348,168 36,780		425,432 98,129 922,365 417,414 32,275	427,930 99,322 909,120 417,168 31,567	424,655 98,830 897,512 429,719 30,773	427,697 99,076 919,049 429,596 30,497	421,293 98,777 865,805 432,196 30,288	433,801	416,133 97,242 842,142 438,375 30,116	413,916 97,716 847,925 441,263 30,420	418,377 99,260 851,757 456,527 30,421	419,513 96,798 841,578 464,398 30,675	-0.4 -2.0 -2.8 7.5 1.3	415,300 95,300 834,500 468,600 30,100	412,700 93,700 829,100 471,000 30,700	412,500 92,900 820,400 461,900 31,700	411,100 93,100 817,300 460,000 32,500	412,300 93,400 819,900 463,300 33,800	399,700 90,400 819,500 485,400 40,100	-4.7 -6.7 -2.6 4.5 30.6

#### 8 Table 5. Public school enrollment in grades 9 through 12, by region, state, and jurisdiction: Selected years, fall 1990 through fall 2028—Continued

						Actua	al total enroll	nent						Percent change in total enroll-			Projected tot	al enrollment			Percent change in total enroll-
Region, state, and jurisdiction	Fall 1990	Fall 2000	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	ment, 2011 to 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021	Fall 2028	ment, 2016 to 2028
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
South Carolina South Dakota Tennessee Texas Utah	170,079 33,999 226,484 871,932 121,670	184,185 40,765 241,038 1,116,572 148,381	206,748 38,021 286,397 1,279,727 152,114	207,751 38,182 282,508 1,300,148 165,986	210,511 38,952 287,401 1,305,637 155,309	211,019 37,968 285,881 1,329,862 158,243	210,257 38,192 285,715 1,349,106 160,573	207,797 37,487 286,944 1,363,618 164,296	208,648 37,267 281,971 1,387,513 169,077	211,835 36,639 283,888 1,411,436 174,129	216,723 37,301 288,408 1,450,441 178,910	220,780 37,242 291,841 1,492,452 184,303	223,322 37,590 293,535 1,525,178 188,588	7.5 0.3 2.3 11.8 14.8	224,800 38,000 294,000 1,557,100 193,200	225,400 38,600 292,100 1,583,200 197,600	227,100 39,800 291,700 1,607,300 201,700	230,900 40,900 294,700 1,631,300 206,200	237,900 42,100 299,200 1,665,100 210,800	242,100 43,400 293,600 1,692,200 214,200	8.4 15.3 # 10.9 13.6
Vermont Virginia Washington West Virginia Wisconsin Wyoming	24,902 270,321 227,112 98,292 232,164 27,285	31,729 329,167 310,403 85,166 284,736 29,792	31,659 378,755 331,916 84,366 292,100 27,198	30,942 380,413 332,840 83,990 289,421 27,179	30,631 380,787 332,224 83,252 284,222 26,526	29,265 381,320 329,960 82,349 279,000 26,330	28,869 379,994 329,616 81,407 273,807 26,223	27,762 376,658 327,269 80,805 268,295 26,042	27,557 375,975 327,134 80,673 265,682 26,243	27,233 377,252 328,068 79,957 264,739 26,449	26,338 382,693 333,318 80,543 264,550 26,732	26,002 386,781 336,808 80,142 263,896 26,914	25,573 389,330 339,349 79,442 262,681 26,924	-7.9 3.4 3.7 -1.7 -2.1 3.4	25,200 392,500 342,700 78,700 262,400 27,300	25,000 394,600 345,500 78,100 262,300 27,400	24,900 396,200 348,600 77,300 262,000 27,900	24,800 399,400 355,800 76,100 263,000 28,400	25,000 405,000 365,300 75,900 265,000 28,800	23,100 395,100 393,900 68,500 249,800 26,200	-9.8 1.5 16.1 -13.8 -4.9 -2.6
Jurisdiction Bureau of Indian Education DoDEA <sup>1</sup>	_	11,192 17,759	15.881	 15,570	10,315 15,595	9,970	9,977					13,615	11,267								
Other jurisdictions American Samoa Guam Northern Marianas Puerto Rico U.S. Virgin Islands	3,073 7,115 1,531 164,378 5,501	3,807 8,775 2,195 167,201 5,549	4,637 		3,097 148,520 5,201	 3,218 145,755 5,084	10,057 3,417 139,122 4,977	10,020 3,308 133,816 5,135	10,020 3,250 129,561 4,890	10,113 3,298 128,958 4,670	10,032 — 126,704 4,517	10,010 10,056 118,151 4,302	10,137 	-14.8 -19.0			 				 

#### #Rounds to zero.

-Not available.

<sup>1</sup>DoDEA = Department of Defense Education Activity. Includes both domestic and overseas schools.

NOTE: The total ungraded counts of students were prorated to the elementary level (prekindergarten through grade 8) and the secondary level (grades 9 through 12) based on prior reports. In addition to students in grades 9 through 12 and ungraded secondary students, this table includes a small number of students reported as being enrolled in grade 13. Detail may not

sum to totals because of rounding. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 1990–91 through 2016–17; and State Public Elementary and Secondary Enrollment Projection Model, 1980 through 2028. (This table was prepared March 2019.)

## Table 6. Enrollment and percentage distribution of enrollment in public elementary and secondary schools, by race/ethnicity and region: Selected years, fall 1995 through fall 2028

			E	nrollment (i	n thousand	ds)						Percentage	distributio	n		
Region and year	Total	White	Black	Hispanic	Asian	Pacific Islander	American Indian/ Alaska Native	Two or more races	Total	White	Black	Hispanic	Asian	Pacific Islander	American Indian/ Alaska Native	Two or more races
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
United States 1995 2000 2001 2002 2002	44,840 47,204 47,672 48,183 48,540	29,044 28,878 28,735 28,618 28,442	7,551 8,100 8,177 8,299 8,349	6,072 7,726 8,169 8,594 9,011	1,668 <sup>1</sup> 1,950 <sup>1</sup> 2,028 <sup>1</sup> 2,088 <sup>1</sup> 2,145 <sup>1</sup>		505 550 564 583 593	 	100.0 100.0 100.0 100.0 100.0	64.8 61.2 60.3 59.4 58.6	16.8 17.2 17.2 17.2 17.2	13.5 16.4 17.1 17.8 18.6	3.7 <sup>1</sup> 4.1 <sup>1</sup> 4.3 <sup>1</sup> 4.3 <sup>1</sup>	 	1.1 1.2 1.2 1.2 1.2	 
2003 2004 2005 2006 2007 2008	48,795 49,113 49,316 49,291 49,266	28,318 28,005 27,801 27,454 27,057	8,386 8,445 8,422 8,392 8,358	9,317 9,787 10,166 10,454 10,563	2,143 2,279 <sup>1</sup> 2,332 <sup>1</sup> 2,396 <sup>1</sup> 2,405		593 591 598 595 594 589	  247 <sup>2</sup>	100.0 100.0 100.0 100.0 100.0 100.0	58.0 57.0 56.4 55.7 54.9	17.2 17.2 17.2 17.1 17.0 17.0	19.1 19.9 20.6 21.2 21.4	4.4 <sup>1</sup> 4.5 <sup>1</sup> 4.6 <sup>1</sup> 4.7 <sup>1</sup> 4.9 <sup>1</sup> 4.9	  0.1	1.2 1.2 1.2 1.2 1.2 1.2	  0.5 ²
2009 2010 2011 2012 2013	49,361 49,484 49,522 49,771 50,045	26,702 25,933 25,602 25,386 25,160	8,245 7,917 7,827 7,803 7,803	10,991 11,439 11,759 12,104 12,452	2,435 2,296 2,334 2,372 2,417	49 171 179 180 176	601 566 547 534 523	338 <sup>2</sup> 1,164 1,272 1,393 1,511	100.0 100.0 100.0 100.0 100.0	54.1 52.4 51.7 51.0 50.3	16.7 16.0 15.8 15.7 15.6	22.3 23.1 23.7 24.3 24.9	4.9 4.6 4.7 4.8 4.8	0.1 0.3 0.4 0.4 0.4	1.2 1.1 1.1 1.1 1.0	0.7 <sup>2</sup> 2.4 2.6 2.8 3.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	50,313 50,438 50,615 50,695 50,728	24,923 24,644 24,413 24,149 23,888	7,807 7,784 7,765 7,734 7,698	12,805 13,080 13,329 13,561 13,752	2,470 2,521 2,571 2,616 2,660	176 177 184 183 184	519 510 511 507 504	1,612 1,723 1,842 1,946 2,043	100.0 100.0 100.0 100.0 100.0	49.5 48.9 48.2 47.6 47.1	15.5 15.4 15.3 15.3 15.2	25.4 25.9 26.3 26.7 27.1	4.9 5.0 5.1 5.2 5.2	0.3 0.4 0.4 0.4 0.4	1.0 1.0 1.0 1.0 1.0	3.2 3.4 3.6 3.8 4.0
2019 <sup>5</sup> 2020 <sup>5</sup> 2021 <sup>5</sup> 2022 <sup>5</sup> 2023 <sup>5</sup>	50,770 50,857 50,892 51,012 51,098	23,659 23,462 23,277 23,163 23,051	7,672 7,663 7,654 7,707 7,741	13,921 14,084 14,207 14,263 14,298	2,696 2,738 2,764 2,812 2,858	184 185 185 182 180	501 498 494 490 487	2,136 2,227 2,311 2,394 2,483	100.0 100.0 100.0 100.0 100.0	46.6 46.1 45.7 45.4 45.1	15.1 15.1 15.0 15.1 15.1	27.4 27.7 27.9 28.0 28.0	5.3 5.4 5.4 5.5 5.6	0.4 0.4 0.4 0.4 0.4	1.0 1.0 1.0 1.0 1.0	4.2 4.4 4.5 4.7 4.9
2024 <sup>5</sup> 2025 <sup>5</sup> 2026 <sup>5</sup> 2027 <sup>5</sup> 2028 <sup>5</sup>	51,124 51,119 51,123 51,228 51,419	22,940 22,828 22,734 22,684 22,662	7,760 7,775 7,787 7,811 7,857	14,296 14,279 14,261 14,277 14,334	2,908 2,959 3,010 3,069 3,126	179 178 177 177 177	483 480 477 475 474	2,557 2,621 2,677 2,734 2,788	100.0 100.0 100.0 100.0 100.0	44.9 44.7 44.5 44.3 44.1	15.2 15.2 15.2 15.2 15.3	28.0 27.9 27.9 27.9 27.9 27.9	5.7 5.8 5.9 6.0 6.1	0.3 0.3 0.3 0.3 0.3	0.9 0.9 0.9 0.9 0.9	5.0 5.1 5.2 5.3 5.4
Northeast 1995 2000 2005 2010 2013 2014	7,894 8,222 8,240 8,071 7,961 7,980	5,497 5,545 5,317 4,876 4,593 4,593	1,202 1,270 1,282 1,208 1,158 1,155	878 1,023 1,189 1,364 1,492 1,566	295 <sup>1</sup> 361 <sup>1</sup> 425 <sup>1</sup> 494 526 538		21 24 27 27 28 28	  96 158 179	100.0 100.0 100.0 100.0 100.0 100.0	69.6 67.4 64.5 60.4 57.7 56.5	15.2 15.4 15.6 15.0 14.5 14.5	11.1 12.4 14.4 16.9 18.7 19.6	3.7 <sup>1</sup> 4.4 <sup>1</sup> 5.2 <sup>1</sup> 6.1 6.6 6.7	  0.1 0.1 0.1	0.3 0.3 0.3 0.3 0.3 0.3 0.4	 1.2 2.0 2.2
2015 <sup>3</sup> 2016 <sup>4</sup>	7,934 7,959	4,409 4,345	1,136 1,132	1,610 1,668	547 558	7 13	29 30	197 214	100.0 100.0	55.6 54.6	14.3 14.2	20.3 21.0	6.9 7.0	0.1 0.2	0.4 0.4	2.5 2.7
Midwest 1995 2000 2005 2010 2013 2014	10,512 10,730 10,819 10,610 10,573 10,561	8,335 8,208 7,950 7,327 7,111 7,037	1,450 1,581 1,654 1,505 1,464 1,459	438 610 836 1,077 1,212 1,249	197 <sup>1</sup> 239 <sup>1</sup> 283 <sup>1</sup> 303 330 338		92 92 96 94 87 86	 294 358 380	100.0 100.0 100.0 100.0 100.0 100.0	79.3 76.5 73.5 69.1 67.3 66.6	13.8 14.7 15.3 14.2 13.8 13.8	4.2 5.7 7.7 10.2 11.5 11.8	1.9 <sup>1</sup> 2.2 <sup>1</sup> 2.6 <sup>1</sup> 2.9 3.1 3.2	 0.1 0.1 0.1	0.9 0.9 0.9 0.9 0.8 0.8	 2.8 3.4 3.6
2015 <sup>3</sup> 2016 <sup>4</sup>	10,556 10,539	6,968 6,893	1,458 1,449	1,284 1,312	348 360	12 12	84 86	400 426	100.0 100.0	66.0 65.4	13.8 13.8	12.2 12.4	3.3 3.4	0.1 0.1	0.8 0.8	3.8 4.0
South 1995 2000 2005 2010 2010 2013	16,118 17,007 18,103 18,805 19,299	9,565 9,501 9,381 8,869 8,722	4,236 4,516 4,738 4,545 4,561	1,890 2,468 3,334 4,206 4,671	280 <sup>1</sup> 352 <sup>1</sup> 456 <sup>1</sup> 533 588	  22 26	148 170 194 207 185		100.0 100.0 100.0 100.0 100.0	59.3 55.9 51.8 47.2 45.2	26.3 26.6 26.2 24.2 23.6	11.7 14.5 18.4 22.4 24.2	1.7 <sup>1</sup> 2.1 <sup>1</sup> 2.5 <sup>1</sup> 2.8 3.0	 0.1 0.1	0.9 1.0 1.1 1.1 1.0	 2.3 2.8
2014 2015 <sup>3</sup> 2016 <sup>4</sup>	19,506 19,641 19,750	8,681 8,601 8,513	4,577 4,583 4,571	4,846 4,994 5,142	613 637 665	28 29 30	184 181 177	579 615 652	100.0 100.0 100.0	44.5 43.8 43.1	23.5 23.3 23.1	24.8 25.4 26.0	3.1 3.2 3.4	0.1 0.1 0.2	0.9 0.9 0.9	3.0 3.1 3.3
West 1995 2000 2005 2010 2013	10,316 11,244 11,951 11,998 12,212	5,648 5,624 5,356 4,861 4,733	662 733 771 659 623	2,866 3,625 4,428 4,792 5,077	896 <sup>1</sup> 998 <sup>1</sup> 1,115 <sup>1</sup> 966 973	 133 133	244 264 281 237 224	 349 449	100.0 100.0 100.0 100.0 100.0	54.7 50.0 44.8 40.5 38.8	6.4 6.5 6.5 5.5 5.1	27.8 32.2 37.1 39.9 41.6	8.7 <sup>1</sup> 8.9 <sup>1</sup> 9.3 <sup>1</sup> 8.1 8.0		2.4 2.4 2.0 1.8	 2.9 3.7
2014 2015 <sup>3</sup> 2016 <sup>4</sup>	12,266 12,307 12,367	4,698 4,665 4,662	616 606 612	5,144 5,192 5,208	982 988 989	130 129 128	221 216 217	475 511 550	100.0 100.0 100.0	38.3 37.9 37.7	5.0 4.9 5.0	41.9 42.2 42.1	8.0 8.0 8.0	1.1 1.1 1.0	1.8 1.8 1.8	3.9 4.2 4.4

-Not available.

<sup>1</sup>Includes Pacific Islanders.

<sup>2</sup>For this year, data on Pacific Islanders and students of Two or more races were reported by only a small number of states. Therefore, the data are not comparable to figures for 2010 and later years.

small number of states. Therefore, the data are not comparable to figures for 2010 and later years. <sup>3</sup>Includes imputations for prekindergarten enrollment in California and Oregon.

<sup>4</sup>Includes imputations for prekindergarten enrollment in California.

<sup>5</sup>Projected.

NOTE: Race categories exclude persons of Hispanic ethnicity. Enrollment data for students not reported by race/ethnicity were prorated by state and grade to match state totals. Prior to 2008, data on students of Two or more races were not collected. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding. SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary and Secondary Education," 1995–96 through 2016–17; and National Elementary and Secondary Enrollment by Race/Ethnicity Projection Model, 1972 through 2028. (This table was prepared March 2019.)

#### Enrollment (in thousands) Percentage distribution Asian/Pacific Islander American Asian/Pacific Islander American Indian/ Indian/ Two or Two or Level of education His-Pacific His Pacific Alaska Alaska more more White White Total Black Black and year panic Total Asian Islander Native races Total panic Total Asian Islander Native races 1 2 7 17 3 4 5 6 8 9 10 11 12 13 14 15 16 18 19 Total 46,857 29,035 8,066 1,887 100.0 1999 7,327 542 62.0 17.2 15.6 4.0 1.2 \_\_\_\_ 2000 47,204 28,878 8,100 7,726 1,950 \_ \_ 550 100.0 61.2 17.2 16.4 4.1 1.2 47,672 2,028 2,088 \_ \_\_\_\_ 17.2 17.2 17.1 17.8 4.3 4.3 1.2 1.2 2001 28,735 8,177 8.169 \_ 564 100.0 60.3 t 1 48,183 28,618 8,299 8,594 \_ \_ 583 \_ 100.0 59.4 2002 † 48,540 8,349 9,011 2,145 593 \_ 100.0 58.6 17.2 18.6 4.4 ŧ 1.2 2003 28,442 t 100.0 2004 48,795 28,318 8,386 9,317 2,183 591 \_\_\_\_ 58.0 17.2 19.1 4.5 1.2 \_ \_ † † 28,005 27,801 2,279 2,332 \_ 17.2 17.1 1.2 1.2 2005 49 113 8 445 9.787 598 100.0 57.0 199 4.6 10,166 8,422 \_\_\_\_ \_ 595 \_ 100.0 56.4 2006 ..... 49.316 20.6 4.7 49,291 27,454 8,392 10,454 2,396 594 100.0 17.0 4.9 55.7 21.2 1.2 2007 ..... 2008 49,266 27,057 8,358 10,563 2,451 2,405 46 589 247 100.0 54.9 17.0 21.4 5.0 4.9 0.i 1.2 0.5 2009 49.361 26.702 10,991 2 484 2 435 601 338 100.0 16.7 22.3 49 0.7 8 2 4 5 49 54.1 5.0 0.1 1.2 49,484 25,933 7,917 2,466 1,164 100.0 52.4 5.0 4.6 2010 ..... 11,439 2,296 171 566 16.0 23.1 0.3 1.1 2.4 4.7 2011 ..... 49,522 25,602 7,827 11,759 2,513 2,334 179 547 1,272 100.0 51.7 15.8 23.7 5.1 0.4 1.1 2.6 2012 49,771 25,386 7,803 12,104 2,552 2,372 180 534 1,393 100.0 51.0 15.7 24.3 5.1 4.8 0.4 1.1 2.8 2013 ..... 50,045 25,160 7,805 12,452 2,593 2,417 176 523 1,511 100.0 50.3 15.6 24.9 5.2 4.8 0.4 1.0 3.0 2014 50.313 24.923 7.807 12.805 2.646 2.470 176 519 1.612 100.0 49.5 15.5 25.4 4.9 0.3 1.0 3.2 5.3 24,644 24,413 2,697 2,756 13,080 177 510 1,723 100.0 15.4 25.9 5.3 5.0 0.4 3.4 2015 50.438 7.784 2.521 48.9 1.0 13,329 2016<sup>3</sup> 50,615 7,765 2,571 184 511 1,842 100.0 48.2 15.3 26.3 5.4 5.1 0.4 1.0 3.6 5.2 5.2 20174 50.695 24,149 7,734 13,561 2,799 2,616 183 507 1.946 100.0 47.6 15.3 26.75.5 0.4 1.0 3.8 2018<sup>4</sup> 50,728 23,888 7.698 13,752 2,844 2,660 184 504 2,043 100.0 47.1 15.2 27.1 5.6 0.4 1.0 4.0 2,881 501 100.0 1.0 4.2 20194 50.770 23,659 7,672 13,921 2,696 184 2,136 46.6 15.1 27.4 5.7 5.3 0.4 2,227 2,311 50,857 23,462 7,663 14,084 2,923 498 100.0 15.1 5.7 5.4 0.4 4.4 2020<sup>4</sup> 2,738 185 46.1 27.7 1.0 ..... 2021 50,892 23,277 7,654 14,207 2,949 2,764 185 494 100.0 45.7 15.0 27.9 5.8 5.4 0.4 1.0 4.5 23,163 2.394 2022 51.012 7.707 14,263 2,994 2.812 182 490 100.0 45.4 15.1 28.0 5.9 5.5 0.4 1.0 4.7 5.6 5.9 23,051 7,741 3,039 487 2,483 15.1 4.9 20234 51,098 14,298 2,858 180 100.0 45.1 28.0 0.4 1.0 22,940 22,828 7,760 7,775 3,087 3,137 15.2 15.2 20244 51,124 14,296 2,908 179 483 2,557 100.0 44.9 28.0 6.0 5.7 5.8 0.3 0.9 5.0 $2025^{4}$ 51,119 14,279 2,959 178 480 2,621 100.0 44.7 27.9 6.1 0.3 0.9 5.1 14,261 14,277 51.123 22,734 7.787 3,187 3 010 2,677 2,734 15.2 6.2 6.3 0.3 5.2 5.3 20264 177 477 100.044.5 27.9 5.9 0.9 51,228 7,811 177 44.3 15.2 6.0 2027 22,684 3,069 475 100.0 27.9 0.9 474 44.1 0.3 5.4 20284 ..... 51,419 22,662 7,857 14,334 3,303 3,126 177 2,788 100.0 15.3 27.9 6.4 6.1 0.9 Prekindergarten through grade 8 33,486 20.327 5.952 1,303 100.0 60.7 17.8 1999 5.512 391 16.5 39 1.2 33 686 1,349 \_ 17.3 1.2 1.2 2000 20,130 5 981 \_ \_ 397 100.0 5.830 59.8 17.8 4.0 † † † † 1,409 33,936 19,960 6,004 6,159 \_ 405 100.0 58.8 17.7 18.1 2001 ..... 4.2 ţ 1,447 \_ 17.7 1.2 2002 34,114 19,764 6,042 6,446 415 100.0 57.9 18.94.2 ..... 34,201 19,558 6,015 6,729 1,483 415 100.0 57.2 17.6 19.7 4.3 ŧ 1.2 2003 ..... † † 2004 5,983 5,954 6,909 7,216 1.504 413 100.0 56.7 20.2 1.2 1.2 t 34.178 19.368 \_ \_\_\_\_ \_\_\_\_ 17.5 4.4 † † † 2005 ..... 34,204 19,051 1,569 \_ \_ 412 \_ 100.0 55.7 17.4 21.1 4.6 34,235 5,882 100.0 17.2 1.2 2006 18,863 7,465 1,611 414 55.1 21.8 4.7 ..... t 2007 34,204 18,679 5,821 7,632 1,660 412 100.0 54.6 17.0 22.3 4.9 1.2 4.9 0.5 1,674 31 187 0.i 2008 34,286 18,501 5,793 7,689 1,705 410 100.0 54.0 16.9 22.4 5.0 1.2 2009 ..... 34,409 18,316 5,713 7,977 1,730 1,697 33 419 254 100.0 53.2 16.6 23.2 5.0 4.9 0.1 1.2 0.71 2010 ..... 34,625 17,823 5,495 5,470 8,314 1,711 1,589 122 394 887 100.0 15.9 24.0 4.9 4.6 0.4 2.6 51.5 1.1 2011 ..... 34,773 17,654 8,558 1,616 128 384 963 100.0 50.8 15.7 24.6 5.0 4.6 0.4 1.1 2.8 2012 35,018 17 535 5,473 8 804 1.773 1 644 129 375 1.057 100.0 50.1 15.6 25.1 5.1 47 0.4 1.1 3.0 1 809 5.1 4.8 2013 ..... 35.251 17.390 5.483 9.054 1.683 126 367 1.148 100.0 49.3 15.6 25.7 0.4 1.0 3.3 2014 35.370 17.193 5,471 9,273 1.842 1.718 124 363 1,227 100.0 48.6 15.5 26.2 5.2 4.9 0.4 1.0 3.5 2015<sup>2</sup> 35,388 16,972 5,448 9,424 1,878 1,754 124 356 1,311 100.0 48.0 15.4 26.6 5.3 5.0 0.4 1.0 3.7 2016<sup>3</sup> 35,477 16,823 5,440 5,434 9.544 1,914 1.784 129 128 358 355 1.399 100.0 47.4 15.3 15.3 26.9 5.4 5.4 5.0 0.4 1.0 39 35,473 9.643 2017 16 641 1,802 1 470 100.0 46.9 27.2 5.1 4.1 5.2 2018<sup>4</sup> 35,465 5,437 128 352 1,530 15.3 27.4 5.5 0.4 16.468 9.721 1.957 1.829 100.0 46.4 1.0 4.3 5.6 5.2 2019<sup>4</sup> 35,457 16,335 5.441 9,771 1,976 1,850 126 350 1,584 100.0 46.1 15.3 27.6 0.4 1.0 4.5 5,428 2,004 100.0 2020 35,384 16,193 9,789 1.878 126 346 1.624 45.8 15.3 5.7 5.3 0.4 1.0 4.6 27.7 16,056 2021 35,231 5,394 9,766 9,692 2,021 1.896 126 342 1.651 100.0 45.6 15.3 27.7 5.7 5.4 0.4 1.0 4.7 5.5 5.6 2022<sup>4</sup> 5,413 2,059 1,935 124 339 1,678 100.0 15.4 27.5 5.9 0.4 4.8 35,189 16,008 45.5 1.0 15,989 5,431 2,101 1,978 124 100.0 45.4 15.4 27.4 6.0 0.4 2023 35.235 9,661 336 1,717 1.0 4.9 2024<sup>4</sup> 35,376 16,007 5,474 9,667 2,141 2,018 123 335 1,751 100.0 45.2 15.5 27.3 6.1 5.7 0.3 0.9 5.0 16,019 5,516 9,669 2,191 2,068 1,790 100.0 45.1 27.2 5.8 0.3 5.0 2025 35.519 123 334 15.5 6.2 0.9 2,236 35,703 5,561 9,705 2,113 123 333 1,837 100.0 44.9 15.6 27.2 6.3 5.9 0.3 0.9 2026 16.031 5.1 2,273 2.316 2,151 2,194 44.7 0.3 5.3 5.4 35,894 16,037 5,606 9,757 122 333 1,888 100.0 6.0 0.9 15.6 27.2 6.3 2028<sup>4</sup> 36.073 16,022 5.648 9.813 122 333 1.941 100.0 44.4 15.7 27.2 6.4 6.1 0.9

## Table 7. Enrollment and percentage distribution of enrollment in public elementary and secondary schools, by race/ethnicity and level of education: Fall 1999 through fall 2028

#### Table 7. Enrollment and percentage distribution of enrollment in public elementary and secondary schools, by race/ethnicity and level of education: Fall 1999 through fall 2028-Continued

				Enrollm	nent (in th	ousands)	)						Percer	ntage dis	tribution			
					Asian/	Pacific Is	lander	American	Turo or					Asian/	Pacific Is	lander	American	
Level of education and year	Total	White	Black	His- panic	Total	Asian	Pacific Islander	Indian/ Alaska Native	Two or more races	Total	White	Black	His- panic	Total	Asian	Pacific Islander	Indian/ Alaska Native	Two or more races
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Grades 9 through 12 1999 2000 2001 2001 2002 2003	13,371 13,517 13,736 14,069 14,339	8,708 8,747 8,774 8,854 8,884	2,114 2,119 2,173 2,257 2,334	1,815 1,896 2,011 2,148 2,282	584 601 619 642 663			151 153 159 168 177	 	100.0 100.0 100.0 100.0 100.0	65.1 64.7 63.9 62.9 62.0	15.8 15.7 15.8 16.0 16.3	13.6 14.0 14.6 15.3 15.9	4.4 4.4 4.5 4.6 4.6	† † † †	† † † †	1.1 1.1 1.2 1.2 1.2	† † † †
2004 2005 2006 2007 2008	14,618 14,909 15,081 15,086 14,980	8,950 8,954 8,938 8,775 8,556	2,403 2,490 2,540 2,571 2,565	2,408 2,570 2,701 2,821 2,874	679 709 720 736 746			178 186 181 183 179	  591	100.0 100.0 100.0 100.0 100.0	61.2 60.1 59.3 58.2 57.1	16.4 16.7 16.8 17.0 17.1	16.5 17.2 17.9 18.7 19.2	4.6 4.8 4.8 4.9 5.0	† † † 4.9	† † † 0.1	1.2 1.2 1.2 1.2 1.2	† † † 0.41
2009 2010 2011 2012 2013	14,952 14,860 14,749 14,753 14,794	8,385 8,109 7,948 7,851 7,770	2,532 2,422 2,357 2,330 2,322	3,014 3,125 3,202 3,300 3,398	754 755 769 779 784	738 707 719 727 733	16 49 50 51 51	182 171 163 158 156	84 <sup>1</sup> 277 309 335 363	100.0 100.0 100.0 100.0 100.0	56.1 54.6 53.9 53.2 52.5	16.9 16.3 16.0 15.8 15.7	20.2 21.0 21.7 22.4 23.0	5.0 5.1 5.2 5.3 5.3	4.9 4.8 4.9 4.9 5.0	0.1 0.3 0.3 0.3 0.3	1.1 1.1	0.6 <sup>1</sup> 1.9 2.1 2.3 2.5
2014           2015           2016           2017 <sup>4</sup> 2018 <sup>4</sup> 2019 <sup>4</sup>	14,943 15,050 15,138 15,222 15,264 15,313	7,730 7,672 7,590 7,508 7,420 7,324	2,336 2,336 2,324 2,300 2,261 2,231	3,532 3,656 3,786 3,917 4,031 4,149	804 819 842 869 887 904	753 767 787 813 830 846	52 52 55 56 57 58	156 154 153 152 151 151	385 412 443 476 513 552	100.0 100.0 100.0 100.0 100.0 100.0	51.7 51.0 50.1 49.3 48.6 47.8	15.6 15.5 15.4 15.1 14.8 14.6	23.6 24.3 25.0 25.7 26.4 27.1	5.4 5.4 5.6 5.7 5.8 5.9	5.0 5.1 5.2 5.3 5.4 5.5	0.3 0.3 0.4 0.4 0.4 0.4	1.0 1.0 1.0 1.0	2.6 2.7 2.9 3.1 3.4 3.6
2020 <sup>4</sup> 2021 <sup>4</sup> 2022 <sup>4</sup> 2023 <sup>4</sup> 2024 <sup>4</sup>	15,473 15,661 15,823 15,863 15,748	7,269 7,221 7,156 7,062 6,933	2,235 2,259 2,294 2,310 2,286	4,294 4,441 4,571 4,637 4,630	919 928 935 937 946	861 869 876 881 890	59 59 59 57 57	152 152 151 151 148	603 660 716 766 806	100.0 100.0 100.0 100.0 100.0	47.0 46.1 45.2 44.5 44.0	14.4 14.4 14.5 14.6 14.5	27.8 28.4 28.9 29.2 29.4	5.9 5.9 5.9 5.9 6.0	5.6 5.5 5.5 5.6 5.6	0.4 0.4 0.4 0.4 0.4	1.0 1.0 1.0	3.9 4.2 4.5 4.8 5.1
2025 <sup>4</sup> 2026 <sup>4</sup> 2027 <sup>4</sup> 2028 <sup>4</sup>	15,601 15,420 15,334 15,346	6,809 6,704 6,647 6,640	2,259 2,226 2,206 2,210	4,610 4,556 4,520 4,521	946 951 973 987	891 897 918 932	55 54 55 55	146 144 142 142	830 840 846 847	100.0 100.0 100.0 100.0	43.6 43.5 43.3 43.3	14.5 14.4 14.4 14.4	29.6 29.5 29.5 29.5 29.5	6.1 6.2 6.3 6.4	5.7 5.8 6.0 6.1	0.4 0.3 0.4 0.4	0.9 0.9	5.3 5.4 5.5 5.5

—Not available. †Not applicable.

<sup>1</sup>For this year, data on students of Two or more races were reported by only a small number of states. Therefore, the data are not comparable to figures for 2010 and later years. <sup>2</sup>Includes imputations for prekindergarten enrollment in California and Oregon. <sup>3</sup>Includes imputations for prekindergarten enrollment in California.

<sup>4</sup>Projected.

NOTE: Race categories exclude persons of Hispanic ethnicity. Enrollment data for students not reported by race/ethnicity were prorated by state and grade to match state totals.

Prior to 2008, data on students of Two or more races were not collected. Total counts of ungraded students were prorated to prekindergarten through grade 8 and grades 9 through 12 based on prior reports. Some data have been revised from previously published

figures. Detail may not sum to totals because of rounding. SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary and Secondary Education," 1998–99 through 2016–17; and National Elementary and Secondary Enrollment by Race/Ethnicity Projection Model, 1972 through 2028. (This table was prepared March 2019.)

		Teachers thousands)		(	Enrollment in thousands)		Pupi	il/teacher ratio	,		of new teacher 1 thousands) <sup>1</sup>	hires
Year	Total	Public	Private	Total	Public	Private	Total	Public	Private	Total	Public	Private
1	2	3	4	5	6	7	8	9	10	11	12	13
1955	1,286	1,141	145 <sup>2</sup>	35,280	30.680	4,600 <sup>2</sup>	27.4	26.9	31.7 <sup>2</sup>	_	_	_
1960	1,600	1,408	192 <sup>2</sup>	42,181	36,281	5,900²	26.4	25.8	30.7 <sup>2</sup>	—	_	_
1965	1,933	1,710	223	48,473	42,173	6,300	25.1	24.7	28.3	—	_	—
1970	2,292	2,059	233	51,257	45,894	5,363	22.4	22.3	23.0	—	_	—
1975	2,453	2,198	255 <sup>2</sup>	49,819	44,819	5,000²	20.3	20.4	19.6 <sup>2</sup>		_	_
1976	2,457	2,189	268	49,478	44,311	5,167	20.1	20.2	19.3	_	_	_
1977	2,488	2,209	279	48,717	43,577	5,140	19.6	19.7	18.4	—	_	—
1978	2,479	2,207	272	47,637	42,551	5,086	19.2	19.3	18.7	—	—	—
1979 1980	2,461 2,485	2,185 2,184	276 <sup>2</sup> 301	46,651 46,208	41,651 40,877	5,000 <sup>2</sup> 5,331	19.0 18.6	19.1 18.7	18.1 <sup>2</sup> 17.7			_
1900	2,405	2,104	001	40,200	40,077	0,001	10.0	10.7	11.1			
1981	2,440	2,127	313 <sup>2</sup>	45,544	40,044	5,500 <sup>2</sup>	18.7	18.8	17.6 <sup>2</sup>		_	—
1982	2,458	2,133	325 <sup>2</sup>	45,166	39,566	5,600 <sup>2</sup>	18.4	18.6	17.2 <sup>2</sup>	—	-	—
1983	2,476 2,508	2,139	337 340 <sup>2</sup>	44,967 44,908	39,252	5,715 5,700 <sup>2</sup>	18.2 17.9	18.4 18.1	17.0 16.8 <sup>2</sup>	—	—	_
1984 1985	2,508	2,168 2,206	340	44,908	39,208 39,422	5,557	17.9	17.9	16.2		_	_
	2,010	2,200		,	00,122	-,						
1986	2,592	2,244	348 <sup>2</sup>	45,205	39,753	5,452 <sup>2</sup>	17.4	17.7	15.7 <sup>2</sup>	—	_	_
1987	2,631	2,279	352	45,488	40,008	5,479	17.3	17.6	15.6	—	-	_
1988 1989	2,668 2,713	2,323 2,357	345 <sup>2</sup> 356	45,430 46,141	40,189 40,543	5,242 <sup>2</sup> 5,599	17.0 17.0	17.3 17.2	15.2 <sup>2</sup> 15.7		_	_
1990	2,759	2,398	361 <sup>2</sup>	46,864	41,217	5,648 <sup>2</sup>	17.0	17.2	15.6 <sup>2</sup>	_		_
1991	2,797	2,432	365	47,728	42,047	5,681	17.1	17.3	15.6	—	—	—
1992 1993	2,823 2,868	2,459 2,504	364 <sup>2</sup> 364	48,694 49,532	42,823 43,465	5,870 <sup>2</sup> 6,067	17.2 17.3	17.4 17.4	16.1 <sup>2</sup> 16.7		_	
1995	2,000	2,552	370 <sup>2</sup>	50,106	43,403	5,994 <sup>2</sup>	17.3	17.4	16.2 <sup>2</sup>			_
1995	2,974	2,598	376	50,759	44,840	5,918	17.1	17.3	15.7	_	_	_
						2						
1996	3,051	2,667	384 <sup>2</sup>	51,544	45,611	5,933 <sup>2</sup>	16.9	17.1	15.5 <sup>2</sup>	—	_	—
1997 1998	3,138 3,230	2,746 2,830	391 400 <sup>2</sup>	52,071 52,526	46,127 46,539	5,944 5,988 <sup>2</sup>	16.6 16.3	16.8 16.4	15.2 15.0 <sup>2</sup>			_
1999	3,319	2,911	408	52,875	46,857	6,018	15.9	16.1	14.7	305	222	83
2000	3,366	2,941	424 <sup>2</sup>	53,373	47,204	6,169 <sup>2</sup>	15.9	16.0	14.5 <sup>2</sup>	_	_	_
2001	3,440	3,000	441	53,992	47,672	6,320	15.7	15.9	14.3			
2001	3,440	3,000	441 <sup>2</sup>	54,403	48,183	6,220 <sup>2</sup>	15.7	15.9	14.1 <sup>2</sup>			_
2003	3,490	3,049	441	54,639	48,540	6,099	15.7	15.9	13.8	311	236	74
2004	3,536	3,091	445 <sup>2</sup>	54,882	48,795	6,087 <sup>2</sup>	15.5	15.8	13.7 <sup>2</sup>	—	_	—
2005	3,593	3,143	450	55,187	49,113	6,073	15.4	15.6	13.5	-	_	—
2006	3,622	3,166	456 <sup>2</sup>	55,307	49,316	5,991 <sup>2</sup>	15.3	15.6	13.2 <sup>2</sup>		_	_
2007	3,656	3,200	456	55,201	49,291	5,910	15.1	15.4	13.0	327	246	80
2008	3,670	3,222	448 <sup>2</sup>	54,973	49,266	5,707 <sup>2</sup>	15.0	15.3	12.8 <sup>2</sup>	—	_	—
2009	3,647	3,210	437	54,849	49,361	5,488	15.0	15.4	12.5	—	_	—
2010	3,512	3,099	413 <sup>2</sup>	54,867	49,484	5,382 <sup>2</sup>	15.6	16.0	13.0 <sup>2</sup>	_	_	_
2011	3,508	3,103	405	54,790	49,522	5,268	15.6	16.0	13.0	241	173	68
2012	3,517	3,109	408 <sup>2</sup>	55,104	49,771	5,333 <sup>2</sup>	15.7	16.0	13.1 <sup>2</sup>	—	_	—
2013	3,555	3,114	441	55,440	50,045	5,396	15.6	16.1	12.2	—	—	—
2014 2015	3,594 3,633	3,132 3,151	461 <sup>2</sup> 482	55,888 56,189	50,313 50,438	5,575 <sup>2</sup> 5,751	15.6 15.5	16.1 16.0	12.1 <sup>2</sup> 11.9	325	218	107
2010	0,000	0,101	402	50,105	00,400	0,701	10.0	10.0	11.5	020	210	107
2016	3,655	3,169	485	56,391	50,615	5,776	15.4	16.0	11.9	351	257	94
2017 <sup>3</sup>	3,641	3,156	485	56,477	50,695	5,781	15.5	16.1	11.9	318	227	92
2018 <sup>3</sup> 2019 <sup>3</sup>	3,667 3,691	3,179 3,200	488 491	56,518 56,572	50,728 50,770	5,789 5,802	15.4 15.3	16.0 15.9	11.9 11.8	356 355	262 260	95 95
2020 <sup>3</sup>	3,708	3,214	493	56,678	50,857	5,821	15.3	15.8	11.8	351	257	94
00013			105					45.0	41.0	050	050	•
2021 <sup>3</sup>	3,724	3,229	495	56,719	50,892	5,827	15.2	15.8	11.8	353	258	94
2022 <sup>3</sup>	3,750 3,771	3,251 3,269	499 502	56,865 56,973	51,012 51,098	5,853 5,875	15.2 15.1	15.7 15.6	11.7 11.7	363 360	266 263	96 97
2024 <sup>3</sup>	3,795	3,209	505	57,019	51,124	5,894	15.0	15.5	11.7	363	266	97
2025 <sup>3</sup>	3,820	3,311	509	57,029	51,119	5,910	14.9	15.4	11.6	367	269	98
	0.040		F10	E7 050		E 007	14.0	15.0	11.0	070	071	00
2026 <sup>3</sup> 2027 <sup>3</sup>	3,846 3,875	3,333 3,357	513 517	57,050 57,176	51,123 51,228	5,927 5,948	14.8 14.8	15.3 15.3	11.6 11.5	370 376	271 276	99 100
2028 <sup>3</sup>	3,906	3,385	522	57,387	51,419	5,969	14.0	15.2	11.4	381	280	100
	5,000	2,000	011	,	,	2,000					200	

### Table 8. Public and private elementary and secondary teachers, enrollment, pupil/teacher ratios, and new teacher hires: Selected years, fall 1955 through fall 2028

#### -Not available.

<sup>1</sup>A teacher is considered to be a new hire for a public or private school if the teacher had not taught in that control of school in the previous year. A teacher who moves from a public to private or a private to public school is considered a new teacher hire, but a teacher who moves from one public school to another public school or one private school to another private school is not considered a new teacher hire.

<sup>2</sup>Estimated.

<sup>3</sup>Projected.

NOTE: Data for teachers are expressed in full-time equivalents (FTE). Counts of private school teachers and enrollment include prekindergarten through grade 12 in schools offering kindergarten or higher grades. Counts of public school teachers and enrollment include prekindergarten through grade 12. The pupil/teacher ratio includes teachers for students with disabilities and other special teachers, while these teachers are generally excluded from class size calculations. Ratios for public schools reflect totals reported

by states and differ from totals reported for schools or school districts. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding.

Source: U.S. Department of Education, National Center for Education Statistics, *Statistics of Public Elementary and Secondary Day Schools*, 1955–56 through 1980–81; *Statistics of Nonpublic Elementary and Secondary Schools*, 1955 through 1980; 1983–84, 1985–86, and 1987–88 Private School Survey; Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 1981–82 2016–17; Private School Universe Survey (PSS), 1989–90 through 2015–16; Schools and Staffing Survey (SASS), "Public School Teacher Data File" and "Private School Teacher Data File," 1999–2000 through 2011–12; National Teacher and Principal Survey (NTPS), 2015–16; Elementary and Secondary Teacher Projection Model, 1973 through 2028, and New Teacher Hires Projection Model, 1988 through 2028. (This table was prepared April 2019.)

#### Table 9. High school graduates, by sex and control of school; public high school averaged freshman graduation rate (AFGR); and total graduates as a ratio of 17-year-old population: Selected years, 1869-70 through 2028-29 High school graduates

			Hig	h school graduat	ies					Graduates as
		Sex			Cont	trol				a ratio of
					Public <sup>2</sup>			Public school	Population	17-year-old
School year	Total <sup>1</sup>	Males	Females	Total	Males	Females	Private, total	AFGR <sup>3</sup>	17 years old <sup>4</sup>	population <sup>5</sup>
1	2	3	4	5	6	7	8	9	10	11
1869-70 1879-80 1889-90 1899-1900 1909-10 1919-20	16,000 23,634 43,731 94,883 156,429 311,266	7,064 10,605 18,549 38,075 63,676 123,684	8,936 13,029 25,182 56,808 92,753 187,582	21,882 61,737 111,363 230,902			21,849 <sup>6</sup> 33,146 <sup>6</sup> 45,066 <sup>6</sup> 80,364 <sup>6</sup>		815,000 946,026 1,259,177 1,489,146 1,786,240 1,855,173	2.0 2.5 3.5 6.4 8.8 16.8
1929-30 1939-40 1949-50 1959-60 1969-70 1975-76	666,904 1,221,475 1,199,700 1,858,023 2,888,639 3,142,120	300,376 578,718 570,700 895,000 1,430,000 1,552,000	366,528 642,757 629,000 963,000 1,459,000 1,590,000	591,719 1,143,246 1,063,444 1,627,050 2,588,639 2,837,129	538,273 505,394 791,426 1,285,895 1,401,064	604,973 558,050 835,624 1,302,744 1,436,065	75,185 <sup>6</sup> 78,229 <sup>6</sup> 136,256 <sup>6</sup> 230,973 300,000 <sup>6</sup> 304,991	  78.7 74.9	2,295,822 2,403,074 2,034,450 2,672,000 3,757,000 4,272,000	29.0 50.8 59.0 69.5 76.9 73.6
1979–80 1980–81 1981–82 1982–83 1983–84	3,042,214 3,020,285 2,994,758 2,887,604 2,766,797	1,503,000 1,492,000 1,479,000 1,426,000	1,539,000 1,528,000 1,515,000 1,461,000	2,747,678 2,725,285 2,704,758 2,597,604 2,494,797		=	294,536 295,000 <sup>6</sup> 290,000 <sup>6</sup> 290,000 <sup>6</sup> 272,000 <sup>6</sup>	71.5 72.2 72.9 73.8 74.5	4,262,000 4,212,000 4,134,000 3,962,000 3,784,000	71.4 71.7 72.4 72.9 73.1
1984–85 1985–86 1986–87 1987–88 1988–89	2,676,917 2,642,616 2,693,803 2,773,020 2,743,743	 		2,413,917 2,382,616 2,428,803 2,500,020 2,458,800			263,000 <sup>6</sup> 260,000 <sup>6</sup> 265,000 <sup>6</sup> 273,000 <sup>6</sup> 284,943	74.2 74.3 74.3 74.2 73.4	3,699,000 3,670,000 3,754,000 3,849,000 3,842,000	72.4 72.0 71.8 72.0 71.4
1989–90 <sup>7</sup> 1990–91 1991–92 1992–93 1993–94	2,574,162 2,492,988 2,480,399 2,480,519 2,463,849	 		2,320,337 2,234,893 2,226,016 2,233,241 2,220,849			253,825 <sup>8</sup> 258,095 254,383 <sup>8</sup> 247,278 243,000 <sup>6</sup>	73.6 73.7 74.2 73.8 73.1	3,505,000 3,417,913 3,398,884 3,449,143 3,442,521	73.4 72.9 73.0 71.9 71.6
1994–95 1995–96 1996–97 1997–98 1997–98	2,519,084 2,518,109 2,611,988 2,704,050 2,758,655			2,273,541 2,273,109 2,358,403 2,439,050 2,485,630	1,187,647 1,212,924	 1,251,403 1,272,706	245,543 245,000 <sup>6</sup> 253,585 265,000 <sup>6</sup> 273,025	71.8 71.0 71.3 71.3 71.1	3,635,803 3,640,132 3,792,207 4,008,416 3,917,885	69.3 69.2 68.9 67.5 70.4
1999–2000 2000–01 2001–02 2002–03 2003–04 <sup>7,9</sup>	2,832,844 2,847,973 2,906,534 3,015,735 3,054,438	 		2,553,844 2,569,200 2,621,534 2,719,947 2,753,438	1,241,631 1,251,931 1,275,813 1,330,973 1,347,800	1,312,213 1,317,269 1,345,721 1,388,974 1,405,638	279,000 <sup>6</sup> 278,773 285,000 <sup>6</sup> 295,788 301,000 <sup>6</sup>	71.7 71.7 72.6 73.9 74.3	4,056,639 4,023,686 4,023,968 4,125,087 4,113,074	69.8 70.8 72.2 73.1 74.3
2004–05 2005–067 2006–07 2007–08 2007–08	3,106,499 3,122,544 3,199,650 3,312,337 3,347,828			2,799,250 2,815,544 2,893,045 3,001,337 3,039,015	1,369,749 1,376,458 1,414,069 1,467,180 1,490,317	1,429,501 1,439,086 1,478,976 1,534,157 1,548,698	307,249 307,000 <sup>6</sup> 306,605 311,000 <sup>6</sup> 308,813	74.7 73.4 73.9 74.7 75.5	4,120,073 4,200,554 4,297,239 4,436,955 4,336,950	75.4 74.3 74.5 74.7 77.2
2009–10 2010–11 2011–12 2012–13 2013–14 <sup>11</sup>	3,435,022 3,449,940 3,455,405 3,478,027 3,479,930			3,128,022 3,144,100 3,149,185 3,169,257 3,168,450	1,542,684 <sup>10</sup> 1,552,981 1,558,489 1,569,675 —	1,585,338 <sup>10</sup> 1,591,113 1,590,694 1,599,579 —	307,000 <sup>6</sup> 305,840 306,220 <sup>6</sup> 308,770 311,480	78.2 79.6 80.8 81.9 83.1	4,311,831 4,367,891 4,294,530 4,256,553 4,185,547	79.8 79.0 80.5 81.7 83.1
2014–15 <sup>12</sup> 2015–16 <sup>11</sup> 2016–17 <sup>11</sup> 2017–18 <sup>11</sup> 2018–19 <sup>11</sup>	3,530,250 3,563,750 3,599,700 3,672,200 3,683,540			3,187,000 3,224,140 3,255,320 3,319,760 3,331,520			343,250 339,620 344,380 352,440 352,020		4,171,850 4,206,222 4,221,958 4,297,191 4,230,390	84.6 84.7 85.3 85.5 87.1
2019–20 <sup>11</sup> 2020–21 <sup>11</sup> 2021–22 <sup>11</sup> 2022–23 <sup>11</sup> 2023–24 <sup>11</sup>	3,650,460 3,682,230 3,717,110 3,726,140 3,799,480			3,303,890 3,330,840 3,354,240 3,372,640 3,441,920			346,580 351,390 362,870 353,500 357,560	 		
2024–25 <sup>11</sup> 2025–26 <sup>11</sup> 2026–27 <sup>11</sup> 2027–28 <sup>11</sup> 2028–29 <sup>11</sup>	3,855,370 3,859,130 3,774,260 3,707,210 3,722,010			3,492,860 3,497,750 3,416,680 3,348,520 3,361,890			362,520 361,380 357,580 358,690 360,120			

#### -Not available

<sup>1</sup>Includes graduates of public and private schools

Plocludes graduates of public and private schools. Plocludes estimates for states not reporting counts of graduates by sex. Data for 1929–30 and preceding years are from *Statistics of Public High Schools* and exclude graduates from high schools that failed to report to the Office of Education.

<sup>3</sup>The averaged freshman graduation rate provides an estimate of the percentage of students who receive a regular diploma within 4 years of entering initial grade. The rate uses aggregate student enrollment data to estimate the size of an incoming freshman class and aggregate counts of the number of diplomas awarded 4 years later. Averaged

freshman graduation rates in this table are based on reported totals of enrollment by grade and high school graduates, rather than on details reported totals of enrollment by grade and high school graduates, rather than on details reported totals of enrollment by grade "Derived from Current Population Reports, Series P-25. For years 1869–70 through 1989–90, 17-year-old population is an estimate of the October 17-year-old population based on July data. Data for 1990–91 and later years are October resident population estimates prepared by the Census Bureau.

estimates prepared by the Cercus burded.
Based on persons of all ages graduating from high school in a given year divided by the 17-year-old population in the same year. This ratio allows for comparisons over time but does not provide a measure of graduation rates for incoming freshmen who form a cohort (or class) that is scheduled to graduate 4 years later. The ratio of high school graduates to the 17-year-old population differs from measures such as the AFGR (shown in column 9), which are designed to estimate high school cohort graduation rates.

6Estimated. <sup>7</sup>Includes imputations for nonreporting states

<sup>8</sup>Projected by private schools responding to the Private School Universe Survey.

<sup>9</sup>Includes estimates for public schools in New York and Wisconsin. Without estimates for these two states, the averaged freshman graduation rate for the remaining 48 states and the District of Columbia is 75.0 percent.

<sup>10</sup>Includes estimate for Connecticut, which did not report graduates by sex.

<sup>11</sup>Projected by NCES.

<sup>12</sup>Public school data are projected by NCES; private school data are actual. NOTE: Includes graduates of regular day school programs. Excludes graduates of other programs, when separately reported, and recipients of high school equivalency certificates. Some data have been revised from previously published figures. Detail may not sum to table because of survey.

totals because of rounding and adjustments to protect student privacy. SOURCE: U.S. Department of Education, National Center for Education Statistics, Annual Report of the Commissioner of Education, National Center for Education Statistics, Annual in the United States, 1919–20 through 1949–50; Statistics of Public Elementary and In the United States, 1919–20 through 1949–50; Statistics of Public Elementary and Secondary School Systems, 1958–59 through 1980–81; Statistics of Nonpublic Elementary and Secondary Schools, 1959 through 1980; Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 1981–82 through 2009–10; "State Dropout and Completion Data File," 2005–06 through 2012–13; Public School Graduates and Dropouts from the Common Core of Data, 2007–08 and 2008–09; Private School Universe Survey (PSS), 1989 through 2015; and National High School Graduates Projection Model, 1972–73 through 2028–29. U.S. Department of Commerce, Census Bureau, Current Population Reports, Series P-25, Nos. 1000, 1022, 1045, 1057, 1059, 1092, and 1095; 2000 through 2009 Population Estimates, retrieved August 14, 2012, from <u>https://www.census.gov/</u> <u>popest/data/national/asrh/2011/index.html</u>; and 2010 through 2017 Population Estimates, retrieved November 8, 2018, from <u>https://www.census.gov/data/tables/2017/demo/popest/</u> <u>nation-detail.html</u>. (This table was prepared March 2019.)

#### Table 10. Public high school graduates, by region, state, and jurisdiction: Selected years, 1980–81 through 2028–29

		Actual data Projected data										
										.,		
Region, state, and jurisdiction	1980–81	1989–90	1999–2000	2009–10	2010–11	2011–12	2012–13	2013–14	2014–15	2015–16	2016–17	2017–18
1	2	3	4	5	6	7	8	9	10	11	12	13
United States	2,725,285	2,320,3371	2,553,844	3,128,022	3,144,100	3,149,185	3,169,257	3,168,450	3,187,000	3,224,140	3,255,320	3,319,760
Region Northeast Midwest South West	593,727 784,071 868,068 479,419	446,045 616,700 796,385 461,207	453,814 648,020 861,498 590,512	556,400 726,844 1,104,770 740,008	556,611 718,779 1,119,414 749,296	554,705 716,072 1,121,400 757,008	555,202 713,662 1,138,965 761,428	546,910 705,550 1,145,570 770,420	543,080 708,240 1,162,950 772,720	545,820 714,040 1,189,220 775,060	551,480 719,240 1,211,650 772,950	554,810 723,280 1,252,210 789,460
State	44 904	40,495	27 010	40 166	46.025	45 204	44.022	44 540	45 420	46.070	47 500	49.000
Alabama Alaska Arizona Arkansas California	44,894 5,343 28,416 29,577 242,172	40,485 5,386 32,103 26,475 236,291	37,819 6,615 38,304 27,335 309,866	43,166 8,245 61,145 28,276 404,987	46,035 8,064 64,472 28,205 410,467	45,394 7,989 63,208 28,419 418,664	44,233 7,860 62,208 28,928 422,125	44,540 7,720 66,700 29,610 424,080	45,420 7,860 67,200 30,350 422,830	46,070 7,840 67,120 30,290 419,190	47,560 7,910 68,770 30,750 411,710	48,260 8,050 69,560 31,020 420,500
Colorado Connecticut Delaware District of Columbia <sup>2</sup> Florida	35,897 38,369 7,349 4,848 88,755	32,967 27,878 5,550 3,626 88,934	38,924 31,562 6,108 2,695 106,708	49,321 34,495 8,133 3,602 156,130	50,122 38,854 8,043 3,477 155,493	50,087 38,681 8,247 3,860 151,964	50,968 38,722 8,070 3,961 158,029	51,310 37,860 8,240 3,880 158,440	51,450 37,160 8,390 3,990 163,740	53,310 37,420 8,480 4,510 166,540	54,060 37,890 8,690 4,430 170,820	56,050 37,130 8,930 4,200 176,160
Georgia Hawaii Idaho Illinois Indiana	62,963 11,472 12,679 136,795 73,381	56,605 10,325 11,971 108,119 60,012	62,563 10,437 16,170 111,835 57,012	91,561 10,998 17,793 139,035 64,551	92,338 10,716 17,525 134,956 66,133	90,582 11,360 17,568 139,575 65,667	92,416 10,790 17,198 139,228 66,595	94,380 11,050 19,120 137,640 67,560	97,420 10,760 18,050 140,520 66,750	100,070 10,860 18,230 140,850 66,720	102,050 10,690 19,130 141,250 68,970	105,890 11,130 19,280 143,510 69,640
lowa Kansas Kentucky Louisiana Maine	42,635 29,397 41,714 46,199 15,554	31,796 25,367 38,005 36,053 13,839	33,926 29,102 36,830 38,430 12,211	34,462 31,642 42,664 36,573 14,069	33,853 31,370 43,031 35,844 13,653	33,230 31,898 42,642 36,675 13,473	32,548 31,922 42,888 37,508 13,170	32,590 32,150 42,400 38,180 12,730	32,450 31,900 42,530 37,720 12,560	32,700 32,790 43,280 38,790 12,790	32,850 32,900 43,280 39,380 12,640	33,390 33,470 44,330 41,970 12,470
Maryland Massachusetts Michigan Minnesota Mississippi	54,050 74,831 124,372 64,166 28,083	41,566 55,941 <sup>3</sup> 93,807 49,087 25,182	47,849 52,950 97,679 57,372 24,232	59,078 64,462 110,682 59,667 25,478	58,745 64,724 106,017 59,357 27,321	58,811 65,157 105,446 57,501 26,158	58,896 66,360 104,210 58,255 26,502	58,120 65,200 102,520 56,370 26,650	57,650 65,790 102,020 56,800 26,260	57,490 68,630 100,800 56,640 26,770	57,290 68,610 101,570 57,250 26,900	59,040 69,320 102,440 58,370 28,050
Missouri Montana Nebraska Nevada New Hampshire	60,359 11,634 21,411 9,069 11,552	48,957 9,370 17,664 9,477 10,766	52,848 10,903 20,149 14,551 11,829	63,994 10,075 19,370 20,956 15,034	62,994 9,732 20,331 21,182 14,495	61,313 9,750 20,464 21,891 14,426	61,407 9,369 20,442 23,038 14,262	60,900 9,470 20,580 22,720 13,790	60,590 9,390 20,650 23,040 13,520	61,600 9,320 21,090 23,190 13,600	60,890 9,380 21,130 23,780 13,160	61,700 9,210 21,960 24,170 13,160
New Jersey New Mexico New York North Carolina North Dakota	93,168 17,915 198,465 69,395 9,924	69,824 14,884 143,318 64,782 7,690	74,420 18,031 141,731 62,140 8,606	96,225 18,595 183,826 88,704 7,155	95,186 19,352 182,759 89,892 7,156	93,819 20,315 180,806 93,977 6,942	96,490 19,232 180,351 94,339 6,900	95,220 18,590 178,810 96,210 6,960	95,250 19,530 179,110 97,020 7,040	97,130 19,480 178,260 98,970 7,020	97,990 19,770 181,790 101,710 6,940	98,330 20,190 185,630 105,280 6,570
Ohio Oklahoma Oregon Pennsylvania Rhode Island	143,503 38,875 28,729 144,645 10,719	114,513 35,606 25,473 110,527 7,825	111,668 37,646 30,151 113,959 8,477	123,437 38,503 34,671 131,182 9,908	124,229 37,744 34,723 130,284 9,724	123,135 37,305 34,261 131,733 9,751	122,491 37,033 33,899 129,777 9,579	119,520 37,260 34,440 127,200 9,730	120,940 38,420 34,800 123,560 9,900	125,050 39,690 35,650 121,840 10,050	126,590 40,230 34,700 123,990 9,390	122,380 41,170 35,380 123,190 9,660
South Carolina South Dakota Tennessee Texas Utah	38,347 10,385 50,648 171,665 19,886	32,483 7,650 46,094 172,480 21,196	31,617 9,278 41,568 212,925 32,501	40,438 8,162 62,408 280,894 31,481	40,708 8,248 61,862 290,470 30,888	41,442 8,196 62,454 292,531 31,157	42,246 8,239 61,323 301,390 33,186	41,720 7,960 60,970 304,360 33,400	42,650 8,140 62,010 309,280 34,070	43,840 8,080 63,480 318,660 35,400	45,090 8,160 63,710 327,690 36,560	46,640 8,280 66,310 339,950 37,690
Vermont Virginia Washington West Virginia Wisconsin Wyoming	6,424 67,126 50,046 23,580 67,743 6,161	6,127 60,605 45,941 21,854 52,038 5,823	6,675 65,596 57,597 19,437 58,545 6,462	7,199 81,511 66,046 17,651 64,687 5,695	6,932 82,895 66,453 17,311 64,135 5,600	6,859 83,336 65,205 17,603 62,705 5,553	6,491 83,279 66,066 17,924 61,425 5,489	6,360 83,100 66,240 17,510 60,810 5,590	6,240 82,680 68,200 17,460 60,460 5,550	6,090 84,640 69,770 17,640 60,710 5,700	6,010 84,720 70,840 17,370 60,740 5,660	5,930 87,490 72,500 17,540 61,560 5,740
Jurisdiction Bureau of Indian Education												
DoD, overseas DoD, domestic	_	_	2,642 560		_	_	_	_	_	_	_	=
Other jurisdictions American Samoa Guam Northern Marianas		703 1,033 227	698 1,406 360	—								
Puerto Rico U.S. Virgin Islands		29,049 1,260	30,856 1,060	25,514 958	26,231 1,014	25,720 1,046	 897					

#### Table 10. Public high school graduates, by region, state, and jurisdiction: Selected years, 1980–81 through 2028–29—Continued

						Projec	ted data					
												Percent change,
Region, state, and jurisdiction	2018–19	2019–20	2020–21	2021–22	2022–23	2023–24	2024–25	2025–26	2026–27	2027–28	2028–29	2012–13 to 2028–29
1	14	15	16	17	18	19	20	21	22	23	24	25
United States	3,331,520	3,303,890	3,330,840	3,354,240	3,372,640	3,441,920	3,492,860	3,497,750	3,416,680	3,348,520	3,361,890	6.1
Region Northeast Midwest South West	548,330 724,260 1,264,620 794,300	540,460 712,420 1,255,800 795,210	545,870 719,140 1,258,750 807,090	546,630 726,350 1,267,480 813,780	543,610 719,070 1,286,540 823,430	549,770 732,220 1,316,310 843,620	558,550 742,610 1,350,670 841,020	554,750 740,420 1,361,840 840,740	544,040 722,430 1,337,760 812,450	534,770 703,170 1,296,070 814,520	535,430 704,090 1,307,060 815,300	-3.6 -1.3 14.8 7.1
State	15 7 10	44.070	40,400	40.000	40.000	10.070	15 110	15 010	44 770	40.000	40.010	
Alabama Alaska Arizona Arkansas California	45,740 8,030 70,710 31,060 420,780	44,070 7,840 69,610 31,320 421,890	43,490 7,830 71,070 30,800 427,540	43,380 7,930 70,940 30,960 430,350	43,600 8,030 72,200 30,940 434,120	43,870 8,320 74,230 30,780 444,030	45,410 8,580 76,480 32,990 429,550	45,810 8,740 77,540 33,030 425,400	44,770 8,780 75,780 32,140 408,150	42,960 8,660 72,450 31,350 418,160	43,610 8,690 72,560 31,460 416,950	-1.4 10.6 16.6 8.7 -1.2
Colorado Connecticut Delaware District of Columbia <sup>2</sup> Florida	57,030 37,040 9,010 4,290 179,520	57,760 35,980 9,080 4,270 175,370	59,150 36,640 9,260 4,320 176,380	59,290 35,810 9,280 4,310 179,930	59,790 35,670 9,500 4,630 182,780	61,090 35,220 9,880 4,970 192,590	61,990 35,550 9,920 5,520 190,040	62,170 34,450 10,240 5,550 197,900	60,930 33,720 10,060 5,550 192,690	59,170 32,860 9,740 5,640 187,880	59,040 32,610 9,800 6,020 190,410	15.8 -15.8 21.4 51.9 20.5
Georgia Hawaii Idaho Illinois Indiana	106,920 10,540 19,720 142,800 71,980	105,660 10,820 19,440 139,490 69,520	104,900 10,830 19,830 144,730 68,320	106,500 11,010 20,340 146,850 69,820	107,710 11,210 21,040 144,610 68,920	110,270 11,290 21,090 147,870 70,120	112,930 11,510 21,850 152,340 70,340	113,710 11,580 21,960 149,530 71,660	111,370 8,780 21,400 146,040 69,740	107,750 10,890 21,010 138,960 68,530	108,130 10,670 21,320 138,790 68,580	17.0 -1.1 23.9 -0.3 3.0
lowa Kansas Kentucky Louisiana Maine	33,310 33,410 44,420 41,720 12,430	33,390 33,330 43,760 40,430 12,100	33,890 33,490 43,830 39,810 12,050	33,930 33,680 43,840 40,380 12,250	34,700 33,660 43,930 40,360 12,300	35,460 34,200 44,930 41,590 12,160	36,120 34,870 45,890 42,410 12,340	36,390 34,670 45,440 42,570 12,080	35,350 33,910 44,540 41,560 11,960	35,090 33,560 42,610 39,600 11,600	35,110 33,500 42,660 40,130 11,580	7.9 5.0 -0.5 7.0 -12.1
Maryland Massachusetts Michigan Minnesota Mississippi	58,560 69,810 99,910 59,350 27,390	60,180 69,790 98,170 58,510 26,680	60,920 70,020 97,790 60,360 25,990	61,640 70,360 97,500 61,810 26,300	61,990 69,700 94,870 61,920 26,180	63,770 70,020 96,260 63,460 25,950	65,820 71,160 96,030 65,100 28,040	66,930 71,310 92,560 65,520 27,280	65,550 69,390 90,060 64,560 26,330	64,340 67,880 88,840 63,320 24,560	64,550 68,390 88,680 63,910 24,850	9.6 3.1 -14.9 9.7 -6.2
Missouri Montana Nebraska Nevada New Hampshire	61,770 9,430 22,270 24,880 12,950	60,750 9,610 22,750 25,150 12,960	60,800 9,660 23,240 25,190 12,780	61,170 9,870 23,800 25,410 12,810	61,590 9,890 23,640 26,270 12,540	62,280 10,430 24,050 27,270 12,550	63,600 10,430 22,970 28,460 12,500	63,560 10,800 24,790 28,610 12,290	61,920 10,530 24,890 27,590 11,910	60,470 10,200 24,450 27,520 11,490	60,440 10,380 24,420 27,770 11,380	-1.6 10.8 19.5 20.5 -20.2
New Jersey New Mexico New York North Carolina North Dakota	97,120 20,300 182,480 107,590 6,800	96,210 20,780 179,160 104,770 6,850	97,920 20,410 180,970 104,820 7,050	98,540 20,430 180,070 97,640 7,330	97,370 20,800 180,320 104,440 7,450	98,540 20,820 183,830 107,090 7,910	100,920 21,380 186,510 110,400 8,140	99,270 21,510 185,690 110,430 8,240	97,620 20,920 183,510 108,930 8,270	96,130 19,510 180,560 105,400 8,000	96,020 19,290 181,140 106,280 8,190	-0.5 0.3 0.4 12.7 18.7
Ohio Oklahoma Oregon Pennsylvania Rhode Island	123,350 41,370 35,610 120,390 10,240	121,250 41,640 35,190 118,130 10,390	120,550 41,920 35,790 119,550 10,250	120,190 41,960 36,200 120,570 10,510	117,580 40,480 36,320 119,610 10,300	120,240 42,640 37,570 121,370 10,420	121,250 44,270 38,690 123,220 10,540	122,090 44,080 38,920 123,420 10,390	117,540 43,800 37,850 120,520 9,990	114,030 42,440 37,360 118,990 9,780	114,690 42,720 37,620 119,130 9,740	-6.4 15.4 11.0 -8.2 1.7
South Carolina South Dakota Tennessee Texas Utah	46,890 8,190 65,660 349,360 38,350	46,620 8,380 64,430 352,500 39,140	46,480 8,500 64,190 357,190 40,300	47,070 8,820 64,540 363,530 41,230	48,120 9,200 65,250 370,780 41,670	49,580 9,350 67,010 374,490 42,770	52,080 9,610 68,260 387,420 44,030	52,000 9,660 67,850 390,110 44,070	51,900 9,470 65,050 387,360 43,120	49,310 9,380 64,230 374,920 42,500	50,000 9,470 64,670 377,680 42,650	18.4 14.9 5.5 25.3 28.5
Vermont Virginia Washington West Virginia Wisconsin Wyoming	5,880 87,860 73,160 17,270 61,130 5,770	5,750 87,800 72,220 17,230 60,040 5,770	5,680 87,670 73,530 16,790 60,420 5,950	5,730 89,310 74,900 16,920 61,450 5,880	5,800 89,250 75,990 16,600 60,940 6,130	5,660 90,680 78,500 16,220 61,020 6,200	5,810 92,690 81,790 16,600 62,250 6,290	5,860 92,530 83,300 16,370 61,750 6,170	5,420 90,310 82,670 15,850 60,700 5,960	5,490 88,120 81,360 15,230 58,540 5,720	5,440 88,820 82,790 15,270 58,330 5,590	-16.2 6.6 25.3 -14.8 -5.0 1.8
<b>Jurisdiction</b> Bureau of Indian Education								_		_		
DoDEA <sup>4</sup>	-	—	—	3,202	—	—	—	—	—	—	-	_
Other jurisdictions American Samoa Guam		_	_							_	_	_
Northern Marianas Puerto Rico												
U.S. Virgin Islands		_	_	_	—	—	—	—	—	_	—	

-Not available.

<sup>1</sup>U.S. total includes estimates for nonreporting states. <sup>2</sup>Beginning in 1989–90, graduates from adult programs are excluded. <sup>3</sup>Projected data from NCES 91-490, *Projections of Education Statistics to 2002*. <sup>4</sup>DoDEA = Department of Defense Education Activity. Includes both domestic and overseas schools.

NOTE: Data include regular diploma recipients, but exclude students receiving a certificate of attendance and persons receiving high school equivalency certificates. Some data have been revised from previously published figures. Detail may not sum to totals because source: U.S. Department of Education, National Center for Education Statistics, Common

Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 1981–82 through 2005–06; "State Dropout and Completion Data File," 2005–06 through 2012–13; and State High School Graduates Projection Model, 1980–81 through 2028–29. (This table was prepared March 2019.)

#### Table 11. Public high school graduates, by race/ethnicity: 1998–99 through 2028–29

			Number of	high school (	graduates	······································			l	Percentage	distribution	of graduates	;	
Year	Total	White	Black	Hispanic	Asian/ Pacific Islander	American Indian/ Alaska Native	Two or more races	Total	White	Black	Hispanic	Asian/ Pacific Islander	American Indian/ Alaska Native	Two or more races
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1998–99 1999–2000 2000–01 2001–02 2002–03	2,485,630 2,553,844 2,569,200 2,621,534 2,719,947	1,749,561 1,778,370 1,775,036 1,796,110 1,856,454	325,708 338,116 339,578 348,969 359,920	270,836 289,139 301,740 317,197 340,182	115,216 122,344 126,465 132,182 135,588	24,309 25,875 26,381 27,076 27,803		100.0 100.0 100.0 100.0 100.0	70.4 69.6 69.1 68.5 68.3	13.1 13.2 13.2 13.3 13.3	10.9 11.3 11.7 12.1 12.5	4.6 4.8 4.9 5.0 5.0	1.0 1.0 1.0 1.0 1.0	† † † †
2003–04 2004–05 2005–06 2006–07 2007–08	2,753,438 2,799,250 2,815,544 2,893,045 3,001,337	1,829,177 1,855,198 1,838,765 1,868,056 1,898,367	383,443 385,987 399,406 418,113 429,840	374,492 383,714 396,820 421,036 448,887	137,496 143,729 150,925 154,837 159,410	28,830 30,622 29,628 31,003 32,036	 32,797 <sup>1</sup>	100.0 100.0 100.0 100.0 100.0	66.4 66.3 65.3 64.6 63.3	13.9 13.8 14.2 14.5 14.3	13.6 13.7 14.1 14.6 15.0	5.0 5.1 5.4 5.4 5.3	1.0 1.1 1.1 1.1 1.1	† † † 1.11
2008–09 2009–10 2010–11 2011–12 2012–13	3,039,015 3,128,022 3,144,100 3,149,185 3,169,257	1,883,382 1,871,980 1,835,332 1,807,528 1,791,147	451,384 472,261 471,461 467,932 461,919	481,698 545,518 583,907 608,726 640,413	163,575 167,840 168,875 173,835 179,101	32,213 34,131 32,768 32,450 31,100	26,763 <sup>1</sup> 36,292 <sup>1</sup> 51,748 58,703 65,569	100.0 100.0 100.0 100.0 100.0	62.0 59.8 58.4 57.4 56.5	14.9 15.1 15.0 14.9 14.6	15.9 17.4 18.6 19.3 20.2	5.4 5.4 5.4 5.5 5.7	1.1 1.1 1.0 1.0 1.0	0.9 <sup>1</sup> 1.2 <sup>1</sup> 1.6 1.9 2.1
2013–14 <sup>2</sup> 2014–15 <sup>2</sup> 2015–16 <sup>2</sup> 2016–17 <sup>2</sup> 2017–18 <sup>2</sup>	3,168,450 3,187,000 3,224,140 3,255,320 3,319,760	1,750,350 1,746,430 1,742,040	454,270 459,300 465,320 468,970 477,200	661,020 685,900 713,740 736,760 774,750	181,900 185,170 185,070 186,830 200,730	30,180 30,060 30,230 30,190 30,060	72,030 76,220 83,350 90,520 98,270	100.0 100.0 100.0 100.0 100.0	55.8 54.9 54.2 53.5 52.4	14.3 14.4 14.4 14.4 14.4	20.9 21.5 22.1 22.6 23.3	5.7 5.8 5.7 5.7 6.0	1.0 0.9 0.9 0.9 0.9	2.3 2.4 2.6 2.8 3.0
2018–19 <sup>2</sup> 2019–20 <sup>2</sup> 2020–21 <sup>2</sup> 2021–22 <sup>2</sup> 2022–23 <sup>2</sup>	3,331,520 3,303,890 3,330,840 3,354,240 3,372,640	1,717,950 1,676,320 1,669,020 1,659,320 1,632,870	472,450 459,460 451,510 445,420 447,270	805,450 824,330 847,770 869,910 904,420	200,850 203,680 212,240 217,940 217,310	29,220 28,620 29,190 29,560 29,040	105,600 111,480 121,110 132,100 141,730	100.0 100.0 100.0 100.0 100.0	51.6 50.7 50.1 49.5 48.4	14.2 13.9 13.6 13.3 13.3	24.2 25.0 25.5 25.9 26.8	6.0 6.2 6.4 6.5 6.4	0.9 0.9 0.9 0.9 0.9	3.2 3.4 3.6 3.9 4.2
2023-24 <sup>2</sup> 2024-25 <sup>2</sup> 2025-26 <sup>2</sup> 2026-27 <sup>2</sup> 2027-28 <sup>2</sup> 2028-29 <sup>2</sup>	3,441,920 3,492,860 3,497,750 3,416,680 3,348,520 3,361,890		460,740 469,950 474,420 463,790 444,520 448,170	945,420 971,900 981,800 963,620 941,360 955,040	218,260 220,650 225,280 220,040 226,210 221,040	29,310 29,430 29,100 28,710 27,540 27,670	158,630 173,390 184,030 187,860 195,730 195,860	100.0 100.0 100.0 100.0 100.0 100.0	47.3 46.6 45.8 45.4 45.2 45.0	13.4 13.5 13.6 13.6 13.3 13.3	27.5 27.8 28.1 28.2 28.1 28.4	6.3 6.3 6.4 6.4 6.8 6.6	0.9 0.8 0.8 0.8 0.8 0.8 0.8	4.6 5.0 5.3 5.5 5.8 5.8

—Not available.

†Not applicable.

<sup>1</sup>Data on students of Two or more races were not reported by all states; therefore, the data are not comparable to figures for 2010–11 and later years. <sup>2</sup>Projected.

NOTE: Race categories exclude persons of Hispanic ethnicity. Prior to 2007-08, data on students of Two or more races were not collected separately. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding and statistical methods used to prevent the identification of individual students. Source: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 1981–82 through 2005–06; "State Dropout and Completion Data File," 2005–06 through 2012–13; and National Public High School Graduates by Race/Ethnicity Projections Model, 1995–96 through 2028–29. (This table was prepared March 2019.)

1000 $12$ , $000000000000000000000000000000000000$	Table 12.	Current expenditures and current expenditures per pupil in public elementary and secondary schools: 1989–90 through 2028	3-29
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					Curren	nt expenditures in co	onstant 2017–18 do	llars <sup>2</sup>	
	Current exp	enditures in unadju	sted dollars <sup>1</sup>	Total current e	expenditures	Per pupil in fa	II enrollment	Per pupil ir daily attend	
School year	Total, in billions	Per pupil in fall enrollment	Per pupil in average daily attendance (ADA)	In billions	Annual percentage change	Per pupil enrolled	Annual percentage change	Per pupil in ADA	Annual percentage change
1	2	3	4	5	6	7	8	9	10
1989–90           1990–91           1991–92           1992–93           1993–94	\$188.2	\$4,643	\$4,980	\$367.8	3.8	\$9,073	2.9	\$9,731	2.3
	202.0	4,902	5,258	374.3	1.8	9,082	0.1	9,742	0.1
	211.2	5,023	5,421	379.2	1.3	9,018	-0.7	9,733	-0.1
	220.9	5,160	5,584	384.7	1.4	8,982	-0.4	9,721	-0.1
	231.5	5,327	5,767	392.9	2.1	9,040	0.6	9,787	0.7
1994–95	243.9	5,529	5,989	402.3	2.4	9,121	0.9	9,880	0.9
1995–96	255.1	5,689	6,147	409.7	1.8	9,137	0.2	9,872	-0.1
1996–97	270.2	5,923	6,393	421.9	3.0	9,249	1.2	9,982	1.1
1997–98	285.5	6,189	6,676	438.0	3.8	9,495	2.7	10,241	2.6
1998–99	302.9	6,508	7,013	456.7	4.3	9,814	3.4	10,576	3.3
1999–2000	323.9	6,912	7,394	474.7	3.9	10,131	3.2	10,837	2.5
2000–01	348.4	7,380	7,904	493.7	4.0	10,458	3.2	11,200	3.4
2001–02	368.4	7,727	8,259	513.0	3.9	10,760	2.9	11,500	2.7
2002–03	387.6	8,044	8,610	528.1	3.0	10,960	1.9	11,731	2.0
2003–04	403.4	8,310	8,900	537.9	1.8	11,081	1.1	11,867	1.2
2004–05	425.0	8,711	9,316	550.2	2.3	11,275	1.8	12,059	1.6
2005–06	449.1	9,145	9,778	560.0	1.8	11,403	1.1	12,193	1.1
2006–07	476.8	9,679	10,336	579.6	3.5	11,765	3.2	12,563	3.0
2007–08	506.9	10,298	10,982	594.1	2.5	12,070	2.6	12,871	2.5
2008–09	518.9	10,540	11,239	599.8	1.0	12,183	0.9	12,991	0.9
2009–10	524.7	10,636	11,427	600.7	0.1	12,177	-0.1	13,082	0.7
2010–11	527.3	10,663	11,433	591.8	-1.5	11,967	-1.7	12,832	-1.9
2011–12	527.2	10,648	11,362	574.8	-2.9	11,610	-3.0	12,389	-3.5
2012–13	535.8	10,771	11,509	574.6	#	11,552	-0.5	12,344	-0.4
2013–14	553.5	11,066	11,819	584.5	1.7	11,686	1.2	12,481	1.1
2014–15	575.3	11,445	12,224	603.2	3.2	11,998	2.7	12,816	2.7
2015–16	596.1	11,841	12,617	620.8	2.9	12,330	2.8	13,139	2.5
2016–17 <sup>3</sup>	614.7	12,140	12,990	628.5	1.2	12,420	0.7	13,280	1.1
2017–18 <sup>3</sup>	638.4	12,590	13,470	638.4	1.6	12,590	1.4	13,470	1.4
2018–19 <sup>3</sup>	661.5	13,040	13,940	647.2	1.4	12,760	1.3	13,640	1.3
2019–20 <sup>3</sup>	680.1	13,440	14,370	650.2	0.5	12,850	0.7	13,740	0.7
2020–21 <sup>3</sup>	702.1	13,860	14,820	657.3	1.1	12,970	1.0	13,870	1.0
2021–22 <sup>3</sup>	725.3	14,300	15,300	663.5	0.9	13,090	0.9	13,990	0.9
2022–23 <sup>3</sup>	748.0	14,740	15,770	668.8	0.8	13,180	0.7	14,090	0.7
2023–24 <sup>3</sup>	770.5	15,180	16,230	673.1	0.6	13,260	0.6	14,180	0.6
2024–25 <sup>3</sup> 2025–26 <sup>3</sup> 2026–27 <sup>3</sup> 2027–28 <sup>3</sup> 2028–29 <sup>3</sup>	792.5	15,620	16,700	676.8	0.6	13,340	0.6	14,260	0.6
	815.1	16,080	17,200	681.3	0.7	13,440	0.8	14,380	0.8
	839.3	16,580	17,730	686.8	0.8	13,560	0.9	14,510	0.9
	867.4	17,110	18,300	694.4	1.1	13,700	1.0	14,650	1.0
	890.2	17,520	18,730	700.9	0.9	13,790	0.7	14,750	0.7

#Rounds to zero. 'Unadjusted (or "current") dollars have not been adjusted to compensate for inflation. 'Constant dollars based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor, adjusted to a school-year basis.

<sup>3</sup>Projected. NOTE: Current expenditures include instruction, support services, food services, and enterprise operations. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "National Public Education Financial Survey," 1989–90 through 2016–17; National Elementary and Secondary Enrollment Projection Model, 1972 through 2028; and Public Elementary and Secondary Education Current Expenditure Projection Model, 1973–74 through 2028–29. (This table was prepared April 2019.)

		A	ttendance status			Sex of student			Control of	institution	
	Total			Percent			Percent			Private	
Year	enrollment	Full-time	Part-time	part-time	Male	Female	female	Public	Total	Nonprofit	For-profit
1	2	3	4	5	6	7	8	9	10	11	12
1947 <sup>1</sup> 1948 <sup>1</sup> 1949 <sup>1</sup> 1950 <sup>1</sup> 1951 <sup>1</sup>	2,338,226 2,403,396 2,444,900 2,281,298 2,101,962			  	1,659,249 1,709,367 1,721,572 1,560,392 1,390,740	678,977 694,029 723,328 720,906 711,222	29.0 28.9 29.6 31.6 33.8	1,152,377 1,185,588 1,207,151 1,139,699 1,037,938	1,185,849 1,217,808 1,237,749 1,141,599 1,064,024	 	
1952 <sup>1</sup> 1953 <sup>1</sup> 1954 <sup>1</sup> 1955 <sup>1</sup> 1956 <sup>1</sup>	2,134,242 2,231,054 2,446,693 2,653,034 2,918,212	 		  	1,380,357 1,422,598 1,563,382 1,733,184 1,911,458	753,885 808,456 883,311 919,850 1,006,754	35.3 36.2 36.1 34.7 34.5	1,101,240 1,185,876 1,353,531 1,476,282 1,656,402	1,033,002 1,045,178 1,093,162 1,176,752 1,261,810	 	 
1957 1959 1961 1963 1964	3,323,783 3,639,847 4,145,065 4,779,609 5,280,020	2,421,016 2,785,133 3,183,833 3,573,238	1,218,831 <sup>2</sup> 1,359,932 <sup>2</sup> 1,595,776 <sup>2</sup> 1,706,782 <sup>2</sup>	33.5 32.8 33.4 32.3	2,170,765 2,332,617 2,585,821 2,961,540 3,248,713	1,153,018 1,307,230 1,559,244 1,818,069 2,031,307	34.7 35.9 37.6 38.0 38.5	1,972,673 2,180,982 2,561,447 3,081,279 3,467,708	1,351,110 1,458,865 1,583,618 1,698,330 1,812,312	 	
1965 1966 1967 1968 1969	5,920,864 6,389,872 6,911,748 7,513,091 8,004,660	4,095,728 4,438,606 4,793,128 5,210,155 5,498,883	1,825,136 <sup>2</sup> 1,951,266 <sup>2</sup> 2,118,620 <sup>2</sup> 2,302,936 2,505,777	30.8 30.5 30.7 30.7 31.3	3,630,020 3,856,216 4,132,800 4,477,649 4,746,201	2,290,844 2,533,656 2,778,948 3,035,442 3,258,459	38.7 39.7 40.2 40.4 40.7	3,969,596 4,348,917 4,816,028 5,430,652 5,896,868	1,951,268 2,040,955 2,095,720 2,082,439 2,107,792	 2,074,041 2,061,211 2,087,653	21,679 21,228 20,139
1970	8,580,887	5,816,290	2,764,597	32.2	5,043,642	3,537,245	41.2	6,428,134	2,152,753	2,134,420	18,333
1971	8,948,644	6,077,232	2,871,412	32.1	5,207,004	3,741,640	41.8	6,804,309	2,144,335	2,121,913	22,422
1972	9,214,860	6,072,389	3,142,471	34.1	5,238,757	3,976,103	43.1	7,070,635	2,144,225	2,123,245	20,980
1973	9,602,123	6,189,493	3,412,630	35.5	5,371,052	4,231,071	44.1	7,419,516	2,182,607	2,148,784	33,823
1974	10,223,729	6,370,273	3,853,456	37.7	5,622,429	4,601,300	45.0	7,988,500	2,235,229	2,200,963	34,266
1975	11,184,859	6,841,334	4,343,525	38.8	6,148,997	5,035,862	45.0	8,834,508	2,350,351	2,311,448	38,903
1976	11,012,137	6,717,058	4,295,079	39.0	5,810,828	5,201,309	47.2	8,653,477	2,358,660	2,314,298	44,362
1977	11,285,787	6,792,925	4,492,862	39.8	5,789,016	5,496,771	48.7	8,846,993	2,438,794	2,386,652	52,142
1978	11,260,092	6,667,657	4,592,435	40.8	5,640,998	5,619,094	49.9	8,785,893	2,474,199	2,408,331	65,868
1979	11,569,899	6,794,039	4,775,860	41.3	5,682,877	5,887,022	50.9	9,036,822	2,533,077	2,461,773	71,304
1980	12,096,895	7,097,958	4,998,937	41.3	5,874,374	6,222,521	51.4	9,457,394	2,639,501	2,527,787	111,714 <sup>3</sup>
1981	12,371,672	7,181,250	5,190,422	42.0	5,975,056	6,396,616	51.7	9,647,032	2,724,640	2,572,405	152,235 <sup>3</sup>
1982	12,425,780	7,220,618	5,205,162	41.9	6,031,384	6,394,396	51.5	9,696,087	2,729,693	2,552,739	176,954 <sup>3</sup>
1983	12,464,661	7,261,050	5,203,611	41.7	6,023,725	6,440,936	51.7	9,682,734	2,781,927	2,589,187	192,740
1984	12,241,940	7,098,388	5,143,552	42.0	5,863,574	6,378,366	52.1	9,477,370	2,764,570	2,574,419	190,151
1985	12,247,055	7,075,221	5,171,834	42.2	5,818,450	6,428,605	52.5	9,479,273	2,767,782	2,571,791	195,991
1986	12,503,511	7,119,550	5,383,961	43.1	5,884,515	6,618,996	52.9	9,713,893	2,789,618	2,572,479	217,139⁴
1987	12,766,642	7,231,085	5,535,557	43.4	5,932,056	6,834,586	53.5	9,973,254	2,793,388	2,602,350	191,038⁴
1988	13,055,337	7,436,768	5,618,569	43.0	6,001,896	7,053,441	54.0	10,161,388	2,893,949	2,673,567	220,382
1989	13,538,560	7,660,950	5,877,610	43.4	6,190,015	7,348,545	54.3	10,577,963	2,960,597	2,731,174	229,423
1990	13,818,637	7,820,985	5,997,652	43.4	6,283,909	7,534,728	54.5	10,844,717	2,973,920	2,760,227	213,693
1991	14,358,953	8,115,329	6,243,624	43.5	6,501,844	7,857,109	54.7	11,309,563	3,049,390	2,819,041	230,349
1992	14,487,359	8,162,118	6,325,241	43.7	6,523,989	7,963,370	55.0	11,384,567	3,102,792	2,872,523	230,269
1993	14,304,803	8,127,618	6,177,185	43.2	6,427,450	7,877,353	55.1	11,189,088	3,115,715	2,888,897	226,818
1994	14,278,790	8,137,776	6,141,014	43.0	6,371,898	7,906,892	55.4	11,133,680	3,145,110	2,910,107	235,003
1995	14,261,781	8,128,802	6,132,979	43.0	6,342,539	7,919,242	55.5	11,092,374	3,169,407	2,929,044	240,363
1996	14,367,520	8,302,953	6,064,567	42.2	6,352,825	8,014,695	55.8	11,120,499	3,247,021	2,942,556	304,465
1997	14,502,334	8,438,062	6,064,272	41.8	6,396,028	8,106,306	55.9	11,196,119	3,306,215	2,977,614	328,601
1998	14,506,967	8,563,338	5,943,629	41.0	6,369,265	8,137,702	56.1	11,137,769	3,369,198	3,004,925	364,273
1999	14,849,691	8,803,139	6,046,552	40.7	6,515,164	8,334,527	56.1	11,375,739	3,473,952	3,055,029	418,923
2000	15,312,289	9,009,600	6,302,689	41.2	6,721,769	8,590,520	56.1	11,752,786	3,559,503	3,109,419	450,084
2001	15,927,987	9,447,502	6,480,485	40.7	6,960,815	8,967,172	56.3	12,233,156	3,694,831	3,167,330	527,501
2002	16,611,711	9,946,359	6,665,352	40.1	7,202,116	9,409,595	56.6	12,751,993	3,859,718	3,265,476	594,242
2003	16,911,481	10,326,133	6,585,348	38.9	7,260,264	9,651,217	57.1	12,858,698	4,052,783	3,341,048	711,735
2004	17,272,044	10,610,177	6,661,867	38.6	7,387,262	9,884,782	57.2	12,980,112	4,291,932	3,411,685	880,247
2005	17,487,475	10,797,011	6,690,464	38.3	7,455,925	10,031,550	57.4	13,021,834	4,465,641	3,454,692	1,010,949
2006	17,754,230	10,957,538	6,796,692	38.3	7,572,265	10,181,965	57.3	13,175,350	4,578,880	3,512,929	1,065,951
2007	18,258,138	11,270,929	6,987,209	38.3	7,819,938	10,438,200	57.2	13,500,894	4,757,244	3,571,395	1,185,849
2008	19,081,686	11,734,636	7,347,050	38.5	8,177,714	10,903,972	57.1	13,970,862	5,110,824	3,660,827	1,449,997
2009	20,313,594	12,605,355	7,708,239	37.9	8,732,953	11,580,641	57.0	14,810,768	5,502,826	3,767,672	1,735,154
2010	21,019,438	13,087,182	7,932,256	37.7	9,045,759	11,973,679	57.0	15,142,171	5,877,267	3,854,482	2,022,785
2011	21,010,590	13,002,531	8,008,059	38.1	9,034,256	11,976,334	57.0	15,116,303	5,894,287	3,926,819	1,967,468
2012	20,644,478	12,734,404	7,910,074	38.3	8,919,006	11,725,472	56.8	14,884,667	5,759,811	3,951,388	1,808,423
2013	20,376,677	12,596,610	7,780,067	38.2	8,861,197	11,515,480	56.5	14,746,848	5,629,829	3,971,390	1,658,439
2014	20,209,092	12,454,464	7,754,628	38.4	8,797,530	11,411,562	56.5	14,654,660	5,554,432	3,997,249	1,557,183

## Table 13. Total fall enrollment in degree-granting postsecondary institutions, by attendance status, sex of student, and control of institution: Selected years, 1947 through 2028

## Table 13. Total fall enrollment in degree-granting postsecondary institutions, by attendance status, sex of student, and control of institution: Selected years, 1947 through 2028—Continued

			Attendance status			Sex of student			Control of	institution	
	Total			Percent			Percent			Private	
Year	enrollment	Full-time	Part-time	part-time	Male	Female	female	Public	Total	Nonprofit	For-profit
1	2	3	4	5	6	7	8	9	10	11	12
2015 2016 2017 2018 <sup>5</sup> 2019 <sup>5</sup>	19,988,204 19,846,904 19,765,598 19,828,000 19,904,000	12,287,512 12,125,314 12,077,304 12,103,000 12,135,000	7,700,692 7,721,590 7,688,294 7,725,000 7,768,000	38.5 38.9 38.9 39.0 39.0	8,723,819 8,638,422 8,567,632 8,596,000 8,628,000	11,264,385 11,208,482 11,197,966 11,232,000 11,276,000	56.4 56.5 56.7 56.6 56.7	14,572,843 14,585,840 14,560,155 14,608,000 14,665,000	5,415,361 5,261,064 5,205,443 5,220,000 5,239,000	4,065,891 4,078,956 4,106,477 —	1,349,470 1,182,108 1,098,966 —
2020 <sup>5</sup> 2021 <sup>5</sup> 2022 <sup>5</sup> 2023 <sup>5</sup> 2024 <sup>5</sup>	19,928,000 19,956,000 19,991,000 20,040,000 20,107,000	12,133,000 12,129,000 12,131,000 12,145,000 12,178,000	7,795,000 7,828,000 7,860,000 7,895,000 7,929,000	39.1 39.2 39.3 39.4 39.4	8,637,000 8,644,000 8,656,000 8,676,000 8,703,000	11,291,000 11,312,000 11,335,000 11,364,000 11,404,000	56.7 56.7 56.7 56.7 56.7	14,685,000 14,708,000 14,736,000 14,774,000 14,824,000	5,243,000 5,248,000 5,255,000 5,266,000 5,283,000	 	 
2025 <sup>5</sup> 2026 <sup>5</sup> 2027 <sup>5</sup> 2028 <sup>5</sup>	20,177,000 20,258,000 20,295,000 20,305,000	12,220,000 12,264,000 12,272,000 12,261,000	7,957,000 7,994,000 8,023,000 8,044,000	39.4 39.5 39.5 39.6	8,733,000 8,770,000 8,788,000 8,792,000	11,444,000 11,488,000 11,507,000 11,513,000	56.7 56.7 56.7 56.7	14,876,000 14,936,000 14,965,000 14,975,000	5,301,000 5,321,000 5,329,000 5,330,000	 	

-Not available.

<sup>1</sup>Degree-credit enrollment only.

<sup>2</sup>Includes part-time resident students and all extension students (students attending courses at sites separate from the primary reporting campus). In later years, part-time student enrollment was collected as a distinct category.

<sup>3</sup>Large increases are due to the addition of schools accredited by the Accrediting Commission of Career Schools and Colleges of Technology.

<sup>4</sup>Because of imputation techniques, data are not consistent with figures for other years. <sup>5</sup>Projected

<sup>5</sup>Projected. NOTE: Data through 1995 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. The degree-granting classification is very similar to the earlier higher education classification, but it includes more 2-year colleges and excludes a few higher education institutions that did not grant degrees. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Biennial Survey of Education in the United States; Opening Fall Enrollment in Higher Education*, 1963 through 1965; Higher Education General Information Survey (HEGIS), "Fall Enrollment in Colleges and Universities" surveys, 1966 through 1985; Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment Survey" (IPEDS-EF:86-99); IPEDS Spring 2001 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This table was prepared March 2019.)

## Table 14. Total fall enrollment in degree-granting postsecondary institutions, by level and control of institution, attendance status, and sex of student: Selected years, 1970 through 2028

| lovel and control of   
   
   
   
  | Actual  |  |  |  |   | | | | | | | | | | | | | | | | | | | | |
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--|---|--|--|---|---|--|--|---|---|---|--|---|--|--|--|---|---|--|--|---|--|---
--|--|--|---|---|--|--|--|---|--|--|---|---|--|--|---|---
---|---|---|--|--|
| Level and control of<br>institution, attendance  
   
   
   
  |   |  |  |  |   | | | | | | | | | | | | | | | | | | | | |
   | AC  |   |  |   |   |   |  |   
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| status, and sex of   
   
   
   
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   |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| student  
   
   
   
  | 1970  | 1975   | 1980 <sup>1</sup>  | 1985   | 1990  | 1995                                
   | 2000  | 2005  | 2010   | 2013  | 2014  | 2015  | 2016   | 2017  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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  | 2   | 3  | 4  | 5  | 6   | 7                                   
   | 8   | 9   | 10   | 11  | 12  | 13  | 14   | 15  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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   |  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |  
   |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Total  
   
   
   
  | 8 580 887   | 11,184,859   | 12 096 895   | 12 247 055   | 13 818 637  | 14 261 781                          
   | 15 312 289  | 17,487,475  | 21 019 438   | 20 376 677  | 20 209 092  | 19 988 204  | 19.846.904   | 19,765,598  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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   |  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |  
   |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time  
   
   
   
  | 5,816,290   | 6,841,334  | 7,097,958  | 7,075,221  | 7,820,985   | 8,128,802                           
   |   |   | 13,087,182   | 12,596,610  |   |   | 12,125,314   | 12.077.304  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
  |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   
   |  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |  
   |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Males  
   
   
   
  | 3,504,095   | 3,926,753  | 3,689,244  | 3,607,720  | 3,807,752   | 3,807,392                           
   | 4,111,093   | 4,803,388   | 5,838,383  | 5,682,322   | 5,619,778   | 5,558,447   | 5,472,798  | 5,424,575   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
  |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   
   |  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |  
   |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Females  
   
   
   
  | 2,312,195   | 2,914,581  | 3,408,714  | 3,467,501  | 4,013,233   | 4,321,410                           
   | 4,898,507   | 5,993,623   | 7,248,799  | 6,914,288   | 6,834,686   | 6,729,065   | 6,652,516  | 6,652,729   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
  |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   
   |  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |  
   |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Part-time<br>Males   
   
   
   
  | 2,764,597<br>1,539,547  | 4,343,525  | 4,998,937 2,185,130  | 5,171,834<br>2,210,730   | 5,997,652<br>2,476,157  | 6,132,979<br>2,535,147              
   | 6,302,689<br>2,610,676  |   | 7,932,256 3,207,376  | 7,780,067 3,178,875   | 7,754,628 3,177,752   | 7,700,692 3,165,372   | 7,721,590<br>3,165,624   | 7,688,294<br>3,143,057  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Females  
   
   
   
  | 1,225,050   | 2,121,281  | 2,813,807  | 2,961,104  | 3,521,495   | 3,597,832                           
   | 3,692,013   |   | 4,724,880  | 4,601,192   | 4,576,876   | 4,535,320   | 4,555,966  | 4,545,237   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| 4 1000   
   
   
   
  | 6 061 500   | 7 014 740  | 7 570 609  | 7 715 070  | 0 570 554   | 0 760 252                           
   | 0.000.050   | 10 000 420  | 10 005 041   | 12 406 022  | 12 404 414  | 10 400 740  | 10 754 400   | 12 022 640  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| <b>4-year</b><br>Full-time   
   
   
   
  | <b>6,261,502</b><br>4,587,379   | <b>7,214,740</b> 5,080,256   | <b>7,570,608</b> 5,344,163   | <b>7,715,978</b> 5,384,614   | <b>8,578,554</b> 5,937,023  | <b>8,769,252</b><br>6,151,755       
   | <b>9,303,030</b><br>6,792,551   | <b>10,999,420</b><br>8,150,209  | 9.721.803  | 9,760,336   | 9,793,357   | 9,776,828   | <b>13,754,486</b><br>9.815.967   | <b>13,823,640</b><br>9,849,327  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Males  
   
   
   
  | 2,732,796   | 2,891,192  | 2,809,528  | 2,781,412  | 2,926,360   | 2,929,177                           
   | 3,115,252   | 3,649,622   | 4,355,153  | 4,402,528   | 4,419,130   | 4,414,743   | 4,414,959  | 4,410,727   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Females  
   
   
   
  | 1,854,583   | 2,189,064  | 2,534,635  | 2,603,202  | 3,010,663   | 3,222,578                           
   | 3,677,299   | 4,500,587   | 5,366,650  | 5,357,808   | 5,374,227   | 5,362,085   | 5,401,008  | 5,438,600   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Part-time  
   
   
   
  | 1,674,123   | 2,134,484  | 2,226,445  | 2,331,364  | 2,641,531   | 2,617,497                           
   | 2,571,307   | 2,849,211   | 3,614,038  | 3,645,697   | 3,701,057   | 3,711,915   | 3,938,519  | 3,974,313   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Males<br>Females   
   
   
   
  | 936,189<br>737,934  | 1,092,461<br>1,042,023   | 1,017,813  | 1,034,804<br>1,296,560   | 1,124,780<br>1,516,751  | 1,084,753                           
   | 1,047,917<br>1,523,390  | 1,125,935   | 1,424,721 2,189,317  | 1,460,229<br>2,185,468  | 1,484,380<br>2,216,677  | 1,491,001<br>2,220,914  | 1,586,069<br>2,352,450   | 1,593,843<br>2,380,470  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Public 4-year  
   
   
   
  | 4,232,722   | 4,998,142  | 5,128,612  | 5,209,540  | 5,848,242   | 5,814,545                           
   | 6,055,398   |   | 7,924,108  | 8,120,437   | 8,257,108   | 8,348,539   | 8,742,931  | 8,853,477   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Full-time<br>Males   
   
   
   
  | 3,086,491<br>1,813,584  | 3,469,821<br>1,947,823   | 3,592,193<br>1,873,397   | 3,623,341<br>1,863,689   | 4,033,654<br>1,982,369  | 4,084,711                           
   | 4,371,218<br>2,008,618  |   | 5,811,214  | 5,934,886<br>2,772,514  | 6,011,908<br>2,806,792  | 6,081,177<br>2,833,998  | 6,236,018<br>2,894,232   | 6,310,488<br>2,911,737  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Females  
   
   
   
  | 1,272,907   | 1,521,998  | 1,718,796  | 1,759,652  | 2,051,285   | 2,133,571                           
   | 2,362,600   |   | 3,103,907  | 3,162,372   | 3,205,116   | 3,247,179   | 3,341,786  | 3,398,751   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Part-time  
   
   
   
  | 1,146,231   | 1,528,321  | 1,536,419  | 1,586,199  | 1,814,588   | 1,729,834                           
   | 1,684,180   | 1,815,860   | 2,112,894  | 2,185,551   | 2,245,200   | 2,267,362   | 2,506,913  | 2,542,989   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Males<br>Females   
   
   
   
  | 609,422<br>536,809  | 760,469<br>767,852   | 685,051<br>851,368   | 693,115<br>893,084   | 764,248<br>1,050,340  | 720,402 1,009,432                   
   | 683,100<br>1,001,080  | 724,375   | 860,968  | 911,023<br>1,274,528  | 941,104<br>1,304,096  | 955,658   | 1,065,112<br>1,441,801   | 1,077,193<br>1,465,796  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| remaies  
   
   
   
  | 550,009   | 101,052  | 001,000  | 093,004  |   | 1,009,432                           
   | 1,001,000   | 1,091,400   |  | 1,274,520   | 1,304,090   | 1,311,704   |  | 1,400,790   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Private 4-year   
   
   
   
  | 2,028,780   | 2,216,598  | 2,441,996  | 2,506,438  | 2,730,312   | 2,954,707                           
   | 3,308,460   | 4,161,815   | 5,411,733  | 5,285,596   | 5,237,306   | 5,140,204   | 5,011,555  | 4,970,163   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Full-time<br>Males   
   
   
   
  | 1,500,888<br>919,212  | 1,610,435<br>943,369   | 1,751,970<br>936,131   | 1,761,273<br>917,723   | 1,903,369<br>943,991  | 2,067,044<br>978,037                
   | 2,421,333<br>1,106,634  | 3,128,464 1,354,166   | 3,910,589<br>1,647,846   | 3,825,450<br>1,630,014  | 3,781,449<br>1,612,338  | 3,695,651<br>1.580,745  | 3,579,949<br>1,520,727   | 3,538,839<br>1,498,990  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Females  
   
   
   
  | 581,676   | 667,066  | 815,839  | 843,550  | 959,378   | 1,089,007                           
   | 1,314,699   | 1,774,298   | 2,262,743  | 2,195,436   | 2,169,111   | 2,114,906   | 2,059,222  | 2,039,849   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Part-time  
   
   
   
  | 527,892   | 606,163  | 690,026  | 745,165  | 826,943   | 887,663                             
   | 887,127   | 1,033,351   | 1,501,144  | 1,460,146   | 1,455,857   | 1,444,553   | 1,431,606  | 1,431,324   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Males<br>Females   
   
   
   
  | 326,767<br>201,125  | 331,992<br>274,171   | 332,762<br>357,264   | 341,689<br>403,476   | 360,532<br>466,411  | 364,351<br>523,312                  
   | 364,817<br>522,310  | 401,560 631,791   | 563,753<br>937,391   | 549,206<br>910,940  | 543,276<br>912,581  | 535,343<br>909,210  | 520,957<br>910,649   | 516,650<br>914,674  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Nonprofit 4-year   
   
   
   
  | 2 021 121   |  |  |  |   | | | | | | | | | | | | | | | | | | | | |
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  | 2,021,121   | 2,198,451  | 2,413,693  | 2,463,000  | 2,671,069   | 2,853,890                           
   | 3,050,575   |   | 3,821,799  | 3,939,199   | 3,966,873   | 4,015,882   | 4,028,401  | 4,058,087   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Full-time  
   
   
   
  | 1,494,625   | 1,596,074  | 1,733,014  | 1,727,707  | 1,859,124   | 1,989,457                           
   | 2,226,028   | 2,534,793   | 2,864,640  | 2,957,476   | 2,981,188   | 3,009,240   | 3,019,342  | 3,041,196   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |                      
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| Full-time<br>Males   
   
   
   
  |   |  |  |  |   |
2,853,890<br>1,989,457<br>931,956<br>1,057,501  |   | 2,534,793<br>1,109,075  |  | 2,957,476<br>1,301,864<br>1,655,612   |   |   |  | 3,041,196<br>1,318,203<br>1,722,993  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time<br>Males<br>Females<br>Part-time   
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496  | 1,596,074<br>930,842<br>665,232<br>602,377   | 1,733,014<br>921,253<br>811,761<br>680,679   | 1,727,707<br>894,080<br>833,627<br>735,293   | 1,859,124<br>915,100<br>944,024<br>811,945  |
1,989,457<br>931,956<br>1,057,501<br>864,433  | 2,226,028<br>996,113<br>1,229,915<br>824,547  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377  | 2,864,640<br>1,259,638<br>1,605,002<br>957,159   | 2,957,476<br>1,301,864<br>1,655,612<br>981,723  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642  | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time<br>Males<br>Females<br>Part-time<br>Males  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106   |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942   | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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| Full-time<br>Males<br>Females<br>Part-time   
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496  | 1,596,074<br>930,842<br>665,232<br>602,377   | 1,733,014<br>921,253<br>811,761<br>680,679   | 1,727,707<br>894,080<br>833,627<br>735,293   | 1,859,124<br>915,100<br>944,024<br>811,945  |
1,989,457<br>931,956<br>1,057,501<br>864,433  | 2,226,028<br>996,113<br>1,229,915<br>824,547  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377  | 2,864,640<br>1,259,638<br>1,605,002<br>957,159   | 2,957,476<br>1,301,864<br>1,655,612<br>981,723  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642  | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time<br>Males<br>Females<br>Part-time<br>Males<br>Females<br>For-profit 4-year  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438   | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243  |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322   | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time<br>Males<br>Females<br>Part-time<br>Males<br>Females<br>For-profit 4-year<br><b>2-year</b>   
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911  | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b>   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962   |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047  | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br><b>6,488,055</b>   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379   | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br><b>6,714,678</b><br>2,661,107  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700  | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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| Full-time  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308   | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392  |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br><b>6,488,055</b><br>2,646,802<br>1,153,766   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br><b>6,714,678</b><br>2,661,107<br>1,200,648   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704   | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br><b>6,092,418</b><br>2,309,347<br>1,057,839  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
             |   |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |  
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  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time<br>Males<br>Females<br>Part-time<br>Males<br>For-profit 4-year<br><b>2-year</b><br>Full-time<br>Males<br>Females   
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612  | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570   |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832  | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br><b>6,488,055</b><br>2,646,802<br>1,153,766<br>1,493,036  | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230<br>1,882,149   | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br><b>6,714,678</b><br>2,661,107<br>1,200,648<br>1,460,459  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980  | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308   | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392  |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br><b>6,488,055</b><br>2,646,802<br>1,153,766   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br><b>6,714,678</b><br>2,661,107<br>1,200,648   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704   | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br><b>6,092,418</b><br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
             |   |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |  
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  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time<br>Males<br>Females<br>Part-time<br>Males<br>For-profit 4-year<br>Full-time<br>Full-time<br>Females<br>Part-time   
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470   | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121  |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br><b>6,488,055</b><br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br><b>6,714,678</b><br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br>6,499,461<br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777  | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358  | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,076,078<br>1,079,258  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,3438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744   |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br><b>6,488,055</b><br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651  | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br>6,970,644<br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br><b>6,714,678</b><br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406  | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br><b>6,092,418</b><br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
             |   |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |  
  |  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |   
  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         Full-time         Males         Part-time         Males         Females         Part-time         Males         Part-time         Males         Part-time         Males         Pemales         Pemales         Public 2-year         Full-time  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br><b>4</b> ,328,782<br>1,595,493   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905   | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843  |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016  | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,255,480<br>4,134,370<br>4,134,370<br>4,134,370<br>4,134,372<br>4,556,480<br>4,134,372<br>4,556,480<br>4,134,372<br>4,556,480<br>4,134,372<br>4,556,480<br>4,134,372<br>4,556,480<br>4,134,372<br>4,556,480<br>4,134,372<br>4,556,480<br>4,134,372<br>4,556,480<br>4,134,372<br>4,556,480<br>4,134,372<br>4,556,480<br>4,134,372<br>4,557,480<br>4,557,480<br>4,557,480<br>4,557,480<br>4,557,480<br>4,557,480<br>4,557,480<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>4,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,574<br>5,577,577,577,577,577,577,577,577,577,5 | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br>6,499,461<br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769  | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br><b>6,092,418</b><br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
             |   |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |  
  |  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |   
  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Males  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440  | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905   | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664   |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605  | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029  | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820   | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br>6,970,644<br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633  | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Public 2-year         Males         Females  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701<br>988,701<br>673,920  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br><b>4,328,782</b><br>1,595,493<br>811,871<br>783,622  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232   | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179  |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br><b>5,697,388</b><br>2,000,008<br><b>891,282</b><br>1,108,726   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br><b>6,488,055</b><br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820   | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br>6,970,644<br>2,836,274<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,400<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136   | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,244,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         Full-time         Males         Females         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Part-time         Males         Part-time         Males  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>589,439   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,757,3795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,3438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730   |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>1,549,407   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>2,646,802<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373   | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
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| Full-time       Males         Females       Part-time         Males       Females         For-profit 4-year       Part-time         Full-time       Males         Females       Part-time         Males       Females         Part-time       Males         Females       Part-time         Males       Females         Part-time       Males         Females       Part-time         Public 2-year       Full-time         Males       Females         Part-time       Males  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247  | 1,596,074<br>930,842<br>665,232<br>202,777<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701<br>1,662,621<br>988,701<br>0,673,920<br>2,173,745  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br><b>4</b> ,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>2,772,828   | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632   |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239  | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>2,646,802<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039   | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,255,480<br>4,134,370<br>4,134,370<br>4,134,370<br>4,15,54,480<br>4,134,370<br>4,15,54,480<br>4,145,724<br><b>6</b> ,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>6,61,72<br>1,270,433<br><b>6,714,678</b><br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br>6,499,461<br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535   | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
             |   |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |  
  |  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |   
  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         Full-time         Males         Females         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Females         Pervales         Pervales         Pervales         Pervales         Pervales         Pervales </td <td>1,494,625<br/>914,020<br/>580,605<br/>526,496<br/>325,693<br/>200,803<br/>7,659<br/><b>2,319,385</b><br/>1,228,911<br/>771,299<br/>457,612<br/>1,090,474<br/>603,358<br/>487,116<br/>2,195,412<br/>1,129,165<br/>720,440<br/>408,725<br/>1,066,247<br/>589,439<br/>476,808<br/>123,973</td> <td>1,596,074<br/>930,842<br/>665,232<br/>602,377<br/>329,662<br/>272,715<br/>18,147<br/><b>3,970,119</b><br/>1,761,078<br/>1,035,561<br/>725,517<br/>2,209,041<br/>1,129,783<br/>1,079,258<br/>3,836,366<br/>1,662,621<br/>988,701<br/>673,920<br/>2,173,745<br/>1,107,680<br/>1,066,065<br/>133,753</td> <td>1,733,014<br/>921,253<br/>811,761<br/>680,679<br/>327,986<br/>352,693<br/>28,303<br/><b>4,526,287</b><br/>1,753,795<br/>879,716<br/>874,079<br/>2,772,492<br/>1,167,317<br/>1,605,175<br/><b>4</b>,328,782<br/>1,595,493<br/>811,871<br/>783,622<br/>2,733,289<br/>1,152,268<br/>1,581,021<br/>197,505</td> <td>1,727,707<br/>894,080<br/>833,627<br/>735,293<br/>336,168<br/>399,125<br/>43,3438<br/><b>4,531,077</b><br/>1,690,607<br/>826,308<br/>864,299<br/>2,840,470<br/>1,175,926<br/>1,664,544<br/>4,269,733<br/>1,496,905<br/>742,673<br/>754,232<br/>2,772,828<br/>1,138,011<br/>1,634,817<br/>261,344</td> <td>1,859,124<br/>915,100<br/>944,024<br/>811,945<br/>352,106<br/>459,839<br/>59,243<br/><b>5,240,083</b><br/>1,883,962<br/>1,002,570<br/>3,356,121<br/>1,351,377<br/>2,004,744<br/>4,996,475<br/>1,716,843<br/>810,664<br/>906,179<br/>3,279,632<br/>1,317,730<br/>1,961,902<br/>243,608</td> <td>1,989,457<br/>931,956<br/>1,057,501<br/>864,433<br/>351,874<br/>512,559<br/>100,817<br/><b>5,492,529</b><br/>1,977,047<br/>878,215<br/>1,098,832<br/>3,515,482<br/>2,065,088<br/>5,277,829<br/>1,840,590<br/>818,605<br/>1,021,985<br/>1,221,985<br/>2,437,239<br/>1,417,488<br/>2,019,751<br/>214,700</td> <td>2,226,028<br/>996,113<br/>1,229,915<br/>824,547<br/>332,814<br/>491,733<br/>257,885<br/><b>5,948,431</b><br/>2,217,049<br/>995,841<br/>1,221,208<br/>3,731,382<br/>1,562,759<br/>2,168,623<br/>5,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,380<br/>0,549,407<br/>2,147,973<br/>251,043</td> <td>2,534,793<br/>1,109,075<br/>1,425,718<br/>876,377<br/>339,572<br/>536,805<br/>750,645<br/>2,646,802<br/>1,153,766<br/>1,493,036<br/>3,841,253<br/>1,526,602<br/>2,314,651<br/>6,184,229<br/>2,387,016<br/>1,055,029<br/>1,331,987<br/>3,797,213<br/>1,514,363<br/>2,282,850<br/>303,826</td> <td>2,864,640<br/>1,259,638<br/>1,605,002<br/>957,159<br/>366,735<br/>590,424<br/>1,589,934<br/><b>7,683,597</b><br/>3,365,379<br/>1,483,230<br/>1,882,149<br/>4,318,218<br/>1,782,655<br/>2,535,563<br/>7,218,063<br/>2,950,024<br/>1,340,820<br/>1,609,204<br/>4,268,039<br/>1,769,737<br/>2,498,302<br/>465,534</td> <td>2,957,476<br/>1,301,864<br/>1,655,612<br/>981,723<br/>378,324<br/>603,399<br/>1,346,397<br/><b>6,970,644</b><br/>2,836,274<br/>1,279,794<br/>1,556,480<br/>4,134,370<br/>1,718,646<br/>2,415,724<br/><b>6</b>,626,411<br/>2,532,530<br/>1,177,901<br/>1,354,629<br/>4,093,881<br/>1,707,629<br/>2,386,252<br/>344,233</td> <td>2,981,188<br/>1,313,286<br/>1,667,902<br/>985,685<br/>379,513<br/>6,714,678<br/>2,661,107<br/>1,200,648<br/>1,460,459<br/>4,053,571<br/>1,693,372<br/>2,360,199<br/>6,397,552<br/>2,385,023<br/>1,107,410<br/>1,277,613<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126</td> <td>3,009,240<br/>1,320,947<br/>1,688,293<br/>1,006,642<br/>385,942<br/>620,700<br/>1,124,322<br/><b>6,499,461</b><br/>2,510,684<br/>1,143,704<br/>1,366,980<br/>3,988,777<br/>1,674,371<br/>2,314,406<br/>6,224,304<br/>2,272,769<br/>1,062,633<br/>1,210,136<br/>3,951,535<br/>1,665,373<br/>2,286,162<br/>275,157</td> <td>3,019,342<br/>1,318,323<br/>1,701,019<br/>1,009,059<br/>385,008<br/>624,051<br/>983,154<br/>6,092,418<br/>2,309,347<br/>1,057,839<br/>1,251,508<br/>3,783,071<br/>1,579,555<br/>2,203,516<br/>5,842,909<br/>2,091,361<br/>983,567<br/>1,107,794<br/>3,751,548<br/>1,571,824<br/>2,179,724<br/>249,509</td> <td>3,041,196<br/>1,318,203<br/>1,722,993<br/>1,016,891<br/>389,521<br/>627,370<br/>912,076<br/>5,941,958<br/>2,227,977<br/>1,013,848<br/>1,214,129<br/>3,713,981<br/>1,549,214<br/>2,164,767<br/>5,706,678<br/>2,017,585<br/>946,208<br/>1,071,377<br/>3,689,093<br/>1,542,782<br/>2,146,311<br/>235,280</td>  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br><b>4</b> ,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,3438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608   | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>1,221,985<br>2,437,239<br>1,417,488<br>2,019,751<br>214,700   
   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>0,549,407<br>2,147,973<br>251,043   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br><b>6</b> ,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373<br>2,286,162<br>275,157   | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |  
  |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   |   
  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |  
   |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         For-profit 4-year         Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Females         Pervate         Popart-time         Males  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973<br>99,746   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3</b> ,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,1871<br>783,622<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,361,902<br>243,608<br>167,119   | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br><b>5,492,529</b><br>1,98,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457                                
   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>1,549,407<br>2,147,973<br>251,043<br>217,041  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786  | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br>6,499,461<br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>2,286,162<br>275,157<br>237,915  | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>2,35,280<br>210,392  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |  
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| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         2-year         Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Females         Pate         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Private 2-year         Full-time         Males   
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,066,247<br>5720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973<br>99,746<br>50,859  | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>7,25,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>1,078,820<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457<br>46,860   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,3438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,765,924<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635   | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728   |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610  | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>(1,549,407<br>2,147,973<br>251,043<br>217,041<br>104,559  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737  | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>4,340,820<br>1,609,204<br>4,268,039<br>1,609,204<br>4,268,039<br>1,609,204<br>4,268,039<br>1,609,204<br>4,268,039<br>1,609,534<br>415,355<br>142,410   | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>6,626,411<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br><b>6,714,678</b><br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373<br>2,286,162<br>275,157<br>237,915<br>81,071  | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br><b>6,092,418</b><br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,179,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2,199,824<br>2, | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br><b>5</b> ,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>67,640   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
             |   |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |  
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  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         For-profit 4-year         Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Females         Pervate         Popart-time         Males  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973<br>99,746<br>50,859<br>48,887<br>24,227   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3</b> ,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,1871<br>783,622<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,3438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,361,902<br>243,608<br>167,119   | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br><b>5,492,529</b><br>1,98,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457                                
   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>1,549,407<br>2,147,973<br>251,043<br>217,041  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373<br>2,286,162<br>275,157<br>237,915<br>81,071<br>156,844<br>37,242   | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br><b>6,092,418</b><br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>2,35,280<br>210,392  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |  
  |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   |   
  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |  
   |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Private 2-year         Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Part-time         Males         Part-time         Males         Part-time         Males         Part-time <td>1,494,625<br/>914,020<br/>580,605<br/>522,496<br/>325,693<br/>200,803<br/>7,659<br/><b>2,319,385</b><br/>1,228,911<br/>771,299<br/>457,612<br/>1,090,474<br/>603,358<br/>487,116<br/>2,195,412<br/>1,129,165<br/>720,440<br/>408,725<br/>1,066,247<br/>589,439<br/>476,808<br/>123,973<br/>99,746<br/>50,859<br/>48,887<br/>24,227<br/>13,919</td> <td>1,596,074<br/>930,842<br/>665,232<br/>602,377<br/>329,662<br/>272,715<br/>18,147<br/><b>3,970,119</b><br/>1,761,078<br/>1,035,561<br/>1,225,517<br/>2,209,041<br/>1,129,783<br/>1,079,258<br/><b>3,836,366</b><br/>1,662,621<br/>988,701<br/>673,920<br/>2,173,745<br/>1,107,680<br/>1,066,065<br/>133,753<br/>98,457<br/>46,860<br/>51,597<br/>35,296<br/>22,103</td> <td>1,733,014<br/>921,253<br/>811,761<br/>680,679<br/>327,986<br/>352,693<br/>28,303<br/><b>4,526,287</b><br/>1,753,795<br/>879,716<br/>874,079<br/>2,772,492<br/>1,167,317<br/>1,605,175<br/>4,328,782<br/>2,733,289<br/>1,152,268<br/>1,581,021<br/>197,505<br/>158,302<br/>67,845<br/>90,457<br/>39,203<br/>15,049</td> <td>1,727,707<br/>894,080<br/>833,627<br/>735,293<br/>336,168<br/>399,125<br/>43,438<br/><b>4,531,077</b><br/>1,690,607<br/>826,308<br/>864,299<br/>2,840,470<br/>1,175,926<br/>1,664,544<br/>4,269,733<br/>1,496,905<br/>742,673<br/>754,232<br/>2,772,828<br/>1,138,011<br/>1,634,817<br/>261,344<br/>193,702<br/>83,635<br/>110,067<br/>67,642<br/>37,915</td> <td>1,859,124<br/>915,100<br/>944,024<br/>811,945<br/>352,106<br/>459,839<br/>59,243<br/><b>5,240,083</b><br/>1,883,962<br/>881,392<br/>1,002,570<br/>3,356,121<br/>1,351,377<br/>2,004,744<br/>4,996,475<br/>1,716,843<br/>810,664<br/>906,179<br/>3,279,632<br/>1,317,730<br/>1,961,902<br/>243,608<br/>167,119<br/>70,728<br/>96,391<br/>76,489<br/>33,647</td> <td>1,989,457<br/>931,956<br/>1,057,501<br/>864,433<br/>351,874<br/>512,559<br/>100,817<br/><b>5,492,529</b><br/>1,977,047<br/>878,215<br/>1,098,832<br/>3,515,482<br/>1,450,394<br/>2,065,088<br/>5,277,829<br/>1,840,590<br/>818,605<br/>1,021,985<br/>3,437,239<br/>1,417,488<br/>2,019,751<br/>214,700<br/>136,457<br/>59,610<br/>76,847<br/>78,243<br/>32,906</td> <td>2,226,028<br/>996,113<br/>1,229,915<br/>824,547<br/>332,814<br/>491,733<br/>257,885<br/><b>5,948,431</b><br/>2,217,049<br/>995,841<br/>1,221,208<br/>3,731,382<br/>1,562,759<br/>2,168,623<br/>5,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,380<br/>2,51,043<br/>2,147,973<br/>2,51,043<br/>217,041<br/>104,559<br/>112,482<br/>34,002<br/>13,352</td> <td>2,534,793<br/>1,109,075<br/>1,425,718<br/>876,377<br/>339,572<br/>536,805<br/>750,645<br/>2,646,802<br/>1,153,766<br/>1,493,036<br/>3,841,253<br/>1,526,602<br/>2,314,651<br/>6,184,229<br/>2,387,016<br/>1,055,029<br/>1,331,987<br/>3,797,213<br/>1,514,363<br/>2,282,850<br/>303,826<br/>259,786<br/>98,737<br/>161,049<br/>44,040<br/>12,239</td> <td>2,864,640<br/>1,259,638<br/>1,605,002<br/>957,159<br/>366,735<br/>590,424<br/>1,589,934<br/>7,683,597<br/>3,365,379<br/>1,483,230<br/>1,882,149<br/>4,318,218<br/>1,782,655<br/>2,535,563<br/>7,218,063<br/>2,950,024<br/>1,340,820<br/>1,609,204<br/>4,268,039<br/>1,769,737<br/>2,498,302<br/>465,534<br/>465,534<br/>415,355<br/>142,410<br/>272,945<br/>50,179<br/>12,918</td> <td>2,957,476<br/>1,301,864<br/>1,655,612<br/>981,723<br/>378,324<br/>603,399<br/>1,346,397<br/><b>6,970,644</b><br/>2,836,274<br/>1,279,794<br/>1,556,480<br/>4,134,370<br/>1,718,646<br/>2,415,724<br/>6,626,411<br/>2,532,530<br/>1,177,901<br/>1,354,629<br/>4,093,881<br/>1,707,629<br/>2,386,252<br/>344,233<br/>303,744<br/>101,893<br/>201,851<br/>40,489<br/>11,017</td> <td>2,981,188<br/>1,313,286<br/>1,667,902<br/>985,685<br/>379,513<br/>606,172<br/>1,270,433<br/><b>6,714,678</b><br/>2,661,107<br/>1,200,648<br/>1,460,459<br/>4,053,571<br/>1,693,372<br/>2,360,199<br/>6,397,552<br/>2,385,023<br/>1,107,410<br/>1,277,613<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>93,238<br/>182,846<br/>41,042<br/>10,123</td> <td>3,009,240<br/>1,320,947<br/>1,688,293<br/>1,006,642<br/>385,942<br/>620,700<br/>1,124,322<br/><b>6,499,461</b><br/>2,510,684<br/>1,143,704<br/>1,366,980<br/>3,988,777<br/>1,674,371<br/>2,314,406<br/>6,224,304<br/>2,272,769<br/>1,062,633<br/>1,210,136<br/>3,951,535<br/>1,665,373<br/>2,286,162<br/>2,75,157<br/>237,915<br/>81,071<br/>156,844<br/>37,242<br/>8,998</td> <td>3,019,342<br/>1,318,323<br/>1,701,019<br/>385,008<br/>624,051<br/>983,154<br/>6,092,418<br/>2,309,347<br/>1,057,839<br/>1,251,508<br/>3,783,071<br/>1,577,555<br/>2,203,516<br/>5,842,909<br/>2,091,361<br/>983,567<br/>1,107,794<br/>3,751,548<br/>1,571,824<br/>2,179,724<br/>249,509<br/>217,986<br/>74,272<br/>143,714<br/>31,523<br/>7,731</td> <td>3,041,196<br/>1,318,203<br/>1,722,993<br/>1,016,891<br/>389,521<br/>627,370<br/>912,076<br/><b>5,941,958</b><br/>2,227,977<br/>1,013,848<br/>1,214,129<br/>3,713,981<br/>1,549,214<br/>2,164,767<br/>5,706,678<br/>2,017,585<br/>946,208<br/>1,071,377<br/>3,689,093<br/>1,542,782<br/>2,146,311<br/>2,35,280<br/>210,392<br/>67,640<br/>142,752<br/>24,888<br/>6,432</td>  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>522,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973<br>99,746<br>50,859<br>48,887<br>24,227<br>13,919   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>1,225,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3,836,366</b><br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915   | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647   | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243<br>32,906
   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>2,51,043<br>2,147,973<br>2,51,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918   | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br><b>6,714,678</b><br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373<br>2,286,162<br>2,75,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998   | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>2,35,280<br>210,392<br>67,640<br>142,752<br>24,888<br>6,432   
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |  
  |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   |   
  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |  
   |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         For-profit 4-year         Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Private 2-year         Full-time         Males         Females         Private 2-year         Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Females         Females         Females <tr td=""> <td>1,494,625<br/>914,020<br/>580,605<br/>526,496<br/>325,693<br/>200,803<br/>7,659<br/><b>2,319,385</b><br/>1,228,911<br/>771,299<br/>457,612<br/>1,090,474<br/>603,358<br/>487,116<br/>2,195,412<br/>1,129,165<br/>720,440<br/>408,725<br/>1,066,247<br/>589,439<br/>476,808<br/>123,973<br/>99,746<br/>50,859<br/>48,887<br/>24,227</td><td>1,596,074<br/>930,842<br/>665,232<br/>602,377<br/>329,662<br/>272,715<br/>18,147<br/><b>3,970,119</b><br/>1,761,078<br/>1,035,561<br/>725,517<br/>2,209,041<br/>1,129,783<br/>1,079,258<br/><b>3</b>,836,366<br/>1,662,621<br/>988,701<br/>673,920<br/>2,173,745<br/>1,107,680<br/>1,066,065<br/>133,753<br/>98,457<br/>46,860<br/>51,597<br/>35,296</td><td>1,733,014<br/>921,253<br/>811,761<br/>680,679<br/>327,986<br/>352,693<br/>28,303<br/><b>4,526,287</b><br/>1,757,3795<br/>879,716<br/>874,079<br/>2,772,492<br/>1,167,317<br/>1,605,175<br/>4,328,782<br/>1,595,493<br/>811,871<br/>783,622<br/>2,733,289<br/>1,152,268<br/>1,581,021<br/>197,505<br/>158,302<br/>67,845<br/>90,457<br/>39,203</td><td>1,727,707<br/>894,080<br/>833,627<br/>735,293<br/>336,168<br/>399,125<br/>43,3438<br/><b>4,531,077</b><br/>1,690,607<br/>826,308<br/>864,299<br/>2,840,470<br/>1,175,926<br/>1,664,544<br/>4,269,733<br/>1,496,905<br/>742,673<br/>754,232<br/>2,772,828<br/>1,138,011<br/>1,634,817<br/>261,344<br/>193,702<br/>83,635<br/>110,067<br/>67,642</td><td>1,859,124<br/>915,100<br/>944,024<br/>811,945<br/>352,106<br/>459,839<br/>59,243<br/><b>5,240,083</b><br/>1,883,962<br/>881,392<br/>1,002,570<br/>3,356,121<br/>1,351,377<br/>2,004,744<br/>4,996,475<br/>1,716,843<br/>810,664<br/>906,179<br/>3,279,632<br/>1,317,730<br/>1,961,902<br/>243,608<br/>167,119<br/>70,728<br/>96,391<br/>76,489</td><td>1,989,457<br/>931,956<br/>1,057,501<br/>864,433<br/>351,874<br/>512,559<br/>100,817<br/><b>5,492,529</b><br/>1,977,047<br/>878,215<br/>1,098,832<br/>3,515,482<br/>1,450,394<br/>2,065,088<br/>5,277,829<br/>1,840,590<br/>818,605<br/>1,021,985<br/>3,437,239<br/>1,417,488<br/>2,019,751<br/>214,700<br/>136,457<br/>59,610<br/>76,847<br/>78,243</td><td>2,226,028<br/>996,113<br/>1,229,915<br/>824,547<br/>332,814<br/>491,733<br/>257,885<br/><b>5,948,431</b><br/>2,217,049<br/>995,841<br/>1,221,208<br/>3,731,382<br/>1,562,759<br/>2,168,623<br/>5,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,388<br/>2,000,008<br/>891,282<br/>1,562,759<br/>2,164,407<br/>2,147,973<br/>251,043<br/>217,041<br/>104,559<br/>112,482<br/>34,002</td><td>2,534,793<br/>1,109,075<br/>1,425,718<br/>876,377<br/>339,572<br/>536,805<br/>750,645<br/>2,646,802<br/>1,153,766<br/>1,493,036<br/>3,841,253<br/>1,526,602<br/>2,314,651<br/>6,184,229<br/>2,387,016<br/>1,055,029<br/>1,331,987<br/>3,797,213<br/>1,514,363<br/>2,282,850<br/>303,826<br/>259,786<br/>98,737<br/>161,049<br/>44,040</td><td>2,864,640<br/>1,259,638<br/>1,605,002<br/>957,159<br/>366,735<br/>590,424<br/>1,589,934<br/>7,683,597<br/>3,365,379<br/>4,483,230<br/>1,882,149<br/>4,318,218<br/>1,782,655<br/>2,535,563<br/>7,218,063<br/>2,950,024<br/>1,340,820<br/>1,609,204<br/>4,268,039<br/>1,769,737<br/>2,498,302<br/>465,534<br/>415,355<br/>142,410<br/>272,945<br/>50,179</td><td>2,957,476<br/>1,301,864<br/>1,655,612<br/>981,723<br/>378,324<br/>603,399<br/>1,346,397<br/><b>6,970,644</b><br/>2,836,274<br/>1,279,794<br/>1,556,480<br/>4,134,370<br/>1,718,646<br/>2,415,724<br/>6,626,411<br/>2,532,530<br/>1,177,901<br/>1,354,629<br/>4,093,881<br/>1,707,629<br/>2,386,252<br/>344,233<br/>303,744<br/>101,893<br/>201,851<br/>40,489</td><td>2,981,188<br/>1,313,286<br/>1,667,902<br/>985,685<br/>379,513<br/>6,714,678<br/>2,661,107<br/>1,270,433<br/>6,714,678<br/>2,661,107<br/>1,200,648<br/>1,460,459<br/>4,053,571<br/>1,693,372<br/>2,360,199<br/>6,397,552<br/>2,385,023<br/>1,107,410<br/>1,277,613<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>93,238<br/>182,846<br/>41,042</td><td>3,009,240<br/>1,320,947<br/>1,688,293<br/>1,006,642<br/>385,942<br/>620,700<br/>1,124,322<br/><b>6,499,461</b><br/>2,510,684<br/>1,143,704<br/>1,366,980<br/>3,988,777<br/>1,674,371<br/>2,314,406<br/>6,224,304<br/>2,272,769<br/>1,062,633<br/>1,210,136<br/>3,951,535<br/>1,665,373<br/>2,286,162<br/>275,157<br/>237,915<br/>81,071<br/>156,844<br/>37,242</td><td>3,019,342<br/>1,318,323<br/>1,701,019<br/>1,009,059<br/>385,008<br/>624,051<br/>983,154<br/>6,092,418<br/>2,309,347<br/>1,057,839<br/>1,251,508<br/>3,783,071<br/>1,577,855<br/>2,203,516<br/>5,842,909<br/>2,091,361<br/>983,567<br/>1,107,794<br/>3,751,548<br/>1,571,824<br/>2,179,724<br/>249,509<br/>217,986<br/>74,272<br/>143,714<br/>31,523</td><td>3,041,196<br/>1,318,203<br/>1,722,993<br/>1,016,891<br/>389,521<br/>627,370<br/>912,076<br/><b>5,941,958</b><br/>2,227,977<br/>1,013,848<br/>1,214,129<br/>3,713,981<br/>1,549,214<br/>2,164,767<br/>5,706,678<br/>2,017,585<br/>946,208<br/>1,071,377<br/>3,689,093<br/>1,542,782<br/>2,146,311<br/>235,280<br/>210,392<br/>6,76,40<br/>142,752<br/>24,888</td></tr> <tr><td>Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         <b>2-year</b>         Full-time         Males         Females         Part-time         Males         Females         Part-time     
&lt;</td><td>1,494,625<br/>914,020<br/>580,605<br/>526,496<br/>325,693<br/>200,803<br/>7,659<br/><b>2,319,385</b><br/>1,228,911<br/>771,299<br/>457,612<br/>1,090,474<br/>603,358<br/>487,116<br/>2,195,412<br/>1,129,165<br/>720,440<br/>408,725<br/>1,066,247<br/>1,289,439<br/>476,808<br/>123,973<br/>99,746<br/>50,859<br/>48,887<br/>24,227<br/>13,919<br/>10,308<br/>113,299</td><td>1,596,074<br/>930,842<br/>665,232<br/>602,377<br/>329,662<br/>272,715<br/>18,147<br/><b>3,970,119</b><br/>1,761,078<br/>1,035,561<br/>725,517<br/>2,209,041<br/>1,129,783<br/>1,079,258<br/><b>3</b>,836,366<br/>1,662,621<br/>988,701<br/>673,920<br/>2,173,745<br/>1,107,680<br/>1,33,753<br/>98,457<br/>46,860<br/>51,597<br/>35,296<br/>22,103<br/>13,193<br/>112,997</td><td>1,733,014<br/>921,253<br/>811,761<br/>680,679<br/>327,986<br/>352,693<br/>28,303<br/><b>4,526,287</b><br/>1,753,795<br/>879,716<br/>874,079<br/>2,772,492<br/>1,605,175<br/>4,328,782<br/>1,595,493<br/>811,871<br/>783,622<br/>2,733,289<br/>1,152,268<br/>1,581,021<br/>197,505<br/>158,302<br/>67,845<br/>90,457<br/>39,203<br/>15,049<br/>24,154<br/>114,094</td><td>1,727,707<br/>894,080<br/>833,627<br/>735,293<br/>336,168<br/>399,125<br/>43,438<br/><b>4,531,077</b><br/>1,690,607<br/>826,308<br/>864,299<br/>2,840,470<br/>1,175,926<br/>1,664,544<br/>4,269,733<br/>1,496,905<br/>742,673<br/>754,232<br/>2,772,828<br/>1,138,011<br/>1,634,817<br/>261,344<br/>193,702<br/>83,635<br/>110,067<br/>67,642<br/>37,915<br/>29,727<br/>108,791</td><td>1,859,124<br/>915,100<br/>944,024<br/>811,945<br/>352,106<br/>459,839<br/>59,243<br/><b>5,240,083</b><br/>1,883,962<br/>881,392<br/>1,002,570<br/>3,356,121<br/>1,351,377<br/>2,004,744<br/>4,996,475<br/>1,716,843<br/>810,664<br/>906,179<br/>3,279,632<br/>1,317,730<br/>1,961,902<br/>243,608<br/>167,119<br/>70,728<br/>96,391<br/>76,489<br/>33,647<br/>42,842<br/>89,158</td><td>1,989,457<br/>931,956<br/>1,057,501<br/>864,433<br/>351,874<br/>512,559<br/>100,817<br/><b>5,492,529</b><br/>1,977,047<br/><b>5,492,529</b><br/>1,98,832<br/>3,515,482<br/>1,450,394<br/>2,065,088<br/>5,277,829<br/>1,840,590<br/>818,605<br/>1,021,985<br/>3,437,239<br/>1,417,488<br/>2,019,751<br/>214,700<br/>136,457<br/>59,610<br/>76,847<br/>78,243<br/>32,906<br/>45,337<br/>75,154</td><td>2,226,028<br/>996,113<br/>1,229,915<br/>824,547<br/>332,814<br/>491,733<br/>257,885<br/><b>5,948,431</b><br/>2,217,049<br/>995,841<br/>1,221,208<br/>3,731,382<br/>1,562,759<br/>2,168,623<br/>5,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,380<br/>1,549,407<br/>2,147,973<br/>2,51,043<br/>217,041<br/>104,559<br/>112,482<br/>34,002<br/>13,352<br/>20,650<br/>58,844</td><td>2,534,793<br/>1,109,075<br/>1,425,718<br/>876,377<br/>339,572<br/>536,805<br/>750,645<br/>2,646,802<br/>1,153,766<br/>1,493,036<br/>3,841,253<br/>1,526,602<br/>2,314,651<br/>6,184,229<br/>2,387,016<br/>1,055,029<br/>1,331,987<br/>3,797,213<br/>1,514,363<br/>2,282,850<br/>303,826<br/>259,786<br/>98,737<br/>161,049<br/>44,040<br/>12,239<br/>31,801<br/>43,522</td><td>2,864,640<br/>1,259,638<br/>1,605,002<br/>957,159<br/>366,735<br/>590,424<br/>1,589,934<br/>7,683,597<br/>3,365,379<br/>1,483,230<br/>1,882,149<br/>4,318,218<br/>1,782,655<br/>2,535,563<br/>7,218,063<br/>2,950,024<br/>1,340,820<br/>1,609,204<br/>4,268,039<br/>1,769,737<br/>2,498,302<br/>465,534<br/>415,355<br/>142,410<br/>272,945<br/>50,179<br/>12,918<br/>37,261<br/>32,683</td><td>2,957,476<br/>1,301,864<br/>1,655,612<br/>981,723<br/>378,324<br/>603,399<br/>1,346,397<br/><b>6,970,644</b><br/>2,836,274<br/>1,279,794<br/>1,556,480<br/>4,134,370<br/>1,718,646<br/>2,415,724<br/>6,626,411<br/>2,532,530<br/>1,177,901<br/>1,354,629<br/>4,093,881<br/>1,707,629<br/>2,386,252<br/>344,233<br/>303,744<br/>101,893<br/>201,851<br/>40,489<br/>11,017<br/>29,472<br/>32,191</td><td>2,981,188<br/>1,313,286<br/>1,667,902<br/>985,685<br/>379,513<br/>606,172<br/>1,270,433<br/>6,714,678<br/>2,661,107<br/>1,200,648<br/>1,460,459<br/>4,053,571<br/>1,693,372<br/>2,385,023<br/>1,107,410<br/>1,277,613<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>93,238<br/>182,846<br/>41,042<br/>10,123<br/>30,919<br/>30,376</td><td>3,009,240<br/>1,320,947<br/>1,688,293<br/>1,006,642<br/>385,942<br/>620,700<br/>1,124,322<br/>6,499,461<br/>2,510,684<br/>1,143,704<br/>1,366,980<br/>3,988,777<br/>1,674,371<br/>2,314,406<br/>6,224,304<br/>2,272,769<br/>1,062,633<br/>1,210,136<br/>3,951,535<br/>2,286,162<br/>2,75,157<br/>237,915<br/>81,071<br/>156,844<br/>37,242<br/>8,998<br/>28,244<br/>50,009</td><td>3,019,342<br/>1,318,323<br/>1,701,019<br/>385,008<br/>624,051<br/>983,154<br/>6,092,418<br/>2,309,347<br/>1,057,839<br/>1,251,508<br/>3,783,071<br/>1,577,855<br/>2,203,516<br/>5,842,909<br/>2,091,361<br/>983,567<br/>1,107,794<br/>3,751,548<br/>1,571,824<br/>2,179,724<br/>249,509<br/>217,986<br/>74,272<br/>143,714<br/>31,523<br/>7,731<br/>23,792<br/>50,555</td><td>3,041,196<br/>1,318,203<br/>1,722,993<br/>1,016,891<br/>389,521<br/>627,370<br/>912,076<br/><b>5,941,958</b><br/>2,227,977<br/>1,013,848<br/>1,214,129<br/>3,713,981<br/>1,549,214<br/>2,164,767<br/>5,706,678<br/>2,017,585<br/>946,208<br/>1,071,377<br/>3,689,093<br/>1,542,782<br/>2,146,311<br/>235,280<br/>210,392<br/>67,640<br/>142,752<br/>24,888<br/>6,432<br/>18,456<br/>48,390</td></tr> <tr><td>Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         <b>2-year</b>         Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males        
Females</td><td>1,494,625<br/>914,020<br/>580,605<br/>526,496<br/>325,693<br/>200,803<br/>7,659<br/><b>2,319,385</b><br/>1,228,911<br/>771,299<br/>457,612<br/>1,090,474<br/>603,358<br/>487,116<br/>2,195,412<br/>1,109,474<br/>603,358<br/>487,116<br/>2,195,412<br/>1,066,247<br/>5720,440<br/>408,725<br/>1,066,247<br/>589,439<br/>476,808<br/>123,973<br/>99,746<br/>50,859<br/>48,887<br/>24,227<br/>13,919<br/>10,308<br/>113,299<br/>91,514</td><td>1,596,074<br/>930,842<br/>665,232<br/>602,377<br/>329,662<br/>272,715<br/>18,147<br/><b>3,970,119</b><br/>1,761,078<br/>1,078,25,517<br/>2,209,041<br/>1,129,783<br/>1,079,258<br/><b>3,836,366</b><br/>1,662,621<br/>1,076,800<br/>1,066,065<br/>133,753<br/>98,457<br/>46,860<br/>51,597<br/>35,296<br/>22,103<br/>13,193<br/>112,997<br/>82,158</td><td>1,733,014<br/>921,253<br/>811,761<br/>680,679<br/>327,986<br/>352,693<br/>28,303<br/><b>4,526,287</b><br/>1,753,795<br/>879,716<br/>874,079<br/>2,772,492<br/>1,167,317<br/>1,605,175<br/>4,328,782<br/>1,595,493<br/>811,871<br/>783,622<br/>2,733,289<br/>1,552,268<br/>1,581,021<br/>197,505<br/>158,302<br/>67,845<br/>90,457<br/>39,203<br/>15,049<br/>24,154</td><td>1,727,707<br/>894,080<br/>833,627<br/>735,293<br/>336,168<br/>399,125<br/>43,438<br/><b>4,531,077</b><br/>1,690,607<br/>826,308<br/>864,299<br/>2,840,470<br/>1,75,926<br/>1,664,544<br/>4,269,733<br/>1,496,905<br/>742,673<br/>754,232<br/>2,772,828<br/>1,138,011<br/>1,634,817<br/>261,344<br/>193,702<br/>83,635<br/>110,067<br/>67,642<br/>37,915<br/>29,727</td><td>1,859,124<br/>915,100<br/>944,024<br/>811,945<br/>352,106<br/>459,839<br/>59,243<br/><b>5,240,083</b><br/>1,883,962<br/>881,392<br/>1,002,570<br/>3,356,121<br/>1,351,377<br/>2,004,744<br/>4,996,475<br/>1,716,843<br/>810,664<br/>906,179<br/>3,279,632<br/>1,317,730<br/>1,961,902<br/>243,608<br/>167,119<br/>70,728<br/>96,391<br/>76,489<br/>33,647<br/>42,842<br/>89,158<br/>62,003</td><td>1,989,457<br/>931,956<br/>1,057,501<br/>864,433<br/>351,874<br/>512,559<br/>100,817<br/><b>5,492,529</b><br/>1,977,047<br/>878,215<br/>1,098,832<br/>3,515,482<br/>1,450,394<br/>2,065,088<br/>5,277,829<br/>1,840,590<br/>818,605<br/>1,021,985<br/>3,437,239<br/>1,417,488<br/>2,019,751<br/>214,700<br/>136,457<br/>59,610<br/>76,847<br/>78,243<br/>32,906<br/>45,337</td><td>2,226,028<br/>996,113<br/>1,229,915<br/>824,547<br/>332,814<br/>491,733<br/>257,885<br/><b>5,948,431</b><br/>2,217,049<br/>995,841<br/>1,221,208<br/>3,731,382<br/>1,562,759<br/>2,168,623<br/>5,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,380<br/>1,549,407<br/>2,147,973<br/>251,043<br/>217,041<br/>104,559<br/>112,482<br/>34,002<br/>13,352<br/>20,650<br/>58,844<br/>46,670</td><td>2,534,793<br/>1,109,075<br/>1,425,718<br/>876,377<br/>339,572<br/>536,805<br/><b>6,488,055</b><br/>2,646,802<br/>1,153,766<br/>1,493,036<br/>3,841,253<br/>1,526,602<br/>2,314,651<br/>6,184,229<br/>2,387,016<br/>1,055,029<br/>1,331,987<br/>3,797,213<br/>1,514,363<br/>2,282,850<br/>303,826<br/>259,786<br/>98,737<br/>161,049<br/>44,040<br/>12,239<br/>31,801</td><td>2,864,640<br/>1,259,638<br/>1,605,002<br/>957,159<br/>366,735<br/>590,424<br/>1,589,934<br/>7,683,597<br/>3,365,379<br/>1,483,230<br/>1,882,149<br/>4,318,218<br/>1,782,655<br/>2,535,563<br/>7,218,063<br/>2,950,024<br/>4,348,302<br/>1,609,204<br/>4,268,039<br/>1,769,737<br/>2,498,302<br/>465,534<br/>415,355<br/>142,410<br/>272,945<br/>50,179<br/>12,918<br/>37,261<br/>32,683<br/>23,127</td><td>2,957,476<br/>1,301,864<br/>1,655,612<br/>981,723<br/>378,324<br/>603,399<br/>1,346,397<br/>6,970,644<br/>2,836,274<br/>1,279,794<br/>1,556,480<br/>4,134,370<br/>1,718,646<br/>2,415,724<br/>6,626,411<br/>2,532,530<br/>4,093,881<br/>1,707,629<br/>4,093,881<br/>1,707,629<br/>2,386,252<br/>344,233<br/>303,744<br/>101,893<br/>201,851<br/>40,489<br/>11,017<br/>29,472<br/>32,191<br/>24,097</td><td>2,981,188<br/>1,313,286<br/>1,667,902<br/>985,685<br/>379,513<br/>606,172<br/>1,270,433<br/>6,714,678<br/>2,661,107<br/>1,200,648<br/>1,460,459<br/>4,053,571<br/>1,693,372<br/>2,360,199<br/>6,397,552<br/>2,385,023<br/>1,107,410<br/>1,277,613<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>93,238<br/>182,846<br/>41,042<br/>10,123<br/>30,919<br/>30,376<br/>22,789</td><td>3,009,240<br/>1,320,947<br/>1,688,293<br/>1,006,642<br/>385,942<br/>620,700<br/>1,124,322<br/><b>6,499,461</b><br/>2,510,684<br/>1,143,704<br/>1,366,980<br/>3,988,777<br/>1,674,371<br/>2,314,406<br/>6,224,304<br/>2,272,769<br/>6,224,304<br/>2,272,769<br/>1,062,633<br/>1,210,136<br/>3,951,535<br/>1,665,373<br/>2,286,162<br/>275,157<br/>237,915<br/>81,071<br/>156,844<br/>37,242<br/>8,998<br/>28,244<br/>50,009<br/>36,027</td><td>3,019,342<br/>1,318,323<br/>1,701,019<br/>385,008<br/>624,051<br/>983,154<br/>983,154<br/>2,309,347<br/>1,057,839<br/>1,251,508<br/>3,783,071<br/>1,579,555<br/>2,203,516<br/>5,842,909<br/>2,091,361<br/>983,567<br/>1,107,794<br/>3,751,548<br/>1,571,824<br/>2,179,724<br/>2,49,509<br/>217,986<br/>74,272<br/>143,714<br/>31,523<br/>7,731<br/>23,792<br/>50,555<br/>39,513</td><td>3,041,196<br/>1,318,203<br/>1,722,993<br/>389,521<br/>627,370<br/>912,076<br/>5,941,958<br/>2,227,977<br/>1,013,848<br/>1,214,129<br/>3,713,981<br/>1,549,214<br/>2,164,767<br/>5,706,678<br/>2,017,585<br/>946,208<br/>1,071,377<br/>3,689,093<br/>1,542,782<br/>2,146,311<br/>235,280<br/>210,392<br/>67,640<br/>142,752<br/>24,888<br/>6,432<br/>18,456</td></tr> <tr><td>Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         <b>2-year</b>         Full-time         Males         Females         Part-time         Males         Females         Part-time     
&lt;</td><td>1,494,625<br/>914,020<br/>580,605<br/>526,496<br/>325,693<br/>200,803<br/>7,659<br/><b>2,319,385</b><br/>1,228,911<br/>771,299<br/>457,612<br/>1,090,474<br/>603,358<br/>487,116<br/>2,195,412<br/>1,129,165<br/>720,440<br/>408,725<br/>1,066,247<br/>1,289,439<br/>476,808<br/>123,973<br/>99,746<br/>50,859<br/>48,887<br/>24,227<br/>13,919<br/>10,308<br/>113,299</td><td>1,596,074<br/>930,842<br/>665,232<br/>602,377<br/>329,662<br/>272,715<br/>18,147<br/><b>3,970,119</b><br/>1,761,078<br/>1,035,561<br/>725,517<br/>2,209,041<br/>1,129,783<br/>1,079,258<br/><b>3</b>,836,366<br/>1,662,621<br/>988,701<br/>673,920<br/>2,173,745<br/>1,107,680<br/>1,33,753<br/>98,457<br/>46,860<br/>51,597<br/>35,296<br/>22,103<br/>13,193<br/>112,997</td><td>1,733,014<br/>921,253<br/>811,761<br/>680,679<br/>327,986<br/>352,693<br/>28,303<br/><b>4,526,287</b><br/>1,753,795<br/>879,716<br/>874,079<br/>2,772,492<br/>1,605,175<br/>4,328,782<br/>1,595,493<br/>811,871<br/>783,622<br/>2,733,289<br/>1,152,268<br/>1,581,021<br/>197,505<br/>158,302<br/>67,845<br/>90,457<br/>39,203<br/>15,049<br/>24,154<br/>114,094</td><td>1,727,707<br/>894,080<br/>833,627<br/>735,293<br/>336,168<br/>399,125<br/>43,438<br/><b>4,531,077</b><br/>1,690,607<br/>826,308<br/>864,299<br/>2,840,470<br/>1,175,926<br/>1,664,544<br/>4,269,733<br/>1,496,905<br/>742,673<br/>754,232<br/>2,772,828<br/>1,138,011<br/>1,634,817<br/>261,344<br/>193,702<br/>83,635<br/>110,067<br/>67,642<br/>37,915<br/>29,727<br/>108,791</td><td>1,859,124<br/>915,100<br/>944,024<br/>811,945<br/>352,106<br/>459,839<br/>59,243<br/><b>5,240,083</b><br/>1,883,962<br/>881,392<br/>1,002,570<br/>3,356,121<br/>1,351,377<br/>2,004,744<br/>4,996,475<br/>1,716,843<br/>810,664<br/>906,179<br/>3,279,632<br/>1,317,730<br/>1,961,902<br/>243,608<br/>167,119<br/>70,728<br/>96,391<br/>76,489<br/>33,647<br/>42,842<br/>89,158</td><td>1,989,457<br/>931,956<br/>1,057,501<br/>864,433<br/>351,874<br/>512,559<br/>100,817<br/><b>5,492,529</b><br/>1,977,047<br/><b>5,492,529</b><br/>1,98,832<br/>3,515,482<br/>1,450,394<br/>2,065,088<br/>5,277,829<br/>1,840,590<br/>818,605<br/>1,021,985<br/>3,437,239<br/>1,417,488<br/>2,019,751<br/>214,700<br/>136,457<br/>59,610<br/>76,847<br/>78,243<br/>32,906<br/>45,337<br/>75,154</td><td>2,226,028<br/>996,113<br/>1,229,915<br/>824,547<br/>332,814<br/>491,733<br/>257,885<br/><b>5,948,431</b><br/>2,217,049<br/>995,841<br/>1,221,208<br/>3,731,382<br/>1,562,759<br/>2,168,623<br/>5,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,380<br/>1,549,407<br/>2,147,973<br/>2,51,043<br/>217,041<br/>104,559<br/>112,482<br/>34,002<br/>13,352<br/>20,650<br/>58,844</td><td>2,534,793<br/>1,109,075<br/>1,425,718<br/>876,377<br/>339,572<br/>536,805<br/>750,645<br/>2,646,802<br/>1,153,766<br/>1,493,036<br/>3,841,253<br/>1,526,602<br/>2,314,651<br/>6,184,229<br/>2,387,016<br/>1,055,029<br/>1,331,987<br/>3,797,213<br/>1,514,363<br/>2,282,850<br/>303,826<br/>259,786<br/>98,737<br/>161,049<br/>44,040<br/>12,239<br/>31,801<br/>43,522</td><td>2,864,640<br/>1,259,638<br/>1,605,002<br/>957,159<br/>366,735<br/>590,424<br/>1,589,934<br/>7,683,597<br/>3,365,379<br/>1,483,230<br/>1,882,149<br/>4,318,218<br/>1,782,655<br/>2,535,563<br/>7,218,063<br/>2,950,024<br/>1,340,820<br/>1,609,204<br/>4,268,039<br/>1,769,737<br/>2,498,302<br/>465,534<br/>415,355<br/>142,410<br/>272,945<br/>50,179<br/>12,918<br/>37,261<br/>32,683</td><td>2,957,476<br/>1,301,864<br/>1,655,612<br/>981,723<br/>378,324<br/>603,399<br/>1,346,397<br/><b>6,970,644</b><br/>2,836,274<br/>1,279,794<br/>1,556,480<br/>4,134,370<br/>1,718,646<br/>2,415,724<br/>6,626,411<br/>2,532,530<br/>1,177,901<br/>1,354,629<br/>4,093,881<br/>1,707,629<br/>2,386,252<br/>344,233<br/>303,744<br/>101,893<br/>201,851<br/>40,489<br/>11,017<br/>29,472<br/>32,191</td><td>2,981,188<br/>1,313,286<br/>1,667,902<br/>985,685<br/>379,513<br/>606,172<br/>1,270,433<br/>6,714,678<br/>2,661,107<br/>1,200,648<br/>1,460,459<br/>4,053,571<br/>1,693,372<br/>2,385,023<br/>1,107,410<br/>1,277,613<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>93,238<br/>182,846<br/>41,042<br/>10,123<br/>30,919<br/>30,376</td><td>3,009,240<br/>1,320,947<br/>1,688,293<br/>1,006,642<br/>385,942<br/>620,700<br/>1,124,322<br/>6,499,461<br/>2,510,684<br/>1,143,704<br/>1,366,980<br/>3,988,777<br/>1,674,371<br/>2,314,406<br/>6,224,304<br/>2,272,769<br/>1,062,633<br/>1,210,136<br/>3,951,535<br/>2,286,162<br/>2,75,157<br/>237,915<br/>81,071<br/>156,844<br/>37,242<br/>8,998<br/>28,244<br/>50,009</td><td>3,019,342<br/>1,318,323<br/>1,701,019<br/>385,008<br/>624,051<br/>983,154<br/>6,092,418<br/>2,309,347<br/>1,057,839<br/>1,251,508<br/>3,783,071<br/>1,577,855<br/>2,203,516<br/>5,842,909<br/>2,091,361<br/>983,567<br/>1,107,794<br/>3,751,548<br/>1,571,824<br/>2,179,724<br/>249,509<br/>217,986<br/>74,272<br/>143,714<br/>31,523<br/>7,731<br/>23,792<br/>50,555</td><td>3,041,196<br/>1,318,203<br/>1,722,993<br/>1,016,891<br/>389,521<br/>627,370<br/>912,076<br/><b>5,941,958</b><br/>2,227,977<br/>1,013,848<br/>1,214,129<br/>3,713,981<br/>1,549,214<br/>2,164,767<br/>5,706,678<br/>2,017,585<br/>946,208<br/>1,071,377<br/>3,689,093<br/>1,542,782<br/>2,146,311<br/>235,280<br/>210,392<br/>67,640<br/>142,752<br/>24,888<br/>6,432<br/>18,456<br/>48,390</td></tr> <tr><td>Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         <b>2-year</b>         Full-time         Males         Females         Part-time         Males         Females         Part-time     
&lt;</td><td>1,494,625<br/>914,020<br/>580,603<br/>5226,496<br/>325,693<br/>200,803<br/>7,659<br/><b>2,319,385</b><br/>1,228,911<br/>771,299<br/>457,612<br/>1,090,474<br/>603,358<br/>487,116<br/>2,195,412<br/>1,129,165<br/>720,440<br/>408,725<br/>1,066,247<br/>5720,440<br/>408,725<br/>1,066,247<br/>720,440<br/>408,725<br/>1,066,247<br/>720,440<br/>408,725<br/>1,066,247<br/>13,919<br/>10,308<br/>113,299<br/>91,514<br/>46,030<br/>113,299<br/>91,514<br/>46,030</td><td>1,596,074<br/>930,842<br/>665,232<br/>602,377<br/>329,662<br/>272,715<br/>18,147<br/><b>3,970,119</b><br/>1,761,078<br/>1,035,561<br/>1,035,561<br/>1,072,517<br/>2,209,041<br/>1,129,783<br/>1,079,258<br/>3,836,366<br/>1,662,621<br/>988,701<br/>673,920<br/>2,173,745<br/>1,107,680<br/>1,066,065<br/>133,753<br/>98,457<br/>46,860<br/>51,597<br/>35,296<br/>22,103<br/>13,193<br/>112,997<br/>82,158<br/>40,548<br/>41,610<br/>30,839</td><td>1,733,014<br/>921,253<br/>811,761<br/>680,679<br/>327,986<br/>352,693<br/>28,303<br/><b>4,526,287</b><br/>1,753,795<br/>879,716<br/>874,079<br/>2,772,492<br/>1,167,317<br/>1,605,175<br/>4,328,782<br/>1,595,493<br/>811,871<br/>783,622<br/>2,733,289<br/>1,152,268<br/>1,581,021<br/>197,505<br/>158,302<br/>67,845<br/>90,457<br/>39,203<br/>15,049<br/>24,154<br/>114,094<br/>83,009<br/>34,968<br/>48,041<br/>31,085</td><td>1,727,707<br/>894,080<br/>833,627<br/>735,293<br/>336,168<br/>399,125<br/>43,438<br/><b>4,531,077</b><br/>1,690,607<br/>826,308<br/>864,299<br/>2,840,470<br/>1,175,926<br/>1,664,544<br/>4,269,733<br/>1,496,905<br/>742,673<br/>754,232<br/>2,772,828<br/>1,138,011<br/>1,634,817<br/>261,344<br/>193,702<br/>83,635<br/>110,067<br/>67,642<br/>37,915<br/>29,727<br/>108,791<br/>76,547<br/>30,878<br/>45,669<br/>32,244</td><td>1,859,124<br/>915,100<br/>944,024<br/>811,945<br/>352,106<br/>459,839<br/>59,243<br/><b>5,240,083</b><br/>1,883,962<br/>881,392<br/>1,002,570<br/>3,356,121<br/>1,351,377<br/>2,004,744<br/>4,996,475<br/>1,716,843<br/>810,664<br/>906,179<br/>3,279,632<br/>1,317,730<br/>1,961,902<br/>243,608<br/>167,119<br/>70,728<br/>96,391<br/>76,489<br/>33,647<br/>42,842<br/>89,158<br/>62,003<br/>25,946<br/>62,003<br/>25,946<br/>89,158<br/>62,003</td><td>1,989,457<br/>931,956<br/>1,057,501<br/>864,433<br/>351,874<br/>512,559<br/>100,817<br/><b>5,492,529</b><br/>1,977,047<br/><b>7</b>878,215<br/>1,098,832<br/>3,515,482<br/>1,450,394<br/>2,065,088<br/>5,277,829<br/>1,840,590<br/>818,605<br/>1,021,985<br/>3,437,239<br/>1,417,488<br/>2,019,751<br/>214,700<br/>136,457<br/>759,610<br/>76,847<br/>78,243<br/>32,906<br/>45,337<br/>75,154<br/>54,033<br/>23,265<br/>30,768<br/>21,121</td><td>2,226,028<br/>996,113<br/>1,229,915<br/>824,547<br/>332,814<br/>491,733<br/>257,885<br/><b>5,948,431</b><br/>2,217,049<br/>995,841<br/>1,221,208<br/>3,731,382<br/>1,562,759<br/>2,168,623<br/>5,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,380<br/>2,51,043<br/>2,147,973<br/>2,51,043<br/>217,041<br/>104,559<br/>112,482<br/>34,002<br/>13,352<br/>20,650<br/>58,844<br/>46,670<br/>21,950<br/>24,720<br/>12,174</td><td>2,534,793<br/>1,109,075<br/>1,425,718<br/>876,377<br/>339,572<br/>536,805<br/>750,645<br/>2,646,802<br/>1,153,766<br/>1,493,036<br/>3,841,253<br/>1,526,602<br/>2,314,651<br/>6,184,229<br/>2,387,016<br/>1,055,029<br/>1,331,987<br/>3,797,213<br/>1,514,363<br/>2,282,850<br/>303,826<br/>259,786<br/>98,737<br/>161,049<br/>44,040<br/>12,239<br/>31,801<br/>43,522<br/>28,939<br/>12,086<br/>16,853<br/>14,583</td><td>2,864,640<br/>1,259,638<br/>1,605,002<br/>957,159<br/>366,735<br/>590,424<br/>1,589,934<br/>7,683,597<br/>3,365,379<br/>1,483,230<br/>1,882,149<br/>4,318,218<br/>1,782,655<br/>2,535,563<br/>7,218,063<br/>2,950,024<br/>1,340,820<br/>1,609,204<br/>4,268,039<br/>1,769,737<br/>2,498,302<br/>465,534<br/>415,355<br/>142,410<br/>272,945<br/>50,179<br/>12,918<br/>37,261<br/>32,683<br/>23,127<br/>9,944<br/>13,183<br/>9,556</td><td>2,957,476<br/>1,301,864<br/>1,655,612<br/>981,723<br/>378,324<br/>603,399<br/>1,346,397<br/><b>6,970,644</b><br/>2,836,274<br/>1,279,794<br/>1,556,480<br/>4,134,370<br/>1,718,646<br/>2,415,724<br/>6,626,411<br/>2,532,530<br/>1,177,901<br/>1,354,629<br/>4,093,881<br/>1,707,629<br/>2,386,252<br/>344,233<br/>303,744<br/>101,893<br/>201,851<br/>40,489<br/>11,017<br/>29,472<br/>32,191<br/>24,097<br/>9,478<br/>32,191</td><td>2,981,188<br/>1,313,286<br/>1,667,902<br/>985,685<br/>379,513<br/>606,172<br/>1,270,433<br/>6,714,678<br/>2,661,107<br/>1,200,648<br/>1,460,459<br/>4,053,571<br/>1,693,372<br/>2,386,023<br/>1,107,410<br/>1,277,613<br/>4,012,529<br/>2,385,023<br/>1,107,410<br/>1,277,613<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>93,238<br/>182,846<br/>41,042<br/>10,123<br/>30,919<br/>30,376<br/>22,789<br/>9,074<br/>13,715<br/>7,587</td><td>3,009,240<br/>1,320,947<br/>1,688,293<br/>1,006,642<br/>385,942<br/>620,700<br/>1,124,322<br/><b>6,499,461</b><br/>2,510,684<br/>1,143,704<br/>1,366,980<br/>3,988,777<br/>1,674,371<br/>2,314,406<br/>6,224,304<br/>2,272,769<br/>1,062,633<br/>1,210,136<br/>3,951,535<br/>2,286,162<br/>275,157<br/>237,915<br/>81,071<br/>156,844<br/>37,242<br/>8,998<br/>28,244<br/>50,009<br/>36,027<br/>11,972<br/>24,055<br/>13,982</td><td>3,019,342<br/>1,318,323<br/>1,701,019<br/>385,008<br/>624,051<br/>983,154<br/>6,092,418<br/>2,309,347<br/>1,057,839<br/>1,251,508<br/>3,783,071<br/>1,577,855<br/>2,203,516<br/>5,842,909<br/>2,091,361<br/>983,567<br/>1,107,794<br/>3,751,548<br/>1,571,824<br/>2,179,724<br/>249,509<br/>217,986<br/>74,272<br/>143,714<br/>31,523<br/>7,731<br/>23,792<br/>50,555<br/>39,513<br/>11,950</td><td>3,041,196<br/>1,318,203<br/>1,722,993<br/>1,016,891<br/>389,521<br/>627,370<br/>912,076<br/>5,941,958<br/>2,227,977<br/>1,013,848<br/>1,214,129<br/>3,713,981<br/>1,549,214<br/>2,164,767<br/>5,706,678<br/>2,017,585<br/>946,208<br/>1,071,377<br/>3,689,093<br/>1,542,782<br/>2,146,311<br/>2,35,280<br/>210,392<br/>67,640<br/>142,752<br/>2,4,888<br/>6,432<br/>18,456<br/>48,390<br/>41,090<br/>10,793<br/>30,297<br/>7,300</td></tr> <tr><td>Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         Valles         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Part-time         Males         Part-time         Males         Part-time        
Males</td><td>1,494,625<br/>914,020<br/>580,605<br/>526,496<br/>325,693<br/>20,803<br/>7,659<br/><b>2,319,385</b><br/>1,228,911<br/>771,299<br/>457,612<br/>1,090,474<br/>603,358<br/>487,116<br/>2,195,412<br/>1,129,165<br/>720,440<br/>408,725<br/>1,066,247<br/>589,439<br/>476,808<br/>123,973<br/>99,746<br/>50,859<br/>40,887<br/>24,227<br/>13,919<br/>10,308<br/>113,299<br/>91,514<br/>46,030<br/>45,484<br/>46,030</td><td>1,596,074<br/>930,842<br/>665,232<br/>602,377<br/>329,662<br/>272,715<br/>18,147<br/><b>3,970,119</b><br/>1,761,078<br/>1,035,561<br/>725,517<br/>2,209,041<br/>1,129,783<br/>1,079,258<br/>3,836,366<br/>1,662,621<br/>988,701<br/>673,920<br/>2,173,745<br/>1,107,680<br/>1,066,065<br/>133,753<br/>98,457<br/>46,860<br/>51,597<br/>35,296<br/>22,103<br/>13,193<br/>112,997<br/>82,158<br/>40,548<br/>41,610<br/>30,839<br/>18,929</td><td>1,733,014<br/>921,253<br/>811,761<br/>680,679<br/>327,986<br/>352,693<br/>28,303<br/><b>4,526,287</b><br/>1,753,795<br/>879,716<br/>874,079<br/>2,772,492<br/>1,167,317<br/>1,605,175<br/><b>4</b>,328,782<br/>1,595,493<br/>1,595,493<br/>1,595,493<br/>1,152,268<br/>1,581,021<br/>197,505<br/>158,302<br/>67,845<br/>90,457<br/>39,203<br/>15,049<br/>24,154<br/>114,094<br/>83,009<br/>34,968<br/>48,041<br/>31,085<br/>511,445</td><td>1,727,707<br/>894,080<br/>833,627<br/>735,293<br/>336,168<br/>399,125<br/>43,3438<br/><b>4,531,077</b><br/>1,690,607<br/>826,308<br/>864,299<br/>2,840,470<br/>1,175,926<br/>1,664,544<br/><b>4,269,733</b><br/>1,496,905<br/>7,42,673<br/>7,42,673<br/>7,42,673<br/>7,42,673<br/>7,42,673<br/>7,42,673<br/>7,42,673<br/>1,496,905<br/>1,496,905<br/>7,42,673<br/>2,772,828<br/>1,138,011<br/>1,634,817<br/>2,61,344<br/>193,702<br/>83,635<br/>110,067<br/>67,642<br/>3,7,915<br/>2,9,727<br/>108,791<br/>76,547<br/>30,878<br/>45,669<br/>32,244<br/>10,786</td><td>1,859,124<br/>915,100<br/>944,024<br/>811,945<br/>352,106<br/>459,839<br/>59,243<br/><b>5,240,083</b><br/>1,883,962<br/>881,392<br/>1,002,570<br/>3,356,121<br/>1,351,377<br/>2,004,744<br/>4,996,475<br/>1,716,843<br/>810,664<br/>906,179<br/>3,279,632<br/>1,317,730<br/>1,961,902<br/>243,608<br/>167,119<br/>70,728<br/>96,391<br/>76,489<br/>33,647<br/>42,842<br/>89,158<br/>862,003<br/>25,946<br/>36,057<br/>27,155<br/>7,970</td><td>1,989,457<br/>931,956<br/>1,057,501<br/>864,433<br/>351,874<br/>512,559<br/>100,817<br/><b>5,492,529</b><br/>1,977,047<br/>878,215<br/>1,098,832<br/>3,515,482<br/>5,277,829<br/>1,450,394<br/>2,065,088<br/>5,277,829<br/>1,450,394<br/>2,065,088<br/>5,277,829<br/>1,417,488<br/>2,019,751<br/>214,700<br/>136,457<br/>59,610<br/>76,847<br/>78,243<br/>32,906<br/>45,337<br/>75,154<br/>54,033<br/>23,265<br/>30,768<br/>20,712<br/>1,211<br/>6,080</td><td>2,226,028<br/>996,113<br/>1,229,915<br/>824,547<br/>332,814<br/>491,733<br/>257,885<br/><b>5,948,431</b><br/>2,217,049<br/>995,841<br/>1,221,208<br/>3,731,382<br/>1,562,759<br/>2,168,623<br/><b>5</b>,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,380<br/>8,697,380<br/>8,91,282<br/>1,108,726<br/>3,697,380<br/>1,549,407<br/>2,147,973<br/>251,043<br/>217,041<br/>104,559<br/>112,482<br/>34,002<br/>13,352<br/>20,650<br/>58,844<br/>46,670<br/>21,950<br/>24,720<br/>12,174</td><td>2,534,793<br/>1,109,075<br/>1,425,718<br/>876,377<br/>339,572<br/>536,805<br/>2,646,802<br/>1,153,766<br/>1,493,036<br/>3,841,253<br/>1,526,602<br/>2,314,651<br/>6,184,229<br/>2,387,016<br/>1,055,029<br/>1,331,987<br/>1,514,363<br/>2,282,850<br/>303,826<br/>259,786<br/>98,737<br/>161,049<br/>44,040<br/>12,239<br/>31,801<br/>43,522<br/>28,939<br/>12,086<br/>16,853<br/>3,566</td><td>2,864,640<br/>1,259,638<br/>1,605,002<br/>957,159<br/>366,735<br/>590,424<br/>1,589,934<br/><b>7,683,597</b><br/>3,365,379<br/>1,483,230<br/>1,882,149<br/>4,318,218<br/>1,782,655<br/>2,535,563<br/>7,218,063<br/>2,950,024<br/>1,340,820<br/>1,609,204<br/>4,268,039<br/>1,769,737<br/>2,498,302<br/>465,534<br/>415,355<br/>142,410<br/>272,945<br/>50,179<br/>12,918<br/>37,261<br/>32,683<br/>32,127<br/>9,944<br/>13,183<br/>39,556<br/>2,585</td><td>2,957,476<br/>1,301,864<br/>1,655,612<br/>981,723<br/>378,324<br/>603,399<br/>1,346,397<br/>6,970,644<br/>2,836,274<br/>1,279,794<br/>1,556,480<br/>4,134,370<br/>1,718,646<br/>2,415,724<br/>6,626,411<br/>2,532,530<br/>1,177,901<br/>1,354,629<br/>2,386,252<br/>344,233<br/>303,744<br/>101,893<br/>201,851<br/>40,489<br/>11,017<br/>29,472<br/>32,191<br/>24,097<br/>9,478<br/>14,619<br/>8,094<br/>2,373</td><td>2,981,188<br/>1,313,286<br/>1,667,902<br/>985,685<br/>379,513<br/>6,61,72<br/>1,270,433<br/>6,714,678<br/>2,661,107<br/>1,200,648<br/>1,460,459<br/>4,053,571<br/>1,693,372<br/>2,360,199<br/>6,397,552<br/>2,385,023<br/>1,107,410<br/>1,277,613<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>30,376<br/>22,789<br/>9,074<br/>13,715<br/>7,587<br/>2,198</td><td>3,009,240<br/>1,320,947<br/>1,688,293<br/>1,006,642<br/>385,942<br/>620,700<br/>1,124,322<br/>6,499,461<br/>2,510,684<br/>1,143,704<br/>1,366,980<br/>3,988,777<br/>1,674,371<br/>2,314,406<br/>6,224,304<br/>2,272,769<br/>1,062,633<br/>1,210,136<br/>3,951,535<br/>1,665,373<br/>2,286,162<br/>275,157<br/>237,915<br/>81,071<br/>1156,844<br/>37,242<br/>8,998<br/>28,244<br/>50,009<br/>36,027<br/>11,972<br/>24,055<br/>13,982<br/>2,707</td><td>3,019,342<br/>1,318,323<br/>1,701,019<br/>1,009,059<br/>385,008<br/>624,051<br/>983,154<br/>6,092,418<br/>2,309,347<br/>1,057,839<br/>1,251,508<br/>3,783,071<br/>1,579,555<br/>2,203,516<br/>5,842,909<br/>2,091,361<br/>983,567<br/>1,107,794<br/>2,49,509<br/>217,986<br/>74,272<br/>143,714<br/>31,523<br/>7,731<br/>23,792<br/>50,555<br/>39,513<br/>311,950<br/>27,563<br/>311,042<br/>2,547</td><td>3,041,196<br/>1,318,203<br/>1,722,993<br/>1,016,891<br/>389,521<br/>627,370<br/>912,076<br/>5,941,958<br/>2,227,977<br/>1,013,848<br/>1,214,129<br/>3,713,981<br/>1,549,214<br/>2,164,767<br/>5,706,678<br/>2,017,585<br/>946,208<br/>1,071,377<br/>3,689,093<br/>1,542,782<br/>2,146,311<br/>235,280<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>67,640<br/>210,392<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7,300<br/>7</td></tr> <tr><td>Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         <b>2-year</b>         Full-time         Males         Females         Part-time         Males         Females         Part-time     
&lt;</td><td>1,494,625<br/>914,020<br/>580,603<br/>5226,496<br/>325,693<br/>200,803<br/>7,659<br/><b>2,319,385</b><br/>1,228,911<br/>771,299<br/>457,612<br/>1,090,474<br/>603,358<br/>487,116<br/>2,195,412<br/>1,129,165<br/>720,440<br/>408,725<br/>1,066,247<br/>5720,440<br/>408,725<br/>1,066,247<br/>720,440<br/>408,725<br/>1,066,247<br/>720,440<br/>408,725<br/>1,066,247<br/>13,919<br/>10,308<br/>113,299<br/>91,514<br/>46,030<br/>113,299<br/>91,514<br/>46,030</td><td>1,596,074<br/>930,842<br/>665,232<br/>602,377<br/>329,662<br/>272,715<br/>18,147<br/><b>3,970,119</b><br/>1,761,078<br/>1,035,561<br/>1,035,561<br/>1,072,517<br/>2,209,041<br/>1,129,783<br/>1,079,258<br/>3,836,366<br/>1,662,621<br/>988,701<br/>673,920<br/>2,173,745<br/>1,107,680<br/>1,066,065<br/>133,753<br/>98,457<br/>46,860<br/>51,597<br/>35,296<br/>22,103<br/>13,193<br/>112,997<br/>82,158<br/>40,548<br/>41,610<br/>30,839</td><td>1,733,014<br/>921,253<br/>811,761<br/>680,679<br/>327,986<br/>352,693<br/>28,303<br/><b>4,526,287</b><br/>1,753,795<br/>879,716<br/>874,079<br/>2,772,492<br/>1,167,317<br/>1,605,175<br/>4,328,782<br/>1,595,493<br/>811,871<br/>783,622<br/>2,733,289<br/>1,152,268<br/>1,581,021<br/>197,505<br/>158,302<br/>67,845<br/>90,457<br/>39,203<br/>15,049<br/>24,154<br/>114,094<br/>83,009<br/>34,968<br/>48,041<br/>31,085</td><td>1,727,707<br/>894,080<br/>833,627<br/>735,293<br/>336,168<br/>399,125<br/>43,438<br/><b>4,531,077</b><br/>1,690,607<br/>826,308<br/>864,299<br/>2,840,470<br/>1,175,926<br/>1,664,544<br/>4,269,733<br/>1,496,905<br/>742,673<br/>754,232<br/>2,772,828<br/>1,138,011<br/>1,634,817<br/>261,344<br/>193,702<br/>83,635<br/>110,067<br/>67,642<br/>37,915<br/>29,727<br/>108,791<br/>76,547<br/>30,878<br/>45,669<br/>32,244</td><td>1,859,124<br/>915,100<br/>944,024<br/>811,945<br/>352,106<br/>459,839<br/>59,243<br/><b>5,240,083</b><br/>1,883,962<br/>881,392<br/>1,002,570<br/>3,356,121<br/>1,351,377<br/>2,004,744<br/>4,996,475<br/>1,716,843<br/>810,664<br/>906,179<br/>3,279,632<br/>1,317,730<br/>1,961,902<br/>243,608<br/>167,119<br/>70,728<br/>96,391<br/>76,489<br/>33,647<br/>42,842<br/>89,158<br/>62,003<br/>25,946<br/>62,003<br/>25,946<br/>63,057<br/>27,155</td><td>1,989,457<br/>931,956<br/>1,057,501<br/>864,433<br/>351,874<br/>512,559<br/>100,817<br/><b>5,492,529</b><br/>1,977,047<br/><b>7</b>878,215<br/>1,098,832<br/>3,515,482<br/>1,450,394<br/>2,065,088<br/>5,277,829<br/>1,840,590<br/>818,605<br/>1,021,985<br/>3,437,239<br/>1,417,488<br/>2,019,751<br/>214,700<br/>136,457<br/>759,610<br/>76,847<br/>78,243<br/>32,906<br/>45,337<br/>75,154<br/>54,033<br/>23,265<br/>30,768<br/>21,121</td><td>2,226,028<br/>996,113<br/>1,229,915<br/>824,547<br/>332,814<br/>491,733<br/>257,885<br/><b>5,948,431</b><br/>2,217,049<br/>995,841<br/>1,221,208<br/>3,731,382<br/>1,562,759<br/>2,168,623<br/>5,697,388<br/>2,000,008<br/>891,282<br/>1,108,726<br/>3,697,380<br/>2,51,043<br/>2,147,973<br/>2,51,043<br/>217,041<br/>104,559<br/>112,482<br/>34,002<br/>13,352<br/>20,650<br/>58,844<br/>46,670<br/>21,950<br/>24,720<br/>12,174</td><td>2,534,793<br/>1,109,075<br/>1,425,718<br/>876,377<br/>339,572<br/>536,805<br/>750,645<br/>2,646,802<br/>1,153,766<br/>1,493,036<br/>3,841,253<br/>1,526,602<br/>2,314,651<br/>6,184,229<br/>2,387,016<br/>1,055,029<br/>1,331,987<br/>3,797,213<br/>1,514,363<br/>2,282,850<br/>303,826<br/>259,786<br/>98,737<br/>161,049<br/>44,040<br/>12,239<br/>31,801<br/>43,522<br/>28,939<br/>12,086<br/>16,853<br/>14,583</td><td>2,864,640<br/>1,259,638<br/>1,605,002<br/>957,159<br/>366,735<br/>590,424<br/>1,589,934<br/>7,683,597<br/>3,365,379<br/>1,483,230<br/>1,882,149<br/>4,318,218<br/>1,782,655<br/>2,535,563<br/>7,218,063<br/>2,950,024<br/>1,340,820<br/>1,609,204<br/>4,268,039<br/>1,769,737<br/>2,498,302<br/>465,534<br/>415,355<br/>142,410<br/>272,945<br/>50,179<br/>12,918<br/>37,261<br/>32,683<br/>23,127<br/>9,944<br/>13,183<br/>9,556</td><td>2,957,476<br/>1,301,864<br/>1,655,612<br/>981,723<br/>378,324<br/>603,399<br/>1,346,397<br/><b>6,970,644</b><br/>2,836,274<br/>1,279,794<br/>1,556,480<br/>4,134,370<br/>1,718,646<br/>2,415,724<br/>6,626,411<br/>2,532,530<br/>1,177,901<br/>1,354,629<br/>4,093,881<br/>1,707,629<br/>2,386,252<br/>344,233<br/>303,744<br/>101,893<br/>201,851<br/>40,489<br/>11,017<br/>29,472<br/>32,191<br/>24,097<br/>9,478<br/>32,191</td><td>2,981,188<br/>1,313,286<br/>1,667,902<br/>985,685<br/>379,513<br/>606,172<br/>1,270,433<br/><b>6,714,678</b><br/>2,661,107<br/>1,200,648<br/>1,460,459<br/>4,053,571<br/>1,693,372<br/>2,360,199<br/>6,397,552<br/>2,385,023<br/>1,107,410<br/>1,277,613<br/>4,012,529<br/>1,683,249<br/>2,329,280<br/>317,126<br/>276,084<br/>93,238<br/>182,846<br/>41,042<br/>10,123<br/>30,919<br/>30,376<br/>22,789<br/>9,074<br/>13,715<br/>7,587</td><td>3,009,240<br/>1,320,947<br/>1,688,293<br/>1,006,642<br/>385,942<br/>620,700<br/>1,124,322<br/><b>6,499,461</b><br/>2,510,684<br/>1,143,704<br/>1,366,980<br/>3,988,777<br/>1,674,371<br/>2,314,406<br/>6,224,304<br/>2,272,769<br/>1,062,633<br/>1,210,136<br/>3,951,535<br/>2,286,162<br/>275,157<br/>237,915<br/>81,071<br/>156,844<br/>37,242<br/>8,998<br/>28,244<br/>50,009<br/>36,027<br/>11,972<br/>24,055<br/>13,982</td><td>3,019,342<br/>1,318,323<br/>1,701,019<br/>385,008<br/>624,051<br/>983,154<br/>6,092,418<br/>2,309,347<br/>1,057,839<br/>1,251,508<br/>3,783,071<br/>1,577,855<br/>2,203,516<br/>5,842,909<br/>2,091,361<br/>983,567<br/>1,107,794<br/>3,751,548<br/>1,571,824<br/>2,179,724<br/>249,509<br/>217,986<br/>74,272<br/>143,714<br/>31,523<br/>7,731<br/>23,792<br/>50,555<br/>39,513<br/>11,950</td><td>3,041,196<br/>1,318,203<br/>1,722,993<br/>1,016,891<br/>389,521<br/>627,370<br/>912,076<br/>5,941,958<br/>2,227,977<br/>1,013,848<br/>1,214,129<br/>3,713,981<br/>1,549,214<br/>2,164,767<br/>5,706,678<br/>2,017,585<br/>946,208<br/>1,071,377<br/>3,689,093<br/>1,542,782<br/>2,146,311<br/>2,35,280<br/>210,392<br/>67,640<br/>142,752<br/>2,4,888<br/>6,432<br/>18,456<br/>48,390<br/>41,090<br/>10,793<br/>30,297<br/>7,300</td></tr> | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973<br>99,746<br>50,859<br>48,887<br>24,227   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3</b> ,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296   | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,757,3795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,3438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489   | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243  | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,388<br>2,000,008<br>891,282<br>1,562,759<br>2,164,407<br>2,147,973<br>251,043<br>217,041<br>104,559<br>112,482<br>34,002 | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>4,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179  |
2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>6,714,678<br>2,661,107<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373<br>2,286,162<br>275,157<br>237,915<br>81,071<br>156,844<br>37,242   | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,855<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>6,76,40<br>142,752<br>24,888   | Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time      < | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>1,289,439<br>476,808<br>123,973<br>99,746<br>50,859<br>48,887<br>24,227<br>13,919<br>10,308<br>113,299 | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3</b> ,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,33,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997 |
1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154<br>114,094 | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915<br>29,727<br>108,791 | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158 | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br><b>5,492,529</b><br>1,98,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243<br>32,906<br>45,337<br>75,154 | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>1,549,407<br>2,147,973<br>2,51,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844 | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801<br>43,522 | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683 | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191 | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123<br>30,919<br>30,376 | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br>6,499,461<br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>2,286,162<br>2,75,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998<br>28,244<br>50,009 | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,855<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555 | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>67,640<br>142,752<br>24,888<br>6,432<br>18,456<br>48,390 | Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Females | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,109,474<br>603,358<br>487,116<br>2,195,412<br>1,066,247<br>5720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973<br>99,746<br>50,859<br>48,887<br>24,227<br>13,919<br>10,308<br>113,299<br>91,514 | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,078,25,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3,836,366</b><br>1,662,621<br>1,076,800<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997<br>82,158 | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,552,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154 | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,75,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915<br>29,727 | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158<br>62,003 | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243<br>32,906<br>45,337 | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>1,549,407<br>2,147,973<br>251,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844<br>46,670 | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br><b>6,488,055</b><br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801 | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>4,348,302<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683<br>23,127 | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br>6,970,644<br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>4,093,881<br>1,707,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191<br>24,097 | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123<br>30,919<br>30,376<br>22,789 | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373<br>2,286,162<br>275,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998<br>28,244<br>50,009<br>36,027 | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>983,154<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>2,49,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555<br>39,513 | 3,041,196<br>1,318,203<br>1,722,993<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>67,640<br>142,752<br>24,888<br>6,432<br>18,456 | Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time      < | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>1,289,439<br>476,808<br>123,973<br>99,746<br>50,859<br>48,887<br>24,227<br>13,919<br>10,308<br>113,299 |
1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3</b> ,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,33,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997 | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154<br>114,094 | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915<br>29,727<br>108,791 | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158 | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br><b>5,492,529</b><br>1,98,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243<br>32,906<br>45,337<br>75,154 | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>1,549,407<br>2,147,973<br>2,51,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844 | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801<br>43,522 | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683 | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191 | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123<br>30,919<br>30,376 | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br>6,499,461<br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>2,286,162<br>2,75,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998<br>28,244<br>50,009 | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,855<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555 | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>67,640<br>142,752<br>24,888<br>6,432<br>18,456<br>48,390 | Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time      < | 1,494,625<br>914,020<br>580,603<br>5226,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>5720,440<br>408,725<br>1,066,247<br>720,440<br>408,725<br>1,066,247<br>720,440<br>408,725<br>1,066,247<br>13,919<br>10,308<br>113,299<br>91,514<br>46,030<br>113,299<br>91,514<br>46,030 | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>1,035,561<br>1,072,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997<br>82,158<br>40,548<br>41,610<br>30,839 | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154<br>114,094<br>83,009<br>34,968<br>48,041<br>31,085 | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915<br>29,727<br>108,791<br>76,547<br>30,878<br>45,669<br>32,244 | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158<br>62,003<br>25,946<br>62,003<br>25,946<br>89,158<br>62,003 | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br><b>7</b> 878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>759,610<br>76,847<br>78,243<br>32,906<br>45,337<br>75,154<br>54,033<br>23,265<br>30,768<br>21,121 | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>2,51,043<br>2,147,973<br>2,51,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844<br>46,670<br>21,950<br>24,720<br>12,174 | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801<br>43,522<br>28,939<br>12,086<br>16,853<br>14,583 | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683<br>23,127<br>9,944<br>13,183<br>9,556 | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191<br>24,097<br>9,478<br>32,191 | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,386,023<br>1,107,410<br>1,277,613<br>4,012,529<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123<br>30,919<br>30,376<br>22,789<br>9,074<br>13,715<br>7,587 | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>2,286,162<br>275,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998<br>28,244<br>50,009<br>36,027<br>11,972<br>24,055<br>13,982 | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,855<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555<br>39,513<br>11,950 |
3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>2,35,280<br>210,392<br>67,640<br>142,752<br>2,4,888<br>6,432<br>18,456<br>48,390<br>41,090<br>10,793<br>30,297<br>7,300 | Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         Valles         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Part-time         Males         Part-time         Males         Part-time         Males | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>20,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973<br>99,746<br>50,859<br>40,887<br>24,227<br>13,919<br>10,308<br>113,299<br>91,514<br>46,030<br>45,484<br>46,030 | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997<br>82,158<br>40,548<br>41,610<br>30,839<br>18,929 | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br><b>4</b> ,328,782<br>1,595,493<br>1,595,493<br>1,595,493<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154<br>114,094<br>83,009<br>34,968<br>48,041<br>31,085<br>511,445 | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,3438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br><b>4,269,733</b><br>1,496,905<br>7,42,673<br>7,42,673<br>7,42,673<br>7,42,673<br>7,42,673<br>7,42,673<br>7,42,673<br>1,496,905<br>1,496,905<br>7,42,673<br>2,772,828<br>1,138,011<br>1,634,817<br>2,61,344<br>193,702<br>83,635<br>110,067<br>67,642<br>3,7,915<br>2,9,727<br>108,791<br>76,547<br>30,878<br>45,669<br>32,244<br>10,786 | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158<br>862,003<br>25,946<br>36,057<br>27,155<br>7,970 | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>5,277,829<br>1,450,394<br>2,065,088<br>5,277,829<br>1,450,394<br>2,065,088<br>5,277,829<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243<br>32,906<br>45,337<br>75,154<br>54,033<br>23,265<br>30,768<br>20,712<br>1,211<br>6,080 | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br><b>5</b> ,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>8,697,380<br>8,91,282<br>1,108,726<br>3,697,380<br>1,549,407<br>2,147,973<br>251,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844<br>46,670<br>21,950<br>24,720<br>12,174 | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801<br>43,522<br>28,939<br>12,086<br>16,853<br>3,566 | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683<br>32,127<br>9,944<br>13,183<br>39,556<br>2,585 | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br>6,970,644<br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191<br>24,097<br>9,478<br>14,619<br>8,094<br>2,373 | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>6,61,72<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>30,376<br>22,789<br>9,074<br>13,715<br>7,587<br>2,198 | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br>6,499,461<br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373<br>2,286,162<br>275,157<br>237,915<br>81,071<br>1156,844<br>37,242<br>8,998<br>28,244<br>50,009<br>36,027<br>11,972<br>24,055<br>13,982<br>2,707 | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>2,49,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555<br>39,513<br>311,950<br>27,563<br>311,042<br>2,547 | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7 | Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time      < |
1,494,625<br>914,020<br>580,603<br>5226,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>5720,440<br>408,725<br>1,066,247<br>720,440<br>408,725<br>1,066,247<br>720,440<br>408,725<br>1,066,247<br>13,919<br>10,308<br>113,299<br>91,514<br>46,030<br>113,299<br>91,514<br>46,030 | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>1,035,561<br>1,072,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997<br>82,158<br>40,548<br>41,610<br>30,839 | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154<br>114,094<br>83,009<br>34,968<br>48,041<br>31,085 | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915<br>29,727<br>108,791<br>76,547<br>30,878<br>45,669<br>32,244 | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158<br>62,003<br>25,946<br>62,003<br>25,946<br>63,057<br>27,155 | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br><b>7</b> 878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>759,610<br>76,847<br>78,243<br>32,906<br>45,337<br>75,154<br>54,033<br>23,265<br>30,768<br>21,121 | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>2,51,043<br>2,147,973<br>2,51,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844<br>46,670<br>21,950<br>24,720<br>12,174 | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801<br>43,522<br>28,939<br>12,086<br>16,853<br>14,583 | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683<br>23,127<br>9,944<br>13,183<br>9,556 | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191<br>24,097<br>9,478<br>32,191 | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br><b>6,714,678</b><br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123<br>30,919<br>30,376<br>22,789<br>9,074<br>13,715<br>7,587 | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>2,286,162<br>275,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998<br>28,244<br>50,009<br>36,027<br>11,972<br>24,055<br>13,982 | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,855<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555<br>39,513<br>11,950 | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>2,35,280<br>210,392<br>67,640<br>142,752<br>2,4,888<br>6,432<br>18,456<br>48,390<br>41,090<br>10,793<br>30,297<br>7,300 |
| 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973<br>99,746<br>50,859<br>48,887<br>24,227  
   
   
   
  | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3</b> ,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,757,3795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203   | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,3438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489  | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243  |
2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,388<br>2,000,008<br>891,282<br>1,562,759<br>2,164,407<br>2,147,973<br>251,043<br>217,041<br>104,559<br>112,482<br>34,002 | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>4,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179   | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>6,714,678<br>2,661,107<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373<br>2,286,162<br>275,157<br>237,915<br>81,071<br>156,844<br>37,242   | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,855<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523  | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>6,76,40<br>142,752<br>24,888   |  
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  | |
             |   |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |  
  |  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |   
  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time      <   
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>1,289,439<br>476,808<br>123,973<br>99,746<br>50,859<br>48,887<br>24,227<br>13,919<br>10,308<br>113,299  | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3</b> ,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,33,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154<br>114,094  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915<br>29,727<br>108,791  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158   | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br><b>5,492,529</b><br>1,98,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243<br>32,906<br>45,337<br>75,154  |
2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>1,549,407<br>2,147,973<br>2,51,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801<br>43,522   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123<br>30,919<br>30,376  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br>6,499,461<br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>2,286,162<br>2,75,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998<br>28,244<br>50,009   | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,855<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>67,640<br>142,752<br>24,888<br>6,432<br>18,456<br>48,390   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |   |   
  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   |  |                     
  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |   
  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Females  
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,109,474<br>603,358<br>487,116<br>2,195,412<br>1,066,247<br>5720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973<br>99,746<br>50,859<br>48,887<br>24,227<br>13,919<br>10,308<br>113,299<br>91,514                           | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,078,25,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3,836,366</b><br>1,662,621<br>1,076,800<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997<br>82,158  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,552,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,75,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915<br>29,727  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158<br>62,003   | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243<br>32,906<br>45,337  
   | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>1,549,407<br>2,147,973<br>251,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844<br>46,670  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br><b>6,488,055</b><br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801  | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>4,348,302<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683<br>23,127  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br>6,970,644<br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>4,093,881<br>1,707,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191<br>24,097   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123<br>30,919<br>30,376<br>22,789  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373<br>2,286,162<br>275,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998<br>28,244<br>50,009<br>36,027        | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>983,154<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>2,49,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555<br>39,513  | 3,041,196<br>1,318,203<br>1,722,993<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>67,640<br>142,752<br>24,888<br>6,432<br>18,456  
  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |   |  
   |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   |   
  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |  
   |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time      <   
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>1,289,439<br>476,808<br>123,973<br>99,746<br>50,859<br>48,887<br>24,227<br>13,919<br>10,308<br>113,299  | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br><b>3</b> ,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,33,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997  | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154<br>114,094  | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915<br>29,727<br>108,791  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158   | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br><b>5,492,529</b><br>1,98,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243<br>32,906<br>45,337<br>75,154  |
2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>1,549,407<br>2,147,973<br>2,51,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801<br>43,522   | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123<br>30,919<br>30,376  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br>6,499,461<br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>2,286,162<br>2,75,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998<br>28,244<br>50,009   | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,855<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br><b>5,941,958</b><br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>67,640<br>142,752<br>24,888<br>6,432<br>18,456<br>48,390   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |   |   
  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   |  |                     
  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |   
  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time      <   
   
   
   
  | 1,494,625<br>914,020<br>580,603<br>5226,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>5720,440<br>408,725<br>1,066,247<br>720,440<br>408,725<br>1,066,247<br>720,440<br>408,725<br>1,066,247<br>13,919<br>10,308<br>113,299<br>91,514<br>46,030<br>113,299<br>91,514<br>46,030 | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>1,035,561<br>1,072,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997<br>82,158<br>40,548<br>41,610<br>30,839 | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154<br>114,094<br>83,009<br>34,968<br>48,041<br>31,085           | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915<br>29,727<br>108,791<br>76,547<br>30,878<br>45,669<br>32,244  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158<br>62,003<br>25,946<br>62,003<br>25,946<br>89,158<br>62,003 | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br><b>7</b> 878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>759,610<br>76,847<br>78,243<br>32,906<br>45,337<br>75,154<br>54,033<br>23,265<br>30,768<br>21,121  |
2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>2,51,043<br>2,147,973<br>2,51,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844<br>46,670<br>21,950<br>24,720<br>12,174  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801<br>43,522<br>28,939<br>12,086<br>16,853<br>14,583 | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683<br>23,127<br>9,944<br>13,183<br>9,556                  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191<br>24,097<br>9,478<br>32,191   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,386,023<br>1,107,410<br>1,277,613<br>4,012,529<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123<br>30,919<br>30,376<br>22,789<br>9,074<br>13,715<br>7,587  | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>2,286,162<br>275,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998<br>28,244<br>50,009<br>36,027<br>11,972<br>24,055<br>13,982                 | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,855<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555<br>39,513<br>11,950   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>2,35,280<br>210,392<br>67,640<br>142,752<br>2,4,888<br>6,432<br>18,456<br>48,390<br>41,090<br>10,793<br>30,297<br>7,300   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |   |   
  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   |  |                     
  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |   
  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year         Valles         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Part-time         Males         Females         Public 2-year         Full-time         Males         Females         Part-time         Males         Part-time         Males         Part-time         Males         Part-time         Males   
   
   
   
  | 1,494,625<br>914,020<br>580,605<br>526,496<br>325,693<br>20,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>589,439<br>476,808<br>123,973<br>99,746<br>50,859<br>40,887<br>24,227<br>13,919<br>10,308<br>113,299<br>91,514<br>46,030<br>45,484<br>46,030   | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>725,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997<br>82,158<br>40,548<br>41,610<br>30,839<br>18,929      | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br><b>4</b> ,328,782<br>1,595,493<br>1,595,493<br>1,595,493<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154<br>114,094<br>83,009<br>34,968<br>48,041<br>31,085<br>511,445 | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,3438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br><b>4,269,733</b><br>1,496,905<br>7,42,673<br>7,42,673<br>7,42,673<br>7,42,673<br>7,42,673<br>7,42,673<br>7,42,673<br>1,496,905<br>1,496,905<br>7,42,673<br>2,772,828<br>1,138,011<br>1,634,817<br>2,61,344<br>193,702<br>83,635<br>110,067<br>67,642<br>3,7,915<br>2,9,727<br>108,791<br>76,547<br>30,878<br>45,669<br>32,244<br>10,786 | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158<br>862,003<br>25,946<br>36,057<br>27,155<br>7,970           |
1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br>878,215<br>1,098,832<br>3,515,482<br>5,277,829<br>1,450,394<br>2,065,088<br>5,277,829<br>1,450,394<br>2,065,088<br>5,277,829<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>59,610<br>76,847<br>78,243<br>32,906<br>45,337<br>75,154<br>54,033<br>23,265<br>30,768<br>20,712<br>1,211<br>6,080  | 2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br><b>5</b> ,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>8,697,380<br>8,91,282<br>1,108,726<br>3,697,380<br>1,549,407<br>2,147,973<br>251,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844<br>46,670<br>21,950<br>24,720<br>12,174   | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801<br>43,522<br>28,939<br>12,086<br>16,853<br>3,566                          | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br><b>7,683,597</b><br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683<br>32,127<br>9,944<br>13,183<br>39,556<br>2,585 | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br>6,970,644<br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191<br>24,097<br>9,478<br>14,619<br>8,094<br>2,373  | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>6,61,72<br>1,270,433<br>6,714,678<br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>30,376<br>22,789<br>9,074<br>13,715<br>7,587<br>2,198 | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br>6,499,461<br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>1,665,373<br>2,286,162<br>275,157<br>237,915<br>81,071<br>1156,844<br>37,242<br>8,998<br>28,244<br>50,009<br>36,027<br>11,972<br>24,055<br>13,982<br>2,707 | 3,019,342<br>1,318,323<br>1,701,019<br>1,009,059<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,579,555<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>2,49,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555<br>39,513<br>311,950<br>27,563<br>311,042<br>2,547   |
3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>235,280<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>67,640<br>210,392<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7,300<br>7 |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |                        
  |   |   |  |  |  |   |   |  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   
  |   |  |  |   |   |  |  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  
   |  |   |   |  |  |  |   |  |  |   |   |  |  |   |   |   |   
   |   |  |  |
| Full-time         Males         Females         Part-time         Males         Females         For-profit 4-year <b>2-year</b> Full-time         Males         Females         Part-time         Males         Females         Part-time      <   
   
   
   
  | 1,494,625<br>914,020<br>580,603<br>5226,496<br>325,693<br>200,803<br>7,659<br><b>2,319,385</b><br>1,228,911<br>771,299<br>457,612<br>1,090,474<br>603,358<br>487,116<br>2,195,412<br>1,129,165<br>720,440<br>408,725<br>1,066,247<br>5720,440<br>408,725<br>1,066,247<br>720,440<br>408,725<br>1,066,247<br>720,440<br>408,725<br>1,066,247<br>13,919<br>10,308<br>113,299<br>91,514<br>46,030<br>113,299<br>91,514<br>46,030 | 1,596,074<br>930,842<br>665,232<br>602,377<br>329,662<br>272,715<br>18,147<br><b>3,970,119</b><br>1,761,078<br>1,035,561<br>1,035,561<br>1,072,517<br>2,209,041<br>1,129,783<br>1,079,258<br>3,836,366<br>1,662,621<br>988,701<br>673,920<br>2,173,745<br>1,107,680<br>1,066,065<br>133,753<br>98,457<br>46,860<br>51,597<br>35,296<br>22,103<br>13,193<br>112,997<br>82,158<br>40,548<br>41,610<br>30,839 | 1,733,014<br>921,253<br>811,761<br>680,679<br>327,986<br>352,693<br>28,303<br><b>4,526,287</b><br>1,753,795<br>879,716<br>874,079<br>2,772,492<br>1,167,317<br>1,605,175<br>4,328,782<br>1,595,493<br>811,871<br>783,622<br>2,733,289<br>1,152,268<br>1,581,021<br>197,505<br>158,302<br>67,845<br>90,457<br>39,203<br>15,049<br>24,154<br>114,094<br>83,009<br>34,968<br>48,041<br>31,085           | 1,727,707<br>894,080<br>833,627<br>735,293<br>336,168<br>399,125<br>43,438<br><b>4,531,077</b><br>1,690,607<br>826,308<br>864,299<br>2,840,470<br>1,175,926<br>1,664,544<br>4,269,733<br>1,496,905<br>742,673<br>754,232<br>2,772,828<br>1,138,011<br>1,634,817<br>261,344<br>193,702<br>83,635<br>110,067<br>67,642<br>37,915<br>29,727<br>108,791<br>76,547<br>30,878<br>45,669<br>32,244  | 1,859,124<br>915,100<br>944,024<br>811,945<br>352,106<br>459,839<br>59,243<br><b>5,240,083</b><br>1,883,962<br>881,392<br>1,002,570<br>3,356,121<br>1,351,377<br>2,004,744<br>4,996,475<br>1,716,843<br>810,664<br>906,179<br>3,279,632<br>1,317,730<br>1,961,902<br>243,608<br>167,119<br>70,728<br>96,391<br>76,489<br>33,647<br>42,842<br>89,158<br>62,003<br>25,946<br>62,003<br>25,946<br>63,057<br>27,155 | 1,989,457<br>931,956<br>1,057,501<br>864,433<br>351,874<br>512,559<br>100,817<br><b>5,492,529</b><br>1,977,047<br><b>7</b> 878,215<br>1,098,832<br>3,515,482<br>1,450,394<br>2,065,088<br>5,277,829<br>1,840,590<br>818,605<br>1,021,985<br>3,437,239<br>1,417,488<br>2,019,751<br>214,700<br>136,457<br>759,610<br>76,847<br>78,243<br>32,906<br>45,337<br>75,154<br>54,033<br>23,265<br>30,768<br>21,121  |
2,226,028<br>996,113<br>1,229,915<br>824,547<br>332,814<br>491,733<br>257,885<br><b>5,948,431</b><br>2,217,049<br>995,841<br>1,221,208<br>3,731,382<br>1,562,759<br>2,168,623<br>5,697,388<br>2,000,008<br>891,282<br>1,108,726<br>3,697,380<br>2,51,043<br>2,147,973<br>2,51,043<br>217,041<br>104,559<br>112,482<br>34,002<br>13,352<br>20,650<br>58,844<br>46,670<br>21,950<br>24,720<br>12,174  | 2,534,793<br>1,109,075<br>1,425,718<br>876,377<br>339,572<br>536,805<br>750,645<br>2,646,802<br>1,153,766<br>1,493,036<br>3,841,253<br>1,526,602<br>2,314,651<br>6,184,229<br>2,387,016<br>1,055,029<br>1,331,987<br>3,797,213<br>1,514,363<br>2,282,850<br>303,826<br>259,786<br>98,737<br>161,049<br>44,040<br>12,239<br>31,801<br>43,522<br>28,939<br>12,086<br>16,853<br>14,583 | 2,864,640<br>1,259,638<br>1,605,002<br>957,159<br>366,735<br>590,424<br>1,589,934<br>7,683,597<br>3,365,379<br>1,483,230<br>1,882,149<br>4,318,218<br>1,782,655<br>2,535,563<br>7,218,063<br>2,950,024<br>1,340,820<br>1,609,204<br>4,268,039<br>1,769,737<br>2,498,302<br>465,534<br>415,355<br>142,410<br>272,945<br>50,179<br>12,918<br>37,261<br>32,683<br>23,127<br>9,944<br>13,183<br>9,556                  | 2,957,476<br>1,301,864<br>1,655,612<br>981,723<br>378,324<br>603,399<br>1,346,397<br><b>6,970,644</b><br>2,836,274<br>1,279,794<br>1,556,480<br>4,134,370<br>1,718,646<br>2,415,724<br>6,626,411<br>2,532,530<br>1,177,901<br>1,354,629<br>4,093,881<br>1,707,629<br>2,386,252<br>344,233<br>303,744<br>101,893<br>201,851<br>40,489<br>11,017<br>29,472<br>32,191<br>24,097<br>9,478<br>32,191   | 2,981,188<br>1,313,286<br>1,667,902<br>985,685<br>379,513<br>606,172<br>1,270,433<br><b>6,714,678</b><br>2,661,107<br>1,200,648<br>1,460,459<br>4,053,571<br>1,693,372<br>2,360,199<br>6,397,552<br>2,385,023<br>1,107,410<br>1,277,613<br>4,012,529<br>1,683,249<br>2,329,280<br>317,126<br>276,084<br>93,238<br>182,846<br>41,042<br>10,123<br>30,919<br>30,376<br>22,789<br>9,074<br>13,715<br>7,587   | 3,009,240<br>1,320,947<br>1,688,293<br>1,006,642<br>385,942<br>620,700<br>1,124,322<br><b>6,499,461</b><br>2,510,684<br>1,143,704<br>1,366,980<br>3,988,777<br>1,674,371<br>2,314,406<br>6,224,304<br>2,272,769<br>1,062,633<br>1,210,136<br>3,951,535<br>2,286,162<br>275,157<br>237,915<br>81,071<br>156,844<br>37,242<br>8,998<br>28,244<br>50,009<br>36,027<br>11,972<br>24,055<br>13,982                 | 3,019,342<br>1,318,323<br>1,701,019<br>385,008<br>624,051<br>983,154<br>6,092,418<br>2,309,347<br>1,057,839<br>1,251,508<br>3,783,071<br>1,577,855<br>2,203,516<br>5,842,909<br>2,091,361<br>983,567<br>1,107,794<br>3,751,548<br>1,571,824<br>2,179,724<br>249,509<br>217,986<br>74,272<br>143,714<br>31,523<br>7,731<br>23,792<br>50,555<br>39,513<br>11,950   | 3,041,196<br>1,318,203<br>1,722,993<br>1,016,891<br>389,521<br>627,370<br>912,076<br>5,941,958<br>2,227,977<br>1,013,848<br>1,214,129<br>3,713,981<br>1,549,214<br>2,164,767<br>5,706,678<br>2,017,585<br>946,208<br>1,071,377<br>3,689,093<br>1,542,782<br>2,146,311<br>2,35,280<br>210,392<br>67,640<br>142,752<br>2,4,888<br>6,432<br>18,456<br>48,390<br>41,090<br>10,793<br>30,297<br>7,300   
   |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |   |   |   |   |   |   |  |  |  |   |   |   
  |  |   |  |  |  |   |   |   |   |  |   |   |   |  |  |   |  |  |  |   |  |  |   |   |  |                     
  |   |   |   |  |   |  |  |  |   |   |  |  |   |  |   |  |  |  |   |   |  |   
  |  |   |  |  |   |   |  |  |   |   |   |   |   |  |  |

Table 14.	Total fall enrollment in degree-granting postsecondary institutions, by level and control of institution, attendance status, and sex of
	student: Selected years, 1970 through 2028—Continued

Level and control of institution, attendance						Projected					
status, and sex of											
student	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1	16	17	18	19	20	21	22	23	24	25	26
Total	19,828,000	19,904,000	19,928,000	19,956,000	19,991,000	20,040,000	20,107,000	20,177,000	20,258,000	20,295,000	20,305,000
Full-time	12,103,000	12,135,000	12,133,000	12,129,000	12,131,000	12,145,000	12,178,000	12,220,000	12,264,000	12,272,000	12,261,000
Males Females	5,434,000 6,669,000	5,447,000 6,689,000	5,444,000 6,689,000	5,437,000 6,691,000	5,434,000 6,696,000	5,439,000 6,706,000	5,453,000 6,725,000	5,472,000 6,748,000	5,493,000 6,770,000	5,499,000 6,773,000	5,494,000 6,767,000
Part-time	7,725,000	7,768,000	7,795,000	7,828,000	7,860,000	7,895,000	7,929,000	7,957,000	7,994,000	8,023,000	8,044,000
Males Females	3,163,000 4,563,000	3,181,000 4,588,000	3,193,000 4,602,000	3,207,000 4,621,000	3,222,000 4,639,000	3,237,000 4,658,000	3,250,000 4,678,000	3,261,000 4,696,000	3,276,000 4,718,000	3,289,000 4,734,000	3,298,000 4,746,000
=											
4-year Full-time	<b>13,864,000</b> 9,870,000	<b>13,912,000</b> 9,897,000	<b>13,924,000</b> 9,895,000	<b>13,938,000</b> 9,891,000	<b>13,956,000</b> 9,893,000	<b>13,985,000</b> 9,904,000	<b>14,030,000</b> 9,932,000	<b>14,079,000</b> 9,966,000	<b>14,134,000</b> 10,001,000	<b>14,155,000</b> 10,008,000	<b>14,157,000</b> 9,999,000
Males	4,418,000	4,429,000	4,427,000	4,421,000	4,419,000	4,423,000	4,434,000	4,449,000	4,467,000	4,471,000	4,467,000
Females Part-time	5,452,000 3,993,000	5,468,000 4,016,000	5,468,000 4,029,000	5,470,000 4,046,000	5,474,000 4,063,000	5,482,000 4,081,000	5,498,000 4,098,000	5,517,000 4,113,000	5,535,000 4,132,000	5,537,000 4,147,000	5,532,000 4,158,000
Males	1,604,000	1,613,000	1,619,000	1,626,000	1,634,000	1,641,000	1,648,000	1,653,000	1,661,000	1,668,000	1,673,000
Females	2,390,000	2,403,000	2,410,000	2,420,000	2,430,000	2,440,000	2,450,000	2,459,000	2,471,000	2,479,000	2,486,000
Public 4-year	8,879,000	8,910,000	8,918,000	8,926,000	8,938,000	8,957,000	8,986,000	9,017,000	9,052,000	9,066,000	9,067,000
Full-time Males	6,324,000 2,917,000	6,341,000 2.924.000	6,339,000 2,922,000	6,337,000 2,919,000	6,338,000 2,917,000	6,345,000 2.920.000	6,363,000 2,927,000	6,385,000 2,937,000	6,408,000 2,949,000	6,412,000 2,952,000	6,406,000 2,949,000
Females	3,407,000	3,417,000	3,417,000	3,419,000	3,421,000	3,426,000	3,436,000	3,448,000	3,459,000	3,460,000	3,457,000
Part-time Males	2,555,000 1,084,000	2,570,000 1,090,000	2,578,000 1,094,000	2,589,000 1,099,000	2,600,000 1,104,000	2,612,000 1,109,000	2,623,000 1,114,000	2,632,000 1,117,000	2,644,000 1,123,000	2,654,000 1,127,000	2,661,000 1,130,000
Females	1,471,000	1,479,000	1,484,000	1,490,000	1,496,000	1,502,000	1,509,000	1,514,000	1,521,000	1,527,000	1,531,000
Private 4-year	4,984,000	5,002,000	5,006,000	5,011,000	5,018,000	5,029,000	5,045,000	5,062,000	5,082,000	5,090,000	5,090,000
Full-time Males	3,546,000 1,502,000	3,556,000 1,505,000	3,555,000 1,504,000	3,554,000 1,502,000	3,555,000 1,502,000	3,559,000 1,503,000	3,569,000 1,507,000	3,581,000 1,512,000	3,594,000 1,518,000	3,596,000 1,520,000	3,593,000 1,518,000
Females	2,045,000	2,051,000	2,051,000	2,052,000	2,053,000	2,056,000	2,062,000	2,069,000	2,076,000	2,077,000	2,075,000
Part-time Males	1,438,000 520,000	1,446,000 523,000	1,451,000 525,000	1,457,000 527,000	1,463,000 530,000	1,469,000 532,000	1,476,000 534,000	1,481,000 536,000	1,488,000 539,000	1,493,000 541.000	1,497,000 542,000
Females	918,000	923,000	926,000	930,000	934,000	937,000	941,000	945,000	949,000	953,000	955,000
Nonprofit 4-year	_	_	_	_	_		_	_	_	_	_
Full-time Males	_	_	_	_	_	_	_	_	_	_	_
Females	_	_	_	_	_	_	_	_	_	_	_
Part-time Males	_	_	_	_	_	_	_	_	_	_	_
Females	_	_	—	_	_	_	_	_	_	_	_
For-profit 4-year	_		_	_		_	_	_	_		
2-year	5,965,000	5,991,000	6,004,000	6,019,000	6,035,000	6,054,000	6,077,000	6,098,000	6,124,000	6,140,000	6,148,000
Full-time Males	2,233,000 1,016,000	2,239,000 1,018,000	2,238,000 1,018,000	2,237,000 1,016,000	2,238,000	2,240,000 1,017,000	2,247,000 1,019,000	2,254,000 1,023,000	2,262,000 1,027,000	2,264,000 1,028,000	2,262,000
Females	1,217,000	1,221,000	1,221,000	1,221,000	1,222,000	1,224,000	1,227,000	1,232,000	1,236,000	1,236,000	1,235,000
Part-time Males	3,732,000 1,559,000	3,753,000 1,568,000	3,766,000 1,574,000	3,781,000 1,581,000	3,797,000 1,588,000	3,814,000 1,596,000	3,830,000 1,602,000	3,844,000 1,607,000	3,862,000 1,615,000	3,876,000 1,621,000	3,886,000 1,626,000
Females	2,173,000	2,185,000	2,192,000	2,201,000	2,209,000	2,219,000	2,228,000	2,237,000	2,247,000	2,255,000	2,260,000
Public 2-year	5,729,000	5,755,000	5,767,000	5,782,000	5,798,000	5,817,000	5,839,000	5,859,000	5,884,000	5,900,000	5,908,000
Full-time	2,022,000	2,027,000	2,027,000	2,026,000	2,026,000	2,029,000	2,034,000	2,041,000	2,049,000	2,050,000	2,048,000
Males Females	948,000 1,074,000	950,000	950,000 1,077,000	948,000 1,078,000	948,000	949,000 1,080,000	951,000 1,083,000	954,000 1,087,000	958,000 1,090,000	959,000	958,000 1,090,000
Part-time Males	3,707,000 1,552,000	3,728,000	3,740,000	3,756,000	3,772,000 1,581,000	3,789,000 1,589,000	3,805,000 1,595,000	3,818,000 1,600,000	3,836,000 1,608,000	3,850,000 1,614,000	3,860,000 1,619,000
Females	2,155,000	1,561,000 2,166,000	1,567,000 2,173,000	1,574,000 2,182,000	2,191,000	2,200,000	2,209,000	2,218,000	2,228,000	2,235,000	2,241,000
Private 2-year	236,000	237,000	237,000	237,000	237,000	237,000	238,000	239,000	240,000	240,000	240,000
Full-time	211,000	211,000	211,000	211,000	211,000	212,000	212,000	213,000	214,000	214,000	214,000
Males Females	68,000 143,000	68,000 144,000	68,000 144,000	68,000 144,000	68,000 144,000	68,000 144,000	68,000 144,000	68,000 145,000	68,000 145,000	69,000 145,000	69,000 145,000
Part-time	25,000	25,000	25,000	25,000	25,000	26,000	26,000	26,000	26,000	26,000	26,000
Males Females	6,000 19,000	7,000 19,000	7,000 19,000	7,000 19,000							
Nonprofit 2-year	_			_		_	_			_	_
Full-time	_	_	_	_	_	_	_	_	_	_	_
Males Females						_	_				_
Part-time	_	_	_	_	_	_	_	_	_	_	—
Males Females							_				_
For-profit 2-year	_	_	_	_	_	_	_		_	_	_

-Not available.

<sup>1</sup>Large increase in private 2-year institutions in 1980 is due to the addition of schools accredited by the Accrediting Commission of Career Schools and Colleges of Technology. NOTE: Data through 1995 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. The degree-granting classification is very similar to the earlier higher education classification, but it includes more 2-year colleges and excludes a few higher education institutions that did not grant degrees. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Higher Education General Information Survey (HEGIS), "Fall Enrollment in Colleges and Universities" surveys, 1970 through 1985; Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment Survey" (IPEDS-EF:90-99); IPEDS Spring 2001 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This table was prepared March 2019.)

### Table 15. Total fall enrollment in degree-granting postsecondary institutions, by attendance status, sex, and age: Selected years, 1970 through 2028

						[													
Attendance status, sex, and age	1970	1980	1990	2000	2005	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	ected 2020	2028
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
All students	8,581	12,097				19,082		21,019			20,377	20,209	19,988		19,766	19,828	19,904		20,305
14 to 17 years old	263	257	153	131	187	195	215	202	221	242	256	239	214	214	221	227	224	226	226
	2,579	2,852	2,777	3,258	3,444	3,808	4,009	4,057	3,956	3,782	3,720	3,720	3,732	3,738	3,749	4,028	4,055	3,996	3,978
	1,885	2,395	2,593	3,005	3,563	3,645	3,916	4,103	4,269	4,235	4,183	4,163	4,148	4,204	4,166	4,464	4,476	4,529	4,589
	1,469	1,947	2,202	2,600	3,114	3,440	3,571	3,759	3,793	3,951	3,964	3,910	3,785	3,736	3,750	3,764	3,731	3,719	3,776
	1,091	1,843	2,083	2,044	2,469	2,837	3,082	3,254	3,272	3,155	3,050	3,084	3,165	3,192	3,188	3,065	3,076	3,051	2,969
	527	1,227	1,384	1,333	1,438	1,607	1,735	1,805	1,788	1,684	1,606	1,586	1,600	1,589	1,560	1,388	1,413	1,441	1,473
	767	1,577	2,627	2,942	3,272	3,550	3,785	3,840	3,712	3,597	3,597	3,507	3,344	3,174	3,131	2,893	2,928	2,966	3,295
Males           14 to 17 years old           18 and 19 years old           20 and 21 years old           22 to 24 years old           25 to 29 years old           30 to 34 years old           35 years old and over	<b>5,044</b>	<b>5,874</b>	<b>6,284</b>	<b>6,722</b>	<b>7,456</b>	<b>8,178</b>	<b>8,733</b>	<b>9,046</b>	<b>9,034</b>	<b>8,919</b>	<b>8,861</b>	<b>8,798</b>	<b>8,724</b>	<b>8,638</b>	<b>8,568</b>	8,596	<b>8,628</b>	<b>8,637</b>	8,792
	125	106	66	58	68	92	103	94	104	119	125	117	94	83	74	84	83	84	84
	1,355	1,368	1,298	1,464	1,523	1,702	1,795	1,820	1,782	1,707	1,661	1,673	1,684	1,688	1,666	1,731	1,742	1,714	1,707
	1,064	1,219	1,259	1,411	1,658	1,693	1,866	1,948	1,985	1,960	1,955	1,960	1,954	1,945	1,914	2,025	2,031	2,056	2,079
	1,004	1,075	1,129	1,222	1,410	1,553	1,599	1,723	1,769	1,864	1,846	1,789	1,746	1,739	1,731	1,761	1,743	1,736	1,759
	796	983	1,024	908	1,057	1,221	1,378	1,410	1,404	1,353	1,356	1,379	1,382	1,366	1,358	1,325	1,333	1,324	1,282
	333	564	605	581	591	690	707	731	700	661	634	643	655	670	660	613	625	638	657
	366	559	902	1,077	1,149	1,227	1,285	1,320	1,290	1,255	1,283	1,237	1,208	1,148	1,164	1,057	1,071	1,086	1,226
Females           14 to 17 years old           18 and 19 years old           20 and 21 years old           22 to 24 years old           25 to 29 years old           30 to 34 years old           35 years old and over	<b>3,537</b>	<b>6,223</b>	<b>7,535</b>	<b>8,591</b>	<b>10,032</b>	<b>10,904</b>	<b>11,581</b>	<b>11,974</b>	<b>11,976</b>	<b>11,725</b>	<b>11,515</b>	<b>11,412</b>	<b>11,264</b>	<b>11,208</b>	<b>11,198</b>	<b>11,232</b>	<b>11,276</b>	<b>11,291</b>	<b>11,513</b>
	137	151	87	73	119	102	113	108	116	123	131	121	120	131	147	143	142	142	142
	1,224	1,484	1,479	1,794	1,920	2,107	2,214	2,237	2,173	2,074	2,059	2,047	2,049	2,050	2,082	2,297	2,313	2,282	2,271
	821	1,177	1,334	1,593	1,905	1,952	2,050	2,155	2,284	2,276	2,228	2,203	2,194	2,259	2,252	2,439	2,445	2,473	2,511
	464	871	1,073	1,378	1,704	1,887	1,972	2,036	2,024	2,087	2,118	2,122	2,038	1,997	2,019	2,002	1,988	1,983	2,017
	296	859	1,059	1,136	1,413	1,616	1,704	1,844	1,868	1,802	1,694	1,706	1,783	1,826	1,831	1,739	1,743	1,727	1,687
	194	663	779	752	847	917	1,028	1,074	1,088	1,022	972	943	945	919	900	775	788	803	816
	401	1,018	1,725	1,865	2,123	2,323	2,500	2,520	2,422	2,341	2,314	2,270	2,136	2,026	1,967	1,836	1,857	1,880	2,069
Full-time           14 to 17 years old           18 and 19 years old           20 and 21 years old           22 to 24 years old           25 to 29 years old           30 to 34 years old           35 years old and over	<b>5,816</b>	<b>7,098</b>	<b>7,821</b>	<b>9,010</b>	<b>10,797</b>	<b>11,735</b>	<b>12,605</b>	<b>13,087</b>	<b>13,003</b>	<b>12,734</b>	<b>12,597</b>	<b>12,454</b>	<b>12,288</b>	<b>12,125</b>	<b>12,077</b>	<b>12,103</b>	<b>12,135</b>	<b>12,133</b>	<b>12,261</b>
	246	231	134	121	152	168	179	170	185	207	210	200	182	186	188	178	176	177	177
	2,374	2,544	2,471	2,823	3,026	3,356	3,481	3,496	3,351	3,226	3,199	3,174	3,188	3,161	3,206	3,314	3,335	3,285	3,272
	1,649	2,007	2,137	2,452	2,976	3,039	3,241	3,364	3,427	3,386	3,327	3,326	3,290	3,365	3,350	3,592	3,602	3,646	3,693
	904	1,181	1,405	1,714	2,122	2,345	2,511	2,585	2,580	2,603	2,650	2,597	2,568	2,502	2,500	2,401	2,382	2,374	2,411
	426	641	791	886	1,174	1,368	1,506	1,605	1,600	1,555	1,528	1,525	1,519	1,478	1,471	1,363	1,368	1,357	1,320
	113	272	383	418	547	571	657	745	763	711	664	626	601	583	558	519	528	539	550
	104	221	500	596	800	889	1,030	1,122	1,096	1,047	1,018	1,005	941	852	805	736	745	754	838
Males           14 to 17 years old           18 and 19 years old           20 and 21 years old           22 to 24 years old           25 to 29 years old           30 to 34 years old           35 years old and over	<b>3,504</b>	<b>3,689</b>	<b>3,808</b>	<b>4,111</b>	<b>4,803</b>	<b>5,227</b>	<b>5,632</b>	<b>5,838</b>	<b>5,793</b>	<b>5,708</b>	<b>5,682</b>	<b>5,620</b>	<b>5,558</b>	<b>5,473</b>	<b>5,425</b>	<b>5,434</b>	<b>5,447</b>	<b>5,444</b>	<b>5,494</b>
	121	95	55	51	53	73	77	71	85	102	106	100	81	71	64	61	60	61	61
	1,261	1,219	1,171	1,252	1,339	1,514	1,570	1,574	1,510	1,461	1,423	1,402	1,414	1,416	1,427	1,438	1,447	1,423	1,417
	955	1,046	1,035	1,156	1,398	1,405	1,536	1,586	1,586	1,537	1,542	1,549	1,546	1,552	1,535	1,658	1,663	1,684	1,702
	686	717	768	834	982	1,104	1,169	1,215	1,217	1,254	1,270	1,236	1,208	1,173	1,160	1,134	1,123	1,119	1,134
	346	391	433	410	506	596	661	715	727	728	734	732	709	689	683	650	654	650	629
	77	142	171	186	225	248	279	301	299	278	257	242	251	253	251	221	226	231	238
	58	80	174	222	300	287	341	376	369	349	351	360	349	320	305	271	274	278	314
Females           14 to 17 years old           18 and 19 years old           20 and 21 years old           22 to 24 years old           25 to 29 years old           30 to 34 years old           35 years old and over	<b>2,312</b>	<b>3,409</b>	<b>4,013</b>	<b>4,899</b>	<b>5,994</b>	<b>6,508</b>	<b>6,973</b>	<b>7,249</b>	<b>7,210</b>	<b>7,026</b>	6,914	<b>6,835</b>	6,729	<b>6,653</b>	<b>6,653</b>	<b>6,669</b>	<b>6,689</b>	<b>6,689</b>	<b>6,767</b>
	125	136	78	70	98	95	102	99	100	105	104	101	101	115	125	117	116	116	116
	1,113	1,325	1,300	1,571	1,687	1,841	1,911	1,922	1,842	1,765	1,776	1,773	1,774	1,745	1,779	1,876	1,889	1,863	1,854
	693	961	1,101	1,296	1,578	1,634	1,705	1,778	1,840	1,849	1,785	1,777	1,744	1,813	1,815	1,934	1,939	1,962	1,991
	218	464	638	880	1,140	1,241	1,343	1,370	1,364	1,349	1,380	1,362	1,359	1,329	1,339	1,267	1,259	1,256	1,278
	80	250	358	476	668	771	845	891	873	827	794	793	810	789	788	712	714	707	691
	37	130	212	232	322	322	378	444	464	433	408	384	350	330	307	298	302	308	313
	46	141	326	374	500	602	690	746	727	698	667	645	592	532	500	465	470	476	524
Part-time           14 to 17 years old           18 and 19 years old           20 and 21 years old           22 to 24 years old           25 to 29 years old           30 to 34 years old           35 years old and over	<b>2,765</b> 16 205 236 564 665 414 663	<b>4,999</b> 26 308 388 765 1,202 954 1,356	<b>5,998</b> 19 306 456 796 1,291 1,001 2,127	<b>6,303</b> 10 435 553 886 1,158 915 2,345	<b>6,690</b> 36 417 586 992 1,296 891 2,472	<b>7,347</b> 27 453 606 1,095 1,469 1,036 2,661	<b>7,708</b> 36 528 675 1,059 1,576 1,079 2,754	1,648	<b>8,008</b> 36 604 842 1,212 1,672 1,025 2,616	<b>7,910</b> 35 556 850 1,348 1,600 973 2,550	<b>7,780</b> 47 521 855 1,314 1,522 942 2,579	<b>7,755</b> 38 546 836 1,313 1,560 960 2,502	<b>7,701</b> 32 545 858 1,217 1,646 1,000 2,404	<b>7,722</b> 28 577 839 1,235 1,715 1,006 2,322	<b>7,688</b> 33 543 816 1,250 1,718 1,002 2,327	<b>7,725</b> 49 714 872 1,362 1,702 869 2,157	<b>7,768</b> 48 720 874 1,350 1,708 885 2,184	<b>7,795</b> 49 710 883 1,344 1,694 902 2,212	<b>8,044</b> 49 706 897 1,365 1,649 922 2,457
Males           14 to 17 years old           18 and 19 years old           20 and 21 years old           22 to 24 years old           25 to 29 years old           30 to 34 years old           35 years old and over	<b>1,540</b>	<b>2,185</b>	<b>2,476</b>	<b>2,611</b>	<b>2,653</b>	<b>2,951</b>	<b>3,101</b>	<b>3,207</b>	<b>3,241</b>	<b>3,211</b>	<b>3,179</b>	<b>3,178</b>	<b>3,165</b>	<b>3,166</b>	<b>3,143</b>	<b>3,163</b>	<b>3,181</b>	<b>3,193</b>	<b>3,298</b>
	4	12	11	7	15	20	25	23	20	17	20	18	13	12	11	23	23	23	23
	94	149	127	212	184	188	226	245	273	246	239	271	270	272	239	293	296	291	289
	108	172	224	255	260	288	330	362	398	423	413	411	408	393	379	367	368	372	377
	318	359	361	388	428	449	430	508	552	610	576	553	538	566	571	627	620	617	625
	450	592	591	498	551	624	718	695	677	625	622	646	673	677	674	675	679	674	653
	257	422	435	395	365	442	428	430	401	383	377	401	405	417	409	391	399	408	420
	309	479	728	855	850	940	944	944	921	906	932	877	859	829	859	786	797	808	912
Females           14 to 17 years old           18 and 19 years old           20 and 21 years old           22 to 24 years old           25 to 29 years old           30 to 34 years old           35 years old and over	<b>1,225</b> 12 112 128 246 216 158 354	<b>2,814</b> 14 159 216 407 609 532 876	9 179 233 435 700 567	<b>3,692</b> 3 223 298 497 660 520 1,491	<b>4,038</b> 21 233 327 564 745 526 1,623	<b>4,396</b> 7 265 318 646 845 595 1,721	<b>4,607</b> 11 303 345 629 859 651 1,810	<b>4,725</b> 9 316 377 666 953 630 1,774	<b>4,767</b> 16 332 444 660 995 624 1,695	<b>4,699</b> 18 310 427 738 975 589 1,643	<b>4,601</b> 27 283 443 738 900 565 1,647	<b>4,577</b> 20 274 425 760 913 559 1,625	<b>4,535</b> 19 275 450 679 973 595 1,544	<b>4,556</b> 16 305 446 668 1,037 589 1,493	<b>4,545</b> 22 303 437 679 1,043 593 1,467	<b>4,563</b> 26 421 505 735 1,027 478 1,371	<b>4,588</b> 26 425 506 729 1,029 485 1,387	26 419 511	<b>4,746</b> 26 417 520 740 996 503 1,545

NOTE: Distributions by age are estimates based on samples of the civilian noninstitutionalized population from the U.S. Census Bureau's Current Population Survey. Data through 1995 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. The degree-granting classification is very similar to the earlier higher education classification, but it includes more 2-year colleges and excludes a few higher education institutions that did not grant degrees. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding. SOURCE: U.S. Department of Education, National Center for Education Statistics, Higher Education General Information Survey (HEGIS), "Fall Enrollment in Colleges and Universities" surveys, 1970 and 1980; Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment Survey" (IPEDS-EF:90–99); IPEDS Spring 2001 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. U.S. Department of Commerce, Census Bureau, Current Population Survey (CPS), October, selected years, 1970 through 2017. (This table was prepared March 2019.)

## Table 16. Total undergraduate fall enrollment in degree-granting postsecondary institutions, by attendance status, sex of student, and control and level of institution: Selected years, 1970 through 2028

						Ма	les	Fem	ales			Private	
Level and year	Total	Full-time	Part-time	Males	Females	Full-time	Part-time	Full-time	Part-time	Public	Total	Nonprofit	For-profit
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>Total, all levels</b> 1970 1975 1980		5,280,064 6,168,396 6,361,744	2,088,580 3,511,059 4,113,311	4,249,702 5,257,005 5,000,177	3,118,942 4,422,450 5,474,878	3,096,371 3,459,328 3,226,857	1,153,331 1,797,677 1,773,320	2,183,693 2,709,068 3,134,887	935,249 1,713,382 2,339,991	5,620,255 7,826,032 8,441,955	1,748,389 1,853,423 2,033,100	1,730,133 1,814,844 1,926,703	18,256 38,579 106,397
1985 1986 1987 1988 1988	11,316,548 11,742,531	6,642,428 6,840,696	4,277,082 4,445,902 4,583,686 4,674,120 4,901,835	4,962,080 5,017,505 5,068,457 5,137,644 5,310,990	5,634,594 5,780,470 5,977,778 6,178,904 6,431,541	3,156,446 3,146,330 3,163,676 3,206,442 3,278,647	1,805,634 1,871,175 1,904,781 1,931,202 2,032,343	3,163,146 3,205,743 3,298,873 3,435,986 3,562,049	2,471,448 2,574,727 2,678,905 2,742,918 2,869,492	8,477,125 8,660,716 8,918,589 9,103,146 9,487,742	2,119,549 2,137,259 2,127,646 2,213,402 2,254,789	1,928,996 1,928,294 1,939,942 — —	190,553 208,965 187,704
1990 1991 1992 1993 1994		6,976,030 7,221,412 7,244,442 7,179,482 7,168,706	4,983,076 5,217,875 5,293,258 5,144,477 5,093,902	5,379,759 5,571,003 5,582,936 5,483,682 5,422,113	6,579,347 6,868,284 6,954,764 6,840,277 6,840,495	3,336,535 3,435,526 3,424,739 3,381,997 3,341,591	2,043,224 2,135,477 2,158,197 2,101,685 2,080,522	3,639,495 3,785,886 3,819,703 3,797,485 3,827,115	3,135,061	9,709,596 10,147,957 10,216,297 10,011,787 9,945,128	2,249,510 2,291,330 2,321,403 2,312,172 2,317,480	2,043,407 2,072,354 2,101,721 2,099,197 2,100,465	206,103 218,976 219,682 212,975 217,015
1995 1996 1997 1998 1999	12,450,587 12,436,937 12,739,445	7,145,268 7,298,839 7,418,598 7,538,711 7,753,548	5,086,451 5,028,109 5,031,989 4,898,226 4,985,897	5,401,130 5,420,672 5,468,532 5,446,133 5,584,234	6,830,589 6,906,276 6,982,055 6,990,804 7,155,211	3,296,610 3,339,108 3,379,597 3,428,161 3,524,586	2,104,520 2,081,564 2,088,935 2,017,972 2,059,648	3,848,658 3,959,731 4,039,001 4,110,550 4,228,962	2,981,931 2,946,545 2,943,054 2,880,254 2,926,249	9,903,626 9,935,283 10,007,479 9,950,212 10,174,228	2,328,093 2,391,665 2,443,108 2,486,725 2,565,217	2,104,693 2,112,318 2,139,824 2,152,655 2,185,290	223,400 279,347 303,284 334,070 379,927
2000 2001 2002 2003 2004	13,715,610 14,257,077 14,480,364 14,780,630	7,922,926 8,327,640 8,734,252 9,045,253 9,284,336	5,232,467 5,387,970 5,522,825 5,435,111 5,496,294	5,778,268 6,004,431 6,192,390 6,227,372 6,340,048	7,377,125 7,711,179 8,064,687 8,252,992 8,440,582	3,588,246 3,768,630 3,934,168 4,048,682 4,140,628	2,190,022 2,235,801 2,258,222 2,178,690 2,199,420	4,334,680 4,559,010 4,800,084 4,996,571 5,143,708	3,152,169 3,264,603 3,256,421	10,539,322 10,985,871 11,432,855 11,523,103 11,650,580	2,616,071 2,729,739 2,824,222 2,957,261 3,130,050	2,213,180 2,257,718 2,306,091 2,346,673 2,389,366	402,891 472,021 518,131 610,588 740,684
2005 2006 2007 2008 2009	17,464,179	11,038,275	5,517,534 5,608,242 5,771,567 6,100,418 6,425,904	6,408,871 6,511,198 6,731,561 7,055,640 7,563,176	8,555,093 8,668,393 8,881,979 9,288,952 9,901,003	4,200,863 4,264,722 4,397,402 4,570,913 4,942,120	2,208,008 2,246,476 2,334,159 2,484,727 2,621,056	5,245,567 5,306,627 5,444,571 5,673,261 6,096,155	3,361,766 3,437,408 3,615,691	11,697,730 11,842,625 12,147,744 12,589,947 13,386,375	3,266,234 3,336,966 3,465,796 3,754,645 4,077,804	2,418,368 2,448,250 2,470,463 2,535,789 2,595,171	847,866 888,716 995,333 1,218,856 1,482,633
2010 2011 2012 2013 2014	18,077,303 17,735,638 17,476,304 17,294,136	11,365,175 11,097,092 10,939,276 10,784,392	6,625,387 6,712,128 6,638,546 6,537,028 6,509,744	7,836,282 7,822,992 7,714,938 7,660,140 7,586,299	10,246,145 10,254,311 10,020,700 9,816,164 9,707,837	5,118,975 5,070,553 4,984,389 4,950,210 4,877,531	2,717,307 2,752,439 2,730,549 2,709,930 2,708,768	6,338,065 6,294,622 6,112,703 5,989,066 5,906,861	3,959,689 3,907,997 3,827,098 3,800,976	13,703,000 13,694,899 13,478,100 13,348,292 13,244,533	4,379,427 4,382,404 4,257,538 4,128,012 4,049,603	2,652,993 2,718,923 2,744,400 2,755,463 2,772,065	1,726,434 1,663,481 1,513,138 1,372,549 1,277,538
2015 2016 2017 2018 <sup>1</sup> 2019 <sup>1</sup>	16,760,331 16,813,000 16,877,000	10,370,665 10,393,000 10,421,000	6,443,643 6,444,581 6,389,666 6,421,000 6,456,000	7,502,254 7,416,859 7,347,438 7,372,000 7,399,000	9,544,419 9,457,790 9,412,893 9,441,000 9,478,000	4,809,098 4,725,510 4,683,665 4,692,000 4,703,000	2,693,156 2,691,349 2,663,773 2,680,000 2,696,000	5,793,932 5,704,558 5,687,000 5,701,000 5,718,000	3,740,000 3,761,000	13,150,823 13,143,979 13,100,953 13,144,000 13,195,000	3,895,850 3,730,670 3,659,378 3,669,000 3,682,000	2,822,122 2,813,742 2,817,017 	1,073,728 916,928 842,361 
2020 <sup>1</sup> 2021 <sup>1</sup> 2022 <sup>1</sup> 2023 <sup>1</sup> 2024 <sup>1</sup>			6,478,000 6,506,000 6,533,000 6,562,000 6,590,000	7,407,000 7,412,000 7,422,000 7,440,000 7,463,000	9,490,000 9,508,000 9,527,000 9,551,000 9,584,000	4,701,000 4,695,000 4,692,000 4,696,000 4,708,000	2,706,000 2,718,000 2,730,000 2,743,000 2,755,000	5,718,000 5,720,000 5,724,000 5,732,000 5,749,000	3.803.000	13,213,000 13,234,000 13,259,000 13,293,000 13,338,000	3,684,000 3,686,000 3,690,000 3,697,000 3,709,000	 	 
2025 <sup>1</sup> 2026 <sup>1</sup> 2027 <sup>1</sup> 2028 <sup>1</sup> <b>2-year institutions</b> <sup>2</sup>	17,106,000 17,175,000 17,206,000 17,214,000	10,493,000 10,531,000 10,538,000 10,528,000	6,613,000 6,644,000 6,668,000 6,686,000	7,488,000 7,520,000 7,536,000 7,539,000	9,618,000 9,655,000 9,670,000 9,675,000	4,725,000 4,743,000 4,748,000 4,744,000	2,763,000 2,777,000 2,788,000 2,795,000	5,769,000 5,788,000 5,790,000 5,785,000	3,867,000 3,880,000	13,385,000 13,439,000 13,465,000 13,474,000	3,722,000 3,736,000 3,741,000 3,740,000	 	 
1970 1975 1980	2,318,956 3,965,726 4,525,097	1,228,909 1,761,009 1,753,637	2,771,460	2,046,642	2,478,455	771,298 1,035,531 879,619	603,128 1,128,073 1,167,023	457,611 725,478 874,018		2,194,983 3,831,973 4,327,592	123,973 133,753 197,505	113,299 112,997 114,094	10,674 20,756 83,411
1985 1986 1987 1988 1988		1,690,607 1,696,261 1,708,669 1,743,592 1,855,701	2,840,470 2,983,287 3,067,553 3,131,563 3,295,188	2,002,234 2,060,932 2,072,823 2,089,689 2,216,800	2,528,843 2,618,616 2,703,399 2,785,466 2,934,089	826,308 824,551 820,167 818,593 869,688	1,175,926 1,236,381 1,252,656 1,271,096 1,347,112	864,299 871,710 888,502 924,999 986,013	1,664,544 1,746,906 1,814,897 1,860,467 1,948,076	4,269,733 4,413,691 4,541,054 4,615,487 4,883,660	261,344 265,857 235,168 259,668 267,229	108,791 101,498 90,102 —	152,553 164,359 145,066 
1990 1991 1992 1993 1994		2,043,319 2,031,713	3,356,121 3,577,370 3,642,344 3,522,242 3,497,896	2,232,769 2,401,910 2,413,266 2,345,396 2,323,161	3,007,314 3,249,990 3,309,083 3,220,165 3,206,448	881,392 961,397 951,816 928,216 911,589	1,351,377 1,440,513 1,461,450 1,417,180 1,411,572	1,002,570 1,113,133 1,128,189 1,115,103 1,120,124	2,004,744 2,136,857 2,180,894 2,105,062 2,086,324	4,996,475 5,404,815 5,484,514 5,337,022 5,308,366	243,608 247,085 237,835 228,539 221,243	89,158 89,289 83,288 86,357 85,607	154,450 157,796 154,547 142,182 135,636
1995 1996 1997 1998 1998		2,095,171 2,085,906 2,167,242	3,515,052 3,490,565 3,510,398 3,403,408 3,486,014	2,328,500 2,358,792 2,389,711 2,333,334 2,413,322	3,163,598 3,203,988 3,215,858 3,155,980 3,239,934	878,215 916,452 931,394 936,421 979,203	1,450,285 1,442,340 1,458,317 1,396,913 1,434,119	1,098,831 1,155,763 1,163,777 1,149,485 1,188,039	2,064,767 2,048,225 2,052,081 2,006,495 2,051,895	5,277,398 5,314,038 5,360,686 5,245,963 5,397,786	214,700 248,742 244,883 243,351 255,470	75,154 75,253 71,794 65,870 63,301	139,546 173,489 173,089 177,481 192,169
2000 2001 2002 2003 2004	5,948,104 6,250,529 6,529,198 6,493,862 6,545,570	2,217,044 2,374,490 2,556,032 2,650,337 2,683,489	3,731,060 3,876,039 3,973,166 3,843,525 3,862,081	2,558,520 2,675,193 2,753,405 2,689,928 2,697,507	3,389,584 3,575,336 3,775,793 3,803,934 3,848,063	995,839 1,066,281 1,135,669 1,162,555 1,166,554	1,562,681 1,608,912 1,617,736 1,527,373 1,530,953	1,221,205 1,308,209 1,420,363 1,487,782 1,516,935	2,168,379 2,267,127 2,355,430 2,316,152 2,331,128	5,697,061 5,996,651 6,270,199 6,208,885 6,243,344	251,043 253,878 258,999 284,977 302,226	58,844 47,549 47,087 43,868 42,250	192,199 206,329 211,912 241,109 259,976
2005 2006 2007 2008 2009	6,487,826 6,513,303 6,628,936 6,970,947 7,522,581	2,646,763 2,643,162 2,694,608 2,832,412 3,243,952	3,841,063 3,870,141 3,934,328 4,138,535 4,278,629	2,680,299 2,701,970 2,775,166 2,935,799 3,197,338	3,807,527 3,811,333 3,853,770 4,035,148 4,325,243	1,153,759 1,159,733 1,191,058 1,250,063 1,446,372	1,526,540 1,542,237 1,584,108 1,685,736 1,750,966	1,493,004 1,483,429 1,503,550 1,582,349 1,797,580	2,314,523 2,327,904 2,350,220 2,452,799 2,527,663	6,184,000 6,219,880 6,335,826 6,639,928 7,101,569	303,826 293,423 293,110 331,019 421,012	43,522 39,156 33,492 35,358 34,772	260,304 254,267 259,618 295,661 386,240

### Table 16. Total undergraduate fall enrollment in degree-granting postsecondary institutions, by attendance status, sex of student, and control and level of institution: Selected years, 1970 through 2028—Continued

						Males		Fem	ales		Private		
Level and year	Total	Full-time	Part-time	Males	Females	Full-time	Part-time	Full-time	Part-time	Public	Total	Nonprofit	For-profit
1	2	3	4	5	6	7	8	9	10	11	12	. 13	. 14
2010 2011 2012 2013 2014	7,683,597 7,511,150 7,167,840 6,970,644 6,714,678	3,365,379 3,170,207 2,941,797 2,836,274 2,661,107	4,318,218 4,340,943 4,226,043 4,134,370 4,053,571	3,265,885 3,175,803 3,046,093 2,998,440 2,894,020	4,417,712 4,335,347 4,121,747 3,972,204 3,820,658	1,483,230 1,391,183 1,305,657 1,279,794 1,200,648	1,782,655 1,784,620 1,740,436 1,718,646 1,693,372	1,882,149 1,779,024 1,636,140 1,556,480 1,460,459	2,535,563 2,556,323 2,485,607 2,415,724 2,360,199	7,218,063 7,068,158 6,792,065 6,626,411 6,397,552	465,534 442,992 375,775 344,233 317,126	32,683 39,855 37,698 32,191 30,376	432,851 403,137 338,077 312,042 286,750
2015 2016 2017 2018 <sup>1</sup> 2019 <sup>1</sup>	6,499,461 6,092,418 5,941,958 5,965,000 5,991,000	2,510,684 2,309,347 2,227,977 2,233,000 2,239,000	3,988,777 3,783,071 3,713,981 3,732,000 3,753,000	2,818,075 2,637,394 2,563,062 2,574,000 2,586,000	3,681,386 3,455,024 3,378,896 3,390,000 3,406,000	1,143,704 1,057,839 1,013,848 1,016,000 1,018,000	1,674,371 1,579,555 1,549,214 1,559,000 1,568,000	1,366,980 1,251,508 1,214,129 1,217,000 1,221,000	2,314,406 2,203,516 2,164,767 2,173,000 2,185,000	6,224,304 5,842,909 5,706,678 5,729,000 5,755,000	275,157 249,509 235,280 236,000 237,000	50,009 50,555 48,390 —	225,148 198,954 186,890
2020 <sup>1</sup> 2021 <sup>1</sup> 2022 <sup>1</sup> 2023 <sup>1</sup> 2024 <sup>1</sup>	6,004,000 6,019,000 6,035,000 6,054,000 6,077,000	2,238,000 2,237,000 2,238,000 2,240,000 2,247,000	3,766,000 3,781,000 3,797,000 3,814,000 3,830,000	2,591,000 2,597,000 2,604,000 2,612,000 2,621,000	3,412,000 3,422,000 3,431,000 3,442,000 3,456,000	1,018,000 1,016,000 1,016,000 1,017,000 1,019,000	1,574,000 1,581,000 1,588,000 1,596,000 1,602,000	1,221,000 1,221,000 1,222,000 1,224,000 1,227,000	2,192,000 2,201,000 2,209,000 2,219,000 2,228,000	5,767,000 5,782,000 5,798,000 5,817,000 5,839,000	237,000 237,000 237,000 237,000 238,000	 	 
2025 <sup>1</sup> 2026 <sup>1</sup> 2027 <sup>1</sup> 2028 <sup>1</sup>	6,098,000 6,124,000 6,140,000 6,148,000	2,254,000 2,262,000 2,264,000 2,262,000	3,844,000 3,862,000 3,876,000 3,886,000	2,630,000 2,642,000 2,649,000 2,653,000	3,468,000 3,483,000 3,491,000 3,495,000	1,023,000 1,027,000 1,028,000 1,027,000	1,607,000 1,615,000 1,621,000 1,626,000	1,232,000 1,236,000 1,236,000 1,235,000	2,237,000 2,247,000 2,255,000 2,260,000	5,859,000 5,884,000 5,900,000 5,908,000	239,000 240,000 240,000 240,000		 
<b>4-year institutions</b> 1970 1975 1980	5,049,688 5,713,729 5,949,958	4,051,155 4,407,387 4,608,107	998,533 1,306,342 1,341,851	2,875,276 3,093,401 2,953,535	2,174,412 2,620,328 2,996,423	2,325,073 2,423,797 2,347,238	550,203 669,604 606,297	1,726,082 1,983,590 2,260,869	448,330 636,738 735,554	3,425,272 3,994,059 4,114,363	1,624,416 1,719,670 1,835,595	1,616,834 1,701,847 1,812,609	7,582 17,823 22,986
1985 1986 1987 1988 1988	6,065,597 6,118,427 6,270,013 6,441,393 6,591,642	4,628,985 4,655,812 4,753,880 4,898,836 4,984,995	1,436,612 1,462,615 1,516,133 1,542,557 1,606,647	2,959,846 2,956,573 2,995,634 3,047,955 3,094,190	3,105,751 3,161,854 3,274,379 3,393,438 3,497,452	2,330,138 2,321,779 2,343,509 2,387,849 2,408,959	629,708 634,794 652,125 660,106 685,231	2,298,847 2,334,033 2,410,371 2,510,987 2,576,036	806,904 827,821 864,008 882,451 921,416	4,207,392 4,247,025 4,377,535 4,487,659 4,604,082	1,858,205 1,871,402 1,892,478 1,953,734 1,987,560	1,820,205 1,826,796 1,849,840 —	38,000 44,606 42,638 
1990 1991 1992 1993 1994	6,719,023 6,787,387 6,815,351 6,758,398 6,732,999	5,092,068 5,146,882 5,164,437 5,136,163 5,136,993	1,626,955 1,640,505 1,650,914 1,622,235 1,596,006	3,146,990 3,169,093 3,169,670 3,138,286 3,098,952	3,572,033 3,618,294 3,645,681 3,620,112 3,634,047	2,455,143 2,474,129 2,472,923 2,453,781 2,430,002	691,847 694,964 696,747 684,505 668,950	2,636,925 2,672,753 2,691,514 2,682,382 2,706,991	935,108 945,541 954,167 937,730 927,056	4,713,121 4,743,142 4,731,783 4,674,765 4,636,762	2,005,902 2,044,245 2,083,568 2,083,633 2,096,237	1,954,249 1,983,065 2,018,433 2,012,840 2,014,858	51,653 61,180 65,135 70,793 81,379
1995 1996 1997 1998 1999	6,739,621 6,764,168 6,845,018 6,947,623 7,086,189	5,168,222 5,226,624 5,323,427 5,452,805 5,586,306	1,571,399 1,537,544 1,521,591 1,494,818 1,499,883	3,072,630 3,061,880 3,078,821 3,112,799 3,170,912	3,666,991 3,702,288 3,766,197 3,834,824 3,915,277	2,418,395 2,422,656 2,448,203 2,491,740 2,545,383	654,235 639,224 630,618 621,059 625,529	2,749,827 2,803,968 2,875,224 2,961,065 3,040,923	917,164 898,320 890,973 873,759 874,354	4,626,228 4,621,245 4,646,793 4,704,249 4,776,442	2,113,393 2,142,923 2,198,225 2,243,374 2,309,747	2,029,539 2,037,065 2,068,030 2,086,785 2,121,989	83,854 105,858 130,195 156,589 187,758
2000 2001 2002 2003 2004	7,207,289 7,465,081 7,727,879 7,986,502 8,235,060	5,705,882 5,953,150 6,178,220 6,394,916 6,600,847	1,501,407 1,511,931 1,549,659 1,591,586 1,634,213	3,219,748 3,329,238 3,438,985 3,537,444 3,642,541	3,987,541 4,135,843 4,288,894 4,449,058 4,592,519	2,592,407 2,702,349 2,798,499 2,886,127 2,974,074	627,341 626,889 640,486 651,317 668,467	3,113,475 3,250,801 3,379,721 3,508,789 3,626,773	874,066 885,042 909,173 940,269 965,746	4,842,261 4,989,220 5,162,656 5,314,218 5,407,236	2,365,028 2,475,861 2,565,223 2,672,284 2,827,824	2,154,336 2,210,169 2,259,004 2,302,805 2,347,116	210,692 265,692 306,219 369,479 480,708
2005 2006 2007 2008 2009	8,476,138 8,666,288 8,984,604 9,373,645 9,941,598	6,799,667 6,928,187 7,147,365 7,411,762 7,794,323	1,676,471 1,738,101 1,837,239 1,961,883 2,147,275	3,728,572 3,809,228 3,956,395 4,119,841 4,365,838	4,747,566 4,857,060 5,028,209 5,253,804 5,575,760	3,047,104 3,104,989 3,206,344 3,320,850 3,495,748	681,468 704,239 750,051 798,991 870,090	3,752,563 3,823,198 3,941,021 4,090,912 4,298,575	995,003 1,033,862 1,087,188 1,162,892 1,277,185	5,513,730 5,622,745 5,811,918 5,950,019 6,284,806	2,962,408 3,043,543 3,172,686 3,423,626 3,656,792	2,374,846 2,409,094 2,436,971 2,500,431 2,560,399	587,562 634,449 735,715 923,195 1,096,393
2010 2011 2012 2013 2014	10,398,830 10,566,153 10,567,798 10,505,660 10,579,458	8,091,661 8,194,968 8,155,295 8,103,002 8,123,285	2,307,169 2,371,185 2,412,503 2,402,658 2,456,173	4,570,397 4,647,189 4,668,845 4,661,700 4,692,279	5,828,433 5,918,964 5,898,953 5,843,960 5,887,179	3,635,745 3,679,370 3,678,732 3,670,416 3,676,883	934,652 967,819 990,113 991,284 1,015,396	4,455,916 4,515,598 4,476,563 4,432,586 4,446,402	1,372,517 1,403,366 1,422,390 1,411,374 1,440,777	6,484,937 6,626,741 6,686,035 6,721,881 6,846,981	3,913,893 3,939,412 3,881,763 3,783,779 3,732,477	2,620,310 2,679,068 2,706,702 2,723,272 2,741,689	1,293,583 1,260,344 1,175,061 1,060,507 990,788
2015 2016 2017 2018 <sup>1</sup> 2019 <sup>1</sup>	10,547,212 10,782,231 10,818,373 10,849,000 10,885,000	8,092,346 8,120,721 8,142,688 8,160,000 8,182,000	2,454,866 2,661,510 2,675,685 2,689,000 2,704,000	4,684,179 4,779,465 4,784,376 4,797,000 4,813,000	5,863,033 6,002,766 6,033,997 6,051,000 6,073,000	3,665,394 3,667,671 3,669,817 3,676,000 3,685,000	1,018,785 1,111,794 1,114,559 1,122,000 1,128,000	4,426,952 4,453,050 4,472,871 4,484,000 4,497,000	1,436,081 1,549,716 1,561,126 1,567,000 1,576,000	6,926,519 7,301,070 7,394,275 7,415,000 7,441,000	3,620,693 3,481,161 3,424,098 3,433,000 3,445,000	2,772,113 2,763,187 2,768,627 —	848,580 717,974 655,471 
2021 <sup>1</sup> 2022 <sup>1</sup>	10,893,000 10,902,000 10,914,000 10,936,000 10,970,000	8,180,000 8,177,000 8,179,000 8,188,000 8,211,000	2,713,000 2,724,000 2,736,000 2,748,000 2,759,000	4,815,000 4,816,000 4,819,000 4,828,000 4,842,000		3,683,000 3,678,000 3,676,000 3,680,000 3,689,000	1,132,000 1,137,000 1,142,000 1,148,000 1,153,000	4,497,000 4,499,000 4,502,000 4,508,000 4,522,000	1,581,000 1,587,000 1,593,000 1,600,000 1,607,000	7,446,000 7,452,000 7,461,000 7,476,000 7,499,000	3,447,000 3,450,000 3,453,000 3,460,000 3,471,000	 	 
2027 <sup>1</sup>	11,008,000 11,050,000 11,066,000 11,066,000	8,239,000 8,268,000 8,274,000 8,267,000	2,769,000 2,782,000 2,792,000 2,800,000	4,858,000 4,878,000 4,887,000 4,887,000	6,150,000 6,172,000 6,179,000 6,180,000	3,702,000 3,716,000 3,720,000 3,717,000	1,156,000 1,162,000 1,166,000 1,170,000	4,537,000 4,552,000 4,554,000 4,550,000	1,613,000 1,620,000 1,626,000 1,630,000	7,525,000 7,554,000 7,565,000 7,566,000	3,483,000 3,496,000 3,501,000 3,501,000	 	

-Not available.

<sup>1</sup>Projected.

<sup>2</sup>Beginning in 1980, 2-year institutions include schools accredited by the Accrediting Commission of Career Schools and Colleges of Technology.

NOTE: Data through 1995 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. The degree-granting classification is very similar to the earlier higher education classification, but it includes

more 2-year colleges and excludes a few higher education institutions that did not grant degrees. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Higher Education General Information Survey (HEGIS), "Fall Enrollment in Colleges and Universities" surveys, 1970 through 1985; Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment Survey" (IPEDS-EF:86-99); IPEDS Spring 2001 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This table was prepared March 2019.)

#### Table 17. Total postbaccalaureate fall enrollment in degree-granting postsecondary institutions, by attendance status, sex of student, and control of institution: 1970 through 2028

						Ма	les	Fem	ales			Private	
Year	Total	Full-time	Part-time	Males	Females	Full-time	Part-time	Full-time	Part-time	Public	Total	Nonprofit	For-profit
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1970 1971 1972 1973 1974		536,226 564,236 583,299 610,935 643,927	676,017 640,154 689,122 731,517 781,074	793,940 789,131 810,164 833,453 856,847	418,303 415,259 462,257 508,999 568,154	407,724 428,167 436,533 444,219 454,706	386,216 360,964 373,631 389,234 402,141	128,502 136,069 146,766 166,716 189,221	289,801 279,190 315,491 342,283 378,933	807,879 796,516 848,031 897,104 956,770	404,364 407,874 424,390 445,348 468,231	404,287 407,804 424,278 445,205 467,950	77 70 112 143 281
1975 1976 1977 1978 1979	1,505,404 1,577,546 1,569,084 1,575,693 1,571,922	672,938 683,825 698,902 704,831 714,624	832,466 893,721 870,182 870,862 857,298	891,992 904,551 891,819 879,931 862,754	613,412 672,995 677,265 695,762 709,168	467,425 459,286 462,038 458,865 456,197	424,567 445,265 429,781 421,066 406,557	205,513 224,539 236,864 245,966 258,427	407,899 448,456 440,401 449,796 450,741	1,008,476 1,033,115 1,004,013 998,608 989,991	496,928 544,431 565,071 577,085 581,931	496,604 541,064 561,384 573,563 578,425	324 3,367 3,687 3,522 3,506
1980 1981 1982 1983 1983	1,621,840 1,617,150 1,600,718 1,618,666 1,623,869	736,214 732,182 736,813 747,016 750,735	885,626 884,968 863,905 871,650 873,134	874,197 866,785 860,890 865,425 856,761	747,643 750,365 739,828 753,241 767,108	462,387 452,364 453,519 455,540 452,579	411,810 414,421 407,371 409,885 404,182	273,827 279,818 283,294 291,476 298,156	473,816 470,547 456,534 461,765 468,952	1,015,439 998,669 983,014 985,616 983,879	606,401 618,481 617,704 633,050 639,990	601,084 613,557 613,350 628,111 634,109	5,317 4,924 4,354 4,939 5,881
1985 1986 1987 1987 1988 1989	1,705,536	755,629 767,477 768,536 794,340 820,254	894,752 938,059 951,871 944,449 975,775	856,370 867,010 863,599 864,252 879,025	794,011 838,526 856,808 874,537 917,004	451,274 452,717 447,212 455,337 461,596	405,096 414,293 416,387 408,915 417,429	304,355 314,760 321,324 339,003 358,658	489,656 523,766 535,484 535,534 558,346	1,002,148 1,053,177 1,054,665 1,058,242 1,090,221	648,233 652,359 665,742 680,547 705,808	642,795 644,185 662,408 —	5,438 8,174 3,334 
1990 1991 1992 1993 1994	1,949,659 1,980,844	844,955 893,917 917,676 948,136 969,070	1,014,576 1,025,749 1,031,983 1,032,708 1,047,112	904,150 930,841 941,053 943,768 949,785	955,381 988,825 1,008,606 1,037,076 1,066,397	471,217 493,849 502,166 508,574 513,592	432,933 436,992 438,887 435,194 436,193	373,738 400,068 415,510 439,562 455,478	581,643 588,757 593,096 597,514 610,919	1,135,121 1,161,606 1,168,270 1,177,301 1,188,552	724,410 758,060 781,389 803,543 827,630	716,820 746,687 770,802 789,700 809,642	7,590 11,373 10,587 13,843 17,988
1995 1996 1997 1998 1998	2,040,572	983,534 1,004,114 1,019,464 1,024,627 1,049,591	1,046,528 1,036,458 1,032,283 1,045,403 1,060,655	941,409 932,153 927,496 923,132 930,930	1,088,653 1,108,419 1,124,251 1,146,898 1,179,316	510,782 512,100 510,845 505,492 508,930	430,627 420,053 416,651 417,640 422,000	472,752 492,014 508,619 519,135 540,661	615,901 616,405 615,632 627,763 638,655	1,188,748 1,185,216 1,188,640 1,187,557 1,201,511	841,314 855,356 863,107 882,473 908,735	824,351 830,238 837,790 852,270 869,739	16,963 25,118 25,317 30,203 38,996
2000 2001 2002 2003 2004		1,086,674 1,119,862 1,212,107 1,280,880 1,325,841	1,070,222 1,092,515 1,142,527 1,150,237 1,165,573	943,501 956,384 1,009,726 1,032,892 1,047,214	1,213,395 1,255,993 1,344,908 1,398,225 1,444,200	522,847 531,260 566,930 589,190 598,727	420,654 425,124 442,796 443,702 448,487	563,827 588,602 645,177 691,690 727,114	649,568 667,391 699,731 706,535 717,086	1,213,464 1,247,285 1,319,138 1,335,595 1,329,532	943,432 965,092 1,035,496 1,095,522 1,161,882	896,239 909,612 959,385 994,375 1,022,319	47,193 55,480 76,111 101,147 139,563
2005 2006 2007 2008 2009	2,574,639 2,644,598 2,737,094	1,350,581 1,386,189 1,428,956 1,490,462 1,567,080	1,172,930 1,188,450 1,215,642 1,246,632 1,282,335	1,047,054 1,061,067 1,088,377 1,122,074 1,169,777	1,476,457 1,513,572 1,556,221 1,615,020 1,679,638	602,525 614,706 632,619 656,213 689,977	444,529 446,361 455,758 465,861 479,800	748,056 771,483 796,337 834,249 877,103	728,401 742,089 759,884 780,771 802,535	1,324,104 1,332,725 1,353,150 1,380,915 1,424,393	1,199,407 1,241,914 1,291,448 1,356,179 1,425,022	1,036,324 1,064,679 1,100,932 1,125,038 1,172,501	163,083 177,235 190,516 231,141 252,521
2010 2011 2012 2013 2014	2,908,840 2,900,373	1,630,142 1,637,356 1,637,312 1,657,334 1,670,072	1,306,869 1,295,931 1,271,528 1,243,039 1,244,884	1,209,477 1,211,264 1,204,068 1,201,057 1,211,231	1,727,534 1,722,023 1,704,772 1,699,316 1,703,725	719,408 722,265 724,017 732,112 742,247	490,069 488,999 480,051 468,945 468,984	910,734 915,091 913,295 925,222 927,825	816,800 806,932 791,477 774,094 775,900	1,439,171 1,421,404 1,406,567 1,398,556 1,410,127	1,497,840 1,511,883 1,502,273 1,501,817 1,504,829	1,201,489 1,207,896 1,206,988 1,215,927 1,225,184	296,351 303,987 295,285 285,890 279,645
2015 2016 2017 2018' 2019'	2,972,255 3,005,267	1,684,482 1,695,246 1,706,639 1,710,000 1,715,000	1,257,049 1,277,009 1,298,628 1,305,000 1,312,000	1,221,565 1,221,563 1,220,194 1,224,000 1,229,000	1,719,966 1,750,692 1,785,073 1,791,000 1,798,000	749,349 747,288 740,910 742,000 744,000	472,216 474,275 479,284 482,000 485,000	935,133 947,958 965,729 968,000 971,000	784,833 802,734 819,344 823,000 827,000	1,422,020 1,441,861 1,459,202 1,464,000 1,470,000	1,519,511 1,530,394 1,546,065 1,551,000 1,557,000	1,243,769 1,265,214 1,289,460 —	275,742 265,180 256,605 —
2020 <sup>1</sup> 2021 <sup>1</sup> 2022 <sup>1</sup> 2023 <sup>1</sup> 2024 <sup>1</sup>	3,031,000 3,036,000 3,042,000 3,050,000 3,060,000	1,715,000 1,714,000 1,714,000 1,716,000 1,721,000	1,316,000 1,322,000 1,327,000 1,333,000 1,339,000	1,231,000 1,232,000 1,234,000 1,237,000 1,240,000	1,800,000 1,804,000 1,808,000 1,813,000 1,820,000	744,000 743,000 742,000 743,000 745,000	487,000 489,000 491,000 494,000 496,000	971,000 971,000 972,000 973,000 976,000	830,000 833,000 836,000 840,000 843,000	1,472,000 1,474,000 1,477,000 1,481,000 1,486,000	1,559,000 1,562,000 1,565,000 1,569,000 1,574,000		 
2025 <sup>1</sup> 2026 <sup>1</sup> 2027 <sup>1</sup> 2028 <sup>1</sup>	3,071,000 3,083,000 3,089,000 3,091,000	1,727,000 1,733,000 1,734,000 1,733,000	1,344,000 1,350,000 1,355,000 1,359,000	1,245,000 1,250,000 1,253,000 1,253,000	1,826,000 1,833,000 1,836,000 1,838,000	747,000 750,000 751,000 750,000	497,000 500,000 502,000 503,000	980,000 983,000 983,000 982,000	847,000 850,000 853,000 856,000	1,491,000 1,497,000 1,500,000 1,501,000	1,579,000 1,586,000 1,589,000 1,590,000	 	

-Not available.

<sup>1</sup>Projected.

NOTE: Data include unclassified graduate students. Data through 1995 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. The degree-granting classification is very similar to the earlier higher education classification, but it includes more 2-year colleges and excludes a few higher education institutions that did not grant degrees. Some data have been revised from

Previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Higher Education General Information Survey (HEGIS), "Fall Enrollment in Colleges and Universities" surveys, 1970 through 1985; Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment Survey" (IPEDS EF:86–99); IPEDS Spring 2001 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model, 2000 through 2028. (This table was prepared March 2019.)

Table 18.	Total fall enrollment of first-time degree/certificate-seeking students in degree-granting postsecondary institutions, by attendance
	status, sex of student, and level and control of institution: 1960 through 2028

					Males			Females		4-ye	ear	2-ye	ear
Year	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time	Public	Private	Public	Private
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1960 <sup>1</sup> 1961 <sup>1</sup> 1962 <sup>1</sup> 1963 <sup>1</sup> 1964 <sup>1</sup>	1,018,361 1,030,554 1,046,424			539,512 591,913 598,099 604,282 701,524			383,557 426,448 432,455 442,142 523,316	     		395,884 <sup>2</sup> 438,135 <sup>2</sup> 445,191 <sup>2</sup> 539,251 <sup>2</sup>	313,209 <sup>2</sup> 336,449 <sup>2</sup> 324,923 <sup>2</sup>  363,348 <sup>2</sup>	181,860 <sup>2</sup> 210,101 <sup>2</sup> 224,537 <sup>2</sup> 275,413 <sup>2</sup>	32,116 <sup>2</sup> 33,676 <sup>2</sup> 35,903 <sup>2</sup> 46,828 <sup>2</sup>
1965 <sup>1</sup> 1966 1967 1968 1969	1,441,822 1,554,337 1.640.936		 305,424 422,196 441,814	829,215 889,516 931,127 1,082,367 1,118,269	 761,299 847,005 876,280	 169,828 235,362 241,989	612,607 664,821 709,809 810,482 848,835	 574,213 623,648 649,010	 135,596 186,834 199,825	642,233 <sup>2</sup> 626,472 <sup>2</sup> 644,525 724,377 699,167	398,792 <sup>2</sup> 382,889 <sup>2</sup> 368,300 378,052 391,508	347,788 <sup>2</sup> 478,459 <sup>2</sup> 561,488 718,562 814,132	53,009 <sup>2</sup> 66,517 <sup>2</sup> 66,623 71,858 62,297
1970 1971 1972 1973 1974	2,063,397 2,119,018 2,152,778 2,226,041 2,365,761	1,587,072 1,606,036 1,574,197 1,607,269 1,673,333	476,325 512,982 578,581 618,772 692,428	1,151,960 1,170,518 1,157,501 1,182,173 1,243,790	896,281 895,715 858,254 867,314 896,077	255,679 274,803 299,247 314,859 347,713	911,437 948,500 995,277 1,043,868 1,121,971	690,791 710,321 715,943 739,955 777,256	220,646 238,179 279,334 303,913 344,715	717,449 704,052 680,337 698,777 745,637	395,886 384,695 380,982 378,994 386,391	890,703 971,295 1,036,616 1,089,182 1,175,759	59,359 58,976 54,843 59,088 57,974
1975 1976 1977 1977 1978 1978	2,515,155 2,347,014 2,394,426 2,389,627 2,502,896	1,763,296 1,662,333 1,680,916 1,650,848 1,706,732	751,859 684,681 713,510 738,779 796,164	1,327,935 1,170,326 1,155,856 1,141,777 1,179,846	942,198 854,597 839,848 817,294 840,315	385,737 315,729 316,008 324,483 339,531	1,187,220 1,176,688 1,238,570 1,247,850 1,323,050	821,098 807,736 841,068 833,554 866,417	366,122 368,952 397,502 414,296 456,633	771,725 717,373 737,497 736,703 760,119	395,440 413,961 404,631 406,669 415,126	1,283,523 1,152,944 1,185,648 1,173,544 1,253,854	64,467 62,736 66,650 72,711 73,797
1980 1981 1982 1983 1984	2,587,644 2,595,421 2,505,466 2,443,703 2,356,898	1,749,928 1,737,714 1,688,620 1,678,071 1,613,185	837,716 857,707 816,846 765,632 743,713	1,218,961 1,217,680 1,199,237 1,159,049 1,112,303	862,458 851,833 837,223 824,609 786,099	356,503 365,847 362,014 334,440 326,204	1,368,683 1,377,741 1,306,229 1,284,654 1,244,595	887,470 885,881 851,397 853,462 827,086	481,213 491,860 454,832 431,192 417,509	765,395 754,007 730,775 728,244 713,790	417,937 419,257 404,252 403,882 402,959	1,313,591 1,318,436 1,254,193 1,189,869 1,130,311	90,721 <sup>3</sup> 103,721 <sup>3</sup> 116,246 <sup>3</sup> 121,708 109,838
1985 1986 1987 1988 1989		1,602,038 1,589,451 1,626,719 1,698,927 1,656,594	690,184 629,757 619,640 679,876 684,441	1,075,736 1,046,527 1,046,615 1,100,026 1,094,750	774,858 768,856 779,226 807,319 791,295	300,878 277,671 267,389 292,707 303,455	1,216,486 1,172,681 1,199,744 1,278,777 1,246,285	827,180 820,595 847,493 891,608 865,299	389,306 352,086 352,251 387,169 380,986	717,199 719,974 757,833 783,358 762,217	398,556 391,673 405,113 425,907 413,836	1,060,275 990,973 979,820 1,048,914 1,048,529	116,192 116,588 103,593 120,624 116,453
1990 1991 1992 1993 1994	2,160,710 2,133,205	1,617,118 1,652,983 1,603,737 1,608,274 1,603,106	639,506 624,937 580,376 552,436 530,099	1,045,191 1,068,433 1,013,058 1,007,647 984,558	771,372 798,043 760,290 762,240 751,081	273,819 270,390 252,768 245,407 233,477	1,211,433 1,209,487 1,171,055 1,153,063 1,148,647	845,746 854,940 843,447 846,034 852,025	365,687 354,547 327,608 307,029 296,622	727,264 717,697 697,393 702,273 709,042	400,120 392,904 408,306 410,688 405,917	1,041,097 1,070,048 993,074 973,545 952,468	88,143 97,271 85,340 74,204 65,778
1995 1996 1997 1998 1999	2,168,831 2,274,319 2,219,255 2,212,593 2,357,590	1,646,812 1,739,852 1,733,512 1,775,412 1,849,741	522,019 534,467 485,743 437,181 507,849	1,001,052 1,046,662 1,026,058 1,022,656 1,094,539	767,185 805,982 806,054 825,577 865,545	233,867 240,680 220,004 197,079 228,994	1,167,779 1,227,657 1,193,197 1,189,937 1,263,051	879,627 933,870 927,458 949,835 984,196	288,152 293,787 265,739 240,102 278,855	731,836 741,164 755,362 792,772 819,503	419,025 427,442 442,397 460,948 474,223	954,595 989,536 923,954 858,417 955,499	63,375 116,177 97,542 100,456 108,365
2000 2001 2002 2003 2003	2,427,551 2,497,078 2,570,611 2,591,754 2,630,243	1,918,093 1,989,179 2,053,065 2,102,394 2,147,546	509,458 507,899 517,546 489,360 482,697	1,123,948 1,152,837 1,170,609 1,175,856 1,190,268	894,432 926,393 945,938 965,075 981,591	229,516 226,444 224,671 210,781 208,677	1,303,603 1,344,241 1,400,002 1,415,898 1,439,975	1,023,661 1,062,786 1,107,127 1,137,319 1,165,955	279,942 281,455 292,875 278,579 274,020	842,228 866,619 886,297 918,602 925,249	498,532 508,030 517,621 537,726 562,485	952,175 988,726 1,037,267 1,004,428 1,009,082	134,616 133,703 129,426 130,998 133,427
2005 2006 2007 2008 2009	3,130,002	2,004,440	467,454 487,021 481,650 596,749 622,442	1,200,055 1,228,703 1,268,137 1,388,441 1,464,424		204,445 212,917 214,762 273,717 287,305	1,457,283 1,478,502 1,509,031 1,634,295 1,692,458		263,009 274,104 266,888 323,032 335,137	953,903 990,077 1,023,789 1,053,829 1,090,980	606,712 598,266 633,772 672,372 658,808	977,224 1,013,419 1,016,636 1,186,640 1,275,974	119,499 105,443 102,971 109,895 131,120
2010 2011 2012 2013 2014	3,091,496 2,994,187 2,985,366 2,925,998	2,479,155 2,408,063 2,415,969 2,383,328	623,091 612,341 586,124 569,397 542,670	1,424,140	1,115,266 1,117,525	289,926 283,297 272,050 266,327 255,159	1,695,711 1,667,356 1,606,871 1,601,514 1,570,834	1,362,546 1,338,312 1,292,797 1,298,444 1,283,323	333,165 329,044 314,074 303,070 287,511	1.131.091	674,573 656,864 642,716 633,184 612,162	1,238,491 1,195,083 1,137,927 1,126,978 1,070,625	133,062 108,458 85,200 81,102 72,572
2015 2016 2017 2018 <sup>4</sup> 2019 <sup>4</sup>	2,882,991 2,880,171 2,889,000 2,900,000	2,368,283 2,369,021 2,377,035 —	514,666 513,970 503,136 —	1,338,853 1,333,598 1,323,424 1,327,000 1,332,000	1,096,976 1,093,968 1,091,425 —	241,877 239,630 231,999 —	1,544,096 1,549,393 1,556,747 1,561,000 1,568,000	1,271,307 1,275,053 1,285,610 —	272,789 274,340 271,137 	1,190,206 1,259,214 1,285,506 — —	599,242 581,098 588,659 — —	1,031,117 981,029 951,618 — —	62,384 61,650 54,388 —
2020 <sup>4</sup> 2021 <sup>4</sup> 2022 <sup>4</sup> 2023 <sup>4</sup> 2023 <sup>4</sup>	2,903,000 2,907,000 2,912,000 2,919,000 2,929,000			1,334,000 1,335,000 1,337,000 1,340,000 1,344,000		—	1,570,000 1,572,000 1,576,000 1,580,000 1,585,000	 		 	 	 	 
2025 <sup>4</sup> 2026 <sup>4</sup> 2027 <sup>4</sup> 2028 <sup>4</sup>	2,939,000 2,951,000 2,956,000 2,958,000		 	1,348,000 1,354,000 1,357,000 1,358,000	 	 	1,591,000 1,597,000 1,599,000 1,600,000	 	 	 	 	 	

-Not available.

<sup>1</sup>Excludes first-time degree/certificate-seeking students in occupational programs not creditable towards a bachelor's degree.

<sup>2</sup>Data for 2-year branches of 4-year college systems are aggregated with the 4-year institutions.

<sup>3</sup>Large increases are due to the addition of schools accredited by the Accrediting Commission of Career Schools and Colleges of Technology.

<sup>4</sup>Projected. NOTE: Data through 1995 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. The degree-granting

classification is very similar to the earlier higher education classification, but it includes more 2-year colleges and excludes a few higher education institutions that did not grant degrees. Alaska and Hawaii are included in all years. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, *Biennial* 

Survey of Education in the United States; Opening Fall Enrollment in Higher Education, 1963 through 1965; Higher Education General Information Survey (HEGIS), "Fall Enrollment in Colleges and Universities" surveys, 1966 through 1985; Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment Survey" (IPEDS-EF:86–99); IPEDS Spring 2001 through Spring 2018, Fall Enrollment component; and First-Time Freshmen Projection Model, 1980 through 2028. (This table was prepared March 2019.)

				Enrollm	ent (in the	ousands)							Perce	ntage dis	tribution			
Year	Total	White	Black	Hispanic	Asian/ Total	'Pacific Is Asian	lander Pacific Islander	American Indian/ Alaska Native	Two or more races	Total	White	Black	Hispanic	Asian. Total	/Pacific Is Asian	ander Pacific Islander	American Indian/ Alaska Native	Two or more races
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1976 1980 1990 1994 1995	10,767 11,782 13,427 13,823 13,807	9,076 9,833 10,722 10,427 10,311	1,033 1,107 1,247 1,449 1,474	384 472 782 1,046 1,094	198 286 572 774 797			76 84 103 127 131	     	100.0 100.0 100.0 100.0 100.0	84.3 83.5 79.9 75.4 74.7	9.6 9.4 9.3 10.5 10.7	3.6 4.0 5.8 7.6 7.9	1.8 2.4 4.3 5.6 5.8			0.7 0.7 0.8 0.9 1.0	
1996 1997 1998 1999 2000	13,901 14,037 14,063 14,361 14,784	10,264 10,266 10,179 10,329 10,462	1,506 1,551 1,583 1,649 1,730	1,166 1,218 1,257 1,324 1,462	828 859 900 914 978	 		138 142 144 146 151	 	100.0 100.0 100.0 100.0 100.0	73.8 73.1 72.4 71.9 70.8	10.8 11.0 11.3 11.5 11.7	8.4 8.7 8.9 9.2 9.9	6.0 6.1 6.4 6.4 6.6	 		1.0 1.0 1.0 1.0 1.0	 
2001 2002 2003 2004 2005	15,363 16,021 16,314 16,682 16,903	10,775 11,140 11,281 11,423 11,495	1,850 1,979 2,068 2,165 2,215	1,561 1,662 1,716 1,810 1,882	1,019 1,074 1,076 1,109 1,134	 		158 166 173 176 176	 	100.0 100.0 100.0 100.0 100.0	70.1 69.5 69.1 68.5 68.0	12.0 12.4 12.7 13.0 13.1	10.2 10.4 10.5 10.8 11.1	6.6 6.7 6.6 6.6 6.7	 		1.0 1.0 1.1 1.1 1.0	
2006 2007 2008 2009 2010	17,158 17,635 18,421 19,631 20,312	11,568 11,761 12,075 12,669 12,721	2,280 2,384 2,580 2,884 3,039	1,964 2,081 2,271 2,537 2,749	1,165 1,218 1,303 1,335 1,282	  1,218	  64	181 190 193 206 196	  325	100.0 100.0 100.0 100.0 100.0	67.4 66.7 65.5 64.5 62.6	13.3 13.5 14.0 14.7 15.0	11.4 11.8 12.3 12.9 13.5	6.8 6.9 7.1 6.8 6.3	  6.0	  0.3	1.1 1.1 1.0 1.0 1.0	  1.6
2011 2012 2013 2014 2015	20,270 19,861 19,537 19,291 19,006	12,402 11,982 11,589 11,239 10,939	3,079 2,962 2,872 2,793 2,681	2,893 2,980 3,093 3,192 3,298	1,277 1,258 1,260 1,272 1,284	1,211 1,195 1,199 1,214 1,229	66 64 61 58 55	186 173 162 153 146	433 505 560 642 658	100.0 100.0 100.0 100.0 100.0	61.2 60.3 59.3 58.3 57.6	15.2 14.9 14.7 14.5 14.1	14.3 15.0 15.8 16.5 17.4	6.3 6.3 6.4 6.6 6.8	6.0 6.0 6.1 6.3 6.5	0.3 0.3 0.3 0.3 0.3	0.9 0.9 0.8 0.8 0.8	2.1 2.5 2.9 3.3 3.5
2016 2017 2018 <sup>1</sup> 2019 <sup>1</sup> 2020 <sup>1</sup>	18,849 18,765 18,815 18,853 18,844	10,717 10,511 10,525 10,507 10,434	2,589 2,546 2,610 2,623 2,636	3,428 3,541 3,542 3,578 3,628	1,307 1,330 1,300 1,307 1,309	1,253 1,278 	53 52 —	142 138 135 134 133	666 700 702 703 703	100.0 100.0 100.0 100.0 100.0	56.9 56.0 55.9 55.7 55.4	13.7 13.6 13.9 13.9 14.0	18.2 18.9 18.8 19.0 19.3	6.9 7.1 6.9 6.9 6.9	6.7 6.8 	0.3 0.3 	0.8 0.7 0.7 0.7 0.7	3.5 3.7 3.7 3.7 3.7 3.7
2021 <sup>1</sup> 2022 <sup>1</sup> 2023 <sup>1</sup> 2024 <sup>1</sup> 2025 <sup>1</sup>	18,837 18,834 18,844 18,868 18,892	10,365 10,303 10,244 10,193 10,142	2,649 2,658 2,671 2,684 2,697	3,674 3,717 3,765 3,817 3,872	1,314 1,320 1,329 1,340 1,348	 		132 132 131 130 129	703 703 703 704 705	100.0 100.0 100.0 100.0 100.0	55.0 54.7 54.4 54.0 53.7	14.1 14.1 14.2 14.2 14.3	19.5 19.7 20.0 20.2 20.5	7.0 7.0 7.1 7.1 7.1			0.7 0.7 0.7 0.7 0.7	3.7 3.7 3.7 3.7 3.7 3.7
2026 <sup>1</sup> 2027 <sup>1</sup> 2028 <sup>1</sup>	18,928 18,921 18,886	10,090 10,009 9,913	2,716 2,734 2,748	3,933 3,988 4,036	1,354 1,357 1,359			128 126 125	706 706 705	100.0 100.0 100.0	53.3 52.9 52.5	14.4 14.4 14.5	20.8 21.1 21.4	7.2 7.2 7.2			0.7 0.7 0.7	3.7 3.7 3.7

#### Table 19. Fall enrollment of U.S. residents in degree-granting postsecondary institutions, by race/ethnicity: Selected years, 1976 through 2028

-Not available.

<sup>1</sup>Projected.

NOTE: Race categories exclude persons of Hispanic ethnicity. Prior to 2010, institutions were not required to report separate data on Asians, Pacific Islanders, and students of Two or more races. Projections for Asian and Pacific Islander enrollment are not available due to the limited amount of historical data available upon which to base a projection model. Data through 1995 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. The degree-granting classification is very similar to the earlier higher education classification, but it includes more 2-year colleges and excludes a few higher education institutions that did not grant degrees. Detail may not sum to totals because of rounding. Some data have been revised from previously published figures.

from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Higher Education General Information Survey (HEGIS), "Fall Enrollment in Colleges and Universities" surveys, 1976 and 1980; Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment Survey" (IPEDS-EF:90-99); IPEDS Spring 2001 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions by Race/ Ethnicity Projection Model, 1980 through 2028. (This table was prepared March 2019.)

Table 20.	Full-time-equivalent fall enrollment in degree-granting postsecond	ary institutions, by control and level of institution: 1967 through 2028

		All institutions		Pu	blic institutio	าร	Private institutions								
									4-year			2-year			
Year	Total	4-year	2-year	Total	4-year	2-year	Total	Total	Nonprofit	For-profit	Total	Nonprofit	For-profit		
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
1967 1968 1969	5,499,360 5,977,768 6,333,357	4,448,302 4,729,522 4,899,034	1,051,058 1,248,246 1,434,323	3,777,701 4,248,639 4,577,353	2,850,432 3,128,057 3,259,323	927,269 1,120,582 1,318,030	1,721,659 1,729,129 1,756,004	1,597,870 1,601,465 1,639,711			123,789 127,664 116,293				
1970 1971 1972 1973 1974	6,737,819 7,148,558 7,253,757 7,453,463 7,805,452	5,145,422 5,357,647 5,406,833 5,439,230 5,606,247	1,592,397 1,790,911 1,846,924 2,014,233 2,199,205	4,953,144 5,344,402 5,452,854 5,629,563 5,944,799	3,468,569 3,660,626 3,706,238 3,721,037 3,847,543	1,484,575 1,683,776 1,746,616 1,908,526 2,097,256	1,784,675 1,804,156 1,800,903 1,823,900 1,860,653	1,676,853 1,697,021 1,700,595 1,718,193 1,758,704	 		107,822 107,135 100,308 105,707 101,949		 		
1975 1976 1977 1978 1979	8,479,698 8,312,502 8,415,339 8,348,482 8,487,317	5,900,408 5,848,001 5,935,076 5,932,357 6,016,072	2,579,290 2,464,501 2,480,263 2,416,125 2,471,245	6,522,319 6,349,903 6,396,476 6,279,199 6,392,617	4,056,502 3,998,450 4,039,071 3,996,126 4,059,304	2,465,817 2,351,453 2,357,405 2,283,073 2,333,313	1,957,379 1,962,599 2,018,863 2,069,283 2,094,700	1,843,906 1,849,551 1,896,005 1,936,231 1,956,768	 		113,473 113,048 122,858 133,052 137,932		 		
1980 1981 1982 1983 1984	8,819,013 9,014,521 9,091,648 9,166,398 8,951,695	6,161,372 6,249,847 6,248,923 6,325,222 6,292,711	2,657,641 2,764,674 2,842,725 2,841,176 2,658,984	6,642,294 6,781,300 6,850,589 6,881,479 6,684,664	4,158,267 4,208,506 4,220,648 4,265,807 4,237,895	2,484,027 2,572,794 2,629,941 2,615,672 2,446,769	2,176,719 2,233,221 2,241,059 2,284,919 2,267,031	2,003,105 2,041,341 2,028,275 2,059,415 2,054,816	 		173,6141 191,8801 212,7841 225,504 212,215		 		
1985 1986 1987 1988 1988	8,943,433 9,064,165 9,229,736 9,464,271 9,780,881	6,294,339 6,360,325 6,486,504 6,664,146 6,813,602	2,649,094 2,703,842 2,743,230 2,800,125 2,967,279	6,667,781 6,778,045 6,937,690 7,096,905 7,371,590	4,239,622 4,295,494 4,395,728 4,505,774 4,619,828	2,428,159 2,482,551 2,541,961 2,591,131 2,751,762	2,275,652 2,286,122 2,292,045 2,367,366 2,409,291	2,054,717 2,064,831 2,090,776 2,158,372 2,193,774			220,935 221,291 <sup>2</sup> 201,269 <sup>2</sup> 208,994 215,517	 	 		
1990 1991 1992 1993 1994	9,983,436 10,360,606 10,436,776 10,351,415 10,348,072	6,968,008 7,081,454 7,129,379 7,120,921 7,137,341	3,015,428 3,279,152 3,307,397 3,230,494 3,210,731	7,557,982 7,862,845 7,911,701 7,812,394 7,784,396	4,740,049 4,795,704 4,797,884 4,765,983 4,749,524	2,817,933 3,067,141 3,113,817 3,046,411 3,034,872	2,425,454 2,497,761 2,525,075 2,539,021 2,563,676	2,227,959 2,285,750 2,331,495 2,354,938 2,387,817	2,177,668 2,223,463 2,267,373 2,282,643 2,301,063	50,291 62,287 64,122 72,295 86,754	197,495 212,011 193,580 184,083 175,859	72,785 72,545 66,647 70,469 69,578	124,710 139,466 126,933 113,614 106,281		
1995 1996 1997 1998 1999	10,334,956 10,481,886 10,615,028 10,698,775 10,974,519	7,172,844 7,234,541 7,338,794 7,467,828 7,634,247	3,162,112 3,247,345 3,276,234 3,230,947 3,340,272	7,751,815 7,794,895 7,869,764 7,880,135 8,059,240	4,757,223 4,767,117 4,813,849 4,868,857 4,949,851	2,994,592 3,027,778 3,055,915 3,011,278 3,109,389	2,583,141 2,686,991 2,745,264 2,818,640 2,915,279	2,415,621 2,467,424 2,524,945 2,598,971 2,684,396	2,328,730 2,353,561 2,389,627 2,436,188 2,488,140	86,891 113,863 135,318 162,783 196,256	167,520 219,567 220,319 219,669 230,883	62,416 63,954 61,761 56,834 53,956	105,104 155,613 158,558 162,835 176,927		
2000 2001 2002 2003 2004	11,267,025 11,765,945 12,331,319 12,687,597 13,000,994	7,795,139 8,087,980 8,439,064 8,744,188 9,018,024	3,471,886 3,677,965 3,892,255 3,943,409 3,982,970	8,266,932 8,639,154 9,061,411 9,240,724 9,348,081	5,025,588 5,194,035 5,406,283 5,557,680 5,640,650	3,241,344 3,445,119 3,655,128 3,683,044 3,707,431	3,000,093 3,126,791 3,269,908 3,446,873 3,652,913	2,769,551 2,893,945 3,032,781 3,186,508 3,377,374	2,549,676 2,612,833 2,699,702 2,776,850 2,837,251	219,875 281,112 333,079 409,658 540,123	230,542 232,846 237,127 260,365 275,539	51,503 41,037 40,110 36,815 34,202	179,039 191,809 197,017 223,550 241,337		
2005 2006 2007 2008 2009	13,200,790 13,401,696 13,786,735 14,377,990 15,379,473	9,261,634 9,456,480 9,768,388 10,153,074 10,695,816	3,939,156 3,945,216 4,018,347 4,224,916 4,683,657	9,390,216 9,502,028 9,744,001 10,061,076 10,746,637	5,728,327 5,824,962 5,992,611 6,138,686 6,452,414	3,661,889 3,677,066 3,751,390 3,922,390 4,294,223	3,810,574 3,899,668 4,042,734 4,316,914 4,632,836	3,533,307 3,631,518 3,775,777 4,014,388 4,243,402	2,878,354 2,936,261 2,993,901 3,058,910 3,153,294	654,953 695,257 781,876 955,478 1,090,108	277,267 268,150 266,957 302,526 389,434	34,729 31,203 26,140 28,072 27,964	242,538 236,947 240,817 274,454 361,470		
2012 2013	15,892,792	11,261,845 11,229,774 11,183,239	4,630,947 4,363,660 4,226,819	11,018,756 10,954,754 10,781,798 10,697,939 10,624,163	6,635,799 6,734,116 6,764,184 6,790,930 6,891,984	4,382,957 4,220,638 4,017,614 3,907,009 3,732,179	4,928,718 4,938,038 4,811,636 4,712,119 4,639,016	4,493,440 4,527,729 4,465,590 4,392,309 4,346,634	3,235,149 3,285,711 3,309,242 3,337,799 3,363,101	1,258,291 1,242,018 1,156,348 1,054,510 983,533	435,278 410,309 346,046 319,810 292,382	26,920 34,267 32,684 27,313 25,808	408,358 376,042 313,362 292,497 266,574		
2016	15,078,504 14,937,939 14,880,079 14,919,000 14,967,000	11,356,540 11,403,660 11,432,000	3,581,399 3,476,419 3,487,000	10,569,574 10,572,028 10,565,751 10,594,000 10,629,000	6,970,121 7,221,134 7,309,604 7,328,000 7,350,000	3,599,453 3,350,894 3,256,147 3,266,000 3,279,000	4,508,930 4,365,911 4,314,328 4,325,000 4,338,000	4,256,232 4,135,406 4,094,056 4,104,000 4,117,000	3,399,283 3,410,337 3,435,169 — —	856,949 725,069 658,887 — —	252,698 230,505 220,272 221,000 221,000	41,579 43,900 43,990 — —	211,119 186,605 176,282 		
20203 20213 20223 20233 20243	14,975,000 14,982,000 14,996,000 15,023,000 15,069,000	11,474,000 11,482,000 11,501,000	3,509,000 3,514,000 3,522,000	10,635,000 10,641,000 10,652,000 10,672,000 10,705,000	7,352,000 7,354,000 7,359,000 7,371,000 7,393,000	3,283,000 3,287,000 3,293,000 3,301,000 3,312,000	4,340,000 4,341,000 4,344,000 4,351,000 4,364,000	4,118,000 4,119,000 4,122,000 4,129,000 4,141,000	 		221,000 221,000 222,000 222,000 222,000	 	 		
2025 <sup>3</sup> 2026 <sup>3</sup> 2027 <sup>3</sup> 2028 <sup>3</sup>	15,197,000	11,630,000	3,560,000 3,567,000	10,742,000 10,783,000 10,797,000 10,796,000	7,419,000 7,446,000 7,455,000 7,452,000	3,323,000 3,336,000 3,342,000 3,344,000	4,379,000 4,395,000 4,400,000 4,398,000	4,156,000 4,171,000 4,176,000 4,174,000	 	 	223,000 224,000 224,000 224,000	 			

-Not available.

<sup>1</sup>Large increases are due to the addition of schools accredited by the Accrediting Commission of Career Schools and Colleges of Technology.

<sup>2</sup>Because of imputation techniques, data are not consistent with figures for other

years. <sup>3</sup>Projected.

NOTE: Full-time-equivalent enrollment is the number of full-time students enrolled, plus the full-time equivalent of the part-time students. Data through 1995 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. The degree-granting classification is very similar to the earlier higher education

programs. The degree-granting classification is very similar to the earlier higher education classification, but it includes more 2-year colleges and excludes a few higher education institutions that did not grant degrees. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding. SOURCE: U.S. Department of Education, National Center for Education Statistics, Higher Education General Information Survey (HEGIS), "Fall Enrollment in Colleges and Universities" surveys, 1967 through 1985; Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment Survey" (IPEDS-EF:86-99); IPEDS Spring 2001 through Spring 2018, Fall Enrollment component; and Enrollment in Degree-Granting Institutions Projection Model. 2000 through 2028. (This table was prepared March 2019.) Projection Model, 2000 through 2028. (This table was prepared March 2019.)

		Associate's	degrees			Bachelor's	degrees			Master's	degrees			Doctor's	degrees <sup>1</sup>	
Year	Total	Males	Females	Percent female	Total	Males	Females	Percent female	Total	Males	Females	Percent female	Total	Males	Females	Percent female
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1869–70 1879–80 1889–90 1899–1900 1909–10					9,371 <sup>2</sup> 12,896 <sup>2</sup> 15,539 <sup>2</sup> 27,410 <sup>2</sup> 37,199 <sup>2</sup>	7,993 <sup>2</sup> 10,411 <sup>2</sup> 12,857 <sup>2</sup> 22,173 <sup>2</sup> 28,762 <sup>2</sup>	1,378 <sup>2</sup> 2,485 <sup>2</sup> 2,682 <sup>2</sup> 5,237 <sup>2</sup> 8,437 <sup>2</sup>	14.7 19.3 17.3 19.1 22.7	0 879 1,015 1,583 2,113	0 868 821 1,280 1,555	0 11 194 303 558	1.3 19.1 19.1 26.4	1 54 149 382 443	1 51 147 359 399	0 3 2 23 44	0.0 5.6 1.3 6.0 9.9
1919–20         1929–30         1939–40         1949–50         1959–60         1969–70         1979–80	  206,023 400,910	— — — 117,432 183,737			48,622 <sup>2</sup> 122,484 <sup>2</sup> 186,500 <sup>2</sup> 432,058 <sup>2</sup> 392,440 <sup>2</sup> 792,316 929,417	31,980 <sup>2</sup> 73,615 <sup>2</sup> 109,546 <sup>2</sup> 328,841 <sup>2</sup> 254,063 <sup>2</sup> 451,097 473,611	16,642 <sup>2</sup> 48,869 <sup>2</sup> 76,954 <sup>2</sup> 103,217 <sup>2</sup> 138,377 <sup>2</sup> 341,219 455,806	34.2 39.9 41.3 23.9 35.3 43.1 49.0	4,279 14,969 26,731 58,183 74,435 213,589 305,196	2,985 8,925 16,508 41,220 50,898 130,799 156,882	1,294 6,044 10,223 16,963 23,537 82,790 148,314	30.2 40.4 38.2 29.2 31.6 38.8 48.6	615 2,299 3,290 6,420 9,829 59,486 95,631	522 1,946 2,861 5,804 8,801 53,792 69,526	93 353 429 616 1,028 5,694 26,105	15.1 15.4 13.0 9.6 10.5 9.6 27.3
1980–81 1981–82 1982–83 1983–84 1983–84 1984–85	416,377 434,526 449,620 452,240 454,712	188,638 196,944 203,991 202,704 202,932	227,739 237,582 245,629 249,536 251,780	54.7 54.7 54.6 55.2 55.4	935,140 952,998 969,510 974,309 979,477	469,883 473,364 479,140 482,319 482,528	465,257 479,634 490,370 491,990 496,949	49.8 50.3 50.6 50.5 50.7	302,637 302,447 296,415 291,141 293,472	152,979 151,349 150,092 149,268 149,276	149,658 151,098 146,323 141,873 144,196	49.5 50.0 49.4 48.7 49.1	98,016 97,838 99,335 100,799 100,785	69,567 68,630 67,757 67,769 66,269	28,449 29,208 31,578 33,030 34,516	29.0 29.9 31.8 32.8 34.2
1985–86 1986–87 1987–88 1988–89 1989–90	446,047 436,304 435,085 436,764 455,102	196,166 190,839 190,047 186,316 191,195	249,881 245,465 245,038 250,448 263,907	56.0 56.3 56.3 57.3 58.0	987,823 991,264 994,829 1,018,755 1,051,344	485,923 480,782 477,203 483,346 491,696	501,900 510,482 517,626 535,409 559,648	50.8 51.5 52.0 52.6 53.2	295,850 296,530 305,783 316,626 330,152	149,373 147,063 150,243 153,993 158,052	146,477 149,467 155,540 162,633 172,100	49.5 50.4 50.9 51.4 52.1	100,280 98,477 99,139 100,571 103,508	65,215 62,790 63,019 63,055 63,963	35,065 35,687 36,120 37,516 39,545	35.0 36.2 36.4 37.3 38.2
1990–91 1991–92 1992–93 1993–94 1994–95	481,720 504,231 514,756 530,632 539,691	198,634 207,481 211,964 215,261 218,352	283,086 296,750 302,792 315,371 321,339	58.8 58.9 58.8 59.4 59.5	1,094,538 1,136,553 1,165,178 1,169,275 1,160,134	504,045 520,811 532,881 532,422 526,131	590,493 615,742 632,297 636,853 634,003	53.9 54.2 54.3 54.5 54.6	342,863 358,089 375,032 393,037 403,609	160,842 165,867 173,354 180,571 183,043	182,021 192,222 201,678 212,466 220,566	53.1 53.7 53.8 54.1 54.6	105,547 109,554 112,072 112,636 114,266	64,242 66,603 67,130 66,773 67,324	41,305 42,951 44,942 45,863 46,942	39.1 39.2 40.1 40.7 41.1
1995–96 1996–97 1997–98 1998–99 1999–2000	555,216 571,226 558,555 564,984 564,933	219,514 223,948 217,613 220,508 224,721	335,702 347,278 340,942 344,476 340,212	60.5 60.8 61.0 61.0 60.2	1,164,792 1,172,879 1,184,406 1,202,239 1,237,875	522,454 520,515 519,956 519,961 530,367	642,338 652,364 664,450 682,278 707,508	55.1 55.6 56.1 56.8 57.2	412,180 425,260 436,037 446,038 463,185	183,481 185,270 188,718 190,230 196,129	228,699 239,990 247,319 255,808 267,056	55.5 56.4 56.7 57.4 57.7	115,507 118,747 118,735 116,700 118,736	67,189 68,387 67,232 65,340 64,930	48,318 50,360 51,503 51,360 53,806	41.8 42.4 43.4 44.0 45.3
2000–01 2001–02 2002–03 2003–04 2004–05	578,865 595,133 634,016 665,301 696,660	231,645 238,109 253,451 260,033 267,536	347,220 357,024 380,565 405,268 429,124	60.0 60.0 60.9 61.6	1,244,171 1,291,900 1,348,811 1,399,542 1,439,264	531,840 549,816 573,258 595,425 613,000	712,331 742,084 775,553 804,117 826,264	57.3 57.4 57.5 57.5 57.5 57.4	473,502 487,313 518,699 564,272 580,151	197,770 202,604 215,172 233,056 237,155	275,732 284,709 303,527 331,216 342,996	58.2 58.4 58.5 58.7 59.1	119,585 119,663 121,579 126,087 134,387	64,171 62,731 62,730 63,981 67,257	55,414 56,932 58,849 62,106 67,130	46.3 47.6 48.4 49.3 50.0
2005–06 2006–07 2007–08 2008–09 2009–10	713,315 727,616 750,166 787,243 848,856	270,139 275,034 282,695 298,066 322,747	443,176 452,582 467,471 489,177 526,109	62.1 62.2 62.3 62.1 62.0	1,485,104 1,524,729 1,563,734 1,601,399 1,649,919	630,502 649,816 668,184 685,422 706,660	854,602 874,913 895,550 915,977 943,259	57.5 57.4 57.3 57.2 57.2	599,862 610,703 630,844 662,082 693,313	241,701 242,213 250,203 263,515 275,317	358,161 368,490 380,641 398,567 417,996	59.7 60.3 60.3 60.2 60.3	138,056 144,694 149,190 154,564 158,590	68,912 71,311 73,340 75,674 76,610	69,144 73,383 75,850 78,890 81,980	50.1 50.7 50.8 51.0 51.7
2010–11 2011–12 2012–13 2013–14 2014–15	943,506 1,021,718 1,007,427 1,005,155 1,014,341	361,408 393,479 389,195 391,474 396,782	582,098 628,239 618,232 613,681 617,559	61.7 61.5 61.4 61.1 60.9	1,716,053 1,792,163 1,840,381 1,870,150 1,894,969	734,159 765,772 787,408 801,905 812,693	981,894 1,026,391 1,052,973 1,068,245 1,082,276	57.2 57.3 57.2 57.1 57.1	730,922 755,967 751,718 754,582 758,804	291,680 302,484 301,552 302,846 306,615	439,242 453,483 450,166 451,736 452,189	60.1 60.0 59.9 59.9 59.6	163,827 170,217 175,026 177,587 178,548	79,672 82,670 85,080 85,585 84,922	84,155 87,547 89,946 92,002 93,626	51.4 51.4 51.4 51.8 52.4
2015–16 2016–17 2017–18 <sup>3</sup> 2018–19 <sup>3</sup> 2019–20 <sup>3</sup>	1,008,228 1,005,649 981,000 985,000 989,000	392,084 394,159 383,000 385,000 386,000	616,144 611,490 598,000 600,000 603,000	61.1 60.8 61.0 60.9 60.9	1,956,032 1,963,000 1,968,000	821,746 836,045 837,000 839,000 842,000	1,099,004 1,119,987 1,126,000 1,129,000 1,133,000	57.2 57.3 57.4 57.4 57.4	785,757 804,684 814,000 816,000 820,000	320,574 326,892 327,000 328,000 329,000	465,183 477,792 487,000 489,000 491,000	59.2 59.4 59.9 59.9 59.9	178,134 181,352 183,000 184,000 184,000	84,240 84,646 85,000 85,000 85,000	93,894 96,706 99,000 99,000 99,000	52.7 53.3 53.8 53.8 53.8
2020–21 <sup>3</sup> 2021–22 <sup>3</sup> 2022–23 <sup>3</sup> 2023–24 <sup>3</sup> 2024–25 <sup>3</sup>	991,000 994,000 996,000 1,000,000 1,003,000	387,000 388,000 389,000 390,000 392,000	604,000 606,000 607,000 609,000 612,000	60.9 60.9 60.9 60.9 61.0	1,976,000 1,978,000 1,980,000 1,984,000 1,990,000	842,000 842,000 843,000 844,000 847,000	1,134,000 1,136,000 1,137,000 1,140,000 1,143,000	57.4 57.4 57.4 57.4 57.4 57.4	821,000 822,000 824,000 826,000 829,000	329,000 330,000 330,000 331,000 332,000	491,000 492,000 493,000 495,000 497,000	59.9 59.9 59.9 59.9 59.9 59.9	185,000 185,000 185,000 186,000 186,000	85,000 85,000 85,000 86,000 86,000	99,000 100,000 100,000 100,000 101,000	53.8 53.9 53.9 53.9 53.9 53.9
2025–26 <sup>3</sup> 2026–27 <sup>3</sup> 2027–28 <sup>3</sup> 2028–29 <sup>3</sup>	1,007,000 1,011,000 1,014,000 1,015,000	393,000 395,000 396,000 396,000	614,000 616,000 618,000 619,000	61.0 61.0 60.9 60.9		850,000 853,000 855,000 855,000	1,147,000 1,152,000 1,153,000 1,153,000	57.5 57.4 57.4 57.4	831,000 835,000 836,000 837,000	333,000 334,000 335,000 335,000	498,000 500,000 501,000 502,000	59.9 59.9 59.9 59.9	187,000 188,000 188,000 188,000	86,000 87,000 87,000 87,000	101,000 101,000 101,000 102,000	53.9 53.9 53.9 53.9

#### Table 21. Degrees conferred by postsecondary institutions, by level of degree and sex of student: Selected years, 1869–70 through 2028–29

<sup>1</sup>Includes Ph.D., Ed.D., and comparable degrees at the doctoral level. Includes most degrees that were classified as first-professional prior to 2010-11, such as M.D., D.D.S., and law degrees.

<sup>3</sup>Projected. <sup>3</sup>Projected.

NOTE: Data through 1994-95 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher

degrees and participate in Title IV federal financial aid programs. Some data have been degrees and participate in Title IV federal financial aid programs. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding. SOURCE: U.S. Department of Education, National Center for Education Statistics, *Earned Degrees Conferred*, 1869–70 through 1964–65; Higher Education General Information Survey (HEGIS), "Degrees and Other Formal Awards Conferred" surveys, 1965–66 through 1985–86; Integrated Postsecondary Education Data System (IPEDS), "Completions Survey" (IPEDS-C:87–99); IPEDS Fall 2000 through Fall 2017, Completions component, and Degrees Conferred Projection Media 1980–81 through 2028-29. (This total was and Degrees Confered Projection Model, 1980–81 through 2028–29. (This table was prepared March 2019.)

<sup>-</sup>Not available.

# **Technical Appendixes**

# Appendix A Introduction to Projection Methodology

## A.0. INTRODUCTION TO PROJECTION METHODOLOGY

### **Content of appendix A**

Since its inception in 1964, the *Projections of Education Statistics* series has been providing projections of key education statistics to policymakers, educators, researchers, the press, and the general public. This edition of *Projections of Education Statistics* is the 47th in the series.

Appendix A contains this introduction, which provides a general overview of the projection methodology, as well as six additional sections that discuss the specific methodology for the different statistics projected:

- » A.O. Introduction to Projection Methodology;
- » A.1. Elementary and Secondary Enrollment;
- » A.2. Elementary and Secondary Teachers;
- » A.3. High School Graduates;
- » A.4. Expenditures for Public Elementary and Secondary Education;
- » A.5. Enrollment in Degree-Granting Postsecondary Institutions; and
- » A.6. Postsecondary Degrees Conferred.

This introduction

- » outlines the two major techniques used to make the projections;
- » summarizes key demographic and economic assumptions underlying the projections;
- » examines the accuracy of the projections; and
- » introduces the subsequent sections of appendix A.

### **Projection techniques**

Two main projection techniques were used to develop the projections presented in this publication:

- » Exponential smoothing was the technique used in the projections of elementary and secondary enrollments and high school graduates. This technique also played a role in the projections of teachers at the elementary and secondary level, as well as enrollments and degrees conferred at the postsecondary level.
- » Multiple linear regression was the primary technique used in the projections of teachers and expenditures at the elementary and secondary level, as well as enrollments and degrees conferred at the postsecondary level.

#### **Exponential smoothing**

Two different types of exponential smoothing, single exponential smoothing and double exponential smoothing, were used in producing the projections presented in this publication.

Single exponential smoothing was used when the historical data had a basically horizontal pattern. Single exponential smoothing produces a single forecast for all years in the forecast period. In developing projections of elementary and secondary enrollments, for example, the rate at which students progress from one particular grade to the next (e.g., from grade 2 to grade 3) was projected using single exponential smoothing. Thus, this percentage was assumed to be constant over the forecast period.

In general, exponential smoothing places more weight on recent observations than on earlier ones. The weights for observations decrease exponentially as one moves further into the past. As a result, the older data have less influence on the projections. The rate at which the weights of older observations decrease is determined by the smoothing constant.

When using single exponential smoothing for a time series,  $P_t$ , a smoothed series,  $\hat{P}$ , is computed recursively by evaluating

$$\hat{P}_t = \propto P_t + (1 - \alpha) \hat{P}_{t-1}$$

where  $0 < \alpha \le 1$  is the smoothing constant.

By repeated substitution, we can rewrite the equation as

$$\hat{P}_{t} = \propto \sum_{s=0}^{t-1} (1-\alpha)^{s} P_{t-s}$$

where time, *s*, goes from the first period in the time series, 0, to time period *t*-1.

The forecasts are constant for all years in the forecast period. The constant equals

$$\hat{P}_{T+k} = \hat{P}_T$$

where *T* is the last year of actual data and *k* is the kth year in the forecast period where k > 0.

These equations illustrate that the projection is a weighted average based on exponentially decreasing weights. For higher smoothing constants, weights for earlier observations decrease more rapidly than for lower smoothing constants.

For each of the approximately 1,200 single exponential smoothing equations in this edition of *Projections of Education Statistics*, a smoothing constant was individually chosen to minimize the sum of squared forecast errors for that equation. The smoothing constants used to produce the projections in this report ranged from 0.001 to 0.999.

Double exponential smoothing is an extension of single exponential smoothing that allows the forecasting of data with trends. It produces different forecasts for different years in the forecast period. Double exponential smoothing with two smoothing constants was used to forecast the number of doctor's degrees awarded to men and women.

The smoothing forecast using double exponential smoothing is found using the three equations:

$$\dot{P}_{t+k} = a_t + b_t k$$
  

$$a_t = \propto P_t + (1 - \alpha) (a_{t-1} + b_{t-1})$$
  

$$b_t = \beta (a_t - a_{t-1}) + (1 - \beta) b_{t-1}$$

where  $a_t$  denotes an estimate of the level of the series at time *t*,  $b_t$  denotes an estimate of the level of the series at time *t*, and  $0 < \alpha$ ,  $\beta < 1$  are the smoothing constants.

Forecasts from double smoothing are computed as

$$\hat{P}_{T+k} = a_T + b_T k$$

where *T* is the last year of actual data and *k* is the *k*th year in the forecast period where k > 0. The last expression shows that forecasts from double smoothing lie on a linear trend with intercept  $a_T$  and slope  $b_T$ . Single exponential smoothing can be viewed as a special case of double exponential smoothing where the impact that time has on the forecasts has been eliminated (i.e., requiring the slope term  $b_t$  to equal 0.0).

The smoothing constants for each of the two double exponential smoothing equations used for this report were selected using a search algorithm that finds the pair of smoothing constants that together minimize the sum of forecast errors for their equation.

Beginning with the *Projections of Education Statistics to 2020*, each smoothing constant was chosen separately. In earlier editions, all the smoothing constants had been set to 0.4. Also beginning with that edition, two smoothing constants, rather than one, were used for double exponential smoothing.

#### Multiple linear regression

Multiple linear regression was used in cases where a strong relationship exists between the variable being projected (the dependent variable) and independent variables. This technique can be used only when accurate data and reliable projections of the independent variables are available. Key independent variables for this publication include demographic and economic factors. For example, current expenditures for public elementary and secondary education are related to economic factors such as disposable income and education revenues from state sources. The sources of the demographic and economic projections used for this publication are discussed below, under "Assumptions."

The equations in this appendix should be viewed as forecasting rather than structural equations. That is, the equations are intended only to project values for the dependent variables, not to reflect all elements of underlying social, political, and economic structures. Lack of available data precluded the building of large-scale structural models. The particular equations shown were selected on the basis of their statistical properties, such as coefficients of determination ( $R^2s$ ), the *t*-statistics of the coefficients, the Durbin-Watson statistic, the Breusch-Godfrey Serial Correlation LM test statistic, and residual plots.

The functional form primarily used is the multiplicative model. When used with two independent variables, this model takes the form:

$$Y = a \cdot X_1^{b_1} \cdot X_2^{b_2}$$

This equation can easily be transformed into the linear form by taking the natural log (ln) of both sides of the equation:

$$ln(Y) = ln(a) + b_1 ln X_1 + b_2 ln X_2$$

One property of this model is that the coefficient of an independent variable shows how responsive in percentage terms the dependent variable is to a one percent change in that independent variable (also called the elasticity). For example, a 1 percent change in  $X_1$  in the above equation would lead to a  $b_1$  percent change in Y.

#### Assumptions

All projections are based on underlying assumptions, and these assumptions determine projection results to a large extent. It is important that users of projections understand the assumptions to determine the acceptability of projected time series for their purposes. All the projections in this publication are to some extent dependent on demographic and/or economic assumptions.

#### Demographic assumptions

Many of the projections in this publication are demographically based on the 2017 National Population Projections (September 2018) produced by the U.S. Census Bureau and the IHS U.S. Regional Economic Service, Population Projections, December 2018 produced by the economic consulting firm IHS Global Inc.

The two sets of population projections are produced using cohort-component models. In order for the national-level population projections by age, sex, and race/ethnicity to be consistent with the most recent historical estimates released by the Census Bureau, the projections were ratio-adjusted by applying the ratio of the last historical estimate to the corresponding projections year to the projections for each age, sex, and race/ethnicity combination. This allows for a consistent set of historical estimates and projections. For more information on the methodology used for Census Bureau population projections, see appendix C, Data Sources.

The enrollment projections in this publication depend on population projections for the various age groups that attend school. The future fertility rate assumption (along with corresponding projections of female populations) determines projections of the number of births, a key factor for population projections. The fertility rate assumption plays a major role in determining population projections for the age groups enrolled in nursery school, kindergarten, and elementary grades. The effects of the fertility rate assumption are more pronounced toward the end of the forecast period, while immigration assumptions affect all years. For enrollments in secondary grades and college, the fertility rate assumption is of no consequence, since all the population cohorts for these enrollment ranges have already been born.

#### Economic assumptions

Various economic variables are used in the forecasting models for numbers of elementary and secondary teachers, public elementary and secondary school expenditures, and postsecondary enrollment.

Projections of the economic variables were from the trend scenario of the "U.S. Quarterly Macroeconomic Model December 2018 Short-Term Baseline Projections" developed by the IHS Global Inc. This set of projections was IHS Global Inc.'s most recent set at the time the education projections in this report were produced. The trend scenario depicts a mean of possible paths that the economy could take over the forecast period, barring major shocks. The economy, in this scenario, evolves smoothly, without major fluctuations.

#### More information about specific assumptions

For details about the primary assumptions used in this edition of *Projections of Education Statistics*, see table A-1 on page 67.

#### Accuracy of the projections

Projections of time series usually differ from the final reported data due to errors from many sources. This is because of the inherent nature of the statistical universe from which the basic data are obtained and the properties of projection methodologies, which depend on the validity of many assumptions.

The mean absolute percentage error (MAPE) is one way to express the forecast accuracy of past projections. This measure expresses the average absolute value of errors over past projections in percentage terms. For example, an analysis of projection errors over the past 35 editions of *Projections of Education Statistics* indicates that the MAPEs for public school enrollment in grades preK–12 for lead times of 1, 2, 5, and 10 years were 0.3, 0.5, 1.2, and 2.6 percent, respectively. For the 1-year-out projection, this means that one would expect the projection to be within 0.3 percent of the actual value, on average.

For a list of MAPEs for selected national statistics in this publication, see table A-2 on page 67. Sections A.1 through A.4 each contain at least one text table (tables A through F) that presents the MAPEs for the key national statistics of that section. Each text table appears directly after the discussion of accuracy of that section's national projections. For a list of MAPEs by state and region for public elementary and secondary enrollment, see tables A-7 through A-9 on pages 76–78 and for a list of MAPEs by state and region for the number of high school graduates in public schools, see table A-14 on page 91.

Tables A-3 and A-4 present an example of how the MAPEs were constructed using actual values for total enrollment in degree-granting postsecondary institutions projections for schools years 2014–15 through 2017–18 and enrollment projections from the last four editions of *Projections of Education Statistics*. The top two panels of table A-3 shows the actual values for school years 2014–15 through 2017–18 and enrollment projections for each year from *Projections of Education Statistics to 2024* with the number of projections generally decreasing by one for each subsequent edition. The bottom panel of table A-3 shows the percentage differences between the actual values and the projected values. For example, the projected value for 2014–15 presented in *Projections of Education Statistics to 2024* was 0.2 percent higher than the actual value for that year.

The top panel of table A-4 shows the absolute value of the percent differences from table A-3 arranged by lead time rather than year. For example, in the *Projections of Education Statistics to 2024*, the last year of actual data reported was 2013–14 and thus the lead time for the projection of 2014–15 data was 1 year. Thus, the 0.2 appearing in the 2014–15 column of Table A-3 for *Projections of Education Statistics to 2024* appears in the column for lead times of 1 year in Table A-4, indicating that projection of the one-year-out forecast from *Projections of Education Statistics to 2024* differed by 0.2 percent in absolute terms from its actual value. The MAPEs for each lead time shown in the bottom panel of table A-4 were calculated by computing the average of the absolute values of the percentage differences for that lead time of 2 years for the first three editions of *Education Statistics* listed in table A-4. These absolute values are 1.2, 3.4, and 3.3. The MAPE for a lead time of 2 years was then calculated by taking the average of these numbers, or 2.6. This matches the MAPE that appears in the bottom panel for a lead time of 2 years for fall enrollment in degree-granting institutions projections elsewhere in this report because the MAPEs in the example were calculated using only the last four editions of *Education Statistics*.

The number of years used in the analyses of the projection errors differ both because projections of additional education statistics have been added to the report over time and because, in some cases, there have been substantial changes in the methodology used to produce the projections such that the MAPEs for the earlier projections are no longer relevant. MAPEs are presented for a statistic only after it has been produced using substantially the same methodology in five previous editions of *Projections of Education Statistics* and there are at least 5 years of historical data for use in calculating the MAPEs.

#### Table A-1. Summary of forecast assumptions to 2028

Variable	Assumption
1	2
Demographic assumptions Population 18- to 24-year-old population 25- to 29-year-old population 30- to 34-year-old population 35- to 44-year-old population	Census Bureau projection: average annual growth rate of -0.2% Census Bureau projection: average annual growth rate of 0.6%
Economic assumptions Disposable income per capita in constant dollars Education revenue receipts from state sources per capita in constant dollars Inflation rate	Annual percent changes range between 1.1% and 1.9% with an annual growth rate of 1.4% Annual percent changes range between 0.8% and 1.6% with an annual growth rate of 0.9% Inflation rate ranges between 1.7% and 2.4%
Unemployment rate (males) Ages 18 and 19 Ages 20 to 24 Age 25 and over	Remains between 12.4% and 15.6% Remains between 6.8% and 8.7% Remains between 2.8% and 3.7%
Unemployment rate (females)           Ages 18 and 19           Ages 20 to 24           Age 25 and over	Remains between 9.2% and 11.8% Remains between 5.2% and 6.7% Remains between 3.0% and 3.9%

<sup>1</sup>As the Census Bureau projections were not updated to reflect the most recent Census Bureau population estimates, the Census Bureau age-specific population projections for each year were adjusted by multiplying the ratio of the total Census Bureau estimate for 2018 to the total Census Bureau projection for 2018. SOURCE: U.S. Department of Commerce, Census Bureau, Population Estimates, retrieved July 19, 2018 from <a href="https://www2.census.gov/programs-surveys/popest/datasets/2010-2017/">https://www2.census.gov/programs-surveys/popest/datasets/2010-2017/;</a> and Population Projections, retrieved October 10, 2018, from <a href="https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html">https://www2.census.gov/programs-surveys/popest/datasets/2010-2017/;</a> and Population Projections, retrieved October 10, 2018, from <a href="https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html">https://www2.census.gov/datasets/2010-2017/;</a> data/datasets/2017/demo/popproj/2017-popproj.html; and IHS Global Inc., "U.S. Quarterly Macroeconomic Model, December 2018 Short-Term Baseline Projections." (This table was prepared March 2019.)

# Table A-2. Mean absolute percentage errors (MAPEs), by lead time for selected statistics in all elementary and secondary schools: MAPEs constructed using projections from *Projections of Education Statistics to 1984–85* through *Projections of Education Statistics to 2027*

		Lead time (years)									
Statistic	1	2	3	4	5	6	7	8	9	10	
1	2	3	4	5	6	7	8	9	10	11	
Public elementary and secondary schools											
Prekindergarten–12 enrollment <sup>1</sup>	0.3	0.5	0.8	1.0	1.2	1.4	1.6	1.9	2.2	2.6	
Prekindergarten–8 enrollment <sup>1</sup> 9–12 enrollment <sup>1</sup>	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.4	2.8	3.3	
9–12 enrollment <sup>1</sup>	0.4	0.7	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3	
White <sup>2</sup>	0.5	0.9	1.5	1.9	2.8	5.2	6.8	7.9	7.5	_	
Black <sup>2</sup>	0.6	1.4	1.9	2.3	2.7	3.8	4.7	5.2	3.4		
Hispanic <sup>2</sup>	0.9	1.1	1.3	2.1	2.9	4.0	4.7	4.5	0.2		
Asian/Pacific Islander <sup>2</sup>	0.6	1.9	3.3	4.4	5.3	7.3	9.9	10.3	8.4		
American Indian/Alaska Native <sup>2</sup>	1.3	2.4	4.7	7.2	10.4	19.2	22.9	25.8	25.8		
Elementary and secondary teachers <sup>3</sup>	0.7	1.4	1.7	2.3	3.0	4.0	4.7	5.4	5.7	6.5	
High school graduates <sup>4</sup>	1.0	1.1	1.8	2.2	2.5	2.9	3.5	4.2	4.8	5.1	
White <sup>2</sup>	1.0	0.5	0.8	1.3	2.5	3.5		_	—		
Black <sup>2</sup>	2.3	3.0	3.5	5.8	7.1	9.3	_	_	_		
Hispanic <sup>2</sup>	3.6	4.5	6.6	13.2	16.9	16.2	_	_	_		
Asian/Pacific Islander <sup>2</sup>	1.5	2.6	2.7	1.6	2.2	0.3		_			
American Indian/Alaska Native <sup>2</sup>	1.9	1.8	3.7	6.9	8.8	7.8		_			
Total current expenditures <sup>5</sup>	1.7	2.6	2.7	2.7	3.1	4.1	5.0	5.8	6.3	7.2	
Current expenditures per pupil in fall enrollment <sup>5</sup>	1.7	2.6	2.7	2.7	3.3	4.1	5.0	5.7	6.6	7.5	
Private elementary and secondary schools <sup>6</sup>											
Prekindergarten-12 enrollment <sup>6</sup>	2.8	5.5	3.6	8.4	7.3	10.2	9.3	13.8	14.0	17.3	
Prekindergarten-8 enrollment <sup>6</sup>	3.1	5.8	3.8	9.6	8.3	11.9	11.2	17.1	17.9	21.5	
9–12 enrollment <sup>6</sup>	2.9	4.2	3.7	4.5	4.1	4.7	4.5	5.9	4.5	6.8	
High school graduates <sup>6</sup>	3.0	2.5	5.4	5.3	4.9	7.4	6.8	6.4	6.9	7.7	

#### -Not available

<sup>1</sup>MAPEs for public prekindergarten–12 enrollments were calculated using the last 35 editions of *Projections of Education Statistics*, from *Projections of Education Statistics to 1984–85* through *Projections of Education Statistics to 2027*.

<sup>2</sup>MÅPEs for public prekindergarten–12 enrollments and high school graduates by race/ ethnicity were calculated using the last nine editions of *Projections of Education Statistics*, from *Projections of Education Statistics* to 2019 through *Projections of Education Statistics* to 2027. <sup>3</sup>Data for teachers expressed in full-time equivalents. MAPEs for teachers were calculated from the past 28 editions of *Projections of Education Statistics*, from *Projections of Education Statistics* to 1997–98 through *Projections of Education Statistics* to 2027, excluding *Projections of Education* Statistics to 2019 through *Projections of Education* Statistics to 2027, excluding *Projections* of *Education* Statistics to 2012 which did not include projections of teachers

of Education Statistics to 2012 which did not include projections of teachers. <sup>4</sup>MAPEs for public high school graduates were calculated from the past 28 editions of *Projections* of Education Statistics, from *Projections of Education Statistics to 2000* through *Projections* of Education Statistics to 2027. <sup>6</sup>In constant dollars based on the Consumer Price Index for all urban consumers, Bureau of

<sup>5</sup>In constant dollars based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor. MAPEs for current expenditures were calculated

using projections from the last 28 editions of *Projections of Education Statistics*, from *Projections of Education Statistics to 1997–98* through *Projections of Education Statistics to 2027*, excluding *Projections of Education Statistics to 2012* which did not include projections of current expenditures.

<sup>6</sup>MAPEs for private prekindergarten–12 enrollments and high school graduates were calculated from the past 17 editions of *Projections of Education Statistics*, from *Projections of Education Statistics to 2011* through *Projections of Education Statistics to 2027*.

NOTE: Mean absolute percentage error is the average value over past projections of the absolute values of errors expressed in percentage terms. No MAPEs are presented for enrollments in degree-granting postsecondary institutions and postsecondary degrees conferred as projections of some of these statistics were calculated using a new model and all remaining projections were calculated using projections from a new model. Calculations were made using unrounded numbers. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Projections* of *Education Statistics*, various issues. (This table was prepared March 2019.)

#### Table A-3. Example of constructing mean absolute percentage errors (MAPEs) on fall enrollment in degree-granting institutions, part 1

		Year o	of data	
Source	2014–15	2015–16	2016–17	2017–18
1	2	3	4	5
		Enrollment i	in thousands	
Actual	20,209	19,988	19,847	19,766
		Projected enrolln	nent in thousands	
Projections of Education Statistics to 2024 Projections of Education Statistics to 2025 Projections of Education Statistics to 2026 Projections of Education Statistics to 2027	20,254 † †	20,233 20,264 †	20,485 20,516 20,185 †	20,925 20,972 20,413 19,831
		Percentage difference betwee	en actual and projected values	
Projections of Education Statistics to 2024 Projections of Education Statistics to 2025 Projections of Education Statistics to 2026 Projections of Education Statistics to 2027	0.2 † † †	1.2 1.4 † †	3.2 3.4 1.7 †	5.9 6.1 3.3 0.3

†Not applicable.

NOTE: Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), IPEDS Spring 2014 through Spring 2018, Enrollment component; and *Projections of Education Statistics*, various editions. (This exhibit was prepared January 2019.)

#### Table A-4. Example of constructing mean absolute percentage errors (MAPEs) on fall enrollment in degree-granting institutions, part 2

		Lead tim	e (years)	
Source	1	2	3	4
1	2	3	4	5
	Abs	olute value of percentage differenc	e between actual and projected va	lues
Projections of Education Statistics to 2024	0.2	1.2	3.2	5.9
Projections of Education Statistics to 2025	1.4	3.4	6.1	†
Projections of Education Statistics to 2026	1.7	3.3	†	†
Projections of Education Statistics to 2027	0.3	†	†	t
		Mean absolute p	percentage error	
Example	0.9	2.6	4.7	5.9

†Not applicable.

NOTE: The mean absolute percentage errors presented in this table are for illustrative purpose only.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), IPEDS Spring 2014 through Spring 2018, Enrollment component; and *Projections of Education Statistics*, various editions. (This exhibit was prepared January 2019.)

## A.1. ELEMENTARY AND SECONDARY ENROLLMENT

### **Projections in this edition**

This edition of *Projections of Education Statistics* presents projected trends in elementary and secondary enrollment from 2017 to 2028. These projections were made using three models:

- » The *National Elementary and Secondary Enrollment Projection Model* was used to project total, public, and private school enrollments for the nation by grade level and for ungraded elementary and ungraded secondary programs.
- » The *State Public Elementary and Secondary Enrollment Projection Model* was used to project total public school enrollments by grade level for individual states and regions.
- » The *National Public Elementary and Secondary Enrollment by Race/Ethnicity Projection Model* was used to project public school enrollments for the nation by race/ethnicity and grade level.

All three elementary and secondary enrollment models used the following same methods.

#### **Overview of approach**

Two methods were used in all the elementary and secondary enrollment models:

- » The *grade progression rate method* was used to project enrollments in grades 2 through 12. In this method, a rate of progression from each grade (1 through 11) to the next grade (2 through 12) was projected using single exponential smoothing. (For example, the rate of progression from grade 2 to grade 3 is the current year's grade 3 enrollment expressed as a percentage of the previous year's grade 2 enrollment.) To calculate enrollment for each year in the forecast period, the progression rate for each grade was applied to the previous year's enrollment in the previous grade.
- » The *enrollment rate method* was used to project prekindergarten, kindergarten, and first-grade enrollments as well as elementary special and ungraded and secondary special and ungraded enrollments. For each of these enrollment categories, the enrollment rate for the last year of actual data was used as the projected enrollment rate. To calculate enrollment for each year in the forecast period, the enrollment rate for each category was applied to the projected population in the appropriate age group.

#### Assumptions underlying these methods

The grade progression and enrollment rate methods assume that past trends in factors affecting public and private elementary and secondary school enrollments will continue over the forecast period. This assumption implies that all factors influencing enrollments will display future patterns consistent with past patterns. This method implicitly includes the net effect of such factors as migration, dropouts, deaths, nonpromotion, and transfers between public and private schools.

## Procedures and equations used in all three elementary and secondary enrollment projection models

The notation and equations that follow describe the basic procedures used to project elementary and secondary enrollments in each of the three elementary and secondary enrollment projection models.

Let:

- *i* = Subscript denoting age
- *j* = Subscript denoting grade
- t = Subscript denoting time
- T = Subscript of the first year in the forecast period
- $N_t$  = Enrollment at the prekindergarten (nursery) level
- $K_{\rm t}$  = Enrollment at the kindergarten level
- $G_{j,t}$  = Enrollment in grade j
- Et = Enrollment in elementary special and ungraded programs
- S<sub>t</sub> = Enrollment in secondary special and ungraded programs

 $P_{i,t}$  = Population age *i* 

- $R_{j,t}$  = Progression rate for grade *j*
- RN<sub>t</sub> = Enrollment rate for prekindergarten (nursery school)
- $RK_t$  = Enrollment rate for kindergarten
- $RG_{1,t}$  = Enrollment rate for grade 1
- REt = Enrollment rate for elementary special and ungraded programs
- $RS_t$  = Enrollment rate for secondary special and ungraded programs.

**Step 1.** Calculate historical grade progression rates for each of grades 2 through 12. The first step in projecting the enrollments for grades 2 through 12 using the grade progression method was to calculate, for each grade, a progression rate for each year of actual data used to produce the projections except for the first year. The progression rate for grade *j* in year *t* equals

$$R_{j,t} = G_{j,t}/G_{j-1,t-1}$$

**Step 2.** Produce a projected progression rate for each of grades 2 through 12. Projections for each grade's progression rate were then produced for the forecast period using single exponential smoothing. A separate smoothing constant, chosen to minimize the sum of squared forecast errors, was used to calculate the projected progression rate for each grade. Single exponential smoothing produces a single forecast for all years in the forecast period. Therefore, for each grade *j*, the projected progression rate,  $\hat{R}_{j}$ , is the same for each year in the forecast period.

**Step 3.** Calculate enrollment projections for each of grades 2 through 12. For the first year in the forecast period, *T*, enrollment projections,  $\hat{G}_{j,t}$ , for grades 2 through 12, were produced using the projected progression rates and the enrollments of grades 1 through 11 from the last year of actual data, *T*–1. Specifically,

This same procedure was then used to produce the projections for the following year, T+1, except that enrollment projections for year T were used rather than actual numbers:

$$\hat{G}_{j,T} = \hat{R}_j \cdot G_{j-1,T-1}$$

The enrollment projections for grades 2 through 11 for year T were those just produced using the grade progression method. The projection for grade 1 for year T was produced using the enrollment rate method, as outlined in steps 4 and 5 below.

$$\hat{G}_{j,T+1} = \hat{R}_j \cdot \hat{G}_{j,T}$$

The same procedure was used for the remaining years in the projections period.

**Step 4.** For the last year of actual data, calculate enrollment rates for prekindergarten, kindergarten, grade 1, elementary special and ungraded, and secondary special and ungraded. The first step in projecting prekindergarten, kindergarten, first-grade, elementary special and ungraded, and secondary special and ungraded enrollments using the enrollment rate method was to calculate enrollment rates for each enrollment category for the last year of actual data, *T*–1, where:

$$RN_{T-1} = N_{T-1}/P_{5,T-1}$$

$$RK_{T-1} = K_{T-1}/P_{5,T-1}$$

$$RG_{1,T-1} = G_{1,T-1}/P_{6,T-1}$$

$$RE_{T-1} = E_{T-1}/\sum_{i=5}^{13}P_{i,T-1}$$

$$RS_{T-1} = S_{T-1}/\sum_{i=14}^{17}P_{i,T-1}$$

These enrollment rates were then used as the projected enrollment rates for each year in the forecast period ( $\widehat{RN}$ ,  $\widehat{RK}$ ,  $\widehat{RG}_1$ ,  $\widehat{RE}$ , and  $\widehat{RS}$ ).

Step 5. Using the rates for the last year of actual data as the projected enrollment rates, calculate enrollment projections for

prekindergarten through grade 1 and the ungraded categories. For each year in the forecast period, the enrollment rates were then multiplied by the appropriate population projections from the U.S. Census Bureau ( $\hat{P}_{i,t}$ ) to calculate enrollment projections for prekindergarten (nursery school) ( $\hat{N}_t$ ), kindergarten ( $\hat{K}_t$ ), first grade ( $\hat{G}_{1,t}$ ), elementary ungraded ( $\hat{E}_t$ ), and secondary ungraded ( $\hat{S}_t$ )

$$\hat{N}_{t} = \widehat{RN} \cdot \hat{P}_{5,t}$$
$$\hat{K}_{t} = \widehat{RK} \cdot \hat{P}_{5,t}$$
$$\hat{G}_{1,t} = \widehat{RG}_{1} \cdot \hat{P}_{5,t}$$
$$\hat{E}_{t} = \widehat{RE} \cdot (\sum_{i=5}^{13} \hat{P}_{i,t})$$
$$\hat{S}_{t} = \widehat{RS} \cdot (\sum_{i=14}^{17} \hat{P}_{i,t})$$

**Step 6.** Calculate total elementary and secondary enrollments by summing the projections for each grade and the ungraded categories. To obtain projections of total enrollment, projections of enrollments for the individual grades (prekindergarten through 12), elementary ungraded, and secondary ungraded were summed.

#### **National Elementary and Secondary Enrollment Projection Model**

This model was used to project national total, public, and private school enrollments by grade level and for ungraded elementary and ungraded secondary programs. National enrollment projections for public and private schools were developed separately, then added together to yield total elementary and secondary enrollment projections for the nation. To develop these projections, enrollment data from NCES were used, along with population estimates and projections from the U.S. Census Bureau. Below is information about the specific data used to develop the public school projections and the private school projections, as well as information about the grade progression rates and enrollment rates specific to public schools and private schools.

For details on procedures used to develop the projections, see "Procedures and equations used in all three elementary and secondary enrollment projection models," earlier in this section of appendix A.

#### Data used to develop national elementary and secondary enrollment projections

**Public school enrollment data.** Public school enrollment data from the NCES *Statistics of Public Elementary and Secondary School Systems* for 1972 to 1980 and the NCES Common Core of Data (CCD) for 1981 to 2016 were used to develop the national public school enrollment projections.

**Private school enrollment data.** Private school enrollment data from the NCES Private School Universe Survey (PSS) for 1989–90, 1991–92, 1993–94, 1995–96, 1997–98, 1999–2000, 2001–02, 2003–04, 2005–06, 2007–08, 2009–10, 2011–12, 2013–14, and 2015–16 were used to develop the national private school enrollment projections. Since the PSS is collected in the fall of odd-numbered years, data for even-numbered years without a PSS collection were estimated by interpolating grade-by-grade progression data from PSS.

**Population estimates and projections used for public school enrollment projections.** Population estimates for 1972 to 2017 and population projections for 2018 to 2028 from the U.S. Census Bureau were also used to develop the public school enrollment projections. (See table B-1 on page 110 and table B-2 on page 111.) The set of population projections used in this year's *Projections of Education Statistics* are the Census Bureau's 2017 National Population Projections by age and sex (September 2018), adjusted to line up with the most recent historical estimates. This was done through the use of ratio adjustments in which, for each combination of state, age, and sex, the population projections from 2018 to 2028 were multiplied by the ratio of the population estimate for 2017 to the population projection for 2017.

**Population estimates and projections used for private school enrollment projections.** Population estimates for 1989 to 2017 and population projections for 2018 to 2028 from the U.S. Census Bureau were used to develop the private school enrollment projections. The population projections were ratio-adjusted to line up with the most recent historical estimates.

## Grade progression and enrollment rates for national elementary and secondary enrollment projections

**Public school grade progression and enrollment rates.** Table A-5 on page 75 shows the public school grade progression rates for 2016 and projections for 2017 through 2028. Table A-6 on page 75 shows the public school enrollment rates for 2016 and projections for 2017 through 2028.

#### Accuracy of national elementary and secondary enrollment projections

Mean absolute percentage errors (MAPEs) for projections of public school enrollment were calculated using the last 35 editions of *Projections of Education Statistics*, while MAPEs for projections of private school enrollment were calculated using the last 17 editions. Table A, below, shows MAPEs for both public and private school enrollment projections.

For more information about MAPEs, see Section A.O. Introduction, earlier in appendix A.

# Table A. Mean absolute percentage errors (MAPEs) of enrollment projections, by lead time, control of school, and grade in elementary and secondary schools: MAPEs constructed using projections from Projections of Education Statistics to 1984–85 through Projections of Education Statistics to 2027

	Lead time (years)											
Statistic	1	2	3	4	5	6	7	8	9	10		
Public elementary and secondary schools												
Prekindergarten–12 enrollment	0.3	0.5	0.8	1.0	1.2	1.4	1.6	1.9	2.2	2.6		
Prekindergarten-8 enrollment	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.4	2.8	3.3		
9–12 enrollment	0.4	0.7	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3		
Private elementary and secondary schools												
Prekindergarten-12 enrollment	2.8	5.5	3.6	8.4	7.3	10.2	9.3	13.8	14.0	17.3		
Prekindergarten-8 enrollment	3.1	5.8	3.8	9.6	8.3	11.9	11.2	17.1	17.9	21.5		
9–12 enrollment	2.9	4.2	3.7	4.5	4.1	4.7	4.5	5.9	4.5	6.8		

NOTE: Mean absolute percentage error is the average value over past projections of the absolute values of errors expressed in percentage terms. MAPEs for public prekindergarten–12 enrollments were calculated using the last 35 editions of *Projections of Education Statistics*, from *Projections of Education Statistics* to 1984–85 through *Projections of Education Statistics to 2027*. MAPEs for private prekindergarten–12 enrollments were calculated from the past 17 editions, from *Projections of Education Statistics to 2011* through *Projections of Education Statistics to 2027*. Calculations were made using unrounded numbers. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Projections of Education Statistics*, various issues. (This table was prepared January 2019.)

### **State Public Elementary and Secondary Enrollment Projection Model**

This edition of *Projections of Education Statistics* contains projected trends in public elementary and secondary enrollment by grade level from 2017 to 2028 for each of the 50 states and the District of Columbia, as well as for each region of the country. The state enrollment projections were produced in two stages:

- » first, an initial set of projections for each state was produced; and
- » second, these initial projections were adjusted to sum to the national public enrollment totals produced by the National Elementary and Secondary Enrollment Projection Model.

For each region, the enrollment projections equaled the sum of enrollment projections for the states within that region. The states within each geographic region can be found in appendix F.

#### Initial set of state projections

The same methods used to produce the national enrollment projections—namely, the grade progression rate method and the enrollment rate method—were used to produce the initial sets of public school enrollment projections for each state and the District of Columbia. A separate smoothing constant, chosen to minimize the sum of squared forecast errors, was used to calculate the projected progression rate for each combination of jurisdiction and grade.

For details on the procedures used to develop the initial sets of projections, see "Procedures and equations used in all three elementary and secondary enrollment projection models," earlier in this section of appendix A.

#### Limitations of the grade progression method for state projections

The grade progression rate method assumes that past trends in factors affecting public school enrollments will continue over the forecast period. This assumption implies that all factors influencing enrollments will display future patterns consistent with past patterns. Therefore, this method has limitations when applied to states with unanticipated changes in migration rates. This method implicitly includes the net effect of such factors as migration, dropouts, deaths, nonpromotion, and transfers to and from private schools.

#### Adjustments to the state projections

The initial projections of state public school enrollments were adjusted to sum to the national projections of public school prekindergarten (preK)–12, preK–8, and 9–12 enrollments shown in table 1 on page 33. This was done through the use of ratio adjustments in which all the states' initial enrollment projections for each grade level were multiplied by the ratio of the national enrollment projection for that grade level to the sum of the state enrollment projections for that grade level.

#### Data used to develop state elementary and secondary enrollment projections

**Public school enrollment data.** Public school enrollment data from the NCES *Statistics of Public Elementary and Secondary School Systems* for 1980 and from the NCES Common Core of Data (CCD) for 1981 to 2016 were used to develop these projections.

**Population estimates and projections.** Population estimates for 1980 to 2017 from the U.S. Census Bureau and population projections for 2017 to 2028 from IHS Global Inc. were used to develop the state-level enrollment projections. This is the fourth edition of *Projections of Education Statistics* to use population projections from IHS Global Inc. rather than from the Census Bureau. The change was made because it had been many years since the Census Bureau had produced population projections at the state level. Unlike the old state-level Census population projections, the IHS Global Inc. state-level population projections were by age groups rather than individual ages. For each year, age-specific population projections for each state were produced for each age from 5 through 17 by applying that age's share of national projection for its age-group to the state-level projections for its age group.

#### Accuracy of state elementary and secondary enrollment projections

Mean absolute percentage errors (MAPEs) for projections of public school enrollment by state were calculated using the last 23 editions of *Projections of Education Statistics*. Tables A-7 through A-9 on pages 76–78 show MAPEs for preK–12, preK–8, and 9–12 enrollment in public elementary and secondary schools by state.

# National Public Elementary and Secondary Enrollment by Race/Ethnicity Projection Model

This edition of *Projections of Education Statistics* contains projected trends in national public elementary and secondary enrollment by race/ethnicity from 2017 to 2028.

This is the sixth edition to include enrollment projections for students of Two or more races. As 2010 is the first year in which all 50 states and the District of Columbia reported enrollment data for students of Two or more races, enrollment projections for this category were produced using a different method than that used for the other five racial/ethnic groups.

Prior to 2008, there was a single category for students of Asian and/or Native Hawaiian or Other Pacific Islander origin. In 2008 and 2009, states could choose to place these students in the single category, Asian and/or Native Hawaiian or Other Pacific Islander, or in one of three categories, (1) Asian, (2) Hawaiian or Other Pacific Islander, and (3) Two or more races (for students of both Asian and Hawaiian or Other Pacific Islander origin). Beginning in 2010, the option of using the single category was eliminated and states were required to place students in one of those three categories. For students of Asian and/or Native Hawaiian or Other Pacific Islander origin, projections were calculated for a single category, Asian/Pacific Islander. For 2008 and 2009, the count of the Asian/Pacific Islander students included the total of the Asian and/or Native Hawaiian or Other Pacific Islander students for states reporting one category and the counts for Asian students and Native Hawaiian or Other Pacific Islander students and Native Hawaiian or Other Pacific Islander students for states reporting three categories. Beginning in 2010, the count of the Asian/Pacific Islander students and Native Hawaiian or Other Pacific Islander students for states reporting three categories. Beginning in 2010, the count of the Asian/Pacific Islander students and Native Hawaiian or Other Pacific Islander students for states reporting three categories. Beginning in 2010, the count of the Asian/Pacific Islander students and Native Hawaiian or Other Pacific Islander students.

The enrollment projections by race/ethnicity were produced in two stages:

- » first, an initial set of projections by race/ethnicity was produced; and
- » second, these initial projections were adjusted to sum to the national totals.

#### Initial set of projections by race/ethnicity

The same methods used to produce the national enrollment projections—namely, the grade progression rate method and the enrollment rate method—were used to produce initial sets of projections for each of the following five racial/ ethnic groups: White, Black, Hispanic, Asian/Pacific Islander, and American Indian/Alaska Native. A separate smoothing constant, chosen to minimize the sum of squared forecast errors, was used to calculate the projected progression rate for each combination of race/ethnicity and grade.

## For details on the procedures used to develop the initial sets of projections, see "Procedures and equations used in all three elementary and secondary enrollment models," earlier in this section of appendix A.

National enrollment projections for students of Two or more races by grade level were produced by taking the 2016 grade-level enrollment numbers for students of Two or more races and applying the growth rates from 2017 to 2028 of the U.S. Census Bureau's age specific population projections for persons of Two or more races.

#### Adjustments to the projections by race/ethnicity

The initial projections of enrollments by race/ethnicity were adjusted to sum to the national projections of public school preK–12, preK–8, and 9–12 enrollments shown in table 1 on page 33. This was done through the use of ratio adjustments in which all the initial enrollment projections by race/ethnicity for each grade level were multiplied by the ratio of the national enrollment projection for that grade level to the sum of the initial enrollment projections by race/ ethnicity for that grade level.

#### Data and imputations used to develop enrollment projections by race/ethnicity

**Public school enrollment data.** Public school enrollment data by grade level and race/ethnicity from the NCES Common Core of Data (CCD) for 1994 to 2016 were used to develop these projections. While projections by race/ethnicity were produced at the national level only, the national data used to develop these projections were constructed from state-level data on enrollment by grade level and race/ethnicity. In those instances where states did not report their enrollment data by grade level and race/ethnicity, the state-level data had to be examined and some imputations made in order to produce the national public school enrollment by grade level and race/ethnicity. It did, however, report these numbers for 1994, North Dakota did not report grade-level enrollment data by race/ethnicity. It did, however, report these numbers for 1995. So, to impute these numbers for 1994, North Dakota's 1994 grade-level enrollment data were estimated by the state's 1995 racial/ethnic distribution at each grade level.

**Population estimates and projections.** Population estimates for 2000 to 2017 and population projections for 2018 to 2028 from the U.S. Census Bureau were used to develop the enrollment projections by race/ethnicity. The set of population projections used in this year's *Projections of Education Statistics* are the Census Bureau's 2017 National Population Projections by age, sex, and race/ethnicity (September 2018), ratio-adjusted to line up with the most recent historical estimates.

#### Accuracy of enrollment projections by race/ethnicity

Mean absolute percentage errors (MAPEs) for projections of public school enrollment by race/ethnicity were calculated using the last nine editions of *Projections of Education Statistics*. Table B, below, shows MAPEs for public school enrollment by race/ethnicity projections.

				Le	ad time	(years)				
Statistic	1	2	3	4	5	6	7	8	9	10
Total enrollment	0.3	0.5	0.8	1.0	1.2	1.4	1.6	1.9	2.2	2.6
White	0.5	0.9	1.5	1.9	2.8	5.2	6.8	7.9	7.5	_
Black	0.6	1.4	1.9	2.3	2.7	3.8	4.7	5.2	3.4	_
Hispanic	0.9	1.1	1.3	2.1	2.9	4.0	4.7	4.5	0.2	_
Asian/Pacific Islander	0.6	1.9	3.3	4.4	5.3	7.3	9.9	10.3	8.4	_
American Indian/Alaska Native	1.3	2.4	4.7	7.2	10.4	19.2	22.9	25.8	25.8	_

# Table B. Mean absolute percentage errors (MAPEs) of enrollment projections, by lead time and race/ethnicity: MAPEs constructed using projections from Projections of Education Statistics to 1984–85 through Projections of Education Statistics to 2027

-Not available.

NOTE: Mean absolute percentage error is the average value over past projections of the absolute values of errors expressed in percentage terms. MAPEs for public preK–12 enrollments were calculated using the last 35 editions of *Projections of Education Statistics*, from *Projections of Education Statistics* to 1984–85 through *Projections of Education Statistics* to 2027. MAPEs for public preK–12 enrollments by race/ethnicity were calculated using the last nine editions of *Projections of Education Statistics*, from *Projections of Education Statistics* to 2027. Calculations were made using unrounded numbers.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Projections of Education Statistics*, various issues. (This table was prepared January 2019.)

#### Table A-5. Actual and projected national public school grade progression rates: Fall 2016, and fall 2017 through fall 2028

Grade	Actual 2016	Projected 2017 through 2028
1	2	3
1 to 2	99.8	99.8
2 to 3	100.8	100.6
3 to 4	99.7	99.7
4 to 5	100.6	100.3
5 to 6	100.6	100.5
6 to 7	100.8	100.7
7 to 8	100.5	100.4
8 to 9	107.2	107.2
9 to 10	96.0	96.0
10 to 11	95.4	95.4
11 to 12	99.3	99.3

NOTE: The progression rate for a particular grade in a year equals the enrollment in the grade for that year divided by the enrollment in the previous grade in the previous year all multiplied by 100. For example, the progression rate for third-graders in 2016 equals the enrollment of third-graders in 2016 divided by the enrollment of second-graders in 2016, all multiplied by 100.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2015–16 and 2016–17; and National Elementary and Secondary Enrollment Projection Model, 1972 through 2028. (This table was prepared January 2019.)

#### Table A-6. Actual and projected national enrollment rates in public schools, by grade level: Fall 2016, and fall 2017 through fall 2028

Grade	Actual 2016	Projected 2017 through 2028
1	2	3
Prekindergarten	35.4	35.4
Kindergarten	91.7	91.7
Grade 1	91.7	91.7
Elementary ungraded	0.2	0.2
Secondary ungraded	0.3	0.3

NOTE: The enrollment rate for each grade level equals the enrollment at that grade level divided by the population of that grade's base age, all multiplied by 100. The base age for each grade level is as follows: kindergarten, 5 years old; grade 1.6 years old; elementary ungraded, 5 to 13 years olds; and secondary ungraded, 14 to 17 years olds. Projected values for 2017 through 2028 were held constant at the actual values for 2016. SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2016–17; and National Elementary and Secondary Enrollment Projection Model, 1972 through 2028. (This table was prepared January 2019.)

#### Table A-7. Mean absolute percentage errors (MAPEs) for projected prekindergarten-12 enrollment in public elementary and secondary schools, by lead time, region, and state: MAPEs constructed using projections from Projections of Education Statistics to 1984-85 through Projections of Education Statistics to 2027

					Lead tim	ne (years)				
Region and state	1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10	11
United States	0.3	0.5	0.8	1.0	1.2	1.4	1.6	1.9	2.2	2.6
Region										
Northeast		0.7	0.9 0.5	1.0	1.0 0.8		1.3 1.2	1.2	1.2	1.2 1.7
Midwest South		0.4 0.8	0.5	0.6 1.5	1.8		2.7	1.4 3.2	1.4 4.0	4.7
West		0.8	1.1	1.3	1.7	2.1	2.4	2.7	2.8	2.9
State										
Alabama		0.8	1.0	1.4	1.8	2.5	3.1	3.7	4.3	4.8
Alaska		1.6	2.2	2.7	3.2	4.2	4.8	6.0	7.0	8.9
Arizona		2.8 0.9	4.0 1.5	5.4 2.0	7.1 2.5	8.9 3.3	10.3 4.0	11.7 4.1	13.4 4.7	14.2 5.2
Arkansas California		0.9	1.2	1.7	2.3	2.8	3.1	3.4	4.7	4.8
Colorado	0.5	0.8	1.1	1.4	1.9	2.6	3.3	3.8	4.6	5.5
Connecticut		0.8	1.0	1.2	1.6		2.7	3.1	3.7	4.4
Delaware		1.3	1.7	2.1	2.6		4.4	4.9	5.8	6.4
District of Columbia Florida		4.6 1.5	6.2 2.2	7.6 3.0	7.6 3.8	7.8 5.1	6.4 6.1	5.8 7.0	7.1 8.0	6.8 9.2
		-					-			
Georgia		1.1 2.9	1.6 3.5	2.3 4.3	2.8 5.6	3.6 7.3	4.4 8.8	5.1 9.7	6.2 11.4	7.1 13.6
Hawaii Idaho		2.9	3.5	4.3	5.6 3.0		0.0 4.3	9.7	4.5	4.8
Illinois		0.7	0.9	1.1	1.4	1.7	1.9	2.4	2.6	3.1
Indiana		0.7	0.9	1.2	1.5	1.8	2.1	2.2	2.4	2.7
lowa		0.8	1.1	1.4	1.7	2.0	2.2	2.6	3.2	3.5
Kansas		1.1	1.4	1.4	1.7	2.2	2.4	2.5	2.7	3.0
Kentucky Louisiana		1.5 2.6	1.8 3.2	2.0 4.1	1.9 4.9	2.8 6.1	2.9 6.9	3.0 6.7	3.6 7.5	4.2 8.2
Maine		1.2	1.4	1.7	2.1	2.0	1.8	2.0	2.2	2.7
					1.9		2.5		2.5	2.3
Maryland Massachusetts		0.8 0.7	1.1 0.9	1.4 1.0	1.9	2.3 1.5	2.5	2.5 2.0	2.5	2.3
Michigan		1.4	1.8	2.1	2.5	3.4	4.0	4.5	5.1	5.7
Minnesota		0.5	0.7	0.8	1.1	1.4	1.6	1.7	1.7	1.9
Mississippi		0.9	1.2	1.4	1.6	1.9	2.1	2.3	2.7	3.1
Missouri		0.5	0.5	0.7	0.8	1.0	1.0	1.2	1.4	1.8
Nontana		1.2	1.8	2.4	3.2	4.4	5.5	6.4	7.7	9.0
Nebraska Nevada		0.8 1.7	1.1 2.6	1.4 3.9	1.7 5.3	2.2 7.4	2.7 9.6	3.0 11.1	3.4 13.0	3.5 14.8
New Hampshire		0.8	0.9	1.2	1.4	2.1	2.6	3.4	4.2	5.1
New Jersey	0.9	1.4	1.9	2.1	2.2	2.6	3.1	3.8	4.4	4.4
New Mexico	1.2	1.9	2.6	3.6	4.6		7.1	8.0	8.8	9.7
New York		1.1	1.4	1.8	2.2		3.0	3.1	3.2	2.9
North Carolina		1.4 1.7	1.9 2.3	2.7 3.2	3.4 4.4	4.4 6.0	5.2	5.9 9.2	7.0	7.5
North Dakota	. 0.0	1.7	2.3	3.2	4.4	0.0	7.6	9.2	10.3	11.1
Ohio		0.5	0.8	1.0	1.3	1.7	2.0	2.2	2.3	2.5
Oklahoma		1.2 1.3	1.7 1.7	2.2 1.8	2.8 1.9	3.5 2.2	4.2 2.6	4.8 3.0	5.5 3.3	6.2 3.5
Oregon Pennsylvania		1.3	1.7	1.0	1.9	1.9	2.0	1.8	3.3 2.0	2.8
Rhode Island		1.5	2.2	2.7	2.9	3.4	3.7	3.8	4.2	4.3
South Carolina	0.6	1.0	1.5	2.0	2.4	3.0	3.7	4.2	4.7	5.1
South Dakota		1.9	2.9	3.9	4.9	6.2	6.8	7.4	8.3	9.0
Tennessee	0.8	1.2	1.5	1.9	2.1	2.5	3.0	3.5	3.8	4.0
TexasUtah		1.1 1.7	1.6 1.9	2.1 2.8	2.6 3.6		4.5 5.2	5.3 5.9	6.3 6.8	7.4 6.4
Vermont Virginia		2.2 0.6	2.4 0.7	2.8 1.0	3.4 1.4	4.2 1.8	4.2 2.1	4.7 2.5	4.5 3.0	5.6 3.7
Washington		0.8	1.1	1.4	1.6		2.3	2.5	2.7	2.9
West Virginia	0.6	0.8	0.9	1.3	1.7	2.3	3.0	3.4	4.0	4.5
Wisconsin		0.8	1.0	1.3	1.6		1.9	2.0	1.8	2.0
Wyoming	. 0.7	1.3	2.0	3.0	4.2	5.7	7.0	8.2	9.7	11.4

NOTE: Mean absolute percentage error (MAPE) is the average value over past projections of the absolute values of errors expressed in percentage terms. National MAPEs for public prekindergarten-12 enrollments were calculated using the last 35 editions of *Projections of Education Statistics*, from *Projections of Education Statistics* to 1984-85 through *Projections* of Education Statistics to 2027. State MAPEs were calculated using the last 23 editions of

Projections of Education Statistics, from Projections of Education Statistics to 2005 through Projections of Education Statistics to 2027. Calculations were made using unrounded numbers. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, *Projections* 

of Education Statistics, various issues. (This table was prepared January 2019.)

#### Table A-8. Mean absolute percentage errors (MAPEs) for projected prekindergarten–8 enrollment in public elementary and secondary schools, by lead time, region, and state: MAPEs constructed using projections from *Projections of Education Statistics to 1984–85* through *Projections of Education Statistics to 2027*

					Lead tin	ne (years)				
Region and state	1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10	11
United States	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.4	2.8	3.3
Region	0.4	0.7	0.0	0.0	0.0		1.0	1.0		1 1
Northeast Midwest	0.4	0.7 0.4	0.8 0.5	0.9 0.7	0.9 0.8	1.1 1.0	1.2 1.1	1.2 1.3	1.1	1.1 1.6
South	0.5	0.9	1.4	1.8	2.2	2.8	3.4	4.0	4.9	5.6
West	0.5	0.9	1.3	1.7	2.1	2.6	2.9	3.3	3.5	3.8
State										
Alabama	0.6	0.9 1.8	1.3 2.7	1.8 3.5	2.2 4.4	3.0 5.8	3.6 7.1	4.1 9.1	4.7	5.0 12.8
Alaska Arizona	1.1	2.9	4.3	5.7	7.1	9.3	10.5	12.0	13.2	12.0
Arkansas	0.7	1.1	1.8	2.4	3.0	4.1	4.8	4.9	5.4	5.9
California	0.7	1.3	1.7	2.3	3.0	3.7	4.2	4.8	5.5	6.6
Colorado	0.6	1.0	1.2	1.6	2.2	3.1	4.0	4.7	5.5	6.6
Connecticut	0.6	0.9	1.2	1.5	2.1	2.6	3.1	3.6	4.1	4.7
Delaware	0.9	1.4	1.7	2.3	2.8	3.9	4.8	5.5	6.4	7.4
District of Columbia Florida	3.9 0.8	4.8 1.7	5.8 2.6	7.0 3.5	6.9 4.5	7.2 6.0	6.5 7.3	5.6 8.2	7.3	6.6 10.6
Georgia	0.8	1.4	2.1	2.7	3.3	4.3	5.3	6.1	7.2	8.1
Hawaii	2.0	3.4	3.9	4.9	6.6		11.0	12.3	14.6	17.0
Idaho	1.0	2.0	2.8	3.2	3.8		5.0	5.1	5.0	5.2
Illinois	0.6	0.8	1.0	1.3	1.7	2.1	2.4	2.9	3.1	3.7
Indiana	0.4	0.8	1.0	1.3	1.5	1.8	2.1	2.1	2.3	2.7
lowa	0.6	1.0	1.4	2.0	2.5	3.1	3.5	4.1	4.8	5.1
Kansas	0.8	1.2 1.8	1.4 2.3	1.5 2.6	1.9 2.7	2.6 3.0	3.1 3.2	3.3 3.4	3.7	4.0 4.9
Kentucky Louisiana	1.5	2.5	2.3	3.4	4.0	5.0	5.8	5.5	6.2	7.0
Maine	0.6	1.0	1.3	1.7	2.4	2.8	3.1	4.0	4.8	5.8
Maryland	0.5	0.8	1.2	1.6	2.2	2.8	3.2	3.4	3.6	3.6
Massachusetts	0.4	0.7	1.0	1.2	1.3	1.7	1.9	2.1	2.2	2.2
Michigan	0.7	1.4	1.8	2.3	2.6		4.1	5.0	5.7	6.3
Minnesota Mississippi	0.4	0.5 1.2	0.8 1.5	1.0 1.8	1.3 2.1	1.5 2.6	1.6 2.8	1.6 3.0	1.6	1.6 3.9
Missouri	0.5	0.7 1.5	0.9	1.0 3.3	1.2	1.4 6.3	1.4 8.0	1.3 9.3	1.3	1.6 12.1
Montana Nebraska	0.9	1.0	2.4 1.3	3.3 1.5	4.5 1.9		0.0 3.1	9.3 3.6	4.0	4.1
Nevada	1.1	2.3	3.8	5.4	7.2		12.4	14.3	16.4	17.8
New Hampshire	0.6	1.0	1.2	1.6	2.5	3.4	4.2	5.3	6.4	7.5
New Jersey	1.0	1.6	2.0	2.0	2.0	2.3	3.0	3.5	3.9	3.7
New Mexico	1.0	1.8	2.4	3.2	4.3	6.1	7.4	8.7	9.3	9.8
New York North Carolina	0.6	0.9 1.8	1.1 2.5	1.5 3.5	2.0 4.2	2.4 5.4	2.9 6.2	3.1 7.3	3.1	2.8 9.1
North Dakota	1.1	2.2	3.0	4.1	5.6		9.4	11.4	12.4	13.0
Ohio	0.4	0.4	0.6	0.7	1.0	1.3	1.4	1.7	1.8	2.1
Oklahoma	1.0	1.6	2.2	2.8	3.5		5.3	5.8	6.4	7.3
Oregon	0.9	1.5	1.7	1.7	2.0	2.4	2.5	3.0	3.5	3.6
Pennsylvania	0.5	0.9	1.2	1.3	1.5	1.6	1.5	1.5	1.8	2.3 5.2
Rhode Island	1.1	1.7	2.3	2.9	3.1	3.8	4.3	4.4	4.8	5.2
South Carolina	0.8	1.2	1.6	2.3	2.6		3.9	4.3		5.2
South Dakota Tennessee	1.2	2.0 1.1	3.0 1.7	4.3 2.1	5.7 2.2		8.4 2.6	9.6 3.0	10.7	10.8 4.0
Texas	0.8	1.4	2.1	2.7	3.3		5.2	6.2	7.3	8.3
Utah	1.2	1.7	2.0	2.7	3.5		5.3	5.9	6.8	7.2
Vermont	1.7	2.8	3.0	3.5	4.5		6.1	7.0	6.6	7.7
Virginia	0.5	0.7	0.8	1.2	1.6		2.5	3.0	3.5	4.2
Washington	0.4	0.8	1.1	1.4	1.6		2.3	2.7	2.6	2.7
West Virginia Wisconsin	0.6	0.8 0.7	1.0 0.9	1.3 1.3	1.7 1.7		2.9 2.1	3.4 2.1	4.1	4.5 2.0
Wyoming	0.0	1.6	2.5		5.3		9.0	10.6		14.0
					5.0		2.0			

NOTE: Mean absolute percentage error (MAPE) is the average value over past projections of the absolute values of errors expressed in percentage terms. National MAPEs for public prekindergarten–8 enrollments were calculated using the last 35 editions of *Projections of Education Statistics*, from *Projections of Education Statistics* to 1984–85 through *Projections of Education Statistics* to 2027. State MAPEs were calculated using the last 23 editions of

Projections of Education Statistics, from Projections of Education Statistics to 2005 through Projections of Education Statistics to 2027. Calculations were made using unrounded numbers. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Projections* of *Education Statistics*, various issues. (This table was prepared January 2019.)

# Table A-9. Mean absolute percentage errors (MAPEs) for projected grades 9–12 enrollment in public schools, by lead time, region, and state: MAPEs constructed using projections from *Projections of Education Statistics to 1984–85* through *Projections of Education Statistics to 2027*

Bagion and state         1         2         3         4         5         6         7         8         9         10           1         2         3         4         6         6         7         8         9         10           United State         0         4         07         10         11         13         14         18         15         17         18         18         13         13         13         13         13         13         13         13         13         14         15         17         18         18         13         13         13         13         13         13         13         13         13         13         13         13         14         15         1		Lead time (years)									
United Status         0.4         0.7         1.0         1.1         1.3         1.4         1.6         1.8         2.20         2.3           Degin         0.4         0.4         0.6         1.0         1.5         1.7         1.8         1.5         1.7         1.8         1.5         1.7         1.7         1.7         1.7         1.7         1.7         1.7         1.7	Region and state	1	2	3	4	5	6	7	8	9	10
Begin themest         0.8         1.1         1.2         1.5         1.7         1.8         1.6         1.8         1.9           Midvest         0.3         0.6         0.4         0.6         0.9         1.0         1.2         1.5         1.7         1.8         1.6         1.7         2.0         2.2         2.4         2.6         3.3           West         0.3         0.3         1.3         1.4         2.3         2.6         3.5         4.2         4.6         5.6         6.3           Aldoar         0.3         0.4         2.4         7.7         2.7         3.2         5.6         3.5         4.2         6.6         6.3           Aldoar         0.4         0.6         1.1         1.5         1.3         1.5         1.9         2.2         2.5         2.7         2.3         2.8         3.0         3.6         4.6         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.5         5.4         5.5         5.4         5.5         5.4         5.5         5.5         5.5         5.5	1	2	3	4	5	6	7	8	9	10	11
deched:       08       1.1       12       15       1.7       1.8       1.6       1.8       1.8         Bidderst       0.8       0.3       0.6       0.3       0.3       0.3       0.3       1.1       1.2       1.5       1.7       1.8       1.6       1.8       1.8       1.6       1.8       1.8       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.7       1.8       1.6       1.8       1.6       1.8       1.6       1.8       1.6       1.8       1.6       1.8       1.6       1.8       1.6       1.6       1.6       1.6       1.6       1.7       1.8	United States	0.4	0.7	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3
bifore         0.6         0.6         0.9         1.0         1.2         1.7         1.7         1.9           West         0.3         0.3         0.3         0.3         1.1         1.3         1.4         1.5         1.7         2.0         2.2         2.4         2.6         3.5         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         3.5         3.5         4.2         4.4         5.6         6.1           Absta         0.3         0.5         1.3         1.3         1.3         1.3         3.3 </td <td></td>											
Sumi											
West         0.5         0.7         1.1         1.3         1.4         1.5         1.7         1.8         1.9         1.6           State         0.0         1.5         1.8         2.2         2.5         3.5         4.2         4.8         5.5         4.2         4.8         5.5         4.2         4.8         5.5         4.2         4.8         5.5         4.2         4.8         5.5         4.2         4.8         5.5         4.2         4.8         5.5         4.2         4.8         5.5         4.2         4.8         5.5         4.2         4.8         5.5         4.2         4.8         4.5         5.5         4.2         4.8         4.5 <td>Midwest</td> <td>0.4</td> <td></td> <td>0.8</td> <td></td> <td>  1.0</td> <td></td> <td>  1.5</td> <td>  1.7</td> <td>1.7</td> <td></td>	Midwest	0.4		0.8		1.0		1.5	1.7	1.7	
State         Advisor         Advisor	South	0.3	0.8	1.3	1.6	1.7	2.0	2.2	2.4	2.6	3.3
Alabara         09         15         18         2.3         2.6         5.5         4.2         4.8         5.6         6.1           Alaska         33         5.4         7.3         7.8         8.2         30         39         108         138         155           Calloring         0.4         0.8         1.2         1.7         2.0         2.2         2.5         2.7         2.3         2.5           Connoto         0.6         1.1         1.6         2.0         2.2         2.8         3.0         2.9         3.1         3.7           Connoto         0.6         1.1         1.6         2.0         2.2         2.6         3.2         3.9         4.4         5.4           Debriting         0.7         1.2         1.7         2.0         2.5         3.0         3.5         4.4         5.4         5.6           Debriting         0.6         0.7         1.2         1.7         2.0         2.5         3.0         3.5         4.4         5.6           Gorgia         0.6         0.7         1.0         1.3         1.4         1.6         2.1         2.4         2.7         2.4         2.5	West	0.5	0.7	1.1	1.3	1.4	1.5	1.7	1.8	1.9	1.6
Alasia       10       20       27       29       3.1       3.5       3.6       3.8       3.5       3.5       3.6       3.8       3.5       3.5       3.6       3.8       3.5       3.5       3.6       3.8       3.5       3.5       3.6       3.8       3.5       3.5       3.6       3.8       3.5       3.5       3.6       3.8       3.5       3.5       3.6       3.8       3.5       3.5       3.6       3.8       3.5       3.5       3.6       3.8       3.5       3.5       3.6       3.8       3.5       3.5       3.6       3.6       3.8       3.7       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       2.2       3.6       3.4       3.7       4.4       5.	State										
Alaska         1.0         2.0         2.7         2.9         3.1         3.5         3.6         3.8         3.5         3.5           Actiona         3.3         5.4         7.7         7.8         8.2         9.9         9.9         9.9         9.8         1.8         1.5           Actiona         6.4         0.8         1.2         1.7         1.0         2.2         2.7         2.3         3.5           Colorado         6.6         1.0         1.1         1.6         2.0         2.8         3.0         2.9         3.1         3.7           Colorado         6.6         1.0         1.1         1.6         2.0         2.8         3.6         1.4         5.4	Alabama	0.9	1.5	1.8	2.3	2.6	3.5	4.2	4.8	5.6	6.1
Artona         3.3         5.4         7.3         7.8         8.2         9.0         9.9         10.8         13.8         15.6           Calfornia         0.4         0.8         1.2         1.3         1.5         1.9         2.2         2.5         3.1         3.8         5.6           Colorado         0.6         1.1         1.6         2.0         2.3         2.2         2.5         3.1         3.3           Connectout         0.6         1.0         1.1         1.5         2.0         2.6         3.2         3.9         4.8         5.8           Deletivar         0.6         1.0         1.1         1.5         2.0         2.6         3.2         3.9         4.8         5.8           Deletivar         0.5         2.9         1.4         1.7         2.0         2.5         3.0         3.5         4.4         5.5         5.6         6.4           Idation         0.5         0.9         1.4         1.7         2.0         2.5         3.0         3.5         4.4         5.5         5.6         6.4           Idation         0.5         0.6         0.7         0.9         1.3         1.6 <t< td=""><td>Alaska</td><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.8</td><td></td><td>3.3</td></t<>	Alaska	10							3.8		3.3
Arkansas         0.4         0.8         1.2         1.3         1.5         1.9         2.2         2.5         3.1         3.8           Colorado         0.6         1.1         1.6         2.0         2.8         3.0         2.9         3.1         3.8           Delexerac         1.1         1.6         2.0         2.6         3.0         3.5         3.6         4.6         5.4           Delexerac         0.7         1.2         1.7         2.2         2.6         3.5         3.6         4.6         5.4           Delexerac         0.7         1.2         1.7         2.2         2.6         3.5         3.6         4.6         5.4           Bienci         0.7         1.4         1.2         1.7         2.2         2.6         3.0         3.5         4.4         4.7         15.1         16.2           Haveni         0.4         0.7         1.4         1.5         1.5         3.1         1.6         2.0         2.3         3.5         4.4         4.7         4.8           Illicais         0.7         1.0         0.9         1.3         1.4         1.6         2.1         2.4         2.2         2		3.3									
Calfornia         0.4         0.8         1.2         1.7         2.0         2.3         2.5         2.7         2.3         2.5           Colorado         0.6         1.1         1.6         2.5         2.8         3.0         2.8         3.1         3.7           Coloradio         0.6         1.1         1.6         2.5         2.8         3.0         2.8         3.6         4.6         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.8         5.4         5.8         5.4         5.8         5.4         5.8         5.4											
Connecticut         0.6         1.0         1.1         1.5         2.0         2.6         3.2         3.9         4.8         5.8           Detricit Columbia         0.6         1.7         2.2         2.6         2.7         3.0         3.5         3.6         4.4         15.1         16.2           Finds         0.7         1.2         1.7         2.2         2.5         3.0         3.5         4.4         5.4         5.8           Gorigi         0.5         0.9         1.4         1.7         2.20         2.5         3.0         3.5         4.4         4.7         4.8           Idiob         0.9         1.4         1.8         1.9         2.6         3.0         3.8         4.4         4.7         4.8           Idiob         0.7         1.0         1.3         1.4         1.6         2.1         2.4         2.7         2.6         2.9           Indian         0.4         0.9         1.3         1.6         1.0         1.3         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5											
Connecticut         0.6         1.0         1.1         1.5         2.0         2.6         3.2         3.9         4.8         5.8           Detricit Columbia         0.6         1.7         2.2         2.6         2.7         3.0         3.5         3.6         4.4         15.1         16.2           Finds         0.7         1.2         1.7         2.2         2.5         3.0         3.5         4.4         5.4         5.8           Gorigi         0.5         0.9         1.4         1.7         2.20         2.5         3.0         3.5         4.4         4.7         4.8           Idiob         0.9         1.4         1.8         1.9         2.6         3.0         3.8         4.4         4.7         4.8           Idiob         0.7         1.0         1.3         1.4         1.6         2.1         2.4         2.7         2.6         2.9           Indian         0.4         0.9         1.3         1.6         1.0         1.3         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5	Colorado	0.6	11	16	20	23	2.8	3.0	20	31	37
Delavara         1.2         1.7         2.2         2.6         2.7         3.0         3.5         3.6         4.6         5.4           Portici of Columbia         0.7         1.2         1.7         2.2         2.5         3.5         4.4         15.1         16.2           Portici of Columbia         0.7         1.2         1.7         2.2         2.5         3.5         4.4         5.4         5.8           Georgia         0.4         0.2         2.4         3.7         2.8         3.0         3.8         4.4         5.4         6.6           Hainia         0.4         0.9         1.3         1.4         1.6         2.1         2.4         2.6         2.9         3.3         3.1         1.1         1.1         1.1         1.3         1.4         1.3         1.1											
District of Columbia         6.2         7.7         10.2         12.7         14.8         16.6         14.8         14.7         15.1         16.2           Georgia         0.5         0.9         1.4         1.7         2.2         2.5         3.0         3.5         4.4         5.4         5.4         5.4         5.5         6.6           Meanal         1.9         2.2         2.5         3.0         3.5         4.4         5.4         5.5         6.6           Meanal         0.6         0.9         1.3         1.4         2.6         2.2         2.8         3.0         3.3         3.5           Indiana         0.4         0.9         1.3         1.7         2.1         2.5         2.8         3.0         3.3         3.5           Indiana         0.6         0.7         1.0         1.5											
Finda         0.7         1.2         1.7         2.2         2.5         3.5         4.4         5.4         5.8           Georgia         0.5         0.9         1.4         1.7         2.0         2.5         3.0         3.5         4.4         4.5           Havaii         1.4         2.2         2.3         3.5         3.4         4.4         4.4         4.4           Mindos         0.7         1.0         1.3         1.9         2.6         3.0         3.6         4.4         4.4         4.4           Mindos         0.7         1.0         1.3         1.7         2.1         2.5         2.4         2.7         2.3         2.6         3.2           Kansas         0.6         0.7         1.8         1.4         1.4         1.4         1.4         1.5         1.7         2.1         2.3         2.2         2.4         1.4         1.4         1.4         1.4 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
Georgia         0.5         0.9         1.4         1.7         2.0         2.5         3.0         3.5         4.4         5.5           Herwaii         0.9         1.4         1.8         1.9         2.6         3.0         3.5         4.4         4.5           Horwaii         0.9         1.4         1.8         1.9         2.6         3.0         3.4         4.4         4.4           Milliobi         0.4         0.9         1.3         1.4         1.6         2.1         2.4         2.7         2.3         2.5         3.0         3.3         4.4         4.4         4.8         3.1         3.7         2.5         1.7											
Hawaii       1.4       2.2       2.9       3.5       3.8       4.6       5.1       5.5       5.6       6.4         Hindina       0.9       1.4       1.8       1.9       2.6       3.0       3.8       4.4       4.7       4.8         Hindina       0.7       1.0       1.3       1.4       1.6       2.1       2.4       2.7       2.6       2.9       2.8         Iowa       0.6       0.7       1.0       0.9       1.3       1.6       2.1       2.4       2.7       2.8       3.0       3.3       3.5         Iowa       0.6       0.7       1.0       0.9       1.3       1.6       2.0       2.3       2.6       3.2         Iowa       1.4       2.5       3.2       4.0       4.5       5.7       6.8       1.2       1.5       1.1       1.3         Istigation       0.5       0.8       1.2       1.5       1.7       2.1       2.3       2.7       2.8       2.2       2.4       4.4         Marginal       0.5       0.8       1.2       1.5       1.7       2.1       2.3       2.7       2.8       2.2       2.4       2.9       2.1	Florida	0.7	1.2	1.7	2.2	2.5	3.5	4.4	5.4	5.4	5.8
Havaii       14       2.2       2.9       3.5       3.8       4.6       5.1       5.5       5.6       6.4         Hilnois       0.0       1.4       1.8       1.9       2.6       3.0       3.8       4.4       4.7       4.8         Hilnois       0.7       1.0       1.3       1.4       1.6       2.1       2.4       2.7       2.6       2.9       2.5       2.8       3.0       3.3       3.5         Iova       0.6       0.7       1.0       0.9       1.3       1.6       2.0       2.3       2.6       3.2       2.6       3.2       1.1       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.1       1.3       1.4       1.8       2.0       1.5       1.5       1.5       1.1       1.3       1.4       1.5       1.7       2.1       2.3       2.7       2.8       1.3       1.3       1.6       3.9       4.3       4.4       4.4       1.4       1.6       1.9       2.5       3.1       3.6       3.9       4.3       4.4       Meineschauteschau	Georgia	0.5	0.9	1.4	1.7	2.0	2.5	3.0	3.5	4.4	5.5
daho       0.9       1.4       1.8       1.9       2.6       3.0       3.8       4.4       4.7       4.8         liniois       0.7       1.0       1.3       1.4       1.6       2.1       2.4       2.6       2.9       2.6       3.9         lova       0.6       0.7       1.0       0.9       1.3       1.6       2.0       2.3       2.6       3.2         karsas       0.1       1.5       1.9       2.1       2.0       1.9       1.5       1.5       1.5       1.1         Kenteky       2.4       3.6       4.9       6.2       7.5       9.4       10.8       12.4       1.3         Marjand       0.5       0.8       1.2       1.6       1.9       2.5       3.1       3.6       3.9       4.4       4.4         Massachusetts       0.6       1.2       1.6       1.9       2.5       3.3       4.2       5.1       5.9       7.7       7.9       Minssachusetts       3.0       3.5       3.4       4.3       3.4       4.3         Marsachusetts       0.6       0.8       1.2       1.4       1.6       1.5       1.7       2.0       2.4       2.9		1.4	2.2	2.9	3.5	3.8	4.6	5.1	5.5	5.6	6.4
Illinois         0.7         1.0         1.3         1.4         1.6         2.1         2.4         2.7         2.6         2.9           Indiana         0.4         0.9         1.3         1.7         2.1         2.5         2.8         3.0         3.5           iowa         0.6         0.7         1.0         0.9         1.3         1.6         2.0         2.3         2.6         3.2           Karasa         1.0         1.5         1.9         2.1         2.0         1.9         1.5         1.5         1.1           Kentucky         1.4         2.8         2.0         1.8         1.8         3.1         3.7         3.5         4.4         4.3           Losisara         2.4         2.6         3.2         4.0         4.5         5.7         6.8         1.0.6         10.8         1.2         1.5         1.7         2.1         2.3         2.7         2.8         2.8         8.1           Massachusetts         0.6         1.2         1.6         1.9         2.5         3.1         3.6         3.9         4.3         4.4           Mochigan         0.5         0.8         1.0         1.1         1											
Indiana         0.4         0.9         1.3         1.7         2.1         2.5         2.8         3.0         3.3         3.5           lova         0.6         0.7         1.0         0.9         1.3         1.6         2.0         2.3         2.6         3.2           Karsas         1.0         1.5         1.9         2.1         2.0         1.9         1.5         1.5         1.1           Kentcky         1.4         1.8         2.0         1.8         1.8         3.1         3.7         3.5         4.4         4.3           Lousiana         2.4         3.6         4.9         6.2         7.5         9.4         10.6         10.8         12.4         13.4           Mariand         1.4         2.5         2.8         3.3         4.2         5.1         5.9         7.7         8.1         1.6         1.5         5.9         7.7         8.4         4.3           Michigan         0.6         0.8         1.2         1.4         1.6         1.5         1.7         2.0         2.2         2.4         2.9           Minssignpi         0.6         0.8         1.2         1.4         1.6         1.5 </td <td></td>											
Kanasa       1.0       1.5       1.9       2.1       2.0       1.9       1.5       1.5       1.5       1.1         Kentucky       2.4       3.6       4.9       6.2       7.5       9.4       10.6       10.8       12.4       13.4         Maine       2.4       3.6       4.9       6.2       7.5       9.4       10.6       10.8       12.4       13.4         Maryland       0.5       0.8       1.2       1.5       1.7       2.1       2.3       2.7       2.8       2.2         Massachusetts       0.6       1.2       1.6       1.9       2.5       3.1       3.6       3.9       4.3       4.4         Michigan       0.5       0.8       1.2       1.4       1.6       1.5       1.7       2.0       2.2       2.4       2.9       9.7       7.9         Minesota       0.5       0.8       1.0       1.1       1.3       1.7       2.0       2.2       2.4       2.9       2.4       2.9       2.4       2.9       2.4       2.9       2.4       2.9       2.4       2.9       2.4       2.9       2.4       2.4       2.4       2.4       2.4       2.4											
Kanasa       1.0       1.5       1.9       2.1       2.0       1.9       1.5       1.5       1.5       1.1         Kentucky       2.4       3.6       4.9       6.2       7.5       9.4       10.6       10.8       12.4       13.4         Maine       2.4       3.6       4.9       6.2       7.5       9.4       10.6       10.8       12.4       13.4         Maryland       0.5       0.8       1.2       1.5       1.7       2.1       2.3       2.7       2.8       2.2         Massachusetts       0.6       1.2       1.6       1.9       2.5       3.1       3.6       3.9       4.3       4.4         Michigan       0.5       0.8       1.2       1.4       1.6       1.5       1.7       2.0       2.2       2.4       2.9       9.7       7.9         Minesota       0.5       0.8       1.0       1.1       1.3       1.7       2.0       2.2       2.4       2.9       2.4       2.9       2.4       2.9       2.4       2.9       2.4       2.9       2.4       2.9       2.4       2.9       2.4       2.4       2.4       2.4       2.4       2.4	lowa	0.6	0.7	1.0	0.9	13	1.6	2.0	23	2.6	3.2
Kentocky         1.4         1.8         2.0         1.8         1.8         1.8         1.3         3.7         3.5         4.4         4.3           Maine         1.4         2.5         3.2         4.0         4.5         5.7         6.8         7.5         8.2         8.1           Maryland         0.5         0.8         1.2         1.5         1.7         2.1         2.3         2.7         2.8         2.2         2.4         3.4         4.4           Missourization         0.6         1.2         1.6         1.9         2.5         3.3         4.2         5.1         5.9         7.1         7.9           Missouri         0.6         1.2         1.8         2.2         2.5         3.0         3.5         3.9         4.3         4.3           Missouri         0.6         0.6         1.2         1.8         2.2         2.5         3.0         3.3         3.0         3.1           Nevada         0.4         0.8         1.1         1.4         1.6         1.9         2.3         2.6         2.8         2.8         1.0         1.1         1.4         1.6         1.9         2.3         2.6         2.8<											
Louisana       2.4       3.6       4.9       6.2       7.5       9.4       10.6       10.8       12.4       13.4         Maine       0.5       3.2       4.0       4.5       5.7       6.8       7.5       8.2       8.1         Masachusetts       0.6       1.2       1.6       1.9       2.5       3.1       3.6       3.9       4.3       4.4         Michigan       0.5       0.8       1.2       1.5       1.7       2.1       2.3       2.7       2.8       2.2         Missogipi       0.5       0.8       1.0       1.1       1.3       1.7       2.0       2.2       2.4       2.9       4.3       4.4         Missogipi       0.6       0.8       1.2       1.4       1.6       1.5       1.7       2.0       2.4       2.9         Missogipi       0.6       0.8       1.1       1.4       1.6       1.5       1.7       2.0       2.4         Mortana       0.4       0.8       1.1       1.4       1.6       1.7       2.0       2.4       3.0       3.6       3.0       3.1       1.1       1.7       2.0       2.4       3.0       3.6       3.2											
Maine         1.4         2.5         3.2         4.0         4.5         5.7         6.8         7.5         8.2         8.1           Maryland         0.5         0.8         1.2         1.5         1.7         2.1         2.3         2.7         2.8         2.2           Massachusetts         0.6         1.2         1.6         1.9         2.5         3.1         3.6         3.9         4.3         4.4           Michigan         0.5         0.8         1.0         1.1         1.3         1.7         2.0         2.2         2.4         2.9           Mississippi         0.6         0.8         1.2         1.8         2.2         2.5         3.0         3.5         3.9         4.3         4.3           Mississipi         0.6         0.8         1.1         1.6         1.5         1.7         2.0         2.4         2.9           Moritana         0.3         0.6         0.8         1.1         1.4         1.6         1.9         2.3         2.6         2.8         2.8           Neroda         0.4         0.8         1.1         1.4         1.6         1.7         2.0         2.4         3.0         <											
Maryland         0.5         0.8         1.2         1.5         1.7         2.1         2.3         2.7         2.8         2.2           Massachusetts         0.6         1.2         1.6         1.9         2.5         3.1         3.6         3.9         4.3         4.4           Michigan         0.5         0.8         1.0         1.1         1.3         1.7         2.0         2.2         2.4         2.9           Missispipi         0.6         1.2         1.8         2.2         2.5         3.0         3.5         3.9         4.3         4.3           Missouri         0.6         0.6         1.2         1.8         2.2         2.5         3.0         3.5         3.9         4.3         4.3           Missouri         0.6         0.6         1.1         1.6         1.5         1.7         2.0         2.4         2.9           Nevada         1.1         2.6         2.8         3.4         4.5         5.8         7.7         9.5         1.0.4           New Hearco         0.6         1.0         1.4         1.6         1.7         2.0         2.4         3.0         3.6         4.2         3.6											
	Maine	1.4	2.5	3.2	4.0	4.5	5.7	0.8	/.5	8.2	8.1
Minicipan         1.2         2.0         2.5         2.8         3.3         4.2         5.1         5.9         7.1         7.9           Minnesota         0.6         1.2         1.8         2.2         2.5         3.0         3.5         3.9         4.3         4.3           Mississippi         0.6         1.2         1.8         2.2         2.5         3.0         3.5         3.9         4.3         4.3           Mississippi         0.6         0.6         0.8         1.2         1.4         1.6         1.5         1.7         2.0         2.4           Montana         0.5         0.8         1.1         1.5         1.9         2.3         2.6         2.8         2.8           New da         1.1         2.1         2.6         2.8         3.4         4.5         5.8         7.7         9.5         10.4           New darco         2.3         3.5         4.7         5.7         7.0         8.1         8.7         8.8         9.2         10.4           New Varco         2.3         3.5         4.7         5.7         7.0         8.1         8.7         3.8         3.9         3.5         3.9	Maryland										
Minnešota         0.5         0.8         1.0         1.1         1.3         1.7         2.0         2.2         2.4         4.3           Missouri         0.6         1.2         1.8         2.2         2.5         3.0         3.5         3.9         4.3         4.3           Missouri         0.3         0.6         0.8         1.2         1.4         1.6         1.5         1.7         2.0         2.4           Montana         0.5         0.8         1.1         1.5         1.9         2.5         3.0         3.3         3.0         3.1           Nevada         1.1         2.4         0.6         0.1         1.4         1.6         1.7         2.0         2.4         3.0         3.1         3.1         3.1         3.1         3.1         3.1         3.3         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.0	Massachusetts							3.6		4.3	
Mississippi         0.6         1.2         1.8         2.2         2.5         3.0         3.5         3.9         4.3         4.3           Missouri         0.3         0.6         0.8         1.2         1.4         1.6         1.5         1.7         2.0         2.4           Montana         0.5         0.8         1.1         1.5         1.9         2.5         3.0         3.3         3.0         3.1         0.3         0.6         0.8         1.1         1.5         1.9         2.5         3.0         3.6         2.8         2.8         2.8         2.8         2.8         2.8         2.8         2.4         4.8         5.9         6.3           New Hampshire         0.6         1.0         1.4         1.6         1.7         2.0         2.4         8.8         9.2         1.0         8         4.2         4.8         5.9         6.3           New Vark         1.4         2.1         2.3         2.6         3.1         3.9         3.5         3.9         4.2         3.8         9.2         1.0         3.8         3.9         3.6         3.3         8.9         3.6         3.3         8.9         3.6         3.3 <td>Michigan</td> <td>1.2</td> <td>2.0</td> <td>2.5</td> <td>2.8</td> <td>3.3</td> <td>4.2</td> <td>5.1</td> <td>5.9</td> <td>7.1</td> <td>7.9</td>	Michigan	1.2	2.0	2.5	2.8	3.3	4.2	5.1	5.9	7.1	7.9
Mississippi         0.6         1.2         1.8         2.2         2.5         3.0         3.5         3.9         4.3         4.3           Missouri         0.3         0.6         0.8         1.2         1.4         1.6         1.5         1.7         2.0         2.4           Montana         0.5         0.8         1.1         1.5         1.9         2.5         3.0         3.3         3.0         3.1           Newtaska         0.4         0.8         1.1         1.4         1.6         1.9         2.3         2.6         2.8         2.8           New Hampshire         0.6         1.0         1.4         1.6         1.7         2.0         2.4         3.5         4.2           New Jersey         0.7         1.5         2.1         2.3         2.8         3.5         4.2         4.8         5.9         6.3           New York         1.4         2.1         2.3         2.6         3.1         3.9         3.5         3.9         4.2         3.8           North Carolina         0.6         1.3         1.7         2.1         2.6         3.1         3.4         4.2         5.0           North Caro	Minnesota	0.5	0.8	1.0	1.1	1.3	1.7	2.0	2.2	2.4	2.9
Montana         0.5         0.8         1.1         1.5         1.9         2.5         3.0         3.3         3.0         3.1           Nebraska         0.4         0.8         1.1         1.4         1.6         1.9         2.3         2.6         2.8         2.8           Nevada         1.1         2.1         2.6         2.8         3.4         4.5         5.8         7.7         9.5         10.4           New Hampshire         0.6         1.0         1.4         1.6         1.7         2.0         2.4         3.0         3.6         4.2           New Jersey         0.7         1.5         2.1         2.3         2.6         3.1         3.9         3.5         3.9         4.2         3.8           New Mexico         2.3         3.5         4.7         5.7         7.0         8.1         8.7         8.8         9.2         10.4           North Dakota         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.9         1.5         1.9         2.2         2.6         3.3         3.8         3.9         3.6		0.6	1.2	1.8	2.2	2.5	3.0	3.5	3.9	4.3	4.3
Montana         0.5         0.8         1.1         1.5         1.9         2.5         3.0         3.3         3.0         3.1           Nebraska         0.4         0.8         1.1         1.4         1.6         1.9         2.3         2.6         2.8         2.8           Nevada         0.6         0.0         1.0         1.4         1.6         1.7         2.0         2.4         3.0         3.6         4.2           New Jersey         0.7         1.5         2.1         2.3         2.6         3.1         3.9         3.5         4.7         5.7         7.0         8.1         8.7         8.8         9.2         10.4           New Mexico         2.3         3.5         4.7         5.7         7.0         8.1         8.7         8.8         9.2         10.4           North Carolina         1.0         1.4         1.6         1.7         2.1         2.6         3.1         3.9         3.5         3.9         4.2         3.8           North Dakota         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.9	Missouri	0.3	0.6	0.8	1.2	1.4	1.6	1.5	1.7	2.0	2.4
Neraska         0.4         0.8         1.1         1.4         1.6         1.9         2.3         2.6         2.8         2.8           New Hampshire         0.6         1.0         1.4         1.6         1.7         2.0         2.4         3.0         3.6         4.2           New Hampshire         0.6         1.0         1.4         1.6         1.7         2.0         2.4         3.0         3.6         4.2           New Jersey         0.7         1.5         2.1         2.3         2.8         3.5         4.2         4.8         5.9         6.3           New Mexico         2.3         3.5         4.7         5.7         7.0         8.1         8.7         8.8         9.2         10.4           New York         1.4         1.6         1.7         2.1         2.6         3.1         3.4         4.2         5.0           North Dakota         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.9         1.5         1.9         2.2         2.6         3.3         3.8         3.9         3.6         3.3											
Nevada         1.1         2.1         2.6         2.8         3.4         4.5         5.8         7.7         9.5         10.4           New Hampshire         0.6         1.0         1.4         1.6         1.7         2.0         2.4         3.0         3.6         4.2           New Jersey         0.7         1.5         2.1         2.3         2.8         3.5         4.2         4.8         5.9         6.3           New Mork         2.3         3.5         4.7         5.7         7.0         8.1         8.7         8.8         9.2         10.4           New Mork         1.4         2.1         2.3         2.6         3.1         3.9         3.5         3.9         4.2         3.8           North Darolina         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.2         1.6         1.9         2.3         2.7         3.2         3.9         4.7 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
New Hampshire         0.6         1.0         1.4         1.6         1.7         2.0         2.4         3.0         3.6         4.2           New Jersey         0.7         1.5         2.1         2.3         3.5         4.7         5.7         7.0         8.1         8.7         8.8         9.2         10.4           New Work         2.3         3.5         4.7         5.7         7.0         8.1         8.7         8.8         9.2         10.4           New Work         1.4         2.1         2.3         2.6         3.1         3.4         4.2         5.0           North Carolina         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.2         1.4         2.5         3.1         3.6         4.3         4.4         4.9 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
New Jersey         0.7         1.5         2.1         2.3         2.8         3.5         4.2         4.8         5.9         6.3           New Mexico         1.4         2.1         2.3         2.6         3.1         3.9         3.5         3.9         4.2         3.8         9.2         10.4           New Work         1.4         2.1         2.3         2.6         3.1         3.9         3.5         3.9         4.2         3.8           North Carolina         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Oktaoma         0.4         0.8         1.2         1.6         1.9         2.3         2.7         3.2         3.1<											
New Mexico         2.3         3.5         4.7         5.7         7.0         8.1         8.7         8.8         9.2         10.4           New York         1.4         2.1         2.3         2.6         3.1         3.9         3.5         3.9         4.2         3.8           North Carolina         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.9         1.5         1.9         2.2         2.6         3.3         3.8         3.9         3.6         3.3           Oklahoma         0.4         0.8         1.2         1.6         1.9         2.3         2.7         3.2         3.9         4.7           Oregon         1.0         1.5         1.9         2.0         2.4         2.8         2.7         2.8         2.4         3.7           Rhode Island         0.7         1.5         2.3         3.1         3.9         4.7         5.0         5.3         5.1         5.4		0.7	1 5	0.1			2.5	4.0	4.0	5.0	6.0
New York         14         2.1         2.3         2.6         3.1         3.9         3.5         3.9         4.2         3.8           North Carolina         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.6         1.5         1.9         2.2         2.6         3.3         3.8         3.9         3.6         3.3           Oregon         1.0         1.5         2.1         2.4         2.5         3.1         3.6         4.1         4.5         4.6           Pennsylvania         1.5         1.9         2.0         2.0         2.4         2.8         2.7         2.8         2.4         3.7											
North Carolina         1.0         1.4         1.6         1.7         2.1         2.6         3.1         3.4         4.2         5.0           North Dakota         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.9         1.5         1.9         2.2         2.6         3.3         3.8         3.9         3.6         3.3           Oklahoma         0.4         0.8         1.2         1.6         1.9         2.3         2.7         3.2         3.9         4.7           Oregon         1.0         1.5         2.1         2.4         2.5         3.1         4.1         4.5         4.6           Pennsylvania         1.5         1.9         2.0         2.0         2.4         2.8         2.4         3.7           Rhode Island         0.7         1.5         2.3         3.1         3.9         4.7         5.0         5.3         5.1         5.4           South Carolina         0.6         1.2         1.8         2.2         2.7         3.4         3.9         4.4         4.9         5.8           South Dakota <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
North Dakota         0.6         1.3         1.7         2.3         2.9         4.0         5.6         7.1         8.2         8.9           Ohio         0.9         1.5         1.9         2.2         2.6         3.3         3.8         3.9         3.6         3.3           Oklahoma         0.4         0.8         1.2         1.6         1.9         2.3         2.7         3.2         3.9         4.7           Oregon         1.0         1.5         2.1         2.4         2.5         3.1         3.6         4.1         4.5         4.6           Pennsylvania         1.0         1.5         2.1         2.4         2.5         3.1         3.6         4.1         4.5         4.6           Pennsylvania         0.7         1.5         2.3         3.1         3.9         4.7         5.0         5.3         5.1         5.4           South Carolina         0.6         1.2         1.8         2.2         2.7         3.4         3.9         4.4         4.9         5.8           South Dakota         1.4         2.5         3.8         4.9         6.0         7.1         8.4         5.7         5.9         5.8 <td></td>											
Ohio         0.9         1.5         1.9         2.2         2.6         3.3         3.8         3.9         3.6         3.3           Oklahoma         0.4         0.8         1.2         1.6         1.9         2.3         2.7         3.2         3.9         4.7           Oregon         1.0         1.5         2.1         2.4         2.5         3.1         3.6         4.1         4.5         4.6           Pennsylvania         1.0         1.5         1.9         2.0         2.0         2.4         2.8         2.7         2.8         2.4         3.7           Rhode Island         0.7         1.5         2.3         3.1         3.9         4.7         5.0         5.3         5.1         5.4           South Carolina         0.6         1.2         1.8         2.2         2.7         3.4         3.9         4.4         4.9         5.8           South Dakota         1.4         2.5         3.8         4.9         6.0         7.1         8.4         5.7         5.9         5.8           Tennessee         1.7         2.0         2.6         3.3         3.9         4.8         5.4         5.7         5.9											
Oklahoma         0.4         0.8         1.2         1.6         1.9         2.3         2.7         3.2         3.9         4.7           Oregon         1.0         1.5         2.1         2.4         2.5         3.1         3.6         4.1         4.5         4.6           Pennsylvania         1.5         1.9         2.0         2.0         2.4         2.8         2.7         2.8         2.4         3.7           Rhode Island         0.7         1.5         2.3         3.1         3.9         4.7         5.0         5.3         5.1         5.4           South Carolina         0.6         1.2         1.8         2.2         2.7         3.4         3.9         4.4         4.9         5.8           South Dakota         1.4         2.5         3.8         4.9         6.0         7.1         8.4         9.7         5.9         5.8           Tennessee         1.7         2.0         2.6         3.3         3.9         4.8         5.4         5.7         5.9         5.8           Texas         0.4         1.0         1.5         1.8         2.2         2.6         3.1         3.7         4.5         5.7	North Dakota	0.6	1.3	1.7	2.3	2.9	4.0	5.6	/.1	8.2	8.9
Oklahoma         0.4         0.8         1.2         1.6         1.9         2.3         2.7         3.2         3.9         4.7           Oregon         1.0         1.5         2.1         2.4         2.5         3.1         3.6         4.1         4.5         4.6         4.6           Pensylvania         0.7         1.5         2.1         2.4         2.5         3.1         3.6         4.1         4.5         4.6         4.6           Rhode Island         0.7         1.5         2.3         3.1         3.9         4.7         5.0         5.3         5.1         5.4           South Carolina         0.6         1.2         1.8         2.2         2.7         3.4         3.9         4.4         4.9         5.8           South Dakota         1.4         2.5         3.8         4.9         6.0         7.1         8.4         9.1         9.4         9.7           Tennessee         1.4         2.5         3.8         4.9         6.0         7.1         8.4         9.1         9.4         9.7           Tennessee         0.4         1.0         1.5         1.8         2.2         2.6         3.1         3.7 <td></td>											
Pensylvania         1.5         1.9         2.0         2.0         2.4         2.8         2.7         2.8         2.4         3.7           Rhode Island         0.7         1.5         2.3         3.1         3.9         4.7         5.0         5.3         5.1         5.4           South Carolina         0.6         1.2         1.8         2.2         2.7         3.4         3.9         4.4         4.9         5.8           South Dakota         1.7         2.0         2.6         3.3         3.9         4.8         5.4         5.7         5.9         5.8           Tennessee         1.7         2.0         2.6         3.3         3.9         4.8         5.4         5.7         5.9         5.8           Texas         0.4         1.0         1.5         1.8         2.2         2.6         3.1         3.7         4.5         5.7           Utah         1.6         1.9         1.9         3.2         4.1         5.7         6.0         7.0         8.5         7.1           Vermont         0.5         0.9         1.4         1.9         2.3         2.8         2.9         2.9         2.9         2.9										3.9	
Rhode Island         0.7         1.5         2.3         3.1         3.9         4.7         5.0         5.3         5.1         5.4           South Carolina         0.6         1.2         1.8         2.2         2.7         3.4         3.9         4.4         4.9         5.8           South Dakota         1.4         2.5         3.8         4.9         6.0         7.1         8.4         9.1         9.4         9.9         7           Tennessee         1.7         2.0         2.6         3.3         3.9         4.8         5.4         5.7         5.9         5.8           Texas         0.4         1.0         1.5         1.8         2.2         2.6         3.1         3.7         4.5         5.7           Utah         1.6         1.9         1.9         3.2         4.1         5.7         6.0         7.0         8.5         7.1           Vermont         0.5         0.9         1.4         1.9         2.3         2.8         2.9         2.9         2.9         2.9         2.9         2.9         2.9         2.9         2.9         2.9         2.9         2.9         2.9         2.9         2.9	Oregon	1.0	1.5	2.1	2.4	2.5	3.1	3.6	4.1	4.5	4.6
Rhode Island       0.7       1.5       2.3       3.1       3.9       4.7       5.0       5.3       5.1       5.4         South Carolina       0.6       1.2       1.8       2.2       2.7       3.4       3.9       4.4       4.9       5.8         South Dakota       1.4       2.5       3.8       4.9       6.0       7.1       8.4       9.1       9.4       9.7         Tennessee       1.7       2.0       2.6       3.3       3.9       4.8       5.4       5.7       5.9       5.8         Utah       0.4       1.0       1.5       1.8       2.2       2.6       3.1       3.7       4.5       5.7         Utah       1.6       1.9       1.9       3.2       4.1       5.7       6.0       7.0       8.5       7.1         Vermont       1.0       2.2       2.7       3.1       3.4       3.7       3.9       4.0       4.0       3.7         Virginia       0.5       0.9       1.4       1.9       2.3       2.8       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9       2.9	Pennsylvania	1.5	1.9	2.0	2.0	2.4	2.8	2.7	2.8	2.4	3.7
South Dakota         1.4         2.5         3.8         4.9         6.0         7.1         8.4         9.1         9.4         9.7           Tennessee         1.7         2.0         2.6         3.3         3.9         4.8         5.4         5.7         5.9         5.8           Texas         0.4         1.0         1.5         1.8         2.2         2.6         3.1         3.7         4.5         5.7           Utah         1.6         1.9         1.9         3.2         4.1         5.7         6.0         7.0         8.5         7.1           Vermont         1.0         2.2         2.7         3.1         3.4         3.7         3.9         4.0         4.0         3.7           Virginia         0.5         0.9         1.4         1.9         2.3         2.8         2.9											
South Dakota         1.4         2.5         3.8         4.9         6.0         7.1         8.4         9.1         9.4         9.7           Tennessee         1.7         2.0         2.6         3.3         3.9         4.8         5.4         5.7         5.9         5.8           Texas         0.4         1.0         1.5         1.8         2.2         2.6         3.1         3.7         4.5         5.7           Utah         1.6         1.9         1.9         3.2         4.1         5.7         6.0         7.0         8.5         7.1           Vermont         1.0         2.2         2.7         3.1         3.4         3.7         3.9         4.0         4.0         3.7           Virginia         0.5         0.9         1.4         1.9         2.3         2.8         2.9	South Carolina	0.6	12	1 8	22	27	3.4	30	4.4	49	5.8
Tennessee         1.7         2.0         2.6         3.3         3.9         4.8         5.4         5.7         5.9         5.8           Texas         0.4         1.0         1.5         1.8         2.2         2.6         3.1         3.7         4.5         5.7           Utah         1.6         1.9         1.9         3.2         4.1         5.7         6.0         7.0         8.5         7.1           Vermont         0.5         0.9         1.4         1.9         2.3         2.8         2.9											
Texas         0.4         1.0         1.5         1.8         2.2         2.6         3.1         3.7         4.5         5.7           Utah         1.6         1.9         1.9         3.2         4.1         5.7         6.0         7.0         8.5         7.1           Vermont         1.0         2.2         2.7         3.1         3.4         3.7         3.9         4.0         4.0         3.7           Virginia         0.5         0.9         1.4         1.9         2.3         2.8         2.9         2											
Utah         1.6         1.9         1.9         3.2         4.1         5.7         6.0         7.0         8.5         7.1           Vermont         1.0         2.2         2.7         3.1         3.4         3.7         3.9         4.0         4.0         3.7           Virginia         0.5         0.9         1.4         1.9         2.3         2.8         2.9         2.9         2.9         2.9           Washington         0.7         1.0         1.3         1.7         2.0         2.3         2.9         3.2         3.8         4.2           West Virginia         0.7         1.0         1.1         1.3         1.9         2.8         3.5         4.0         4.1         4.5           Wisconsin         0.7         1.0         1.1         1.3         1.5         1.7         2.0         2.3         2.7         2.7         2.7											
Vermont         1.0         2.2         2.7         3.1         3.4         3.7         3.9         4.0         4.0         3.7           Virginia         0.5         0.9         1.4         1.9         2.3         2.8         2.9         2.9         2.9         2.9         2.9         2.9         2.9         3.8         4.2           West Virginia         0.5         1.0         1.3         1.7         2.0         2.3         2.9         3.2         3.8         4.2           West Virginia         0.7         1.0         1.1         1.3         1.9         2.8         3.5         4.0         4.1         4.5           Wisconsin         0.7         1.1         1.3         1.5         1.7         2.0         2.3         2.7         2.7         2.7											
Virginia         0.5         0.9         1.4         1.9         2.3         2.8         2.9         2.9         2.9         2.9           Washington         0.5         1.0         1.3         1.7         2.0         2.3         2.9         3.2         3.8         4.2           West Virginia         0.7         1.0         1.1         1.3         1.9         2.8         3.5         4.0         4.1         4.5           Wisconsin         0.7         1.1         1.3         1.5         1.7         2.0         2.3         2.7         2.7         2.7											
Washington         0.5         1.0         1.3         1.7         2.0         2.3         2.9         3.2         3.8         4.2           West Virginia         0.7         1.0         1.1         1.3         1.9         2.8         3.5         4.0         4.1         4.5           Wisconsin         0.7         1.1         1.3         1.5         1.7         2.0         2.3         2.7         2.7         2.7											
West Virginia         0.7         1.0         1.1         1.3         1.9         2.8         3.5         4.0         4.1         4.5           Wisconsin         0.7         1.1         1.3         1.5         1.7         2.0         2.3         2.7         2.7         2.7											
Wisconsin         0.7         1.1         1.3         1.5         1.7         2.0         2.3         2.7         2.7											
wyoming 0.7 1.2 1.7 2.6 3.6 5.0 6.3 7.5 8.2 8.4											
	wyoming	0.7	1.2	1.7	2.6	3.6	5.0	6.3	7.5	8.2	8.4

NOTE: Mean absolute percentage error (MAPE) is the average value over past projections of the absolute values of errors expressed in percentage terms. National MAPEs for public 9-12 enrollments were calculated using the last 35 editions of *Projections of Education Statistics*, from *Projections of Education Statistics* to 1984–85 through *Projections of Education Statistics* to 2027. State MAPEs were calculated using the last 23 editions of *Projections of Education*  Statistics, from Projections of Education Statistics to 2005 through Projections of Education Statistics to 2027. Calculations were made using unrounded numbers. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Projections of Education Statistics*, various issues. (This table was prepared January 2019.)

## A.2. ELEMENTARY AND SECONDARY TEACHERS

#### **Projections in this edition**

This edition of *Projections of Education Statistics* presents projected trends in elementary and secondary teachers, pupil/ teacher ratios, and new teacher hires from 2017 to 2028. These projections were made using two models:

- » The *Elementary and Secondary Teacher Projection Model* was used to project the number of public school teachers, the number of private school teachers, and the total number of teachers for the nation. It was also used to project pupil/ teacher ratios for public schools, private schools, and all elementary and secondary schools.
- » The *New Teacher Hires Projection Model* was used to project the number of new teacher hires in public schools, private schools, and all schools.

#### **Overview of approach**

#### Approach for numbers of teachers and pupil/teacher ratios

**Public schools.** Multiple linear regression was used to produce initial projections of public school pupil/teacher ratios separately for elementary and secondary schools. The initial projections of elementary pupil/teacher ratios and secondary pupil/teacher ratios were applied to enrollment projections to project the numbers of elementary teachers and secondary teachers, which were summed to get the total number of public school teachers. Final projections of the overall public school pupil/teacher ratios were produced by dividing total projected public school enrollment by the total projected number of teachers.

#### Assumptions underlying this method

This method assumes that past relationships between the public school pupil/teacher ratio (the dependent variable) and the independent variables used in the regression analysis will continue throughout the forecast period. For more information about the independent variables, see "Elementary and Secondary Teacher Projection Model," later in this section of appendix A.

**Private schools.** Private school pupil/teacher ratios were projected by applying each year's projected annual percentage change in the overall public school pupil/teacher ratio to the previous year's private school pupil/teacher ratio. The projected private school pupil/teacher ratios were then applied to projected enrollments at private schools to produce projected numbers of private school teachers.

#### Assumptions underlying this method

This method assumes that the future pattern in the trend of private school pupil/teacher ratios will be the same as that for public school pupil/teacher ratios. The reader is cautioned that a number of factors could alter the assumption of consistent patterns of change in ratios over the forecast period.

#### Approach for new teacher hires

The following numbers were projected separately for public schools and for private schools:

- » The number of teachers needed to fill openings when there is an increase in the size of the teaching workforce from one year to the next and the decrease in the number of replacement teachers needed if there is a decrease in the size of the teaching workforce from one year to the next. This number was estimated based on continuation rates of teachers by their age.
- » The number of teachers needed to fill openings due to an increase in the size of the teaching workforce from one year to the *next*. This number was estimated by subtracting the projected number of teachers in one year from the projected number of teachers in the next year.

These two numbers were summed to yield the total number of "new teacher hires" for each control of school—that is, teachers who will be hired in a given year, but who did not teach in that control the previous year. A teacher who moves from one control to the other control (i.e., from a public to private school or from a private to a public school) is considered a new teacher hire, but a teacher who moves from one school to another school in the same control is not considered a new teacher hire.

#### **Elementary and Secondary Teacher Projection Model**

Projections for public schools were produced first. Projections for private schools were produced based partially on input from the public school projections. Finally, the public and private school projections were combined into total elementary and secondary school projections (not shown in the steps below).

#### Steps used to project numbers of teachers and pupil/teacher ratios

**Public school teachers.** The following steps were used for the public school projections:

**Step 1.** Produce projections of pupil/teacher ratios for public elementary schools and public secondary schools separately. Two separate log-log equations were used—one for elementary schools and one for secondary schools. The equation for secondary schools included an AR(1) term for correcting for autocorrelation. The following independent variables for each of the equations is as follows:

- » *Independent variables for public elementary school pupil/teacher ratios*—(1) average teacher wage relative to the overall economy-level wage, and (2) level of education revenue from state sources in constant dollars per public elementary student.
- » *Independent variables for public secondary school pupil/teacher ratios*—(1) level of education revenue from state sources in constant dollars per public secondary student, and (2) the number of students enrolled in public secondary schools relative to the secondary school–age population.

To estimate the model, each equation was first transformed into nonlinear log-log form and then the coefficients were estimated by applying Marquardt nonlinear least squares to the public secondary school pupil/teacher ratio equation and least squares estimation to the public elementary school pupil/teacher ratio equation.

For details on the equations, model statistics, and data used to project public school pupil/teacher ratios, see "Data and equations used for projections of teachers and pupil/teacher ratios," below.

**Step 2.** Produce projections of the number of teachers for public elementary schools and public secondary schools separately. The projections of the public elementary pupil/teacher ratio and public secondary pupil/teacher ratio were applied to projections of enrollments in elementary schools and secondary schools, respectively, to produce projections of public elementary teachers.

**Step 3.** Produce projections of the total number of teachers for public elementary and secondary schools combined. The projections of public elementary teachers and public secondary teachers were added together to produce the projections of the total number of public elementary and secondary teachers.

**Step 4.** Produce projections of the pupil/teacher ratio for public elementary and secondary schools combined. The projections of total enrollment in public elementary and secondary schools were divided by the projections of the total number of public elementary and secondary teachers to produce projections of the overall pupil/teacher ratio in public elementary and secondary schools.

Private school teachers. The following steps were used for the private school projections:

**Step 1.** Produce projections of the elementary and secondary private teachers to public teachers ratio. First, the historical ratio of elementary private teachers to elementary public teachers and secondary private school teachers to secondary public school teachers were generated through the last historical year for which both public and private data exist. Then, given the typical one-year lag in the private school data, the ratio of private teachers to public teachers for both elementary and secondary were calculated for the missing year of private data by setting the missing year equal to the last historical estimate. This method was applied throughout the forecast period such that the elementary and secondary private teachers ratio throughout the projections period equaled the last historical ratio—for the projections through 2028 that year was 2015.

*Step 2. Produce projections of the number of private school teachers.* The projected public teachers/private teachers ratios were applied to projected public school enrollments to produce projections of private school teachers from 2016 through 2028 for both elementary and secondary levels.

For information about the private school teacher and enrollment data used for the private school projections, see "Data and equations used for projections of teachers and pupil/teacher ratios," below.

#### Data and equations used for projections of teachers and pupil/teacher ratios

Public school data used in these projections were by organizational level (i.e., school level), not by grade level. Thus, secondary school enrollment is not the same as enrollment in grades 9 through 12 because many jurisdictions count some grade 7 and 8 enrollment as secondary. For example, some jurisdictions may have 6-year high schools with grades 7 through 12.

## **Data used to estimate the equation for public elementary school pupil/teacher ratios.** The following data were used to estimate the equation:

- » To compute the historical elementary school pupil/teacher ratios—Data on 1972–73 to 1980–81 enrollments in public elementary schools came from the NCES *Statistics of Public Elementary and Secondary Day Schools* and data on 1981–82 to 2016–17 enrollment came from the NCES Common Core of Data (CCD). The proportion of public school teachers who taught in elementary schools was taken from the National Education Association and then applied to the total number of public school teachers from the CCD to produce the number of teachers in elementary schools.
- » For 1973–74 and 1975–76, the education revenue from state sources data came from *Statistics of State School Systems*, published by NCES. For 1972–73, 1974–75, and 1976–77, the education revenue from state sources data came from *Revenues and Expenditures for Public Elementary and Secondary Education*, also published by NCES. For 1977–78 through 2015–16, these data came from the NCES Common Core of Data (CCD).

**Estimated equation and model statistics for public elementary school pupil/teacher ratios.** For the estimated equation and model statistics, see table A-10 on page 85. In the public elementary pupil/teacher ratio equation, the independent variables affect the dependent variable in the expected ways:

- » As the average teacher wage relative to the overall economy-level wage increases, the pupil/teacher ratio increases; and
- » As the level of education revenue from state sources in constant dollars per public elementary student increases, the pupil/teacher ratio decreases.

**Data used to project public elementary school pupil/teacher ratios.** The estimated equation was run using projected values for teacher salaries and education revenues from state sources from 2016–17 through 2028–29. For more information, see Section A.0. Introduction to Projection Methodology, earlier in this appendix and Section A.4. Expenditures for Public Elementary and Secondary Education later in this appendix.

**Data used to estimate the equation for public secondary school pupil/teacher ratios.** The following data were used to estimate the equation:

- » To compute the historical secondary school pupil/teacher ratios—Data on 1972–73 to 1980–81 enrollments in public elementary schools came from the NCES *Statistics of Public Elementary and Secondary Day Schools* and data on 1981–82 to 2016–17 enrollment came from the NCES Common Core of Data (CCD). The proportion of public school teachers who taught in secondary schools was taken from the National Education Association and then applied to the total number of public school teachers from the CCD to produce the number of teachers in secondary schools.
- » For 1973–74 and 1975–76, the education revenue from state sources data came from *Statistics of State School Systems*, published by NCES. For 1972–73, 1974–75, and 1976–77, the education revenue from state sources data came from *Revenues and Expenditures for Public Elementary and Secondary Education*, also published by NCES. For 1977–78 through 2015–16, these data came from the NCES Common Core of Data (CCD).
- » To compute the historical secondary school enrollment rate—Data on the secondary school-age population from 1972–73 to 2016–17 came from the U.S. Census Bureau. Data on enrollments in public secondary schools during the same period came from the CCD, as noted above.

**Estimated equation and model statistics for public secondary school pupil/teacher ratios.** For the estimated equation and model statistics, see table A-10 on page 85. In the public secondary pupil/teacher ratio equation, the independent variables affect the dependent variable in the expected way:

- » As enrollment rates (number of enrolled students relative to the school-age population) increase, the pupil/teacher ratio increases; and
- » As the level of education revenue from state sources in constant dollars per public secondary student increases, the pupil/teacher ratio decreases.

**Data used to project public secondary school pupil/teacher ratios.** The estimated equation was run using projections for education revenues, public secondary enrollments, and secondary school–age populations from 2016–17 through 2028–29. Secondary enrollment projections were derived from the enrollment projections described in Section A.1. Elementary and Secondary Enrollment. Population projections were from the Census Bureau's 2017 National Population Projections by age and sex (September 2018), ratio-adjusted to line up with the most recent historical estimates.

**Private school teacher and enrollment data.** Private school data for 1989–90, 1991–92, 1993–94, 1995–96, 1997–98, 1999–2000, 2001–02, 2003–04, 2005–06, 2007–08, 2009–10, 2011–12, 2013–14, and 2015–16 came from the biennial NCES Private School Universe Survey (PSS). Since the PSS is collected in the fall of odd-numbered years, data for years without a PSS collection were estimated using data from the PSS.

**Private school enrollment projections.** Private school enrollments from 2016 to 2028 came from the projections described in Section A.1. Elementary and Secondary Enrollment, earlier in this appendix.

#### Accuracy of projections of numbers of teachers

Mean absolute percentage errors (MAPEs) for projections of public school teachers were calculated using the last 28 editions of *Projections of Education Statistics* that included projections of teachers. Table C shows MAPEs for projections of the numbers of public school teachers. No mean absolute percentage errors (MAPEs) were calculated for private elementary and secondary teachers as this is the first edition of *Projections of Education Statistics* to use the new Private Elementary and Secondary Teachers Model. For information concerning the accuracy of the previous models used to produce projections of private elementary and secondary teachers, see page 91 of *Projections of Education Statistics to 2027*.

For more information about MAPEs, see Section A.0. Introduction to Projection Methodology, earlier in this appendix.

# Table C.Mean absolute percentage errors (MAPEs) of projections of number of public elementary and secondary school<br/>teachers, by lead time: MAPEs constructed using projections from Projections of Education Statistics to<br/>1997–98 through Projections of Education Statistics to 2027

	Lead time (years)											
Statistic	1	2	3	4	5	6	7	8	9	10		
Public elementary and secondary teachers	0.7	1.4	1.7	2.3	3.0	4.0	4.7	5.4	5.7	6.5		

NOTE: MAPEs for teachers were calculated from the past 28 editions of *Projections of Education Statistics*, from *Projections of Education Statistics to* 1997–98 through *Projections of Education Statistics to* 2027, excluding *Projections of Education Statistics to* 2012, which did not include projections of teachers. Calculations were made using unrounded numbers. Some data have been revised from previously published figures. Number of teachers reported in full-time equivalents.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Projections of Education Statistics*, various issues. (This table was prepared February 2019.)

### New Teacher Hires Projection Model

The New Teacher Hires Projection Model was estimated separately for public and private school teachers. The model produces projections of the number of teachers who were not teaching in the previous year, but who will be hired in a given year.

#### About new teacher hires

A teacher is considered to be a new teacher hire for a control of school (public or private) for a given year if the teacher teaches in that control that year but had not taught in that control in the previous year. Included among new teachers hires are: (1) teachers who are new to the profession; (2) teachers who had taught previously but had not been teaching the previous year; and (3) teachers who had been teaching in one control the previous year but have moved to the other control. Concerning the last category, if a teacher moves from one public school to a different public school, that teacher would not be counted as a new teacher hire for the purposes of this model. On the other hand, if a teacher moves from a public school to a private school, that teacher would be counted as a private school in the previous year.

The New Teacher Hires Projection Model measures the demand for teacher hires. Due to difficulties in defining and measuring the pool of potential teachers, no attempt was made to measure the supply of new teacher candidates.

#### Steps used to project numbers of new teacher hires

The steps outlined below provide a general summary of how the New Teacher Hires Projection Model was used to produce projections of the need for new teacher hires.

For more information about the New Teacher Hires Projection Model, see Hussar (1999).

First, the series of steps outlined below was used to produce projections of public school new teacher hires. Then, the same steps were used to produce projections of private school new hires. Finally, the public and private new teacher hires were combined to produce projections of total new teacher hires.

**Step 1.** Estimate the age distribution of full-time-equivalent (FTE) teachers in 2015 (2011 for private school teachers). For this estimate, the age distribution of the headcount of school teachers (including both full-time and part-time teachers) in 2015 (2011 for private school teachers) was applied to the national number of FTE teachers in the same year.

**Step 2.** Project the number of new FTE teacher hires needed to replace those who left teaching between 2015 and 2016 (between 2011 and 2012 for private school teachers).

- » Age-specific continuation rates for 2012 (due to data availability, 2008 continuation rates were used for private school new teacher hires) were applied to the FTE count of teachers by age for 2015 (2011 for private school teachers), resulting in estimates of the number of FTE teachers who remained in teaching in 2016 (2012 for private school teachers) by individual age.
- » The FTE teachers who remained in teaching by individual age were summed across all ages to produce a projection of the total number of FTE teachers who remained teaching in 2016 (2012 for private school teachers).
- » The total projection of remaining FTE teachers in 2016 (2012 for private school teachers) was subtracted from the total FTE teacher count for 2015 (2011 for private school teachers) to produce the projected number of FTE teachers who left teaching.

Step 3. Project the number of new FTE teacher hires needed due to the overall increase in the teacher workforce between 2015 and 2016 (2011 and 2012 for private school teachers). The total number of FTE teachers in 2015 (2011 for private school teachers) was subtracted from the total projected number of FTE teachers in 2016 (2012 for private school teachers) to project the overall increase in the teaching workforce between 2015 and 2016 (2011 and 2012 for private school teachers).

**Step 4.** Project the total number of new FTE teacher hires needed in 2016 (2012 for private school teachers). The number of FTE teachers who left teaching from step 2 was added to the projected net change in the number of FTE teachers from step 3 to project the total number of new FTE teacher hires needed in 2016 (2012 for private school teachers).

Step 5. Project the FTE count of teachers by age for 2016 (2012 for private school teachers). In this step

- » The age distribution for the headcount of newly hired teachers in 2015 (2011 for private school teachers) was applied to the projected total number of new FTE teacher hires in 2016 (2012 for private school teachers), resulting in the projected number of new FTE teacher hires by age.
- » For each individual age, the projected number of new FTE teacher hires was added to the projected number of remaining FTE teachers (from step 2, first bullet) to produce the projected FTE count of teachers by age for 2016 (2012 for private school teachers).

Step 6. Repeat steps 2 to 5 for each year from 2017 through 2028 (2013 through 2028 for private school teachers).

- » In step 2
  - For public school teachers ages 22 through 66 and private school teachers ages 21 through 65, projections of age-specific continuation rates were used. A separate smoothing constant, chosen to minimize the sum of squared forecast errors, was used to calculate the projected progression rate for each age. (For a general description of the exponential smoothing technique, see Section A.0. Introduction to Projection Methodology, earlier in this appendix.)
  - For all other ages, the age-specific continuation rates for 2012 for public school teachers and 2008 for private school teachers (the last year of actual data) were used.
- » In step 3, projections of the numbers of FTE teachers were used for all years in which there were no actual teacher numbers. The projections of FTE teachers are described under "Elementary and Secondary Teacher Projection Model," earlier in this section of appendix A.

#### Assumptions underlying this method

A number of assumptions are made in order to make these projections. They include that (1) the age distribution of FTE teachers in 2015 (2011 for private school teachers) was similar to that of full-time and part-time teachers in that year (step 1); (2) the age-specific continuation rates for FTE teachers for each year from 2016 through 2028 (2012 through 2028 for private school teachers) are similar to either the projections produced using single exponential smoothing or the values for 2012 (2008 for private school teachers), depending on the age of the teachers (step 2); (3) the age distribution for newly hired FTE teachers from 2016 through 2028 (2012 through 2028 for private school teachers) is similar to that of newly hired full-time and part-time teachers in 2015 (2011 for private school teachers) is similar to that of FTE teachers for each year from 2016 through 2028 (2012 through 2028 for private school teachers) is similar to that of newly hired full-time and part-time teachers in 2015 (2011 for private school teachers) is similar to that of FTE teachers for each year from 2016 through 2028 (2012 through 2028 for private school teachers) are similar to projections of FTE teachers for each year from 2016 through 2028 (2012 through 2028 for private school teachers) are similar to that of newly hired full-time and part-time teachers in 2015 (2011 for private school teachers) (step 3); (4) the actual numbers of FTE teachers for each year from 2016 through 2028 (2012 through 2028 for private school teachers) are similar to projections of FTE teachers shown in table 8 on page 44; and (5) no economic or political changes further affect the size of the teaching force.

#### Data used for projections of new teacher hires

**Data on numbers of public school teachers.** The number of FTE teachers for 2015 came from the NCES Common Core of Data (CCD).

**Data on numbers of private school teachers.** Private school data on the numbers of FTE teachers in 2003–04, 2005–06, 2007–08, 2009–10, 2011–12, 2013–14, and 2015–16 came from the biennial NCES Private School Universe Survey (PSS). Since the PSS is collected in the fall of odd-numbered years, data for years without a PSS collection were estimated using data from the PSS.

**Data on the age distribution of public and private school teachers.** Data on the age distribution of full-time and parttime public school teachers came from the National Teacher and Principal Survey (NTPS), 2015–16 and that of private school teachers came from the 2011–12 NCES Schools and Staffing Survey (SASS). These data and their standard errors are shown in table A-11 on page 85.

**Data on the age distribution of public and private new teacher hires.** Data on the age distribution of newly hired fulltime and part-time public school teachers came from the National Teacher and Principal Survey (NTPS), 2015–16 and that of private school teachers came from the 2011–12 NCES Schools and Staffing Survey (SASS). These data and their standard errors are shown in table A-12 on page 85.

**Data on and projections of age-specific continuation rates of public and private school teachers.** The 2008 continuation rates came from the 2008–09 NCES Teacher Follow-Up Survey (TFS) and the 2012 continuation rates came from the 2012–13 TFS. Data from the 1994–95, 2000–01, and 2004–05 TFS were also used in the projection of age-specific continuation rates. The actual data, their standard errors, and the projections are shown in table A-13 on page 86.

**Projections of the numbers of public and private elementary and secondary school teachers.** These projections are described under "Elementary and Secondary Teacher Projection Model," earlier in this section of appendix A.

#### Accuracy of projections of new teacher hires

No MAPEs are presented for new teacher hires as there has only been three additional years of historical data for this statistic since it was first included in *Projections of Education Statistics to 2018*.

#### Table A-10. Estimated equations and model statistics for public elementary and secondary teachers based on data from 1972 through 2016

Dependent variable					Equation <sup>1</sup>	₽²	Breusch- Serial Cor LM test s	rrelation	
1					2	3		4	5
Elementary	In(RELENRTCH) =	3.9 - (41.712)	+ 0.06ln(RSALARY) - (4.953)	0.24In(RSGRNTELENR) (-11.699)		0.99	6.60	(0.037)	1972 to 2016
Secondary	In(RSCENRTCH) =	4.06 - (16.998)	- 0.18ln(RSGRNTSCENR) + (-4.213)	0.77In(RSCENRPU) + (5.093)	.83 AR(1) (8.193)	0.98	1.02	(0.601)	1973 to 2016

<sup>1</sup>AR(1) indicates that the model was estimated using least squares with the AR(1) process for correcting for first-order autocorrelation. To estimate the model, it was first transformed into a nonlinear model and then the coefficients were estimated simultaneously by applying a Marquardt nonlinear least squares algorithm to the transformed equation. For a general discussion of the problem of autocorrelation, and the method used to forecast in the presence of autocorrelation, see G. Judge, W. Hill, R. Griffiths, H. Lutkepohl, and Lee, T. *The Theory and Practice of Econometrics*. New York: John Wiley and Sons, 1985, pp. 315–318. Numbers in parentheses are *t*-statistics. <sup>2</sup>The number in parentheses is the probability of the Chi-Square associated with the Breusch-

<sup>4</sup>The number in parentheses is the probability of the Chi-Square associated with the Breusch-Godfrey Serial Correlation LM Test. A *p* value greater that 0.05 implies that we do not reject the null hypothesis of no autocorrelation at the 5 percent significance level for a two-tailed test and 10 percent significance level for a one-tailed test, i.e., there is no autocorrelation present. For an explanation of the Breusch-Godfrey Serial Correlation LM test statistic, see Greene, W. (2000). *Econometric Analysis*. New Jersey: Prentice-Hall. NOTE: *P*<sup>2</sup> indicates the coefficient of determination. RELENRTCH = Ratio of public elementary school enrollment to classroom teachers (i.e., pupil/ teacher ratio).

RSCENRTCH = Ratio of public secondary school enrollment to classroom teachers (i.e., pupil/ teacher ratio).

RSALARY = Áverage annual teacher salary relative to the overall economy wage in 2000 dollars. RSGRNTELENR = Ratio of education revenue receipts from state sources per capita to public elementary school enrollment in 2000 dollars.

RSGRNTŚCENR = Ratio of education revenue receipts from state sources per capita to public secondary school enrollment in 2000 dollars.

RSCENRPU = Ln of the ratio of enrollment in public secondary schools to the 11- to 18-yearold population.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Elementary and Secondary Teacher Projection Model, 1972 through 2028. (This table was prepared March 2019.)

## Table A-11. Percentage distribution of full-time and part-time school teachers, by age, control of school, and teaching status: School years 2011–12 and 2015–16

									Age	distributio	n						
Control of school and teaching status	Percent	of total	Total		ess than 5 years	25–2	9 years	30-3	9 years	40-4	9 years	50–5	9 years	60-6	4 years	65 years	or more
1		2	3		4		5		6		7		8		9		10
Public actual, 2015–16 Full-time Part-time	<b>100.0</b> 93.2 6.8	(0.17) (0.17)	<b>100.0</b> 100.0 100.0	<b>3.2</b> 3.2 2.1	<b>(0.10)</b> (0.10) (0.30)	<b>11.8</b> 12.0 9.1	<b>(0.20)</b> (0.22) (0.69)	<b>28.5</b> 28.7 25.2	<b>(0.28)</b> (0.30) (0.98)	<b>27.4</b> 27.5 27.1	(0.29) (0.30) (1.04)	<b>21.5</b> 21.4 23.6	(0.23) (0.25) (1.00)	<b>5.8</b> 5.6 8.9	<b>(0.15)</b> (0.15) (0.64)	<b>1.8</b> 1.6 4.1	(0.08) (0.08) (0.46)
Private actual, 2011–12 Full-time Part-time	<b>100.0</b> 79.4 20.6	(†) (2.04) (2.04)	<b>100.0</b> 100.0 100.0	<b>4.6</b> 4.7 4.0	(1.35) (1.30) (1.90)	<b>12.2</b> 12.5 10.9	<b>(1.26)</b> (1.25) (3.14)	<b>24.0</b> 25.6 18.2	<b>(1.58)</b> (1.82) (4.31)	<b>23.8</b> 23.8 23.5	<b>(1.57)</b> (1.75) (3.39)	<b>21.3</b> 21.1 22.2	<b>(1.57)</b> (1.66) (3.15)	<b>9.6</b> 9.0 11.8	<b>(0.97)</b> (1.07) (3.09)	<b>4.6</b> 3.3 9.4	<b>(0.93)</b> (0.94) (2.60)

†Not applicable

NOTE: Detail may not sum to totals because of rounding. Standard errors appear in parentheses. The 2011–12 data are the most recent data available for teachers at private schools.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Private School Teacher Questionnaire," 2011–12; National Teacher and Principal Survey (NTPS), "Public School Teacher Data File," 2015–16; and unpublished tabulations. (This table was prepared April 2018.)

## Table A-12. Percentage distribution of full-time and part-time newly hired teachers, by age and control of school: Selected school years, 1987–88 through 2015–16

Control of school and							A	ge distributio	n						
school year	Total	Less than	25 years	25–2	29 years	30–3	39 years	40-4	49 years	50-	59 years	60-	64 years	65 year	rs or more
1	2		3		4		5		6		7		8		9
Public           1987–88           1990–91           1993–94           1999–2000           2003–04           2007–08           2011–12           2015–16	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	17.7 17.5 16.2 23.6 24.4 23.8 21.9 23.9	(0.79) (1.06) (0.91) (1.28) (1.21) (1.75) (2.46) (1.20)	23.7 24.0 28.7 22.5 19.0 24.3 23.0 22.0	(1.19) (1.35) (1.15) (0.97) (1.23) (1.79) (2.93) (1.23)	33.0 30.6 24.9 22.2 24.6 20.4 24.1 23.7	(1.43) (1.33) (1.04) (1.10) (1.10) (1.56) (2.79) (1.23)	21.2 21.4 24.6 19.2 16.5 15.1 15.9 17.3	(0.80) (1.28) (1.16) (0.90) (1.18) (0.94) (2.79) (1.07)	4.0 5.6 5.0 11.1 13.3 13.6 10.9 9.2	(0.51) (0.65) (0.63) (0.88) (0.93) (1.22) (2.58) (0.77)	0.3! 0.6 0.5 0.9 1.5 2.3 3.5! 2.9	(0.11) (0.18) (0.13) (0.23) (0.29) (0.39) (1.35) (0.39)	‡ 0.2! 0.6! 0.7! 0.5! ‡ 1.0	(†) (0.09) (0.26) (0.29) (0.22) (†) (0.23)
2015-16           Private           1987-88           1990-91           1993-94           1999-2000           2003-04           2007-08           2011-12	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	17.0 15.8 19.3 18.5 17.1 14.3 14.9!	(1.27) (1.47) (1.13) (0.89) (1.59) (1.26) (5.78)	22.8 26.3 24.4 17.2 16.0 18.2 20.7	(1.23) (1.68) (1.83) (1.19) (0.87) (2.13) (1.36) (4.29)	32.5 29.1 24.9 24.1 23.0 23.2 27.5	(1.23) (2.17) (1.86) (1.49) (1.24) (2.19) (1.97) (4.62)	17.9 21.1 22.6 22.1 22.8 23.6 17.4	(1.07) (1.61) (1.67) (1.18) (1.19) (3.32) (1.92) (4.74)	5.3 5.6 7.3 14.0 15.3 14.4 10.8	(0.77) (0.88) (0.85) (1.01) (1.77) (1.49) (2.51)	2.9 ‡ 1.1! 0.9 2.6 3.6 4.2 5.3!	(0.39) (1) (0.40) (0.20) (0.39) (0.83) (0.84) (2.32)	1.8! 1.0! 0.6! 1.5 2.1 2.1! ‡	(0.23) (0.77) (0.42) (0.23) (0.38) (0.58) (0.69) (†)

†Not applicable.

Interpret with caution. The coefficient of variation (CV) for this estimate is 30 percent or greater. ‡Reporting standards not met. The coefficient of variation (CV) for this estimate is 50 percent or greater.

NOTE: Detail may not sum to totals because of rounding. Standard errors appear in parentheses. The 2011–12 data are the most recent data available for teachers at private schools. SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Questionnaire," 1987–88 through 2011–12 and "Private School Teacher Questionnaire," 1987–88 through 2011–12; and National Teacher and Principal Survey (NTPS), "Public School Teacher Data File," 2015–16. (This table was prepared April 2018.)

## Table A-13. Actual and projected continuation rates of full-time and part-time school teachers, by age and control of school: Selected school years, 1993–94 to 1994–95 through 2028–29 to 2029–30

Control of school and							Со	ntinuatior	ı rates, by aç	ge						
school year		Total	Less than 2	25 years	25–2	29 years	30–3	39 years	40-4	19 years	50-5	59 years	60-	-64 years	65 years	or more
1		2		3		4		5		6		7		8		9
Public actual           1993–94 to 1994–95           1999–2000 to 2000–01           2003–04 to 2004–05           2007–08 to 2008–09           2011–12 to 2012–13	93.4 92.4 91.4 91.8 92.1	(0.36) (0.38) (0.55) (0.45) (0.65)	96.2 95.8 94.9 92.2 83.1	(1.09) (0.98) (1.79) (1.95) (9.79)	90.0 89.3 90.1 89.0 92.3	(1.22) (7.38) (1.71) (2.33) (1.39)	93.3 93.2 92.6 92.4 94.2	(1.03) (2.76) (0.93) (1.29) (1.14)	96.1 94.5 94.5 95.1 96.7	(0.54) (0.61) (0.78) (1.06) (0.53)	93.7 92.9 90.8 92.3 90.2	(0.77) (4.58) (0.81) (1.23) (1.38)	69.5 76.8! 77.2 82.8 81.9	(4.79) (29.18) (3.00) (3.97) (3.11)	65.9 (‡) 70.3 88.9 70.2	(8.81) (†) (9.40) (4.26) (12.44)
Public projected           2012-13 to 2013-14           2013-14 to 2014-15           2014-15 to 2015-16           2015-16 to 2016-17           2016-17 to 2017-18           2017-18 to 2018-19           2019-20 to 2020-21           2020-21 to 2021-22           2021-22 to 2022-22           2022-23 to 2023-24           2022-24 to 2022-24           2022-24 to 2022-24           2022-25 to 2025-26           2022-26 to 2022-26           2022-27 to 2027-28           2022-27 to 2027-28           2022-27 to 2027-28           2022-27 to 2027-28           2022-28 to 2028-29           2022-29 to 2028-29	92.3 92.2 92.4 92.5 92.4 92.5 92.5 92.4 92.4 92.4 92.4 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5	£££££££££££££££££	90.1 89.9 90.0 90.1 89.8 90.0 89.9 89.9 90.0 89.9 89.9 89.9		91.8 91.8 91.8 91.7 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8		94.0 93.9 93.9 94.0 94.0 93.9 93.9 93.9 93.9 93.9 93.9 93.9 93	+++++++++++++++++++++++++++++++++++++++	96.7 96.8 96.8 96.7 96.7 96.6 96.6 96.6 96.7 96.7 96.7		90.3 90.2 90.3 90.3 90.3 90.3 90.3 90.4 90.4 90.5 90.5 90.5 90.4 90.4 90.4 90.4	+++++++++++++++++++++++++++++++++++++++	81.4 81.7 81.5 81.7 81.6 81.7 81.5 81.8 81.5 81.5 81.5 81.7 81.5 81.7 81.5 81.7 81.5	ţţţţţţ	69.6 69.8 68.6 69.5 70.5 71.6 71.8 71.7 71.1 70.2 71.0 71.6 71.7 71.2 71.4 71.3 71.3	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Private actual 1993–94 to 1994–95 1999–2000 to 2000–01 2003–04 to 2004–05 2007–08 to 2008–09	88.1 83.0 83.3 82.2	(0.74) (0.72) (2.06) (1.69)	80.0 61.7 75.4 77.7	(4.42) (4.90) (5.97) (8.33)	86.9 72.2 71.7 71.7	(1.64) (2.76) (3.62) (6.44)	85.1 80.2 82.2 79.1	(1.70) (1.57) (2.30) (3.43)	91.3 86.1 86.8 86.1	(1.14) (1.47) (2.28) (2.92)	91.8 92.3 89.2 86.8	(1.52) (1.00) (9.17) (2.17)	86.9 78.8 80.1 85.2	(2.74) (4.79) (4.15) (4.21)	58.1 75.2 79.5 77.3	(8.67) (5.17) (6.07) (8.23)
Private projected 2012–13 to 2013–14 2013–14 to 2014–15 2014–15 to 2015–16 2015–16 to 2016–17 2016–17 to 2017–18 2017–18 to 2018–19 2018–19 to 2019–20 2020–21 to 2020–21 2020–21 to 2020–21 2020–21 to 2021–22 2022–23 to 2023–24 2023–24 to 2024–25 2024–25 to 2025–26 2025–26 to 2025–26 2025–26 to 2025–26 2025–26 to 2025–28 2027–28 to 2028–29 2028–29 to 2029–30	81.5 81.2 81.1 81.2 81.1 81.2 81.2 81.2 81.2	£££££££££££££££££	69.1 68.7 69.2 69.2 69.4 69.3 69.2 69.2 69.2 69.2 69.2 69.2 69.2 69.2	$\underbrace{\begin{array}{c} + + + + + + + + + + + + + + + + + + +$	73.2 73.3 73.3 73.1 73.2 73.2 73.2 73.2 73.3 73.3 73.3 73.3	(+)+++++++++++++++++++++++++++++++++++	80.2 80.2 80.1 80.1 80.1 80.1 80.1 80.2 80.2 80.2 80.2 80.2 80.2 80.2 80.2	(+)+++++++++++++++++++++++++++++++++++	86.0 86.1 86.2 85.8 85.9 85.9 85.9 85.9 85.9 85.9 85.9	(†) (†) (†) (†) (†) (†) (†) (†) (†) (†)	88.1 87.6 87.6 87.9 87.7 87.6 87.7 87.6 87.7 87.7 87.7 87.7	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	80.0 79.9 79.4 80.0 80.3 79.5 79.9 79.8 79.7 80.0 80.1 79.7 80.0 79.7 80.0 79.9 79.7	$\begin{array}{c} (\uparrow) (\uparrow) (\uparrow) (\uparrow) (\uparrow) (\uparrow) (\uparrow) (\uparrow) (\uparrow) (\uparrow)$	75.9 75.4 77.7 76.8 76.2 77.1 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2	

†Not applicable.

Interpret with caution. The coefficient of variation (CV) for this estimate is 30 percent or greater.

<sup>‡</sup>Reporting standards not met. The coefficient of variation (CV) for this estimate is 50 percent or greater. NOTE: The continuation rate for teachers for each control of school (public schools and

NOTE: The continuation rate for teachers for each control of school (public schools and private schools) is the percentage of teachers in that control who continued teaching in the same control from one year to the next. Standard errors appear in parentheses. The 2012–13 data are the most recent data available for public school teachers and the 2008-09 data are the most recent data available for private school teachers. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow up Survey (TFS), "Public School Teacher Questionnaire," 1994–95 through 2008–09 and "Private School Teacher Questionnaire," 1994–95 through 2012–13; and unpublished tabulations. (This table was prepared May 2019.)

## A.3. HIGH SCHOOL GRADUATES

### **Projections in this edition**

This edition of *Projections of Education Statistics* presents projected trends in the number of high school graduates from 2013–14 to 2028–29. These projections were made using three models:

- » The *National High School Graduates Projection Model* was used to project the number of public high school graduates, the number of private high school graduates, and the total number of high school graduates for the nation.
- » The *State Public High School Graduates Projection Model* was used to project the number of public high school graduates for individual states and regions.
- » The *National Public High School Graduates by Race/Ethnicity Projection Model* was used to project the number of public high school graduates for the nation by race/ethnicity.

#### **Overview of approach**

All the high school graduates models first calculated the number of high school graduates as a percentage of grade 12 enrollment based on historical data. Single exponential smoothing was used to project this percentage. The projected percentage was then applied to projections of grade 12 enrollment.

#### Assumptions underlying this approach

The percentage of 12th-graders who graduate was assumed to remain constant at levels consistent with the most recent rates. This methodology assumes that past trends in factors affecting graduation rates, such as dropouts, migration, and public or private transfers, will continue over the forecast period. No specific assumptions were made regarding the dropout rate, retention rate, or the rate at which alternative credentials are awarded. The combined effect of these proportions is reflected implicitly in the graduate proportion. In addition to student behaviors, the projected number of graduates could be affected by changes in graduation requirements, but this is not considered in the projections in this report.

### Procedures used in all three high school graduates projection models

The following steps were used to project the numbers of high school graduates:

**Step 1.** For each year in the historic period, express the number of high school graduates as a percentage of grade 12 enrollment. This value represents the approximate percentage of 12th graders who graduate. For information about the specific historical data and analysis periods used for the National High School Graduates Model, the State Public High School Graduates Model, and the National Public High School Graduates by Race/Ethnicity Model, see the description of the appropriate model, later in this section of appendix A.

**Step 2.** Project the percentage of 12th-graders who graduate from step 1. This percentage was projected using single exponential smoothing with a smoothing constant chosen to minimize the sum of squared forecast errors. Because single exponential smoothing produces a single forecast for all years in the forecast period, the same projected percentage of grade 12 enrollment was used for each year in the forecast period.

*Step 3. Calculate projections of the numbers of high school graduates.* For each year in the forecast period, the projected percentage from step 2 was applied to projections of grade 12 enrollment to yield projections of high school graduates.

### **National High School Graduates Projection Model**

This model was used to project the number of public high school graduates, the number of private high school graduates, and the total number of high school graduates for the nation. Public and private high school graduates were projected separately. The public and private projections were then summed to yield projections of the total number of high school graduates for the nation.

For details of the procedures used to develop the projections, see "Procedures used in all three high school graduates projection models," above.

#### Data used in the National High School Graduates Projection Model

**Public school data on graduates and grade 12 enrollment.** Data on public school high school graduates and 12th-grade enrollments from the NCES *Statistics of Public Elementary and Secondary School Systems* for 1972–73 to 1980–81 and the NCES Common Core of Data (CCD) for 1981–82 through 2005–06 were used to develop national projections of public high school. Also, for 2006–07 through 2012–13 data on high school graduates from the "State Dropout and Completion Data File" were used. Finally, for 2006–07 through 2016–17, data on public school 12th-grade enrollments from the CCD were also used.

**Private school data on graduates and grade 12 enrollment.** Data on private school 12th-grade enrollments for 1989–90 through 2015–16 and high school graduates for 1988–89 through 2014–15 were used to develop national projections of private high school graduates. The data were from the biennial NCES Private School Universe Survey (PSS) from 1989–90 to 2015–16 with data for 12th grade enrollment the same as the year of the survey and the data for high school graduates for the preceding year (i.e., the 2015–16 PSS presents high school graduates for 2014–15). Since the PSS is collected in the fall of odd-numbered years, data for missing years were estimated using data from the PSS. For 12th grade enrollment, estimates for missing years were linear interpolations of the prior year's and succeeding year's actual values. For high school graduates to estimated 12th grade enrollment percentages for the prior and succeeding years multiplied by the estimated enrollments for the current year.

**Public and private school enrollment projections for grade 12.** Projections of grade 12 enrollment in public schools and in private schools were used to develop projections of public high school graduates and private high school graduates, respectively. The grade 12 enrollment projections were made using the grade progression method. For more information, see Section A.1. Elementary and Secondary Enrollment, earlier in this appendix.

#### Accuracy of national high school graduates projections

Mean absolute percentage errors (MAPEs) for projections of graduates from public high schools were calculated using the last 28 editions of *Projections of Education Statistics*, while MAPEs for projections of graduates from private high schools were calculated using the last 17 editions. Table D, below, shows MAPEs for both public and private school graduation projections.

# Table D. Mean absolute percentage errors (MAPEs) of projections of high school graduates, by lead time and control of school: MAPEs constructed using projections from Projections of Education Statistics to 2000 through Projections of Education Statistics to 2027

	Lead time (years)											
Statistic	1	2	3	4	5	6	7	8	9	10		
Public high school graduates	1.0	1.1	1.8	2.2	2.5	2.9	3.5	4.2	4.8	5.1		
Private high school graduates	3.0	2.5	5.4	5.3	4.9	7.4	6.8	6.4	6.9	7.7		

NOTE: MAPEs for public high school graduates were calculated from the past 28 editions of *Projections of Education Statistics*, from *Projections of Education Statistics to 2027*. MAPEs for private high school graduates were calculated from the past 17 editions of *Projections of Education Statistics*, from *Projections of Education Statistic to 2017*. MAPEs for private high school graduates were calculated from the past 17 editions of *Projections of Education Statistics*, from *Projections of Education Statistic to 2017*. Calculations were made using unrounded numbers. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Projections of Education Statistics, various issues. (This table was prepared February 2019.)

For more information about MAPEs, see Section A.O. Introduction to Projection Methodology, earlier in appendix A.

### State Public High School Graduates Projection Model

This edition of *Projections of Education Statistics* contains projections of public high school graduates from 2013–14 to 2028–29 for each of the 50 states and the District of Columbia, as well as for each region of the country. The state projections of high school graduates were produced in two stages:

- » first, an initial set of projections for each state was produced; and
- » second, these initial projections were adjusted to sum to the national public school totals produced by the National High School Graduates Projection Model.

For each region, the high school graduate projections equaled the sum of high school graduate projections for the states within that region.

#### Initial set of state projections

The same steps used to produce the national projections of high school graduates were used to produce an initial set of projections for each state and the District of Columbia. A separate smoothing constant, chosen to minimize the sum of squared forecast errors, was used to calculate the projected percentage of 12th grade enrollment for each jurisdiction.

For details on the steps used to develop the initial sets of projections, see "Procedures used in all three high school graduate projection models," earlier in this section of appendix A.

#### Adjustments to the state projections

The initial projections of state public high school graduates were adjusted to sum to the national projections of public high school graduates shown in table 9 on page 45. This was done through the use of ratio adjustments in which all the states' high school graduate projections were multiplied by the ratio of the national public high school graduate projection to the sum of the state public high school graduate projections.

#### Data used in the State Public High School Graduates Projection Model

**Public school data on graduates and grade 12 enrollment at the state level.** State-level data on public school high school graduates from the NCES *Statistics of Public Elementary and Secondary School Systems* for 1972–73 to 1980–81, the NCES Common Core of Data (CCD) for 1981–82 through 2004–05, and the "State Dropout and Completion Data File" for 2005–06 through 2012–13 were used to develop state-level projections of public high school graduates. State-level data on public school 12th-grade enrollments from the NCES *Statistics of Public Elementary and Secondary School Systems* for 1972–73 to 1980–81 and the NCES Common Core of Data (CCD) for 1981–82 through 2012–17 were also used.

**Public school projections for grade 12 enrollment at the state level.** State-level projections of grade 12 enrollment in public schools were used to develop the state-level projections of public high school graduates. The grade 12 enrollment projections were made using the grade progression method. For more information, see Section A.1. Elementary and Secondary Enrollment, earlier in this appendix.

#### Accuracy of state public high school graduate projections

Mean absolute percentage errors (MAPEs) for projections of the number of public high school graduates by state were calculated using the last 23 editions of *Projections of Education Statistics*. Table A-14 on page 91 shows MAPEs for the number of high school graduates by state.

### National Public High School Graduates by Race/Ethnicity Projection Model

The projections of public high school graduates by race/ethnicity were produced in two stages:

- » first, an initial set of projections for each racial/ethnic group was produced; and
- » second, these initial projections were adjusted to sum to the national public school totals produced by the National High School Graduates Projection Model.

#### Initial set of projections by race/ethnicity

The same steps used to produce the national projections of high school graduates were used to produce an initial set of projections for each of the following five racial/ethnic groups: White, Black, Hispanic, Asian/Pacific Islander, and American Indian/Alaska Native. For example, the number of White public high school graduates was projected as a percentage of White grade 12 enrollment in public schools. A separate smoothing constant, chosen to minimize the sum of squared forecast errors, was used to calculate the projected percentage of 12th-grade enrollment for each racial/ethnic group. This is the sixth edition of *Projections of Education Statistics* to include projections for high school graduates of Two or more races. To produce an initial set of projections for this racial/ethnic group, the 2012–13 ratio of 12th-grade enrollment to high school graduates of the group were multiplied by the 12th-grade enrollment projections of the group from the data file used to produce table 6.

#### Adjustments to the projections by race/ethnicity

The projections of public high school graduates by race/ethnicity were adjusted to sum to the national projections of public high school graduates shown in table 9 on page 45. This was done through the use of ratio adjustments in which all high school graduate projections by race/ethnicity were multiplied by the ratio of the national high school graduate projections by race/ethnicity.

#### Data and imputations used in the Public High School Graduates by Race/Ethnicity Projection Model

**Public school data on graduates and grade 12 enrollment by race/ethnicity.** Data on public school high school graduates by race/ethnicity from the NCES Common Core of Data (CCD) for 1994–95 through 2004–05, and the "State Dropout and Completion Data File" for 2005–06 through 2012–13 were used to develop projections of public high school graduates by race/ethnicity. Data on public school 12th-grade enrollments by race/ethnicity from the NCES *Statistics of Public Elementary and Secondary School Systems* for 1972–73 to 1980–81 and the NCES Common Core of Data (CCD) for 1981–82 through 2016–17 were also used. In those instances where states did not report their high school graduate data by race/ethnicity, the state-level data had to be examined and some imputations made. For example, in 1994, Arizona did not report high school graduate data by race/ethnicity. It did, however, report grade 12 enrollment numbers by race/ethnicity for that year. So, to impute the high school graduate numbers by race/ethnicity for that year, Arizona's total number of high school graduates for 1994 was multiplied by the state's 1994 racial/ethnic distribution for grade 12 enrollment.

**Public enrollment projections for grade 12 by race/ethnicity.** Projections of grade 12 enrollment in public schools by race/ethnicity were used to develop the projections of public high school graduates by race/ethnicity. The grade 12 enrollment projections were made using the grade progression method. For more information, see Section A.1. Elementary and Secondary Enrollment, earlier in this appendix.

#### Accuracy of enrollment projections by race/ethnicity

Mean absolute percentage errors (MAPEs) for projections of the number of public high school graduates by race/ethnicity were calculated using the last nine editions of *Projections of Education Statistic*. Table E, below, shows MAPEs for public high school graduates by race/ethnicity projections.

	Lead time (years)												
Statistic	1	2	3	4	5	6	7	8	9	10			
Total high school graduates	1.0	1.1	1.8	2.2	2.5	2.9	3.5	4.2	4.8	5.1			
White	1.0	0.5	0.8	1.3	2.5	3.5	_	_	_	_			
Black	2.3	3.0	3.5	5.8	7.1	9.3	_	_	_	_			
Hispanic	3.6	4.5	6.6	13.2	16.9	16.2	_	_	_	_			
Asian/Pacific Islander	1.5	2.6	2.7	1.6	2.2	0.3	_	_	_	_			
American Indian/Alaska Native	1.9	1.8	3.7	6.9	8.8	7.8	_	—	_	_			

 Table E.
 Mean absolute percentage errors (MAPEs) of projections of public high school graduates, by lead time and race/ethnicity: MAPEs constructed using projections from *Projections of Education Statistics to 2000* through *Projections of Education Statistics to 2027*

-Not available.

NOTE: MAPEs for public high school graduates were calculated from the past 28 editions of *Projections of Education Statistics*, from *Projections of Education Statistics* to 2000 through *Projections of Education Statistics to 2027*. MAPEs for public high school graduates by race/ethnicity were calculated using the last nine editions of *Projections of Education Statistics*, from *Projections of Education Statistics* to 2019 through *Projections of Education Statistics*, from *Projections of Education Statistics* to 2019 through *Projections of Education Statistics* to 2027. Calculations were made using unrounded numbers. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, *Projections of Education Statistics*, various issues. (This table was prepared January 2019.)

# Table A-14. Mean absolute percentage errors (MAPEs) for the projected number of high school graduates in public schools, by lead time, region, and state: MAPEs constructed using projections from *Projections of Education Statistics to 2000* through *Projections of Education Statistics to 2027*

					Lead tin	ne (years)				
Region and state	1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10	11
United States	1.0	1.1	1.8	2.2	2.5	2.9	3.5	4.2	4.8	5.1
Region										
Northeast	1.1	1.6	1.7	2.3	3.0		3.7	4.4	5.2	5.6
Midwest	1.1	0.9	1.5	1.8	2.4		2.8	3.0	3.3	3.3
South	1.1	1.5 2.0	2.5 2.6	3.1 3.7	3.7 3.5		5.0 3.0	6.0 2.7	6.9 3.4	7.9 3.4
State										
Alabama	3.1	3.1	2.8	5.1	6.1	7.3	8.2	8.5	9.5	10.3
Alaska	2.5	2.1	3.0	4.6	5.2		7.5	7.8	7.8	7.6
Arizona	7.6	8.0	10.0	12.6	11.4	11.6	13.8	11.6	10.5	12.5
Arkansas	1.3	1.6	2.0	2.5	2.9		2.3	2.8	3.1	3.9
California	2.4	2.5	3.3	4.6	5.0	5.2	5.2	4.4	5.1	5.0
Colorado	1.6	2.2	2.6	2.2	2.8		3.1	3.9	4.6	4.7
Connecticut	2.6	2.3	2.5	3.3	3.6		4.6	4.4	5.6	5.0
Delaware	1.9	2.5	3.2	4.6	3.9		5.0	6.0	6.7	7.6
District of Columbia	6.7	7.4	11.6	14.0	14.1	14.8	15.9	17.2	17.9	20.5
Florida	1.9	3.9	5.2	4.6	5.1	5.0	6.0	6.6	8.1	7.2
Georgia	1.9	2.7	3.5	5.5	7.4	8.4	9.1	9.4	10.2	10.1
Hawaii	3.3	3.8	4.4	5.4	8.2	8.9	10.9	11.8	13.4	14.5
ldaho	1.0	1.3	1.4	1.9	2.2	2.7	3.0	3.8	4.9	5.4
Illinois	2.5	2.1	2.9	3.6	3.8	3.7	5.4	4.4	5.1	6.5
Indiana	1.4	1.8	1.8	2.3	2.7	3.2	3.9	4.3	4.7	5.0
lowa	1.4	1.2	1.9	2.0	2.7	2.7	2.5	2.5	2.5	2.7
Kansas	1.2	1.6	2.4	3.0	4.3		6.0	6.5	7.0	7.0
Kentucky	2.2	3.3	3.4	4.7	5.4		7.4	7.9	7.9	9.9
Louisiana	1.8	2.7	4.5	6.2	7.3		6.3	6.4	3.8	5.3
Maine	2.5	3.8	3.7	4.8	5.6	6.7	8.6	9.3	11.0	11.7
Maryland Massachusetts	1.2 1.0	1.2 1.4	1.8 2.4	1.7 3.1	2.4 3.6	2.8 4.0	3.3 4.4	3.3 4.2	3.5 4.2	4.6 4.3
Massachuseus	2.9	3.8	4.5	5.6	5.5		7.1	8.0	8.7	9.5
Minnesota	2.9	3.0 1.2	4.5	1.8	2.2		2.9	3.6	4.0	4.7
Miniesota Mississippi	1.4	1.6	2.2	2.5	3.5		4.4	5.1	5.5	5.7
Missouri	0.9	1.4	2.3	2.8	3.5	4.4	4.9	5.4	6.4	6.7
Montana	0.8	0.9	1.4	1.6	2.5		4.4	5.9	7.1	8.3
Nebraska	2.0	2.5	2.6	2.7	3.1	3.2	2.7	2.7	2.6	3.1
Nevada	4.7	7.1	8.8	9.8	8.8		8.6	9.5	11.1	12.8
New Hampshire	1.1	2.0	2.3	3.0	3.8	4.8	5.5	6.6	7.2	7.4
New Jersey	2.0	3.5	4.2	4.1	4.3		6.4	7.3	8.0	8.8
New Mexico	3.1	2.7	4.3	4.5	6.6		7.3	8.1	9.7	10.0
New York	1.8	2.9	3.3	5.0	6.1	7.4	8.2	9.2	9.8	10.5
North Carolina	1.9	2.4	3.6	4.1	4.9		5.9	6.8	7.8	10.2
North Dakota	1.2	1.7	2.1	2.8	3.4	3.6	4.0	4.5	5.3	7.1
Ohio	2.6	2.5	3.9	3.8	3.7	3.7	3.3	3.9	4.4	5.7
Oklahoma	1.2	1.4	1.7	1.6	2.2	2.9	3.3	3.5	3.7	4.4
Oregon	1.8	2.1	2.6	4.0	4.3	5.0	5.7	6.8	7.2	6.9
Pennsylvania	1.6	2.6	3.2	3.3	3.3		2.8	3.3	3.9	4.1
Rhode Island	1.3	1.2	2.1	1.9	2.5	3.0	4.2	5.1	5.4	5.1
South Carolina	1.7	3.2	3.1	5.3	6.7		8.6	9.0	9.0	9.5
South Dakota	2.2	2.9	3.2	5.0	7.7		9.7	10.9	12.5	13.8
Tennessee	4.2	6.1	7.9	11.1	13.5		15.8	16.4	16.2	15.4
TexasUtah	2.4 4.6	3.5 5.6	4.7 5.3	6.0 6.2	6.5 6.1	7.4 4.9	8.3 4.8	9.7 4.9	11.3 4.3	13.0 2.3
	1.9	2.2	3.2	4.7	6.6		7.5	8.3	9.5	9.8
Vermont Virginia	1.9	2.2	3.Z 2.7	4.7	0.0 4.8		4.3	0.3 3.6	3.9	9.8
Washington	1.4	1.9	2.7	2.6	3.0		4.1	4.2	5.5	5.4
West Virginia	0.6	1.0	1.8	1.9	2.4		3.8	5.0	5.4	6.0
Wisconsin	1.2	1.4	2.4	2.7	3.1		4.3	5.1	5.8	5.3
Wyoming	1.5	1.9	2.4	3.1	4.5		7.6	8.9	10.4	11.3
··· , -····· g	1.0	1.0	L.7	0.1	1.0	0.0	7.0	0.0	10.4	11.0

NOTE: Mean absolute percentage error (MAPE) is the average value over past projections of the absolute values of errors expressed in percentage terms. National MAPEs for public high school graduates were calculated using the last 28 editions of *Projections of Education Statistics*, from *Projections of Education Statistics to 2000* through *Projections of Education Statistics* to 2027. State MAPEs were calculated using the last 23 editions of *Projections of Education Statistics*, form from Projections of Education Statistics to 2005 through Projections of Education Statistics to 2027. Calculations were made using unrounded numbers. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Projections of Education Statistics*, various issues. (This table was prepared January 2019.)

## A.4. EXPENDITURES FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION

### **Projections in this edition**

This edition of *Projections of Education Statistics* presents projections of total current expenditures for public elementary and secondary education, current expenditures per pupil in fall enrollment, and current expenditures per pupil in average daily attendance for 2016–17 through 2028–29.

As the source of the elementary and secondary private school data, the NCES Private School Universe Survey, does not collect data for current expenditures, there are no projections for private school current expenditures.

#### **Overview of approach**

#### Theoretical and empirical background

The Public Elementary and Secondary Education Current Expenditure Projection Model used in this report is based on the theoretical and empirical literature on the demand for local public services such as education.<sup>1</sup> Specifically, it is based on a type of model that has been called a median voter model. In brief, a median voter model posits that spending for each public good in the community (in this case, spending for education) reflects the preferences of the "median voter" in the community. This individual is identified as the voter in the community with the median income and median property value. The amount of spending in the community reflects the price of education facing the voter with the median income, as well as his income and tastes. There are competing models in which the level of spending reflects the choices of others in the community, such as government officials.

In a median voter model, the demand for education expenditures is typically linked to four different types of independent variables: (1) measures of the income of the median voter; (2) measures of intergovernmental aid for education going indirectly to the median voter; (3) measures of the price to the median voter of providing one more dollar of education expenditures per pupil; and (4) any other variables that may affect one's tastes for education. The Public Elementary and Secondary Education Current Expenditure Projection Model contains independent variables of the first two types. It uses multiple linear regression analysis to define the relationships between these independent variables and current expenditures (the dependent variable).

### **Elementary and Secondary Education Current Expenditure Projection Model**

Projections for current expenditures per pupil in fall enrollment were produced first. These projections were then used in calculating total expenditures and expenditures per pupil in average daily attendance.

#### Steps used to project current expenditures for public elementary and secondary education

*Step 1. Produce projections of education revenue from state sources.* The equation for education revenue included an AR(1) term for correcting for autocorrelation and the following independent variables:

- » disposable income per capita in constant dollars; and
- » the ratio of fall enrollment to the population.

To estimate the model, it was first transformed into a nonlinear model and then the coefficients were estimated simultaneously by applying a Marquardt nonlinear least squares algorithm to the transformed equation.

*Step 2. Produce projections of current expenditures per pupil in fall enrollment.* The equation for current expenditures per pupil for fall enrollment included an AR(1) term for correcting for autocorrelation and the following independent variables:

- » disposable income per capita in constant dollars; and
- » education revenue from state sources per capita in constant dollars. This variable was projected in step 1.

<sup>&</sup>lt;sup>1</sup> For a discussion of the theory together with a review of some of the older literature, see Inman (1979). More recent empirical work includes Gamkhar and Oates (1996) and Mitias and Turnbull (2001).

To estimate the models, they were first transformed into nonlinear models and then the coefficients were estimated simultaneously by applying a Marquardt nonlinear least squares algorithm to the transformed equation.

For details on the equations used in steps 1 and 2, the data used to estimate these equations, and their results, see "Data and equations used for projections of current expenditures for public elementary and secondary education," below.

*Step 3. Produce projections of total current expenditures.* Projections of total current expenditures were made by multiplying the projections for current expenditures per pupil in fall enrollment by projections for fall enrollment.

**Step 4.** Produce projections of current expenditures per pupil in average daily attendance. The projections for total current expenditures were divided by projections for average daily attendance to produce projections of current expenditures per pupil in average daily attendance.

All the projections were developed in 1982–84 dollars and then placed in 2017–18 dollars using the projections of the Consumer Price Index. Current-dollar projections were produced by multiplying the constant-dollar projections by projections for the Consumer Price Index. The Consumer Price Index and the other economic variables used in calculating the projections presented in this report were placed in school year terms rather than calendar year terms.

## Data and equations used for projections of current expenditures for public elementary and secondary education

**Data used to estimate the equations for revenue from state sources and current expenditures per pupil.** The following data for the period from 1973–74 to 2015–16 were used to estimate the equations:

- » Current expenditures and revenues from state sources—For 1973–74 and 1975–76, the current expenditures data came from *Statistics of State School Systems*, published by NCES. For 1974–75 and 1976–77, the current expenditures data came from *Revenues and Expenditures for Public Elementary and Secondary Education*, also published by NCES. For 1977–78 through 2015–16, these data came from the NCES Common Core of Data (CCD) and unpublished data. For most years, the sources for the past values of revenue from state sources were identical to the sources for current expenditures.
- » Disposable personal income per capita—Disposable personal income data from the Bureau of Economic Analysis were divided by population data from the U.S. Census Bureau.
- » The ratio of fall enrollment to population data—Fall enrollment data from the CCD were divided by population data from the U.S. Census Bureau. (See table B-4 on page 113.)

**Estimated equations and model statistics for revenue from state sources and current expenditures per pupil.** For the results of the equations, see table A-15 on page 95. In each equation, the independent variables affect the dependent variable in the expected way. In the revenues from state sources equation:

- » All other things being equal, as disposable income per capita increases so does local governments' education revenue from state sources per capita; and
- » As enrollment increases relative to the population, so does the local governments' education revenue from state sources per capita.
- » In the current expenditures per pupil equation: All other things being equal, as disposable income per capita increases, so does current expenditures per pupil; and
- » As local governments' education revenue from state sources per capita increases, so does current expenditures per pupil.

**Projections for economic variables.** Projections for economic variables, including disposable income and the Consumer Price Index, were from the "U.S. Quarterly Macroeconomic Model: December 2018 Short-Term Baseline Projections" from the economic consulting firm, IHS Global Inc. (see supplemental table B-5). This set of projections was IHS Global Inc.'s most recent set at the time the education projections in this report were produced. The values of all the variables from IHS Global Inc. were placed in school-year terms. The school-year numbers were calculated by taking the average of the last two quarters of one year and the first two quarters of the next year.

**Projections for fall enrollment.** The projections for fall enrollment are those presented in section 1 of this publication. The methodology for these projections is presented in Section A.1. Elementary and Secondary Enrollment, earlier in this appendix.

**Projections for population.** Population estimates for 1973 to 2017 and population projections for 2018 to 2028 from the U.S. Census Bureau were used to develop the public school current expenditure projections. The set of population projections used in this year's *Projections of Education Statistics* are the Census Bureau's 2017 National Population Projections (September 2018).

**Historical data for average daily attendance.** For 1973–74 and 1975–76, these data came from *Statistics of State School Systems*, published by NCES. For 1974–75 and 1976–77, the current expenditures data came from *Revenues and Expenditures for Public Elementary and Secondary Education*, also published by NCES. For 1977–78 through 2015–16, these data came from the CCD and unpublished NCES data.

**Projections for average daily attendance.** These projections were made by multiplying the projections for enrollment by the average value of the ratios of average daily attendance to enrollment from 1993–94 to 2015–16; this average value was approximately 0.93.

### Accuracy of projections

Mean absolute percentage errors (MAPEs) for projections of current expenditures for public elementary and secondary education were calculated using the last 29 editions of *Projections of Education Statistics* that included projections of current expenditures. Table F, below, shows the MAPEs for projections of current expenditures.

# Table F. Mean absolute percentage errors (MAPEs) of projections for total and per pupil current expenditures for public elementary and secondary education, by lead time: MAPEs constructed using projections from Projections of Education Statistics to 1984–85 through Projections of Education Statistics to 2027

	Lead time (years)										
Statistic	1	2	3	4	5	6	7	8	9	10	
Total current expenditures	1.7	2.6	2.7	2.7	3.1	4.1	5.0	5.8	6.3	7.2	
Current expenditures per pupil in fall enrollment	1.7	2.6	2.7	2.7	3.3	4.1	5.0	5.7	6.6	7.5	

NOTE: Expenditures were in constant dollars based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor. MAPEs for current expenditures were calculated using projections from the last 29 editions of *Projections of Education Statistics*, from *Projections of Education Statistics to 1997–98* through *Projections of Education Statistics to 2027*, excluding *Projections of Education Statistics to 2012* which did not include projections of current expenditures. Calculations were made using unrounded numbers. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Projections of Education Statistics*, various issues. (This table was prepared February 2019.)

For more information about MAPEs, see Section A.O. Introduction to Projection Methodology, earlier in this appendix.

#### Table A-15. Estimated equations and model statistics for current expenditures per pupil in fall enrollment for public elementary and secondary schools, and education revenue from state sources per capita based on data from 1973-74 to 2015-16

Dependent variable					Equation <sup>1</sup>	R²	Breusch- Serial Co LM test s		
1					2	3		4	5
Current expenditures per pupil	In(CUREXP) =	2.27 + (1.250)	0.47ln(PCl) + (2.509)	0.21ln(SGRANT) + (2.561)	0.94AR(1) (28.242)	0.997	6.21	(0.045)	1973–74 to 2015–16
Education revenue from state sources per capita	In(SGRNT) =	7.72 + (2.097)	0.95ln(PCl) + (7.719)	1.34ln(ENRPOP) + (3.107)	0.82AR(1) (13.925)	0.984	1.40	(0.496)	1973–74 to 2015–16

<sup>1</sup>AR(1) indicates that the model was estimated using least squares with the AR(1) process for correcting for first-order autocorrelation. To estimate the model, it was first transformed into a nonlinear model and then the coefficients were estimated simultaneously by applying a Marquardt nonlinear least squares algorithm to the transformed equation. For a general discussion of the problem of autocorrelation, and the method used to forecast in the presence of autocorrelation, see Judge, G., Hill, W., Griffiths, R., Lutkepohl, H., and Lee, T. (1985). *The Theory and Practice of Econometrics*. New York: John Wiley and Sons, pp. 315–318. Numbers in parentheses are t-statistics.

<sup>2</sup>The number in parentheses is the probability of the Chi-Square associated with the Breusch-Godfrey Serial Correlation LM Test. A p value greater that 0.05 implies that we do not reject the null hypothesis of no autocorrelation at the 5 percent significance level for a two-tailed test and 10 percent significance level for a one-tailed test, (i.e., there is no autocorrelation present).

For an explanation of the Breusch-Godfrey Serial Correlation LM test statistic, see Greene, W. (2000). Econometric Analysis. New Jersey: Prentice-Hall.

NOTE:  $R^2$  indicates the coefficient of determination. CUREXP = Current expenditures of public elementary and secondary schools per pupil in fall enrollment in constant 1982-84 dollars.

SGRANT = Local governments' education revenue from state sources, per capita, in constant 1982–84 dollars.

PCI = Disposable income per capita in constant 2000 chained dollars.

ENRPOP = Ratio of fall enrollment to the population. SOURCE: U.S. Department of Education, National Center for Education Statistics, Public Elementary and Secondary Education Current Expenditure Projection Model, 1973-74 through 2028-29. (This table was prepared March 2019.)

### A.5. ENROLLMENT IN DEGREE-GRANTING POSTSECONDARY INSTITUTIONS

### **Projections in this edition**

This edition of *Projections of Education Statistics* presents projections of enrollment in degree-granting postsecondary institutions for fall 2018 through fall 2029. Three different models were used to produce these enrollment projections:

- » The *Enrollment in Degree-Granting Institutions Projection Model* produced projections of enrollments by attendance status, level of student, level of institution, control of institution, sex, and age. It also produced projections of full-time-equivalent enrollments by level of student, level of institution, and control of institution.
- » The *Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model* produced projections of enrollments by race/ethnicity.
- » The First-Time Freshmen Projection Model produced projections of enrollments of first-time freshmen by sex.

### **Overview of approach**

#### Basic features of the three degree-granting enrollment projection models

The Enrollment in Degree-Granting Institutions Projection Model is the primary model for projecting enrollment in degree-granting postsecondary institutions. Beginning with *Projections of Education Statistics to 2027*, enrollment rates by attendance status, sex, and age category are projected by setting them to their most recent historic values. These rates are applied to projections of populations of the same sex and age to produce projections of enrollment by attendance status, sex, and age. To project enrollments by level of student, level of institution, and control of institution, rates for these characteristics are projected using single exponential smoothing and applied to enrollment projections previously produced by the model. The previous model was replaced because of decreased satisfaction with model performance as measured though such measures as Mean Absolute Projection Errors (MAPEs).

The Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model takes an approach similar to that of the Enrollment in Degree-Granting Institutions Projection Model. As in earlier editions, enrollment rates by attendance status, sex, and race/ethnicity are projected for the age categories using either the pooled seemingly unrelated regression method or the pooled seemingly unrelated regression method with a first-order autocorrelation correction. The resulting rates are iteratively corrected to ensure consistency with those projected by the Enrollment in Degree-Granting Institutions Projection Model. The adjusted rates are then applied to projections of populations of the same sex, age, and race/ethnicity.

The First-Time Freshmen Enrollment in Degree-Granting Institutions Projection Model uses single exponential smoothing to project the ratio of freshmen enrollment to undergraduate enrollment separately for males and for females. It then applies the projected ratios to the projections of undergraduate enrollment by sex that were produced by the Enrollment in Degree-Granting Institutions Projection Model.

### The Enrollment in Degree-Granting Institutions Projection Model

The Enrollment in Degree-Granting Institutions Projection Model produces projections of enrollment counts by six levels of detail, as well as projections of full-time-equivalent enrollments by level of student, level of institution, and control of institution.

#### Steps used in the Enrollment in Degree-Granting Institutions Projection Model

**Step 1.** Adjust age-specific enrollment counts from the U.S. Census Bureau to make them agree with the more highly aggregated NCES enrollment counts that do not include age. The Enrollment in Degree-Granting Institutions Projection Model projects enrollments by six levels of detail: attendance status, level of student, level of institution, control of institution, sex, and age. While NCES does produce enrollment counts by the first five levels of detail, it does not produce data by the sixth level of detail, age, every year. However, the U.S. Census Bureau does produce annual age-specific enrollment counts.

In step 1, the age distributions from the Census Bureau counts for 2000 to 2018 were applied to the NCES counts to produce a set of enrollment data that breaks enrollments down by age while being consistent with NCES counts. Specifically, the most detailed level of Census Bureau data (by attendance status, level of student, level of institution, control of institution, sex, and age) was iteratively changed using proportions based on the more highly aggregated NCES enrollment numbers to ensure that all sums across this most detailed level of Census enrollment data equaled the more highly aggregated NCES enrollment totals that did not include age.

**Step 2.** Calculate enrollment rates by attendance status, sex, and age category. The enrollment data were broken up into 14 age categories, with separate age categories for individual ages 14 through 24 as well as for the age groups 25 to 29, 30 to 34, and 35 and over. For each of the 14 age categories, 4 enrollment rates were calculated—part-time male, full-time male, part-time female, and full-time female—resulting in a total of 56 enrollment rates. Each of the 56 enrollment rates was calculated by dividing the enrollment count for that combination of attendance status, sex, and age category by the total population for the corresponding combination of sex and age category. For each combination of attendance and sex, the enrollment rate for the oldest age category was calculated by dividing the enrollment count for those 35 and over by the total population for those 35 to 44.

Step 3. Produce projections of enrollment rates by attendance status, sex, and age category. Enrollment rates by attendance status and sex were produced for the following 14 age categories: individual ages 14 through 24 and age groups 25 to 29, 30 to 34, and 35 and over. For this edition of *Projections of Education Statistics*, the same method was used to produce enrollment rates for individual ages 17 through 24 and age groups 25 to 29, 30 to 34, and 35 and over by attendance status and sex as had been used in *Projections of Education Statistics to 2027*. In earlier editions of this report, these enrollment rates were produced using multiple linear regression models. As of the 2027 edition, these rates were set to their most recent historic values. This change was made because of increases in the forecasts errors when enrollment projections were compared to their actual values. Because enrollment in degree-granting postsecondary institutions is negligible for ages 14, 15, and 16, enrollment rates for individual ages 14, 15, and 16 by attendance status and sex were produced by double exponential smoothing. This is the same method as was used in the most recent editions of *Projections of Education Statistics*.

#### For the projected enrollment rates and the actual 2017 values, see table A-16 on page 101.

**Step 4.** Produce projections of enrollments by attendance status, sex, and age category. For each combination of attendance status, sex, and age category, enrollment projections were produced by multiplying the projected enrollment rate for that combination by projections of the total population with the corresponding combination of sex and age category.

**Step 5.** Add three additional levels of detail—level of student, control of institution, and level of institution—to the projected enrollments by attendance status and sex. In this step, the data on enrollment by age category were not used. Step 5 can be broken into two parts:

First, data for 2017 were used to calculate the percentage distribution of enrollment by level of student, control of institution, and level of institution for each combination of attendance status and sex. Because it was assumed that there was no enrollment in 2-year institutions at the postbaccalaureate level, six combinations of student level and institution type were used: undergraduates at public 4-year institutions, undergraduates at public 2-year institutions, postbaccalaureate students at public 4-year institutions, undergraduates at private 4-year institutions, undergraduates at private 2-year institutions, and postbaccalaureate students at private 4-year institutions.

#### For the projected percentage distributions from step 5 and the actual 2017 distributions, see table A-17 on page 102.

Second, the 2017 distributions by level of student, control of institution, and type of institution were applied to the projected enrollments by attendance status and sex from step 4 to obtain the enrollment projections by attendance status, sex, level of student, control of institution, and level of institution.

This is the first edition of *Projections of Education Statistics* to use this methodology to produce enrollments by level of student, control of institution, and level of institution.

**Step 6.** Produce projections of full-time-equivalent enrollment by level of student, level of institution, and control of institution. Full-time-equivalent enrollment represents total full-time and part-time enrollment as if it were enrollment on a full-time basis. It equals the sum of full-time enrollment plus the full-time-equivalent of part-time enrollment. Full-time-equivalent enrollment projections were produced in the following manner:

First, for each combination of level of student, level of institution, and control of institution, the historic data were used to calculate the full-time-equivalent of part-time enrollment as a percentage of part-time enrollment.

Second, for each combination of level of student, level of institution, and control of institution, the full-time equivalent of part-time enrollment as a percentage of part-time enrollment was projected using single exponential smoothing. A separate smoothing constant, chosen to minimize the sum of squared forecast errors, was used for each percentage.

Third, for each combination of level of student, level of institution, and control of institution, the projected percentages were applied to the projections of part-time enrollment to project the full-time equivalent of the part-time enrollment.

Fourth, the projections of full-time equivalents of part-time enrollment were added to projections of full-time enrollment to obtain projections of full-time-equivalent enrollment.

#### Data for the Enrollment in Degree-Granting Institutions Projection Model

**Enrollment data for degree-granting postsecondary institutions.** Enrollment data for 2000 to 2017 by attendance status, level of student, level of institution, control of institution, and sex came from the NCES Integrated Postsecondary Education Data System (IPEDS). These are universe counts. The U.S. Census Bureau was the source for enrollment estimates for 1981 to 2017 by the characteristics listed above, as well as age of student.

**Population data and projections.** Population counts for 2000 to 2018 came from the U.S. Census Bureau. Population projections for 2019 to 2028 are the Census Bureau's 2017 National Population Projections of the population by sex and age (September 2018), ratio-adjusted to line up with the most recent historical estimates. For more information, see Section A.0. Introduction to Projection Methodology, earlier in this appendix.

Data and results for the model. The following details for the model are shown on pages 101–102:

- » Table A-16 shows enrollment rates by sex, attendance status, and age for fall 2017 and projected enrollment rates for fall 2023 and fall 2028.
- » Table A-17 shows actual and projected percentage distributions of full-time and part-time students.
- » Table A-18 shows actual and projected data for enrollment in public degree-granting institutions as a percentage of total enrollment by sex, attendance status, student level, and level of institution.

#### Accuracy of projections for the Enrollment in Degree-Granting Institutions Projection Model

No mean absolute percentage errors (MAPEs) were calculated for enrollments in degree-granting postsecondary institutions as this is the first edition of *Projections of Education Statistics* to use the new model Enrollment in Degree-Granting Institutions Model. For information concerning the accuracy of the previous models used to produce projections of enrollment in degree-granting postsecondary institutions, see page 125 of *Projections of Education Statistics to 2026*.

#### The Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model

The Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model projects enrollments in degreegranting institutions by attendance status, sex, age, and race/ethnicity. The following groups are projected in this model:

- » White;
- » Black;
- » Hispanic;
- » Asian/Pacific Islander;
- » American Indian/Alaska Native;
- » Two or more races; and
- » nonresident alien.

See the glossary for definitions of the six racial/ethnic categories and the nonresident alien category. (The race/ethnicity of nonresident aliens is unknown, but they are considered a separate group for purposes of this analysis.)

#### Steps used in the Degree-Granting Institutions by Race/Ethnicity Projection Model

**Step 1.** Adjust U.S. Census Bureau enrollment counts by attendance status, sex, age, and race/ethnicity to make them sum to NCES enrollment counts by attendance status, sex, and race/ethnicity. For 1981 to 2017, the most detailed levels of Census Bureau enrollment data (by enrollment status, sex, age, and race/ethnicity) were iteratively changed using proportions that were based on the more highly aggregated NCES enrollment numbers to ensure that the sums across these most detailed levels of enrollment data equaled the more highly aggregated NCES enrollment numbers that did not include age.

Step 2. Calculate enrollment rates by attendance status, sex, age category, and race/ethnicity. The enrollment data were broken up into 14 age categories, with separate age categories for individual ages 14 through 24 as well as for the age groups 25 to 29, 30 to 34, and 35 and over. For each of the 14 age categories, enrollment rates were calculated for each combination of attendance status, sex, and the six racial/ethnic groups, resulting in a total of 350 enrollment rates (enrollment for Two or more races was projected to increase at the same rate as enrollment as total degree-granting postsecondary enrollment each year). Each of the 350 enrollment rates was calculated by dividing the enrollment count for that combination of attendance status, sex, age category, and race/ethnicity by the total population for the corresponding combination of sex, age category, and race/ethnicity. For each combination of attendance status, sex and racial/ethnic group, the enrollment rate for the oldest age category was calculated by dividing the enrollment count for those 35 and over by the total population for those 35 to 44.

**Step 3.** Produce projections of enrollment rates by attendance status, sex, age category, and race/ethnicity. Enrollment rates for most of the age groups and racial/ethnic groups were projected using multiple linear regression. However, there were several exceptions:

- » Due to negligible enrollments for ages 14, 15, and 16, these ages were not included in the multiple linear regression models. Instead, projections of enrollment rates for individual ages 14, 15, and 16 were produced by single exponential smoothing.
- » Due to the relatively large fluctuations in the historical enrollment rates resulting from small sample sizes, American Indian/Alaska Native enrollments were projected using single exponential smoothing.
- » Since there were no applicable population counts to compute enrollment rates for nonresident aliens, their enrollments were projected using patterns in recent historical growth.

Four racial/ethnic groups were modeled: White, Black, Hispanic, and Asian/Pacific Islander. Eleven age categories were modeled: individual ages 17 through 24 and age groups 25 to 29, 30 to 34, and 35 to 44. For each of the age categories, projected enrollment rates by attendance status, sex, and race/ethnicity were produced using 16 pooled time-series models—one for each combination of attendance status, sex, and the four racial/ethnic groups. Each equation included variables measuring

- » recent trends;
- » economic conditions (such as disposable income); and
- » demographic changes.

For more information on the equations used to project enrollment rates for the combinations of attendance status, sex, and race/ ethnicity, see tables A-19 through A-26, under "Data and equations used for the Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model," below.

The final set of projected rates by attendance status, sex, age, and race/ethnicity were controlled to enrollment rates by attendance status, sex, and age produced by the Enrollment in Degree-Granting Institutions Projection Model to ensure consistency across models.

**Step 4.** Produce projections of enrollments by attendance status, sex, age category, and race/ethnicity. For each combination of attendance status, sex, age category, and race/ethnicity, enrollment projections were produced by multiplying the projected enrollment rate for that combination by projections of the total population with the corresponding combination of sex, age category, and race/ethnicity.

#### Data and equations used for the Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model

**Enrollment data for degree-granting institutions by race/ethnicity.** Enrollment data for 1981 to 2017 by attendance status, sex, and race/ethnicity came from the NCES Integrated Postsecondary Education Data System (IPEDS). These are universe counts. The U.S. Census Bureau, Current Population Survey was the source for enrollment estimates for 1981 to 2017 by the characteristics listed above, as well as age of student.

**Population data and projections by race/ethnicity.** Population counts for 1981 to 2017 came from the U.S. Census Bureau, Population Estimates series. Population projections for 2018 to 2028 are the Census Bureau's 2017 National Population Projections of the population by sex, age and race/ethnicity (December 2017), ratio-adjusted to line up with most recent historical estimates.

**Projections for economic variables.** The economic variables used in developing these projections were from the "U.S. Quarterly Macroeconomic Model: December 2018 Short-Term Baseline Projections" from the economic consulting firm, IHS Global Inc. This set of projections was IHS Global Inc.'s most recent set at the time the education projections in this report were produced.

**Estimated equations and model statistics.** Tables A-20 through A-27 show the estimated equations and model statistics used to project enrollment rates for the various combinations of attendance status, sex, and race/ethnicity.

#### Accuracy of projections for the Degree-Granting Institutions by Race/Ethnicity Projection Model

No mean absolute percentage errors (MAPEs) were calculated for enrollments in degree-granting postsecondary institutions by race/ethnicity, as projections from the new Enrollment in Degree-Granting Institutions Model were used in the calculating the enrollment by race/ethnicity projections. For information concerning the accuracy of the previous models used to produce projections of enrollment in degree-granting postsecondary institutions, see page 125 of *Projections of Education Statistics to 2026*.

# The First-Time Freshmen Enrollment in Degree-Granting Institutions Projection Model

The First-Time Freshmen Enrollment in Degree-Granting Institutions Projection Model produced projections of first-time freshmen enrollment in degree-granting institutions by sex.

#### Steps used in the First-Time Freshmen Enrollment in Degree-Granting Institutions Projection Model

The projections were produced in the following manner:

Step 1. Calculate the ratio of first-time freshmen enrollment to undergraduate enrollment. For 1975 to 2017, the ratio of first-time freshmen enrollment to undergraduate enrollment was calculated for males and females.

**Step 2.** Project the ratio of first-time freshmen enrollment to undergraduate enrollment. The percentages of undergraduate enrollment for both males and females were projected using single exponential smoothing. A separate smoothing constant, chosen to minimize the sum of squared forecast errors, was used for each percentage.

*Step 3. Apply the projected ratio to projected undergraduate enrollment.* The projected ratios were applied to projections of undergraduate enrollment by sex from the Enrollment in Degree-Granting Institutions Model to yield projections of first-time freshmen enrollment.

#### Assumptions underlying this method

This method assumes that the future pattern in the trend of first-time freshmen enrollment will be the same as that for undergraduate enrollment.

#### Data used in the First-Time Freshmen Enrollment in Degree-Granting Institutions Projection Model

**Undergraduate and freshmen enrollment data for degree-granting institutions.** Undergraduate and freshmen enrollment data by sex for 1975 to 2017 came from the NCES Integrated Postsecondary Education Data System (IPEDS).

**Projections of undergraduate enrollment.** Projections of undergraduate enrollment by sex came from the Enrollment in Degree-Granting Institutions Model, discussed earlier in this section of appendix A.

#### Accuracy of projections for the First-Time Freshmen Enrollment Projection Model

No mean absolute percentage errors (MAPEs) were calculated for first-time freshmen enrollments in degree-granting postsecondary institutions, as projections from the new Enrollment in Degree-Granting Institutions Model were used in the calculating the first-time freshmen enrollment projections. For information concerning the accuracy of the previous models used to produce projections of enrollment in degree-granting postsecondary institutions, see page 125 of *Projections of Education Statistics to 2026*.

#### Table A-16. Actual and projected numbers for enrollment rates of all students at degree-granting postsecondary institutions, by sex, attendance status, and age: Fall 2017, fall 2023, and fall 2028

		Proje	ected
Sex, attendance status, and age	Actual 2017	2023	2028
1	2	3	4
Males			
Full-time			
16-years-old	0.5	0.7	0.7
17-years-old	1.6	1.6	1.6
18-years-old	27.1	27.1	27.1
19-years-old	38.2	38.2	38.2
	42.4	42.4	42.4
20-years-old	42.4 32.6	42.4 32.6	42.4 32.6
21-years-old			
22-years-old	23.8	23.8	23.8
23-years-old	13.7	13.7	13.7
24-years-old	12.2	12.2	12.2
25- to 29-years-old	5.4	5.4	5.4
30- to 34-years-old	2.0	2.0	2.0
35- to 44-years-old	1.3	1.3	1.3
Part-time			
16-years-old	#	0.1	0.1
17-years-old	0.9	0.9	0.9
18-years-old	4.3	4.3	4.3
19-years-old	9.0	9.0	9.0
20-years-old	8.2	8.2	8.2
21-years-old	8.3	8.3	8.3
22-years-old	9.7	9.7	9.7
23-years-old	10.3	10.3	10.3
24-years-old	7.4	7.4	7.4
25- to 29-years-old	5.6	5.6	5.6
30- to 34-years-old	3.5	3.5	3.5
35- to 44-years-old	3.3	3.8	3.8
Females			
Full-time			
16-years-old	1.2	1.0	1.0
17-years-old	4.1	4.1	4.1
18-years-old	39.7	39.7	39.7
	49.7	49.7	49.7
19-years-old	49.7	45.7	49.7
20-years-old			
21-years-old	44.9	44.9	44.9
22-years-old	25.1	25.1	25.1
23-years-old	18.1	18.1	18.1
24-years-old	15.4	15.4	15.4
25- to 29-years-old	6.2	6.2	6.2
30- to 34-years-old	2.7	2.7	2.7
35- to 44-years-old	2.2	2.2	2.2
Part-time			
16-years-old	0.6	0.2	0.2
17-years-old	1.1	1.1	1.1
18-years-old	7.2	7.2	7.2
19-years-old	12.8	12.8	12.8
20-years-old	9.3	9.3	9.3
21-years-old	14.7	14.7	14.7
22-years-old	11.5	11.5	11.5
23-years-old	11.6	11.6	11.6
24-years-old	10.8	10.8	10.8
25- to 29-years-old	8.9	8.9	8.9
30- to 34-years-old	4.4	4.4	4.4
35- to 44-years-old	4.4 6.6	4.4 6.6	4.4 6.6
50- 10 44-ytai 5-010	0.0	0.0	0.0

#Rounds to zero. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Spring 2018; Enrollment in Degree-Granting Institutions

Projection Model, 1980 through 2028; and U.S. Department of Commerce, Census Bureau, Current Population Reports, "Social and Economic Characteristics of Students," 2017. (This table was prepared March 2019.)

### Table A-17. Actual and projected percentages of students at degree-granting postsecondary institutions, by sex, attendance status, student level, and level of institution: Fall 2017, and fall 2018 through fall 2028

	Males		Females	
Attendance status, student level, and institution level	Actual 2017	Projected 2018 through 2028	Actual 2017	Projected 2018 through 2028
1	2	3	4	5
Full-time Undergraduate, 4-year institutions Undergraduate, 2-year institutions Postbaccalaureate, 4-year institutions	67.7 18.7 13.7	67.7 18.7 13.7	67.2 18.3 14.5	67.2 18.3 14.5
Part-time Undergraduate, 4-year institutions Undergraduate, 2-year institutions Postbaccalaureate, 4-year institutions	35.5 49.3 15.2	35.5 49.3 15.2	34.3 47.6 18.0	34.3 47.6 18.0

# Rounds to zero.

NOTE: Detail may not sum to totals because of rounding. Some data have been revised from previously published figures. SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Spring 2018; Enrollment in Degree-Granting Institutions Projection Model, 1980 through 2028; and U.S. Department of Commerce, Census Bureau, Current Population Reports, "Social and Economic Characteristics of Students," 2017. (This table was prepared March 2019.)

### Table A-18. Actual and projected enrollment in public degree-granting postsecondary institutions as a percentage of total postsecondary enrollment, by sex, attendance status, student level, and level of institution: Fall 2017, and fall 2018 through fall 2028

	Males		Fem	Females	
Attendance status, student level, and level of institution	Actual 2017	Projected 2018 through 2028	Actual 2017	Projected 2018 through 2028	
Full-time, undergraduate, 4-year institutions	69.4	69.4	66.0	66.0	
Part-time, undergraduate, 4-year institutions	74.0	74.0	68.6	68.6	
Full-time, undergraduate, 2-year institutions	93.3	93.3	88.2	88.2	
Part-time, undergraduate, 2-year institutions	99.6	99.6	99.1	99.1	
Full-time, postbaccalaureate, 4-year institutions	49.3	49.3	46.2	46.2	
Part-time, postbaccalaureate, 4-year institutions	52.6	52.6	48.2	48.2	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Spring 2018; and Enrollment in Degree-Granting Institutions Projection Model, 1980 through 2028. (This table was prepared March 2019.)

## Table A-19. Estimated equations and model statistics for full-time and part-time enrollment rates of White males at degree-granting postsecondary institutions based on data from 1980 to 2017

Independent variable	Coefficient	Standard error	t-statistic	R <sup>2</sup>	D.W. statistic
1	2	3	4	5	6
Full-time					
Intercept term for 17-year-olds	-9.05	0.261	-34.64	0.99	1.57*
Intercept term for 18-year-olds	-6.05	0.251	-24.14		
Intercept term for 19-year-olds	-5.75	0.248	-23.19		
Intercept term for 20-year-olds	-5.90	0.248	-23.76		
Intercept term for 21-year-olds	-6.05	0.248	-24.35		
Intercept term for 22-year-olds	-6.55	0.248	-26.37		
Intercept term for 23-year-olds	-7.12	0.249	-28.63		
Intercept term for 24-year-olds	-7.49	0.250	-29.95		
Intercept term for 25- to 29-year-olds	-8.34	0.249	-33.53		
Intercept term for 30- to 34-year-olds	-9.37	0.250	-37.45		
Intercept term for 35- to 44-year-olds	-9.97	0.251	-39.65		
Log of White per capita disposable income in current dollars	0.28	0.013	21.75		
Part-time					
Intercept term for 17-year-olds	-5.28	0.480	-11.00	0.85	1.81*
Intercept term for 18-year-olds	-1.65	0.106	-15.55		
Intercept term for 19-year-olds	-1.13	0.113	-10.05		
Intercept term for 20-year-olds	-1.08	0.103	-10.48		
Intercept term for 21-year-olds	-1.13	0.103	-10.96		
Intercept term for 22-year-olds	-1.34	0.104	-12.86		
Intercept term for 23-year-olds	-1.38	0.100	-13.86		
Intercept term for 24-year-olds	-1.45	0.099	-14.75		
Intercept term for 25- to 29-year-olds	-1.76	0.096	-18.41		
Intercept term for 30- to 34-year-olds	-2.22	0.097	-22.82		
Intercept term for 35- to 44-year-olds	-2.25	0.094	-23.82		
Log of real total private compensation employment cost index	1.36	0.126	10.75		

\* p < .05.

NOTE:  $R^2$  = Coefficient of determination. D.W. statistic = Durbin-Watson statistic, a test for autocorrelation among regression residuals. For more details see Johnston, J., and Dinardo, J. (1996). *Econometric Methods*. New York: McGraw-Hill. The regression method used to estimate the full-time and part-time equations was the pooled seemingly unrelated regression method. The time period used to estimate the equations is from 1980 to 2017. The number of observations is 418. For additional information, see Intriligator, M.D. (1978). *Econometric Models, Techniques, & Applications*. New Jersey: Prentice-Hall, Inc., pp. 165–173. Race categories exclude persons of Hispanic ethnicity.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model, 1980 through 2028. (This table was prepared May 2019.)

### Table A-20. Estimated equations and model statistics for full-time and part-time enrollment rates of White females at degree-granting postsecondary institutions based on data from 1980 to 2017

Independent variable	Coefficient	Standard error	t-statistic	R²	D.W. statistic
1	2	3	4	5	6
Full-time					
Intercept term for 17-year-olds Intercept term for 18-year-olds	-12.78	0.437	-29.28	0.99	1.75*
Intercept term for 18-year-olds	-9.82	0.429	-22.90		
Intercept term for 19-year-olds	-9.63	0.427	-22.53		
Intercept term for 20-year-olds	-9.85	0.428	-23.03		
Intercept term for 21-year-olds	-10.08	0.428	-23.57		
Intercept term for 22-year-olds	-10.82	0.428	-25.29		
Intercept term for 23-year-olds	-11.36	0.429	-26.50		
Intercept term for 24-year-olds	-11.75	0.429	-27.41		
Intercept term for 25- to 29-year-olds	-12.55	0.428	-29.31		
Intercept term for 30- to 34-year-olds	-13.29	0.428	-31.07		
Intercept term for 35- to 44-year-olds	-13.48	0.428	-31.51		
Log of White per capita disposable income in current dollars	0.49	0.022	22.44		
Part-time					
Intercept term for 17-year-olds	-10.07	0.377	-26.73	0.70	1.87*
Intercept term for 18-year-olds		0.304	-21.22		-
Intercept term for 19-year-olds		0.305	-19.48		
Intercept term for 20-year-olds	-6.02	0.305	-19.72		
Intercept term for 21-year-olds	-6.09	0.305	-19.98		
Intercept term for 22-year-olds		0.303	-20.82		
Intercept term for 23-year-olds	-6.38	0.304	-21.01		
Intercept term for 24-year-olds	-6.41	0.302	-21.24		
Intercept term for 25- to 29-year-olds	-6.72	0.301	-22.30		
Intercept term for 30- to 34-year-olds	-7.12	0.303	-23.51		
Intercept term for 35- to 44-year-olds	-6.78	0.301	-22.51		
Log of real total private compensation employment cost index	0.22	0.015	14.06		

#### \* p < .05.

NOTE:  $R^2$  = Coefficient of determination. D.W. statistic = Durbin-Watson statistic, a test for autocorrelation among regression residuals. For more details see Johnston, J., and Dinardo, J. (1996). *Econometric Methods*. New York: McGraw-Hill. The regression method used to estimate the full-time and part-time equations was the pooled seemingly unrelated regression method. The time period used to estimate the equations is from 1980 to 2017. The number of

observations is 418. For additional information, see Intriligator, M.D. (1978). *Econometric Models, Techniques, & Applications*. New Jersey: Prentice-Hall, Inc., pp. 165–173. Race categories exclude persons of Hispanic ethnicity.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model, 1980 through 2028. (This table was prepared March 2019.)

## Table A-21. Estimated equations and model statistics for full-time and part-time enrollment rates of Black males at degree-granting postsecondary institutions based on data from 1980 to 2017

Independent variable	Coefficient	Standard error	t-statistic	$R^2$	D.W. statistic
1	2	3	4	5	6
Full-time					
Intercept term for 17-year-olds	-10.94	0.608	-18.01	0.94	1.79*
Intercept term for 18-vear-olds	-8.63	0.600	-14.38		
Intercept term for 19-year-olds	-8.32	0.599	-13.89		
Intercept term for 20-year-olds	-8.40	0.600	-14.00		
Intercept term for 21-year-olds	-8.62	0.601	-14.36		
Intercept term for 22-year-olds	-8.84	0.601	-14.72		
Intercept term for 23-year-olds	-9.30	0.603	-15.43		
Intercept term for 24-year-olds	-9.59	0.602	-15.93		
Intercept term for 25- to 29-year-olds	-10.35	0.601	-17.21		
Intercept term for 30- to 34-year-olds	-11.15	0.604	-18.47		
Intercept term for 35- to 44-year-olds	-11.44	0.603	-18.97		
Log of Black per capita disposable income in current dollars	0.38	0.032	11.80		
Part-time					
Intercept term for 17-year-olds	-12.77	0.678	-18.85	0.52	1.95*
Intercept term for 18-year-olds	-11.31	0.524	-21.60		
Intercept term for 19-year-olds	-10.52	0.516	-20.41		
Intercept term for 20-year-olds	-10.43	0.516	-20.23		
Intercept term for 21-year-olds	-10.39	0.510	-20.38		
Intercept term for 22-year-olds	-10.50	0.516	-20.34		
Intercept term for 23-year-olds	-10.59	0.520	-20.38		
Intercept term for 24-year-olds	-10.73	0.522	-20.54		
Intercept term for 25- to 29-year-olds	-10.82	0.508	-21.29		
Intercept term for 30- to 34-year-olds	-11.11	0.507	-21.90		
Intercept term for 35- to 44-year-olds	-11.08	0.505	-21.94		
Log of Black per capita disposable income in current dollars	0.41	0.027	15.14		

\* p < .05.

NOTE:  $R^2$  = Coefficient of determination. D.W. statistic = Durbin-Watson statistic, a test for autocorrelation among regression residuals. For more details see Johnston, J., and Dinardo, J. (1996). *Econometric Methods*. New York: McGraw-Hill. The regression method used to estimate the full-time and part-time equations was the pooled seemingly unrelated regression method. The time period used to estimate the equations is from 1980 to 2017. The number of observations is 418. For additional information, see Intriligator, M.D. (1978). *Econometric Models, Techniques, & Applications*. New Jersey: Prentice-Hall, Inc., pp. 165–173. Race categories exclude persons of Hispanic ethnicity.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model, 1980 through 2028. (This table was prepared March 2019.)

### Table A-22. Estimated equations and model statistics for full-time and part-time enrollment rates of Black females at degree-granting postsecondary institutions based on data from 1980 to 2017

Independent variable	Coefficient	Standard error	t-statistic	R²	D.W. statistic
1	2	3	4	5	6
Full-time					
Intercept term for 17-year-olds	-14.27	0.574	-24.87	0.96	1.79*
Intercept term for 18-year-olds	-11.97	0.566	-21.15		
Intercept term for 19-year-olds	-11.69	0.565	-20.70		
Intercept term for 20-year-olds	-11.92	0.566	-21.07		
Intercept term for 21-year-olds	-12.13	0.565	-21.46		
Intercept term for 22-year-olds	-12.54	0.565	-22.19		
Intercept term for 23-year-olds	-12.83	0.566	-22.66		
Intercept term for 24-year-olds	-13.18	0.567	-23.22		
Intercept term for 25- to 29-year-olds	-13.92	0.567	-24.55		
Intercept term for 30- to 34-year-olds	-14.42	0.567	-25.45		
Intercept term for 35- to 44-year-olds	-14.71	0.568	-25.93		
Log of Black per capita disposable income in current dollars	0.59	0.030	19.59		
Part-time					
Intercept term for 17-year-olds	-14.05	0.790	-17.78	0.47	1.83*
Intercept term for 18-year-olds	-12.07	0.776	-15.57	_	
Intercept term for 19-year-olds	-11.56	0.773	-14.95		
Intercept term for 20-year-olds	-11.52	0.773	-14.91		
Intercept term for 21-year-olds		0.771	-14.89		
Intercept term for 22-year-olds		0.771	-14.95		
Intercept term for 23-year-olds	-11.63	0.772	-15.07		
Intercept term for 24-year-olds	-11.66	0.772	-15.10		
Intercept term for 25- to 29-year-olds	-11.85	0.768	-15.44		
Intercept term for 30- to 34-year-olds	-12.02	0.768	-15.66		
Intercept term for 35- to 44-year-olds	-11.82	0.767	-15.40		
Log of Black per capita disposable income in current dollars	0.49	0.041	12.02		

#### \* p < .05.

NOTE:  $R^2$  = Coefficient of determination. D.W. statistic = Durbin-Watson statistic, a test for autocorrelation among regression residuals. For more details see Johnston, J., and Dinardo, J. (1996). *Econometric Methods*. New York: McGraw-Hill. The regression method used to estimate the full-time and part-time equations was the pooled seemingly unrelated regression method. The time period used to estimate the equations is from 1980 to 2017. The number of

observations is 418. For additional information, see Intriligator, M.D. (1978). Econometric Models, Techniques, & Applications. New Jersey: Prentice-Hall, Inc., pp. 165–173. Race categories exclude persons of Hispanic ethnicity.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model, 1980 through 2028. (This table was prepared March 2019.)

## Table A-23. Estimated equations and model statistics for full-time and part-time enrollment rates of Hispanic males at degree-granting postsecondary institutions based on data from 1980 to 2017

Independent variable	Coefficient	Standard error	t-statistic	R <sup>2</sup>	D.W. statistic
1	2	3	4	5	6
Full-time					
Intercept term for 17-year-olds	-13.24	0.716	-18.49	0.91	1.88*
Intercept term for 18-vear-olds	-11.09	0.711	-15.61		
Intercept term for 19-year-olds	-10.85	0.711	-15.26		
Intercept term for 20-year-olds	-11.03	0.712	-15.50		
Intercept term for 21-year-olds	-11.27	0.713	-15.82		
Intercept term for 22-year-olds	-11.72	0.712	-16.46		
Intercept term for 23-year-olds	-12.04	0.713	-16.89		
Intercept term for 24-year-olds	-12.22	0.712	-17.17		
Intercept term for 25- to 29-year-olds	-13.04	0.712	-18.30		
Intercept term for 30- to 34-year-olds	-13.91	0.713	-19.51		
Intercept term for 35- to 44-year-olds		0.714	-20.15		
Log of Hispanic per capita disposable income in current dollars	0.50	0.038	13.06		
Part-time					
Intercept term for 17-year-olds	-13.43	0.707	-19.01	0.60	1.74*
Intercept term for 18-year-olds		0.546	-20.67		
Intercept term for 19-year-olds		0.549	-19.95		
Intercept term for 20-year-olds	-10.80	0.547	-19.76		
Intercept term for 21-year-olds	-10.84	0.547	-19.81		
Intercept term for 22-year-olds	-11.22	0.546	-20.53		
Intercept term for 23-year-olds	-11.21	0.550	-20.39		
Intercept term for 24-year-olds	-11.44	0.547	-20.92		
Intercept term for 25- to 29-year-olds	-11.73	0.540	-21.73		
Intercept term for 30- to 34-year-olds	-12.27	0.543	-22.60		
Intercept term for 35- to 44-year-olds		0.540	-22.72		
Log of Hispanic per capita disposable income in current dollars	0.45	0.029	15.58		

\* p < .05.

NOTE:  $R^2$  = Coefficient of determination. D.W. statistic = Durbin-Watson statistic, a test for autocorrelation among regression residuals. For more details see Johnston, J., and Dinardo, J. (1996). *Econometric Methods*. New York: McGraw-Hill. The regression method used to estimate the full-time and part-time equations was the pooled seemingly unrelated regression method. The time period used to estimate the equations is from 1980 to 2017. The number of

observations is 418. For additional information, see Intriligator, M.D. (1978). *Econometric Models, Techniques, & Applications*. New Jersey: Prentice-Hall, Inc., pp. 165–173. SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model, 1980 through 2028. (This table was prepared March 2019.)

### Table A-24. Estimated equations and model statistics for full-time and part-time enrollment rates of Hispanic females at degree-granting postsecondary institutions based on data from 1980 to 2017

Independent variable	Coefficient	Standard error	t-statistic	R²	D.W. statistic
1	2	3	4	5	6
Full-time					
Intercept term for 17-year-olds	-18.22	0.637	-28.61	0.92	1.87*
Intercept term for 18-year-olds	-15.71	0.627	-25.07		
Intercept term for 19-year-olds	-15.55	0.626	-24.85		
Intercept term for 20-year-olds	-15.86	0.626	-25.32		
Intercept term for 21-year-olds	-15.97	0.627	-25.47		
Intercept term for 22-year-olds	-16.60	0.628	-26.45		
Intercept term for 23-year-olds	-16.85	0.628	-26.85		
Intercept term for 24-vear-olds	-17.33	0.630	-27.53		
Intercept term for 25- to 29-year-olds	-18.01	0.625	-28.80		
Intercept term for 30- to 34-year-olds	-18.72	0.628	-29.82		
Intercept term for 35- to 44-year-olds	-19.08	0.629	-30.35		
Log of Hispanic per capita disposable income in current dollars	0.79	0.034	23.21		
Part-time					
Intercept term for 17-year-olds	-15.38	0.638	-24.12	0.60	1.94*
Intercept term for 18-year-olds	-13.31	0.620	-21.46		
Intercept term for 19-year-olds	-12.86	0.621	-20.73		
Intercept term for 20-year-olds	-13.12	0.622	-21.10		
Intercept term for 21-year-olds	-12.95	0.622	-20.84		
Intercept term for 22-year-olds	-13.30	0.622	-21.40		
Intercept term for 23-year-olds	-13.23	0.619	-21.39		
Intercept term for 24-vear-olds	-13.48	0.620	-21.74		
Intercept term for 25- to 29-year-olds	-13.80	0.615	-22.45		
Intercept term for 30- to 34-year-olds	-14.25	0.616	-23.15		
Intercept term for 35- to 44-year-olds	-14.13	0.615	-22.96		
Log of Hispanic per capita disposable income in current dollars	0.59	0.033	17.73		

\* p < .05.

NOTE:  $R^2$  = Coefficient of determination. D.W. statistic = Durbin-Watson statistic, a test for autocorrelation among regression residuals. For more details see Johnston, J., and Dinardo, J. (1996). *Econometric Methods*. New York: McGraw-Hill. The regression method used to estimate the full-time and part-time equations was the pooled seemingly unrelated regression method. The time period used to estimate the equations is from 1980 to 2017. The number of

observations is 418. For additional information, see Intriligator, M.D. (1978). *Econometric Models, Techniques, & Applications*. New Jersey: Prentice-Hall, Inc., pp. 165–173. SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment

table was prepared March 2019.)

#### Table A-25. Estimated equations and model statistics for full-time and part-time enrollment rates of Asian/Pacific Islander males at degreegranting postsecondary institutions based on data from 1989 to 2017

Independent variable	Coefficient	Standard error	t-statistic	R <sup>2</sup>	D.W. statistic
1	2	3	4	5	6
Full-time					
Intercept term for 17-year-olds	-3.56	0.512	-14.87	0.92	1.94*
Intercept term for 18-year-olds	-0.86	0.500	-10.11		
Intercept term for 19-year-olds	-0.61	0.502	-9.69		
Intercept term for 20-year-olds	-0.61	0.508	-9.94		
Intercept term for 21-year-olds	-0.60	0.508	-9.87		
Intercept term for 22-year-olds	-0.97	0.509	-10.48		
Intercept term for 23-year-olds	-1.25	0.509	-10.88		
Intercept term for 24-year-olds	-1.57	0.510	-11.46		
Intercept term for 25- to 29-year-olds	-2.33	0.519	-13.19		
Intercept term for 30- to 34-year-olds	-3.39	0.522	-14.98		
Intercept term for 35- to 44-year-olds	-4.26	0.525	-16.47		
Log of Asian/Pacific Islander per capita disposable income in current dollars	0.04	0.024	1.69		
Log unemployment rate for Asian/Pacific Islanders	0.19	0.039	4.86		
Part-time					
Intercept term for 17-year-olds	-1.80	0.839	-2.14	0.65	1.96*
Intercept term for 18-year-olds	-0.15	0.620	-0.24		
Intercept term for 19-year-olds	0.61	0.609	1.00		
Intercept term for 20-year-olds	0.45	0.621	0.72		
Intercept term for 21-year-olds	0.45	0.619	0.72		
Intercept term for 22-year-olds	0.41	0.624	0.66		
Intercept term for 23-year-olds	0.12	0.614	0.20		
Intercept term for 24-year-olds	0.08	0.609	0.13		
Intercept term for 25- to 29-year-olds	-0.33	0.601	-0.55		
Intercept term for 30- to 34-year-olds	-1.03	0.606	-1.70		
Intercept term for 35- to 44-year-olds	-1.23	0.600	-2.05		
Log of Asian/Pacific Islander level of educational attainment per household	0.13	0.038	3.48		

\* p < .05.

NOTE:  $R^2$  = Coefficient of determination. D.W. statistic = Durbin-Watson statistic, a test for autocorrelation among regression residuals. For more details see Johnston, J., and Dinardo, J. (1996). *Econometric Methods*. New York: McGraw-Hill. The regression method used to estimate the full-time and part-time equations was the pooled seemingly unrelated regression method. The time period used to estimate the is from 1989 to 2017. The number of observations equal to 319. For additional information, see Intriligator, M.D. (1978). Econometric Models, Techniques, & Applications. New Jersey: Prentice-Hall, Inc., pp. 165–173. Race categories exclude persons of Hispanic ethnicity.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions by Race/Ethnicity Projection Model, 1989 through 2028. (This table was prepared March 2019.)

#### Table A-26. Estimated equations and model statistics for full-time and part-time enrollment rates of Asian/Pacific Islander females at degreegranting postsecondary institutions based on data from 1989 to 2017

Independent variable	Coefficient	Standard error	t-statistic	R <sup>2</sup>	D.W. statistic
1	2	3	4	5	6
Full-time					
Intercept term for 17-year-olds Intercept term for 18-year-olds	-6.03	0.583	-10.34	0.97	1.85*
Intercept term for 18-year-olds	-3.62	0.570	-6.35		
Intercept term for 19-year-olds	-3.15	0.574	-5.49		
Intercept term for 20-year-olds	-3.36	0.572	-5.88		
Intercept term for 21-year-olds	-3.42	0.570	-5.99		
Intercept term for 22-year-olds		0.572	-6.91		
Intercept term for 23-year-olds	-4.27	0.571	-7.49		
Intercept term for 24-vear-olds	-4.76	0.578	-8.23		
Intercept term for 25- to 29-year-olds	-5.70	0.569	-10.02		
Intercept term for 30- to 34-year-olds	-6.93	0.572	-12.12		
Intercept term for 35- to 44-year-olds	-7.50	0.572	-13.11		
Log of Asian/Pacific Islander per capita disposable income in current dollars	0.18	0.029	6.06		
Part-time					
Intercept term for 17-year-olds	0.93	0.271	3.44	0.68	2.02*
Intercept term for 18-year-olds	-2.25	0.874	-2.58		
Intercept term for 19-year-olds	-0.76	0.858	-0.89		
Intercept term for 20-year-olds		0.871	-0.14		
Intercept term for 21-year-olds	-0.34	0.864	-0.40		
Intercept term for 22-year-olds	0.20	0.855	0.23		
Intercept term for 23-year-olds	-0.22	0.859	-0.26		
Intercept term for 24-year-olds	-0.37	0.853	-0.44		
Intercept term for 25- to 29-year-olds	-0.42	0.857	-0.49		
Intercept term for 30- to 34-year-olds	-0.97	0.847	-1.14		
Intercept term for 35- to 44-year-olds	-1.59	0.848	-1.87		
Log of Asian/Pacific Islander per capita disposable income in current dollars	0.69	0.192	3.59		
Log of Asian/Pacific Islander level of educational attainment per household	0.93	0.271	3.44		

<sup>&</sup>lt;sup>•</sup>р < .05.

NOTE:  $R^2$  = Coefficient of determination. D.W. statistic = Durbin-Watson statistic, a test for autocorrelation among regression residuals. For more details see Johnston, J., and Dinardo, J. (1996). *Econometric Methods*. New York: McGraw-Hill. The regression method used to estimate the full-time and part-time equations was the pooled seemingly unrelated regression method. The time period used to estimate the equations is from 1989 to 2017. The number of observations is 319. For additional information, see Intriligator, M.D. (1978). *Econometric Models, Techniques, & Applications*. New Jersey: Prentice-Hall, Inc., pp. 165–173. Race categories exclude persons of Hispanic ethnicity.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions by Race/Ethnicity Model, 1989–2017. (This table was prepared March 2019.)

### A.6. POSTSECONDARY DEGREES CONFERRED

#### **Projections in this edition**

This edition of *Projections of Education Statistics* presents projections of postsecondary degrees conferred by level of degree and sex of recipient for 2017–18 through 2028–29.

#### **Overview of approach**

#### Basic approach

The Degrees Conferred Projections Model uses single exponential smoothing to project separate ratios of associate's, bachelor's, master's, and doctor's degrees by sex to the relevant enrollment by sex. For associate's degrees, the relevant enrollment is undergraduate enrollment in 2-year institutions; for bachelor's degrees, it is undergraduate enrollment in 4-year institutions; and for both master's and doctor's degrees, it is graduate enrollment in 4-year institutions. The Model applies the projected ratios to projections of the relevant enrollment that was produced by the Enrollment in Degree-Granting Institutions Projection Model.

#### **Degrees Conferred Projection Model**

#### Procedures used to project degrees

For all degree levels, projections of degrees conferred were made separately for males and for females. The projections for males and females were then summed to get projections of the total number of degrees.

**Associate's degrees.** *Projections were based on undergraduate enrollment in 2-year institutions by sex.* First, for 2002–03 through 2016–17, the ratio on associate's degrees to undergraduate enrollment in 2-year institutions was calculated for males and females. Next, the ratios for males and females were projected using single exponential smoothing where each smoothing constant was chosen to minimize the sum of squared forecast errors. The projected ratios were applied to projections of undergraduate enrollment in 2-year institutions by sex from the Enrollment in Degree-Granting Institutions Model to yield projections of associate's degrees.

**Bachelor's degrees.** *Projections were based on undergraduate enrollment in 4-year institutions by sex.* First, for 2002–03 through 2016–17, the ratio on bachelor's degrees to undergraduate enrollment in 4-year institutions was calculated for males and females. Next, the ratios for males and females were projected using single exponential smoothing where each smoothing constant was chosen to minimize the sum of squared forecast errors. The projected ratios were applied to projections of undergraduate enrollment in 4-year institutions by sex from the Enrollment in Degree-Granting Institutions Model to yield projections of bachelor's degrees.

**Master's degrees.** *Projections were based on graduate enrollment in 4-year institutions by sex.* First, for 2002–03 through 2016–17, the ratio on master's degrees to graduate enrollment in 4-year institutions was calculated for males and females. Next, the ratios for males and females were projected using single exponential smoothing where each smoothing constant was chosen to minimize the sum of squared forecast errors. The projected ratios were applied to projections of graduate enrollment in 4-year institutions Model to yield projections of master's degrees.

**Doctor's degrees.** *Projections were based on graduate enrollment in 4-year institutions by sex.* First, for 2002–03 through 2016–17, the ratio on doctor's degrees to graduate enrollment in 4-year institutions was calculated for males and females. Next, the ratios for males and females were projected using single exponential smoothing where each smoothing constant was chosen to minimize the sum of squared forecast errors. The projected ratios were applied to projections of graduate enrollment in 4-year institutions Model to yield projections of doctor's degrees.

#### Data and equations used to project degrees

**Enrollment data and projections for degree-granting institutions.** Historical enrollment data by sex, level of student, and level of institution from 2002–03 to 2017–18 came from the NCES Integrated Postsecondary Education Data System (IPEDS). The enrollment projections used are those produced for this edition of *Projections of Education Statistics*. For more information about the enrollment projections, see Section A.5. Enrollment in Degree-granting postsecondary Institutions, earlier in this appendix.

**Data on degrees awarded at all levels.** Historical data by level of degree and sex of recipient from 2002–03 to 2016–17 came from the NCES Integrated Postsecondary Education Data System (IPEDS).

#### Accuracy of projections

No MAPEs were calculated for degrees conferred because this is the second edition of *Projections of Education Statistics* to use the current models. For information concerning the accuracy of the previous models used to produce projections of degrees conferred, see page 125 of *Projections of Education Statistics to 2026*.

# Appendix B Supplementary Tables

#### Table B-1. Actual and projected prekindergarten- and kindergarten-age populations, by age: 2003 through 2028

[In tl	nousands]
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Year (July 1)	3- to 5-year-olds	3-year-olds	4-year-olds	5-year-olds
1	2	3	4	5
Actual				
2003	11,501	3,861	3,817	3.824
2004	11.714	4.008	3.877	3.830
2005	11,866	3,943	4,030	3,893
2006	11,987	3,966	3,971	4,051
2007	11,996	4,004	3,998	3,993
2008	12,058	3,992	4,041	4.024
2009	12,129	4.026	4,033	4.070
2010	12,253	4.112	4.077	4.064
2011	12,310	4.102	4.121	4.087
2012	12,224	3,981	4,111	4,131
2013	12,105	3,991	3,992	4.122
2014	12.013	4.005	4.004	4.004
2015	12,009	3,973	4.019	4.017
2016	12.002	3.981	3,988	4.033
2017	12.004	4.007	3,996	4.001
2018	12,068	4,038	4,021	4,009
Projected				
2019	12.093	4,025	4,037	4.031
2020	12.184	4.113	4.024	4.046
2021	12,281	4.135	4.113	4.034
2022	12,413	4,155	4,135	4,123
2023	12,474	4,173	4,155	4,145
2024	12.527	4.188	4.173	4.165
2025	12.572	4.200	4.188	4.183
2026	12,608	4.209	4,200	4.198
2027	12,636	4,216	4,200	4.211
2028	12,658	4,210	4,203	4.220

NOTE: Some data have been revised from previously published figures. Detail may not sum to totals because of rounding. As the Census Bureau projections were not updated to reflect the most recent Census Bureau population estimates, the Census Bureau age-specific population projections for each year were adjusted by multiplying the ratio of the total Census Bureau estimate for 2018 to the total Census Bureau projection for 2018.

SOURCE: U.S. Department of Commerce, Census Bureau, Population Estimates, retrieved July 19, 2018 from <u>https://www2.census.gov/programs-surveys/popest/datasets/2010-2017/;</u> and Population Projections, retrieved October 10, 2018, from <u>https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html</u>. (This table was prepared March 2019.)

#### Table B-2. Actual and projected school-age populations, by selected ages: 2003 through 2028

[In thousands]

Year (July 1)	5-year-olds	6-year-olds	5- to 13-year-olds	14- to 17-year-olds
1	2	3	4	5
Actual				
2003	3,824	3,838	36,814	16,694
2004	3,830	3,822	36,458	17,054
2005	3,893	3,828	36,248	17,358
2006	4,051	3,891	36,269	17,549
2007	3,993	4,046	36,296	17,597
2008	4,024	3,988	36,438	17,395
2009	4,070	4,018	36,657	17,232
2010	4,064	4,073	36,866	17,066
2011	4,087	4,075	36,916	16,872
2012	4,131	4,097	37,004	16,722
2013	4,122	4,141	37,073	16,653
2014	4,004	4,133	36,952	16,748
2015	4,017	4,017	36,902	16,810
2016	4,033	4,029	36,960	16,779
2017	4,001	4,046	36,955	16,761
2018	4,009	4,014	36,915	16,700
Projected				
2019	4,031	4,019	36,875	16,685
2020	4,046	4,040	36,826	16,783
2021	4,034	4,056	36,719	16,899
2022	4,123	4,043	36,708	16,967
2023	4,145	4,133	36,836	16,914
2024	4,165	4,155	36,976	16,847
2025	4,183	4,175	37,120	16,748
2026	4,198	4,193	37,316	16,620
2027	4,211	4,208	37,520	16,615
2028	4,220	4,221	37,712	16,621

NOTE: Some data have been revised from previously published figures. Detail may not sum to totals because of rounding. As the Census Bureau projections were not updated to reflect the most recent Census Bureau population estimates, the Census Bureau age-specific population projections for each year were adjusted by multiplying the ratio of the total Census Bureau estimate for 2018 to the total Census Bureau projection for 2018.

SOURCE: U.S. Department of Commerce, Census Bureau, Population Estimates, retrieved July 19, 2018 from <u>https://www2.census.gov/programs-surveys/popest/datasets/2010-2017/;</u> and Population Projections, retrieved October 10, 2018, from <u>https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html</u>. (This table was prepared March 2019.)

#### Table B-3. Actual and projected college-age populations, by selected ages: 2003 through 2028

[In thousands]					
Year (July 1)	18-year-olds	18- to 24-year-olds	25- to 29-year-olds	30- to 34-year-olds	35- to 44-year-olds
1	2	3	4	5	6
Actual           2003	4,206 4,218 4,228 4,303 4,397 4,590 4,537 4,492 4,403 4,360 4,294 4,224	29,121 29,474 29,609 29,758 29,973 30,355 30,687 30,915 31,230 31,495 31,601 31,525	18,872 19,193 19,629 20,200 20,640 21,003 21,184 21,248 21,391 21,379 21,658 22,034	20,545 20,220 19,787 19,343 19,231 19,365 19,708 20,132 20,586 20,975 21,336 21,570	44,251 43,881 43,594 43,325 42,879 42,275 41,573 41,065 40,732 40,612 40,612 40,558 40,558
2015 2016 2017 2018 Projected	4,214 4,224 4,242 4,329	31,238 30,930 30,693 30,633	22,483 22,984 23,423 23,672	21,694 21,879 22,009 22,223	40,568 40,593 40,917 41,436
2019           2020           2021           2022           2023	4,280 4,192 4,221 4,264 4,268 4,293	30,562 30,463 30,461 30,511 30,558 30,615	23,763 23,582 23,295 23,052 22,905 22,905 22,811	22,622 23,081 23,595 24,052 24,323 24,323	41,954 42,506 43,163 43,707 44,308
2024	4,293 4,340 4,334 4,218 4,229	30,615 30,637 30,703 30,739 30,756	22,811 22,859 22,926 22,916 22,928	24,424 24,254 23,979 23,747 23,610	44,959 45,555 46,267 46,873 47,378

NOTE: Some data have been revised from previously published figures. Detail may not sum to totals because of rounding. As the Census Bureau projections were not updated to reflect the most recent Census Bureau population estimates, the Census Bureau age-specific population projections for each year were adjusted by multiplying the ratio of the total Census Bureau estimate for 2018 to the total Census Bureau projection for 2018.

SOURCE: U.S. Department of Commerce, Census Bureau, Population Estimates, retrieved July 19, 2018 from <u>https://www2.census.gov/programs-surveys/popest/datasets/2010-2017/;</u> and Population Projections, retrieved October 10, 2018, from <u>https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html</u>. (This table was prepared March 2019.)

## Table B-4. Actual and projected fall enrollment in public elementary and secondary schools, change in fall enrollment from previous year, resident population, and fall enrollment as a ratio of the population: School years 2003–2004 through 2028–29

School year	Fall enrollment (in thousands)	Change in fall enrollment from previous year (in thousands)	Resident population (in millions)	Fall enrollment as a ratio of the population
1	2	3	4	5
Actual 2003-04 2004-05 2005-06 2006-07 2007-08		357 255 318 203 -25	290.6 293.2 295.9 298.8 301.7	0.167 0.166 0.166 0.165 0.163
2008-09           2009-10           2010-11           2011-12           2012-13	49,266	-25	304.5	0.162
	49,361	95	307.2	0.161
	49,484	123	309.8	0.160
	49,522	37	312.1	0.159
	49,771	249	314.3	0.158
2013–14	50,045	273	316.5	0.158
2014–15	50,313	268	318.9	0.158
2015–16	50,438	125	321.3	0.157
2016–17	50,615	177	323.6	0.156
Projected           2017-18           2018-19           2019-20           2020-21           2021-22	50,695	80	325.9	0.156
	50,728	33	328.3	0.155
	50,770	42	330.6	0.154
	50,857	87	333.0	0.153
	50,892	35	335.4	0.152
2022–23         2023–24         2024–25         2025–26         2026–27	51,098	120 86 26 -5 4	337.7 340.0 342.3 344.6 346.9	0.151 0.150 0.149 0.148 0.147
2027–28	51,228	105	349.1	0.147
2028–29	51,419	191	351.3	0.146

NOTE: Resident population includes civilian population and armed forces personnel residing with the United States: it excludes armed forces personnel overseas. Calculations were made using unrounded numbers. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding. As the Census Bureau projections were not updated to reflect the most recent Census Bureau population estimates, the Census Bureau age-specific population projections for each year were adjusted by multiplying the ratio of the total Census Bureau estimate for 2018 to the total Census Bureau projection for 2018. SOURCE: U.S. Department of Commerce, Census Bureau, Population Estimates, retrieved July 19, 2018 from <a href="https://www2.census.gov/programs-surveys/popest/datasets/2010-2017/;">https://www2.census.gov/programs-surveys/popest/datasets/2010-2017/;</a>; and Population Projections, retrieved October 10, 2018, from <a href="https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html">https://www.census.gov/programs-surveys/popest/datasets/2010-2017/;</a>; and Population Projections, retrieved October 10, 2018, from <a href="https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html">https://www.census.gov/data</a>; datasets/2017/demo/popproj/2017-popproj.html</a>. U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 1996–97 through 2015–16; and National Elementary and Secondary Enrollment Projection Model, 1972 through 2028. (This table was prepared March 2019.)

#### Table B-5. Actual and projected macroeconomic measures of the economy: School years 2003-2004 through 2028-29

School year	Disposable income per capita in constant 2017–18 dollars <sup>1</sup>	Education revenue receipts from state sources per capita in constant 2017–18 dollars <sup>2</sup>	Consumer Price Index <sup>3</sup>
1	2	3	4
Actual 2003-04 2004-05 2005-06 2006-07 2007-08	\$38,666 39,247 39,956 40,859 41,154	\$997 1,000 1,020 1,072 1,098	0.750 0.773 0.802 0.823 0.853
2008-09           2009-10           2010-11           2011-12           2012-13	40,805 40,585 41,509 42,166 42,351	1,050 964 967 940 932	0.865 0.874 0.891 0.917 0.933
2013–14 2014–15 2015–16 2016–17 <sup>4</sup> 2017–18 <sup>4</sup>	42,468 44,123 45,038 45,545 46,480	963 991 1,033 1,043 1,060	0.947 0.954 0.960 0.978 1.000
Projected 2018–19 2019–20 2020–21 2021–22 2021–22 2022–23	47,379 48,292 49,088 49,775 50,409	1,073 1,086 1,097 1,104 1,113	1.022 1.046 1.068 1.093 1.119
2023-24         2024-25         2025-26         2026-27         2027-28         2028-29	50,944 51,541 52,305 53,142 54,044 54,656	1,117 1,121 1,128 1,136 1,148 1,157	1.145 1.171 1.196 1.222 1.249 1.270

<sup>1</sup>Based on the price deflator for personal consumption expenditures, Bureau of Labor Statistics,

U.S. Department of Labor.
 <sup>2</sup>Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.

<sup>4</sup>Consumer Price Index adjusted to a school-year basis (July through June). <sup>4</sup>Education revenue receipts from state sources per capita is a projection. NOTE: Calculations were made using unrounded numbers. Some data have been revised from

previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "National Public Education Financial Survey," 2003–04 through 2015–16; Revenue Receipts From State Sources Projections Model, 1971–72 through 2028–29; and IHS Global Inc., "U.S. Quarterly Macroeconomic Model, December 2018 Short-Term Baseline Projections." (This table was prepared March 2019.)

# Appendix C Data Sources

### SOURCES AND COMPARABILITY OF DATA

The information in this report was obtained from many sources, including federal and state agencies, private research organizations, and professional associations. The data were collected by many methods, including surveys of a universe (such as all colleges) or of a sample, and compilations of administrative records. Care should be used when comparing data from different sources. Differences in procedures, such as timing, phrasing of questions, and interviewer training, mean that the results from the different sources are not strictly comparable. More extensive documentation of one survey's procedures than of another's does not imply more problems with the data, only that more information is available on the survey.

#### ACCURACY OF DATA

The accuracy of any statistic is determined by the joint effects of "sampling" and "nonsampling" errors. Estimates based on a sample will differ from the figures that would have been obtained if a complete census had been taken using the same survey instruments, instructions, and procedures. Besides sampling errors, both of the survey types, universe and sample, are subject to errors of design, reporting, and processing, and errors due to nonresponse. To the extent possible, these nonsampling errors are kept to a minimum by methods built into the survey procedures. In general, however, the effects of nonsampling errors are more difficult to gauge than those produced by sampling variability.

#### **SAMPLING ERRORS**

The standard error is the primary measure of the sampling variability of an estimate. Standard errors can be used to produce confidence intervals. For example, from table A-11, an estimated 93.1 percent of public school teachers reported that they worked full time in 2011–12. This figure has an estimated standard error of 0.46 percent. Therefore, the estimated 95 percent confidence interval for this statistic is approximately 92.15 to 93.98 percent (93.1  $\pm$  1.96 [0.46]). That is, if the processes of selecting a sample, collecting the data, and constructing the confidence interval were repeated, it would be expected that in 95 out of 100 samples from the same population, the confidence interval would contain the true full-time working rate.

Analysis of standard errors can help assess how valid a comparison between two estimates might be. The *standard error of a difference* between two independent sample estimates is equal to the square root of the sum of the squared standard errors of the estimates. The standard error (*se*) of the difference between independent sample estimates a and b is

$$se_{a-b} = (se_a^2 + se_b^2)^{1/2}$$

Note that some of the standard errors in the original documents are approximations. That is, to derive estimates of standard errors that would be applicable to a wide variety of items and could be prepared at a moderate cost, a number of approximations were required. As a result, most of the standard errors presented provide a general order of magnitude rather than the exact standard error for any specific item.

#### **NONSAMPLING ERRORS**

Both universe and sample surveys are subject to nonsampling errors. Nonsampling errors are of two kinds: random and nonrandom. Random nonsampling errors may arise when respondents or interviewers interpret questions differently, when respondents must estimate values, or when coders, keyers, and other processors handle answers differently. Nonrandom nonsampling errors result from total nonresponse (no usable data obtained for a sampled unit), partial or item nonresponse (only a portion of a response may be usable), inability or unwillingness on the part of respondents to provide information,

difficulty interpreting questions, mistakes in recording or keying data, errors of collection or processing, and overcoverage or undercoverage of the target universe. Random nonresponse errors usually, but not always, result in an understatement of sampling errors and thus an overstatement of the precision of survey estimates. Because estimating the magnitude of nonsampling errors would require special experiments or access to independent data, these magnitudes are seldom available.

To compensate for suspected nonrandom errors, adjustments of the sample estimates are often made. For example, adjustments are frequently made for nonresponse, both total and partial. Imputations are usually made separately within various groups of sample members that have similar survey characteristics. Imputation for item nonresponse is usually made by substituting for a missing item the response to that item of a respondent having characteristics similar to those of the respondent.

Although the magnitude of nonsampling errors in the data used in *Projections of Education Statistics* is frequently unknown, idiosyncrasies that have been identified are noted on the appropriate tables.

### FEDERAL AGENCY SOURCES

### National Center for Education Statistics (NCES)

#### Common Core of Data

The Common Core of Data (CCD) is NCES's primary database on public elementary and secondary education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts containing data designed to be comparable across all states. This database can be used to select samples for other NCES surveys and provide basic information and descriptive statistics on public elementary and secondary schools and schooling in general.

The CCD collects statistical information annually from approximately 100,000 public elementary and secondary schools and approximately 18,000 public school districts (including supervisory unions and regional education service agencies) in the 50 states, the District of Columbia, the Department of Defense Education Activity (DoDEA), the Bureau of Indian Education (BIE), Puerto Rico, American Samoa, Guam, the Northern Mariana Islands, and the U.S. Virgin Islands. Three categories of information are collected in the CCD survey: general descriptive information on schools and school districts; data on students and staff; and fiscal data. The general school and district descriptive information includes name, address, phone number, and type of locale; the data on students and staff include selected demographic characteristics; and the fiscal data pertain to revenues and current expenditures.

The ED*Facts* data collection system is the primary collection tool for the CCD. NCES works collaboratively with the U.S. Department of Education's Performance Information Management Service to develop the CCD collection procedures and data definitions. Coordinators from state education agencies (SEAs) submit the CCD data at different levels (school, agency, and state) to the ED*Facts* collection system. Prior to submitting CCD files to ED*Facts*, SEAs must collect and compile information from their respective local education agencies (LEAs) through established administrative records systems within their state or jurisdiction.

Once SEAs have completed their submissions, the CCD survey staff analyzes and verifies the data for quality assurance. Even though the CCD is a universe collection and thus not subject to sampling errors, nonsampling errors can occur. The two potential sources of nonsampling errors are nonresponse and inaccurate reporting. NCES attempts to minimize nonsampling errors through the use of annual training of SEA coordinators, extensive quality reviews, and survey editing procedures. In addition, each year, SEAs are given the opportunity to revise their state-level aggregates from the previous survey cycle.

The CCD survey consists of five components: The Public Elementary/Secondary School Universe Survey, the Local Education Agency (School District) Universe Survey, the State Nonfiscal Survey of Public Elementary/Secondary Education, the National Public Education Financial Survey (NPEFS), and the School District Finance Survey (F-33). The following sections describe the CCD surveys that were used in preparing this report.

#### State Nonfiscal Survey of Public Elementary/Secondary Education

The State Nonfiscal Survey of Public Elementary/Secondary Education for the 2016–17 school year provides state-level, aggregate information about students and staff in public elementary and secondary education. It includes data from the 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, the Northern Mariana Islands, Guam, and American Samoa. The DoDEA and the BIE are also included in the survey universe. This survey covers public school student membership by grade, race/ethnicity, and state or jurisdiction and covers number of staff in public schools by category and state or jurisdiction. Beginning with the 2006–07 school year, the number of diploma recipients and other high school completers are no longer included in the State Nonfiscal Survey of Public Elementary/Secondary Education file. These data are now published in the public-use CCD State Dropout and Completion Data File.

#### National Public Education Financial Survey

The purpose of the National Public Education Financial Survey (NPEFS) is to provide district, state, and federal policymakers, researchers, and other interested users with descriptive information about revenues and expenditures for public elementary and secondary education. The data collected are useful to (1) chief officers of state education agencies; (2) policymakers in the executive and legislative branches of federal and state governments; (3) education policy and public policy researchers; and (4) the public, journalists, and others.

Data for NPEFS are collected from SEAs in the 50 states, the District of Columbia, Puerto Rico, American Samoa, Guam, the Northern Mariana Islands, and the U.S. Virgin Islands. The data file is organized by state or jurisdiction and contains revenue data by funding source; expenditure data by function (the activity being supported by the expenditure) and object (the category of expenditure); average daily attendance data; and total student membership data from the CCD State Nonfiscal Survey of Public Elementary/Secondary Education.

Further information on the nonfiscal CCD data may be obtained from

Patrick Keaton Elementary and Secondary Branch Administrative Data Division National Center for Education Statistics 550 12th Street SW Washington, DC 20202 <u>patrick.keaton@ed.gov</u> <u>https://nces.ed.gov/ccd</u>

Further information on the fiscal CCD data may be obtained from

Stephen Cornman Elementary and Secondary Branch Administrative Data Division National Center for Education Statistics 550 12th Street SW Washington, DC 20202 <u>stephen.cornman@ed.gov</u> <u>https://nces.ed.gov/ccd</u>

#### Integrated Postsecondary Education Data System

The Integrated Postsecondary Education Data System (IPEDS) surveys approximately 6,000 postsecondary institutions, including universities and colleges, as well as institutions offering technical and vocational education beyond the high school level. IPEDS, an annual universe collection that began in 1986, replaced the Higher Education General Information Survey (HEGIS).

IPEDS consists of 12 interrelated survey components that provide information on postsecondary institutions and academic libraries at these institutions, student enrollment, student financial aid, programs offered, retention and graduation rates, degrees and certificates conferred, and the human and financial resources involved in the provision of institutionally based postsecondary education. Prior to 2000, the IPEDS survey had the following subject-matter components: Institutional Characteristics; Total Institutional Activity (these data were moved to the Institutional Characteristics component in 1990–91, then to the Fall Enrollment component in 2000–01); Fall Enrollment; Fall Staff; Salaries, Tenure, and Fringe

Benefits of Full-Time Faculty; Completions; Finance; Academic Libraries (in 2000, the Academic Libraries component separated from the IPEDS collection); and Graduation Rates. Since 2000, IPEDS survey components occurring in a particular collection year have been organized into three seasonal collection periods: fall, winter, and spring. The Institutional Characteristics and Completions components first took place during the fall 2000 collection. The Employees by Assigned Position (EAP); Salaries, Tenure, and Fringe Benefits of Full-Time Faculty; and Fall Staff components first took place during the winter 2001–02 collection. The Fall Enrollment, Student Financial Aid, Finance, and Graduation Rates components first took place during the spring 2001 collection. In the winter 2005–06 data collection, the EAP; Fall Staff; and Salaries, Tenure, and Fringe Benefits of Full-Time Faculty components were merged into the Human Resources component. During the 2007–08 collection year, the Fall Enrollment component was broken into two components: 12-Month Enrollment (taking place in the fall collection) and Fall Enrollment (taking place in the spring collection). In the 2011–12 IPEDS data collection year, the Student Financial Aid component was moved to the winter data collection to aid in the timing of the net price of attendance calculations displayed on the College Navigator (https://nces.ed.gov/ collegenavigator/). In the 2012–13 IPEDS data collection year, the Human Resources component was moved from the winter data collection to the spring data collection, and in the 2013–14 data collection year, the Graduation Rates and Graduation Rates 200 Percent components were moved from the spring data collection to the winter data collection. In the 2014–15 data collection year, a new component (Admissions) was added to IPEDS and a former IPEDS component (Academic Libraries) was reintegrated into IPEDS. The Admissions component, created out of admissions data contained in the fall collection's Institutional Characteristics component, was made a part of the winter collection. The Academic Libraries component, after having been conducted as a survey independent of IPEDS between 2000 and 2012, was reintegrated into IPEDS as part of the spring collection. Finally, in the 2015–16 data collection year, the Outcomes Measure survey component was added to IPEDS.

Beginning in 2008–09, the first-professional degree category was combined with the doctor's degree category. However, some degrees formerly identified as first-professional that take more than two full-time-equivalent academic years to complete, such as those in Theology (M.Div, M.H.L./Rav), are included in the master's degree category. Doctor's degrees were broken out into three distinct categories: research/scholarship, professional practice, and other doctor's degrees.

The collection of race/ethnicity data also changed in 2008–09. IPEDS now collects a count of students who identify as Hispanic and counts of non-Hispanic students who identify with each race category. The "Asian" race category is now separate from the "Native Hawaiian or Other Pacific Islander" category, and a new category of "Two or more races" has been added.

The degree-granting institutions portion of IPEDS is a census of colleges that award associate's or higher degrees and are eligible to participate in Title IV financial aid programs. Prior to 1993, data from technical and vocational institutions were collected through a sample survey. Beginning in 1993, all data are gathered in a census of all postsecondary institutions. Beginning in 1997, the survey was restricted to institutions participating in Title IV programs.

The classification of institutions offering college and university education changed as of 1996. Prior to 1996, institutions that had courses leading to an associate's or higher degree or that had courses accepted for credit toward those degrees were considered higher education institutions. Higher education institutions were accredited by an agency or association that was recognized by the U.S. Department of Education or were recognized directly by the Secretary of Education. The newer standard includes institutions that award associate's or higher degrees and that are eligible to participate in Title IV federal financial aid programs. Tables that contain any data according to this standard are titled "degree-granting" institutions. Time-series tables may contain data from both series, and they are noted accordingly. The impact of this change on data collected in 1996 was not large. Also, degrees awarded at the bachelor's level or higher were not heavily affected. The largest impact was on private 2-year college enrollment. In contrast, most of the data on public 4-year colleges were affected to a minimal extent. The impact on enrollment in public 2-year colleges was noticeable in certain states, such as Arizona, Arkansas, Georgia, Louisiana, and Washington, but was relatively small at the national level. Overall, total enrollment for all institutions was about one-half of 1 percent higher in 1996 for degree-granting institutions than for higher education institutions.

Prior to the establishment of IPEDS in 1986, HEGIS acquired and maintained statistical data on the characteristics and operations of institutions of higher education. Implemented in 1966, HEGIS was an annual universe survey of institutions accredited at the college level by an agency recognized by the Secretary of the U.S. Department of Education. These institutions were listed in NCES's *Education Directory, Colleges and Universities*.

HEGIS surveys collected information on institutional characteristics, faculty salaries, finances, enrollment, and degrees. Since these surveys, like IPEDS, were distributed to all higher education institutions, the data presented are not subject to sampling error. However, they are subject to nonsampling error, the sources of which varied with the survey instrument.

The NCES Taskforce for IPEDS Redesign recognized that there were issues related to the consistency of data definitions as well as the accuracy, reliability, and validity of other quality measures within and across surveys. The IPEDS redesign in 2000 provided institution-specific web-based data forms. While the new system shortened data processing time and provided better data consistency, it did not address the accuracy of the data provided by institutions.

Beginning in 2003–04 with the Prior Year Data Revision System, prior-year data have been available to institutions entering current data. This allows institutions to make changes to their prior-year entries either by adjusting the data or by providing missing data. These revisions allow the evaluation of the data's accuracy by looking at the changes made.

NCES conducted a study (NCES 2005-175) of the 2002–03 data that were revised in 2003–04 to determine the accuracy of the imputations, track the institutions that submitted revised data, and analyze the revised data they submitted. When institutions made changes to their data, it was assumed that the revised data were the "true" data. The data were analyzed for the number and type of institutions making changes, the type of changes, the magnitude of the changes, and the impact on published data.

Because NCES imputes for missing data, imputation procedures were also addressed by the Redesign Taskforce. For the 2003–04 assessment, differences between revised values and values that were imputed in the original files were compared (i.e., revised value minus imputed value). These differences were then used to provide an assessment of the effectiveness of imputation procedures. The size of the differences also provides an indication of the accuracy of imputation procedures. To assess the overall impact of changes on aggregate IPEDS estimates, published tables for each component were reconstructed using the revised 2002–03 data. These reconstructed tables were then compared to the published tables to determine the magnitude of aggregate bias and the direction of this bias.

Since the 2000–01 data collection year, IPEDS data collections have been web based. Data have been provided by "keyholders," institutional representatives appointed by campus chief executives, who are responsible for ensuring that survey data submitted by the institution are correct and complete. Because Title IV institutions are the primary focus of IPEDS and because these institutions are required to respond to IPEDS, response rates for Title IV institutions have been high (data on specific components are cited below). More details on the accuracy and reliability of IPEDS data can be found in the *Integrated Postsecondary Education Data System Data Quality Study* (NCES 2005-175).

Further information on IPEDS may be obtained from

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#### Fall (12-Month Enrollment)

The 12-month period during which data are collected is July 1 through June 30. Data are collected by race/ethnicity, gender, and level of study (undergraduate or postbaccalaureate) and include unduplicated headcounts and instructional activity (contact or credit hours). These data are also used to calculate a full-time-equivalent (FTE) enrollment based on instructional activity. FTE enrollment is useful for gauging the size of the educational enterprise at the institution. Prior to the 2007–08 IPEDS data collection, the data collected in the 12-Month Enrollment component were part of the Fall Enrollment component, which is conducted during the spring data collection period. However, to improve the timeliness of the data, a separate 12-Month Enrollment survey component was developed in 2007. These data are now collected in the fall for the previous academic year. The response rate for the 12-Month Enrollment component of the fall 2016 data

collection was nearly 100 percent. Data from only 5 of 6,635 Title IV institutions that were expected to respond to this component contained item nonresponse, and these missing items were imputed.

Further information on the IPEDS 12-Month Enrollment component may be obtained from

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#### Fall (Completions)

This survey was part of the HEGIS series throughout its existence. However, the degree classification taxonomy was revised in 1970–71, 1982–83, 1991–92, 2002–03, and 2009–10. Collection of degree data has been maintained through IPEDS.

Degrees-conferred trend tables arranged by the 2009–10 classification are included in the *Projections of Education Statistics* to provide consistent data from 1970–71 through the most recent year. Data on associate's degrees, by field of study, cannot be made comparable with figures from years prior to 1982–83. The nonresponse rate does not appear to be a significant source of nonsampling error for this survey. The response rate over the years has been high; for the fall 2016 Completions component, it rounded to 100 percent. Data from 3 of the 6,642 Title IV institutions that were expected to respond to this component were imputed due to unit nonresponse. Imputation methods for the fall 2017 IPEDS Completions component are discussed in the *2017–18 Integrated Postsecondary Education Data System (IPEDS) Methodology Report* (NCES 2018-195).

Further information on the IPEDS Completions component may be obtained from

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#### Spring (Fall Enrollment)

This survey has been part of the HEGIS and IPEDS series since 1966. Response rates have been relatively high, generally exceeding 85 percent. Beginning in 2000, with web-based data collection, higher response rates were attained. In the spring 2018 data collection, in which the Fall Enrollment component covered student enrollment in fall 2017, the response rate was greater than 99 percent. Of the 6,617 institutions that were expected to respond, 33 institutions did not respond, and these data were imputed. Additionally, data from eight institutions that responded contained item nonresponse, and these missing items were imputed. Data collection procedures for the Fall Enrollment component of the spring 2017 data collection are presented in *Enrollment and Employees in Postsecondary Institutions, Fall 2017; and Financial Statistics and Academic Libraries, Fiscal Year 2017: First Look (Provisional Data)* (NCES 2019-021rev).

Beginning with the fall 1986 survey and the introduction of IPEDS (see above), a redesign of the survey resulted in the collection of data by race/ethnicity, gender, level of study (i.e., undergraduate and graduate), and attendance status (i.e., full-time and part-time). Other aspects of the survey include allowing (in alternating years) for the collection of age and residence data. The Fall Enrollment component also collects data on first-time retention rates, student-to-faculty ratios, and student enrollment in distance education courses. Finally, in even-numbered years, 4-year institutions provide enrollment data by level of study, race/ethnicity, and gender for nine selected fields of study or Classification of Instructional Programs (CIP) codes. (The CIP is a taxonomic coding scheme that contains titles and descriptions of primarily postsecondary instructional programs.)

Beginning in 2000, the survey collected instructional activity and unduplicated headcount data, which are needed to compute a standardized, full-time-equivalent (FTE) enrollment statistic for the entire academic year. As of 2007–08, the timeliness of the instructional activity data has been improved by collecting these data in the fall as part of the 12-Month Enrollment component instead of in the spring as part of the Fall Enrollment component.

Further information on the IPEDS Fall Enrollment component may be obtained from

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#### National Teacher and Principal Survey

The National Teacher and Principal Survey (NTPS) is a set of related questionnaires that collect descriptive data on the context of elementary and secondary education. Data reported by schools, principals, and teachers provide a variety of statistics on the condition of education in the United States that may be used by policymakers and the general public. The NTPS system covers a wide range of topics, including teacher demand, teacher and principal characteristics, teachers' and principals' perceptions of school climate and problems in their schools, teacher and principal compensation, district hiring and retention practices, general conditions in schools, and basic characteristics of the student population.

The NTPS was first conducted during the 2015–16 school year. The survey is a redesign of the Schools and Staffing Survey (SASS), which was conducted from the 1987–88 school year to the 2011–12 school year. Although the NTPS maintains the SASS survey's focus on schools, teachers, and administrators, the NTPS has a different structure and sample than SASS. In addition, whereas SASS operated on a 4-year survey cycle, the NTPS operates on a 2-year survey cycle.

The school sample for the 2015–16 NTPS was based on an adjusted public school universe file from the 2013–14 Common Core of Data (CCD), a database of all the nation's public school districts and public schools. The NTPS definition of a school is the same as the SASS definition of a school—an institution or part of an institution that provides classroom instruction to students, has one or more teachers to provide instruction, serves students in one or more of grades 1–12 or the ungraded equivalent, and is located in one or more buildings apart from a private home.

The 2015–16 NTPS universe of schools is confined to the 50 states plus the District of Columbia. It excludes the Department of Defense dependents schools overseas, schools in U.S. territories overseas, and CCD schools that do not offer teacher-provided classroom instruction in grades 1–12 or the ungraded equivalent. Bureau of Indian Education schools are included in the NTPS universe, but these schools were not oversampled and the data do not support separate BIE estimates.

The NTPS includes three key components: school questionnaires, principal questionnaires, and teacher questionnaires. NTPS data are collected by the U.S. Census Bureau through a mail questionnaire with telephone and in-person field follow-up. The school and principal questionnaires were sent to sampled schools, and the teacher questionnaire was sent to a sample of teachers working at sampled schools. The NTPS school sample consisted of about 8,300 public schools; the principal sample consisted of about 8,300 public school principals; and the teacher sample consisted of about 50,000 public school teachers.

The school questionnaire asks knowledgeable school staff members about grades offered, student attendance and enrollment, staffing patterns, teaching vacancies, programs and services offered, curriculum, and community service requirements. In addition, basic information is collected about the school year, including the beginning time of students' school days and the length of the school year. The weighted unit response rate for the 2015–16 school survey was 72.5 percent.

The principal questionnaire collects information about principal/school head demographic characteristics, training, experience, salary, goals for the school, and judgments about school working conditions and climate. Information is also obtained on professional development opportunities for teachers and principals, teacher performance, barriers to dismissal of underperforming teachers, school climate and safety, parent/guardian participation in school events, and attitudes about educational goals and school governance. The weighted unit response rate for the 2015–16 principal survey was 71.8 percent.

The teacher questionnaire collects data from teachers about their current teaching assignment, workload, education history, and perceptions and attitudes about teaching. Questions are also asked about teacher preparation, induction, organization of classes, computers, and professional development. The weighted response rate for the 2015–16 teacher survey was 67.8 percent.

Further information about the NTPS is available in *User's Manual for the 2015–16 National Teacher and Principal Survey, Volumes 1–4* (NCES 2017-131 through NCES 2017-134).

For additional information about the NTPS program, please contact

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#### Private School Universe Survey

The purposes of the Private School Universe Survey (PSS) data collection activities are (1) to build an accurate and complete list of private schools to serve as a sampling frame for NCES sample surveys of private schools and (2) to report data on the total number of private schools, teachers, and students in the survey universe. Begun in 1989, the PSS has been conducted every 2 years, and data for the 1989–90, 1991–92, 1993–94, 1995–96, 1997–98, 1999–2000, 2001–02, 2003–04, 2005–06, 2007–08, 2009–10, 2011–12, 2013–14, and 2015–16 school years have been released. A First Look report on the 2015–16 PSS data, *Characteristics of Private Schools in the United States: Results From the 2015–16 Private School Universe Survey* (NCES 2017-073) presents selected findings from the 2015–16 PSS.

The PSS produces data similar to that of the Common Core of Data for public schools, and can be used for public-private comparisons. The data are useful for a variety of policy- and research-relevant issues, such as the growth of religiously affiliated schools, the number of private high school graduates, the length of the school year for various private schools, and the number of private school students and teachers.

The target population for this universe survey is all private schools in the United States that meet the PSS criteria of a private school (i.e., the private school is an institution that provides instruction for any of grades K through 12, has one or more teachers to give instruction, is not administered by a public agency, and is not operated in a private home).

The survey universe is composed of schools identified from a variety of sources. The main source is a list frame initially developed for the 1989–90 PSS. The list is updated regularly by matching it with lists provided by nationwide private school associations, state departments of education, and other national guides and sources that list private schools. The other source is an area frame search in approximately 124 geographic areas, conducted by the U.S. Census Bureau.

Of the 40,302 schools included in the 2009–10 sample, 10,229 were found ineligible for the survey. Those not responding numbered 1,856, and those responding numbered 28,217. The unweighted response rate for the 2009–10 PSS survey was 93.8 percent.

Of the 39,325 schools included in the 2011–12 sample, 10,030 cases were considered as out-of-scope (not eligible for the PSS). A total of 26,983 private schools completed a PSS interview (15.8 percent completed online), while 2,312 schools refused to participate, resulting in an unweighted response rate of 92.1 percent.

There were 40,298 schools in the 2013–14 sample; of these 10,659 cases were considered as out-of-scope (not eligible for the PSS). A total of 24,566 private schools completed a PSS interview (34.1 percent completed online), while 5,073 schools refused to participate resulting in an unweighted response rate of 82.9 percent.

The 2015–16 PSS included 42,389 schools, of which 12,754 were considered as out-of-scope (not eligible for the PSS). A total of 22,428 private schools completed a PSS interview and 7,207 schools failed to respond, which resulted in an unweighted response rate of 75.7 percent.

Further information on the PSS may be obtained from

Stephen Broughman Cross-Sectional Surveys Branch Sample Surveys Division National Center for Education Statistics 550 12th Street SW Washington, DC 20202 <u>stephen.broughman@ed.gov</u> <u>https://nces.ed.gov/surveys/pss</u>

#### Schools and Staffing Survey

The Schools and Staffing Survey (SASS) is a set of related questionnaires that collect descriptive data on the context of public and private elementary and secondary education. Data reported by districts, schools, principals, and teachers provide a variety of statistics on the condition of education in the United States that may be used by policymakers and the general public. The SASS system covers a wide range of topics, including teacher demand, teacher and principal characteristics, teachers' and principals' perceptions of school climate and problems in their schools, teacher and principal compensation, district hiring and retention practices, general conditions in schools, and basic characteristics of the student population. After 2010–11, NCES redesigned SASS and named it the National Teacher and Principal Survey (NTPS) to reflect the redesigned study's focus on the teacher and principal labor market and on the state of K–12 school staff.

SASS data are collected through a mail questionnaire with telephone and in-person field follow-up. SASS has been conducted by the Census Bureau for NCES since the first administration of the survey, which was conducted during the 1987–88 school year. Subsequent SASS administrations were conducted in 1990–91, 1993–94, 1999–2000, 2003–04, 2007–08, and 2011–12.

SASS is designed to produce national, regional, and state estimates for public elementary and secondary schools, school districts, principals, teachers, and school library media centers and national and regional estimates for public charter schools, as well as principals, teachers, and school library media centers within these schools. For private schools, the sample supports national, regional, and affiliation estimates for schools, principals, and teachers.

From its inception, SASS has had four core components: school questionnaires, teacher questionnaires, principal questionnaires, and school district (prior to 1999–2000, "teacher demand and shortage") questionnaires. A fifth component, school library media center questionnaires, was introduced in the 1993–94 administration and has been included in every subsequent administration of SASS. School library data were also collected in the 1990–91 administration of the survey through the school and principal questionnaires.

School questionnaires used in SASS include the Public and Private School Questionnaires, teacher questionnaires include the Public and Private School Teacher Questionnaires, principal questionnaires include the Public and Private School Principal (or School Administrator) Questionnaires, and school district questionnaires include the School District (or Teacher Demand and Shortage) Questionnaires.

Although the four core questionnaires and the school library media questionnaires have remained relatively stable over the various administrations of SASS, the survey has changed to accommodate emerging issues in elementary and secondary education. Some questionnaire items have been added, some have been deleted, and some have been reworded.

During the 1990–91 SASS cycle, NCES worked with the Office of Indian Education to add an Indian School Questionnaire to SASS, and it remained a part of SASS through 2007–08. The Indian School Questionnaire explores the

same school-level issues that the Public and Private School Questionnaires explore, allowing comparisons among the three types of schools. The 1990–91, 1993–94, 1999–2000, 2003–04, and 2007–08 administrations of SASS obtained data on Bureau of Indian Education (BIE) schools (schools funded or operated by the BIE), but the 2011–12 administration did not obtain BIE data. SASS estimates for all survey years presented in this report exclude BIE schools, and as a result, estimates in this report may differ from those in previously published reports.

The SASS teacher surveys collect information on the characteristics of teachers, such as their age, race/ethnicity, years of teaching experience, average number of hours per week spent on teaching activities, base salary, average class size, and highest degree earned. These teacher-reported data may be combined with related information on their school's characteristics, such as school type (e.g., public traditional, public charter, Catholic, private other religious, and private nonsectarian), community type, and school enrollment size. The teacher questionnaires also ask for information on teacher opinions regarding the school and teaching environment. In 1993–94, about 53,000 public school teachers and 10,400 private school teachers were sampled. In 1999–2000, about 56,300 public school teachers, 4,400 public charter school teachers and 10,000 private school teachers were sampled. In 2007–08, about 48,400 public school teachers and 8,200 private school teachers were sampled. In 2011–12, about 51,100 public school teachers and 7,100 private school teachers were sampled. Weighted overall response rates in 2011–12 were 61.8 percent for public school teachers and 50.1 percent for private school teachers.

The SASS 2011–12 sample of schools was confined to the 50 states and the District of Columbia and excludes the other jurisdictions, the Department of Defense overseas schools, the BIE schools, and schools that do not offer teacher-provided classroom instruction in grades 1–12 or the ungraded equivalent. The SASS 2011–12 sample included 10,250 traditional public schools, 750 public charter schools, and 3,000 private schools.

The public school sample for the 2011–12 SASS was based on an adjusted public school universe file from the 2009–10 Common Core of Data, a database of all the nation's public school districts and public schools. The private school sample for the 2011–12 SASS was selected from the 2009–10 Private School Universe Survey (PSS), as updated for the 2011–12 PSS. This update collected membership lists from private school associations and religious denominations, as well as private school lists from state education departments. The 2011–12 SASS private school frame was further augmented by the inclusion of additional schools that were identified through the 2009–10 PSS area frame data collection.

The NCES data product 2011–12 Schools and Staffing Survey (SASS) Restricted-Use Data Files (NCES 2014-356) is available. (Information on how to obtain a restricted-use data license is located at <a href="https://nces.ed.gov/pubsearch/licenses.asp">https://nces.ed.gov/pubsearch/licenses.asp</a>.) This DVD contains eight files (Public School District, Public School Principal, Public School, Public School Teacher, Public School Library Media Center, Private School Principal, Private School, and Private School Teacher) in multiple formats. It also contains a six-volume User's Manual, which includes a codebook for each file.

Further information on SASS may be obtained from

Maura Spiegelman Cross-Sectional Surveys Branch Sample Surveys Division National Center for Education Statistics 550 12th Street SW Washington, DC 20202 <u>maura.spiegelman@ed.gov</u> <u>https://nces.ed.gov/surveys/sass</u>

#### Teacher Follow-Up Survey

The Teacher Follow-up Survey (TFS) is a follow-up survey of selected elementary and secondary school teachers who participate in the NCES Schools and Staffing Survey (SASS). Its purpose is to determine how many teachers remain at the same school, move to another school, or leave the profession in the year following a SASS administration. It is administered to elementary and secondary teachers in the 50 states and the District of Columbia. The TFS uses two questionnaires, one for teachers who left teaching since the previous SASS administration and another for those who are still teaching either in the same school as last year or in a different school. The objective of the TFS is to focus on the characteristics of each group in order to answer questions about teacher mobility and attrition.

The 2008–09 TFS is different from any previous TFS administration in that it also serves as the second wave of a longitudinal study of first-year teachers. Because of this, the 2008–09 TFS consists of four questionnaires. Two are for respondents who were first-year public school teachers in the 2007–08 SASS and two are for the remainder of the sample.

The 2012–13 TFS sample was made up of teachers who had taken the 2011–12 SASS survey. The 2012–13 TFS sample contained about 5,800 public school teachers and 1,200 private school teachers. The weighted overall response rate using the initial basic weight for private school teachers was notably low (39.7 percent), resulting in a decision to exclude private school teachers from the 2012–13 TFS data files. The weighted overall response rate for public school teachers was 49.9 percent (50.3 percent for current and 45.6 percent for former teachers). Additional information about the 2012–13 TFS, including the analysis of unit nonresponse bias, is available in the First Look report *Teacher Attrition and Mobility: Results From the 2012–13 Teacher Follow-up Survey* (NCES 2014-077).

Further information on the TFS may be obtained from

Isaiah O'Rear Cross-Sectional Surveys Branch Sample Surveys Division National Center for Education Statistics 550 12th Street SW Washington, DC 20202 <u>isaiah.orear@ed.gov</u> <u>https://nces.ed.gov/surveys/sass</u>

#### **Bureau of Economic Analysis**

#### National Income and Product Accounts

The National Income and Product Accounts (NIPAs), produced by the Bureau of Economic Analysis, are a set of economic accounts that provide information on the value and composition of output produced in the United States during a given period. NIPAs present measures of economic activity in the United States, including production, income distribution, and personal savings. NIPAs also include data on employee compensation and wages. These estimations were first calculated in the early 1930s to help the government design economic policies to combat the Great Depression. Most of the NIPA series are published quarterly, with annual reviews of estimates from the three most recent years conducted in the summer.

Revisions to the NIPAs have been made over the years to create a more comprehensive economic picture of the United States. For example, in 1976, consumption of fixed capital (CFC) estimates shifted to a current-cost basis. In 1991, NIPAs began to use gross domestic product (GDP) instead of gross national product (GNP) as the primary measure of U.S. production. (At that time, virtually all other countries were already using GDP as their primary measure of production.) In the 2003 comprehensive revision, a more complete and accurate measure of insurance services was adopted. The incorporation of a new classification system for personal consumption expenditures (PCE) was among the changes contained in the 2009 comprehensive revision. The comprehensive revision of 2013 included the treatment of research and development expenditures by business, government, and nonprofit institutions serving households as fixed investment. The 2017 NIPA annual update contained estimates that reflected the incorporation of newly available and revised source data and the adoption of improved estimating methods.

NIPAs are slowly being integrated with other federal account systems, such as the federal account system of the Bureau of Labor Statistics.

Further information on NIPAs may be obtained from

U.S. Department of Commerce Bureau of Economic Analysis <u>www.bea.gov</u>

#### **Bureau of Labor Statistics**

#### **Consumer Price Indexes**

The Consumer Price Index (CPI) represents changes in prices of all goods and services purchased for consumption by urban households. Indexes are available for two population groups: a CPI for All Urban Consumers (CPI-U) and a CPI for Urban Wage Earners and Clerical Workers (CPI-W). Unless otherwise specified, data are adjusted for inflation using the CPI-U. These values are generally adjusted to a school-year basis by averaging the July through June figures. Price indexes are available for the United States, the four Census regions, size of city, cross-classifications of regions and size classes, and 26 local areas. The major uses of the CPI include as an economic indicator, as a deflator of other economic series, and as a means of adjusting income.

Also available is the Consumer Price Index research series using current methods (CPI-U-RS), which presents an estimate of the CPI-U from 1978 to the present that incorporates most of the improvements that the Bureau of Labor Statistics has made over that time span into the entire series. The historical price index series of the CPI-U does not reflect these changes, though these changes do make the present and future CPI more accurate. The limitations of the CPI-U-RS include considerable uncertainty surrounding the magnitude of the adjustments and the several improvements in the CPI that have not been incorporated into the CPI-U-RS for various reasons. Nonetheless, the CPI-U-RS can serve as a valuable proxy for researchers needing a historical estimate of inflation using current methods. This series has not been used in this report.

Further information on consumer price indexes may be obtained from

Bureau of Labor Statistics U.S. Department of Labor 2 Massachusetts Avenue NE Washington, DC 20212 <u>https://www.bls.gov/cpi</u>

#### Employment and Unemployment Surveys

Statistics on the employment and unemployment status of the population and related data are compiled by the Bureau of Labor Statistics (BLS) using data from the Current Population Survey (CPS) (see below) and other surveys. The CPS, a monthly household survey conducted by the U.S. Census Bureau for the Bureau of Labor Statistics, provides a comprehensive body of information on the employment and unemployment experience of the nation's population, classified by age, sex, race, and various other characteristics.

Further information on unemployment surveys may be obtained from

Bureau of Labor Statistics U.S. Department of Labor 2 Massachusetts Avenue NE Washington, DC 20212 <u>cpsinfo@bls.gov</u> <u>https://www.bls.gov/bls/employment.htm</u>

### **Census Bureau**

#### **Current Population Survey**

The Current Population Survey (CPS) is a monthly survey of about 54,000 households conducted by the U.S. Census Bureau for the Bureau of Labor Statistics. The CPS is the primary source of labor force statistics for the U.S. noninstitutionalized population (e.g., it excludes military personnel and their families living on bases and inmates of correctional institutions). In addition, supplemental questionnaires are used to provide further information about the U.S. population. The March supplement (also known as the Annual Social and Economic [ASEC] supplement) contains detailed questions on topics such as income, employment, and educational attainment; additional questions, such as items on disabilities, have also been included. In the July supplement, items on computer and internet use are the principal focus. The October supplement also contains some questions about computer and internet use, but most of its questions relate to school enrollment and school characteristics. CPS samples are initially selected based on results from the decennial census and are periodically updated to reflect new housing construction. The current sample design for the main CPS, last revised in July 2015, includes about 74,000 households. Each month, about 54,000 of the 74,000 households are interviewed. Information is obtained each month from those in the household who are 15 years of age and over, and demographic data are collected for children 0–14 years of age. In addition, supplemental questions regarding school enrollment are asked about eligible household members age 3 and over in the October CPS supplement.

In January 1992, the CPS educational attainment variable was changed. The "Highest grade attended" and "Year completed" questions were replaced by the question "What is the highest level of school . . . has completed or the highest degree . . . has received?" Thus, for example, while the old questions elicited data for those who completed more than 4 years of high school, the new question elicited data for those who were high school completers, i.e., those who graduated from high school with a diploma as well as those who completed high school through equivalency programs, such as a GED program.

A major redesign of the CPS was implemented in January 1994 to improve the quality of the data collected. Survey questions were revised, new questions were added, and computer-assisted interviewing methods were used for the survey data collection. Further information about the redesign is available in *Current Population Survey, October 1995: (School Enrollment Supplement) Technical Documentation* at https://www.census.gov/prod/techdoc/cps/cpsoct95.pdf.

Caution should be used when comparing data from 1994 through 2001 with data from 1993 and earlier. Data from 1994 through 2001 reflect 1990 census-based population controls, while data from 1993 and earlier reflect 1980 or earlier censusbased population controls. Changes in population controls generally have relatively little impact on summary measures such as means, medians, and percentage distributions. They can have a significant impact on population counts. For example, use of the 1990 census-based population controls resulted in about a 1 percent increase in the civilian noninstitutional population and in the number of families and households. Thus, estimates of levels for data collected in 1994 and later years will differ from those for earlier years by more than what could be attributed to actual changes in the population. These differences could be disproportionately greater for certain subpopulation groups than for the total population.

Beginning in 2003, the race/ethnicity questions were expanded. Information on people of Two or more races were included, and the Asian and Pacific Islander race category was split into two categories: Asian and Native Hawaiian or Other Pacific Islander. In addition, questions were reworded to make it clear that self-reported data on race/ethnicity should reflect the race/ ethnicity with which the responder identifies, rather than what may be written in official documentation.

The estimation procedure employed for monthly CPS data involves inflating weighted sample results to independent estimates of characteristics of the civilian noninstitutional population in the United States by age, sex, and race. These independent estimates are based on statistics from decennial censuses; statistics on births, deaths, immigration, and emigration; and statistics on the population in the armed services. Generalized standard error tables are provided in the Current Population Reports; methods for deriving standard errors can be found within the CPS technical documentation at <u>https://www.census.gov/programs-surveys/cps/technical-documentation/complete.html</u>. The CPS data are subject to both nonsampling and sampling errors.

Standard errors were estimated using the generalized variance function prior to 2005 for March CPS data and prior to 2010 for October CPS data. The generalized variance function is a simple model that expresses the variance as a function of the expected value of a survey estimate. Standard errors were estimated using replicate weight methodology beginning in 2005 for March CPS data and beginning in 2010 for October CPS data. Those interested in using CPS household-level supplement replicate weights to calculate variances may refer to *Estimating Current Population Survey (CPS) Household-Level Supplement Variances Using Replicate Weights* at <a href="https://thedataweb.rm.census.gov/pub/cps/supps/HH-level">https://thedataweb.rm.census.gov/pub/cps/supps/HH-level</a> Use of the Public Use Replicate Weight File.doc.

Further information on CPS may be obtained from

Education and Social Stratification Branch Population Division Census Bureau U.S. Department of Commerce 4600 Silver Hill Road Washington, DC 20233 https://www.census.gov/cps

#### Dropouts

Each October, the Current Population Survey (CPS) includes supplemental questions on the enrollment status of the population ages 3 years and over as part of the monthly basic survey on labor force participation. In addition to gathering the information on school enrollment, with the limitations on accuracy as noted below under "School Enrollment," the survey data permit calculations of dropout rates. Both status and event dropout rates are tabulated from the October CPS. Event rates describe the proportion of students who leave school each year without completing a high school program. Status rates provide cumulative data on dropouts among all young adults within a specified age range. Status rates are higher than event rates because they include all dropouts ages 16 through 24, regardless of when they last attended school.

In addition to other survey limitations, dropout rates may be affected by survey coverage and exclusion of the institutionalized population. The incarcerated population has grown more rapidly and has a higher dropout rate than the general population. Dropout rates for the total population might be higher than those for the noninstitutionalized population if the prison and jail populations were included in the dropout rate calculations. On the other hand, if military personnel, who tend to be high school graduates, were included, it might offset some or all of the impact from the theoretical inclusion of the jail and prison populations.

Another area of concern with tabulations involving young people in household surveys is the relatively low coverage ratio compared to older age groups. CPS undercoverage results from missed housing units and missed people within sample households. Overall CPS undercoverage for October 2016 is estimated to be about 11 percent. CPS coverage varies with age, sex, and race. Generally, coverage is larger for females than for males and larger for non-Blacks than for Blacks. This differential coverage is a general problem for most household-based surveys. Further information on CPS methodology may be found in the technical documentation at <u>https://www.census.gov/programs-surveys/cps.html</u>.

Further information on the calculation of dropouts and dropout rates may be obtained from *Trends in High School Dropout* and *Completion Rates in the United States* at <u>https://nces.ed.gov/programs/dropout/index.asp</u> or by contacting

Cristobal de Brey Annual Reports and Information Staff National Center for Education Statistics 550 12th Street SW Washington, DC 20202 <u>cristobal.debrey@ed.gov</u>

#### School Enrollment

Each October, the Current Population Survey (CPS) includes supplemental questions on the enrollment status of the population ages 3 years and over. Currently, the October supplement consisted of approximately 54,000 interviewed households, the same households interviewed in the basic Current Population Survey. The main sources of nonsampling variability in the responses to the supplement are those inherent in the survey instrument. The question of current enrollment may not be answered accurately for various reasons. Some respondents may not know current grade information for every student in the household, a problem especially prevalent for households with members in college or in nursery school. Confusion over college credits or hours taken by a student may make it difficult to determine the year in which the student is enrolled. Problems may occur with the definition of nursery school (a group or class organized to provide educational experiences for children) where respondents' interpretations of "educational experiences" vary.

For the October 2016 basic CPS, the household-level nonresponse rate was 12.7 percent. The person-level nonresponse rate for the school enrollment supplement was an additional 8.0 percent. Since the basic CPS nonresponse rate is a household-level rate and the school enrollment supplement nonresponse rate is a person-level rate, these rates cannot be combined to derive an overall nonresponse rate. Nonresponding households may have fewer persons than interviewed ones, so combining these rates may lead to an overestimate of the true overall nonresponse rate for persons for the school enrollment supplement.

Further information on CPS methodology may be obtained from https://www.census.gov/programs-surveys/cps.html.

Further information on the CPS School Enrollment Supplement may be obtained from

Education and Social Stratification Branch Census Bureau U.S. Department of Commerce 4600 Silver Hill Road Washington, DC 20233 https://www.census.gov/topics/education/school-enrollment.html

#### Decennial Census, Population Estimates, and Population Projections

The Decennial Census is a universe survey mandated by the U.S. Constitution. It is a questionnaire sent to every household in the country, and it is composed of seven questions about the household and its members (name, sex, age, relationship, Hispanic origin, race, and whether the housing unit is owned or rented). The Census Bureau also produces annual estimates of the resident population by demographic characteristics (age, sex, race, and Hispanic origin) for the nation, states, and counties, as well as national and state projections for the resident population. The reference date for population estimates is July 1 of the given year. With each new issue of July 1 estimates, the Census Bureau revises estimates for each year back to the last census. Previously published estimates are superseded and archived.

Further information on the Decennial Census may be obtained from https://www.census.gov.

#### National Population Projections

The 2017 National Population Projections, the first based on the 2010 Census, provide projections of resident population and projections of the United States resident population by age, sex, race, and Hispanic origin from 2017 through 2060. The following is a general description of the methods used to produce the 2017 National Population Projections.

The projections were produced using a cohort component method beginning with an estimated base population for July 1, 2013. First, components of population change (mortality, fertility, and net international migration) were projected. Next, for each passing year, the population is advanced one year of age and the new age categories are updated using the projected survival rates and levels of net international migration for that year. A new birth cohort is then added to form the population under one year of age by applying projected age-specific fertility rates to the average female population aged 10 to 54 years and updating the new cohort for the effects of mortality and net international migration.

The assumptions for the components of change were based on time series analysis. Initially, demographic models were used to summarize historical trends. Further information on the methodologies used to produce the 2017 National Population Projections may be obtained from <u>https://www.census.gov/programs-surveys/popproj.html</u>.

More information on Census Bureau projections may be obtained from

Population Division Census Bureau U.S. Department of Commerce Washington, DC 20233 <u>https://www.census.gov</u>

#### **Other Sources**

#### IHS Global Inc.

IHS Global Inc. provides an information system that includes databases of economic and financial information; simulation and planning models; regular publications and special studies; data retrieval and management systems; and access to experts on economic, financial, industrial, and market activities. One service is the IHS Global Inc. Model of the U.S. Economy, which contains annual projections of U.S. economic and financial conditions, including forecasts for the federal government, incomes, population, prices and wages, and state and local governments, over a long-term (10- to 25-year) forecast period.

Additional information is available from

IHS Global Inc. 15 Inverness Way East Englewood, CO 80112 <u>https://ihsmarkit.com</u>

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# Appendix E List of Abbreviations

ADA	Average daily attendance
CCD	Common Core of Data
СРІ	Consumer Price Index
CPS	Current Population Survey
CV	Coefficient of Variation
D.W. statistic	Durbin-Watson statistic
FTE	Full-time-equivalent
HEGIS	Higher Education General Information Survey
IPEDS	Integrated Postsecondary Education Data System
IPEDS-C	Integrated Postsecondary Education Data System, Completions Survey
IPEDS-EF	Integrated Postsecondary Education Data System, Fall Enrollment Survey
MAPE	Mean absolute percentage error
NCES	National Center for Education Statistics
PreK	Prekindergarten
PreK-8	Prekindergarten through grade 8
PreK–12	Prekindergarten through grade 12
PSS	Private School Survey
SASS	Schools and Staffing Survey

## Appendix F Glossary

#### Α

Alternative school A public elementary/secondary school that serves students whose needs cannot be met in a regular, special education, or vocational school; may provide nontraditional education; and may serve as an adjunct to a regular school. Although alternative schools fall outside the categories of regular, special education, and vocational education, they may provide similar services or curriculum. Some examples of alternative schools are schools for potential dropouts; residential treatment centers for substance abuse (if they provide elementary or secondary education); schools for chronic truants; and schools for students with behavioral problems.

*Associate's degree* A degree granted for the successful completion of a sub-baccalaureate program of studies, usually requiring at least 2 years (or equivalent) of full-time college-level study. This includes degrees granted in a cooperative or work-study program.

*Autocorrelation* Correlation of the error terms from different observations of the same variable. Also called Serial correlation.

Average daily attendance (ADA) The aggregate attendance of a school during a reporting period (normally a school year) divided by the number of days school is in session during this period. Only days on which the pupils are under the guidance and direction of teachers should be considered days in session.

Average daily membership (ADM) The aggregate membership of a school during a reporting period (normally a school year) divided by the number of days school is in session during this period. Only days on which the pupils are under the guidance and direction of teachers should be considered as days in session. The average daily membership for groups of schools having varying lengths of terms is the average of the average daily memberships obtained for the individual schools. Membership includes all pupils who are enrolled, even if they do not actually attend.

#### В

*Bachelor's degree* A degree granted for the successful completion of a baccalaureate program of studies, usually requiring at least 4 years (or equivalent) of full-time college-level study. This includes degrees granted in a cooperative or work-study program.

*Breusch-Godfrey serial correlation LM test* A statistic testing the independence of errors in least-squares regression against alternatives of first-order and higher degrees of serial correlation. The test belongs to a class of asymptotic tests known as the Lagrange multiplier (LM) tests.

### С

*Capital outlay* Funds for the acquisition of land and buildings; building construction, remodeling, and additions; the initial installation or extension of service systems and other built-in equipment; and site improvement. The category also encompasses architectural and engineering services including the development of blueprints.

*Certificate* A formal award certifying the satisfactory completion of a postsecondary education program. Certificates can be awarded at any level of postsecondary education and include awards below the associate's degree level.

*Classroom teacher* A staff member assigned the professional activities of instructing pupils in self-contained classes or courses, or in classroom situations; usually expressed in full-time equivalents.

**Coefficient of variation (CV)** Represents the ratio of the standard error to the estimate. For example, a CV of 30 percent indicates that the standard error of the estimate is equal to 30 percent of the estimate's value. The CV is used to compare the amount of variation relative to the magnitude of the estimate. A CV of 30 percent or greater indicates that an estimate should be interpreted with caution. For a discussion of standard errors, see Appendix A: Introduction to Projections Methodology.

*Cohort* A group of individuals that have a statistical factor in common, for example, year of birth.

**Cohort-component method** A method for estimating and projecting a population that is distinguished by its ability to preserve knowledge of an age distribution of a population (which may be of a single sex, race, and Hispanic origin) over time.

**College** A postsecondary school that offers general or liberal arts education, usually leading to an associate's, bachelor's, master's, or doctor's degree. Junior colleges and community colleges are included under this terminology.

*Constant dollars* Dollar amounts that have been adjusted by means of price and cost indexes to eliminate inflationary factors and allow direct comparison across years.

**Consumer Price Index (CPI)** This price index measures the average change in the cost of a fixed market basket of goods and services purchased by consumers. Indexes vary for specific areas or regions, periods of time, major groups of consumer expenditures, and population groups. The CPI reflects spending patterns for two population groups: (1) all urban consumers and urban wage earners and (2) clerical workers. CPIs are calculated for both the calendar year and the school year using the U.S. All Items CPI for All Urban Consumers (CPI-U). The calendar year CPI is the same as the annual CPI-U. The school year CPI is calculated by adding the monthly CPI-U figures, beginning with July of the first year and ending with June of the following year, and then dividing that figure by 12.

**Control of institutions** A classification of institutions of elementary/secondary or postsecondary education by whether the institution is operated by publicly elected or appointed officials and derives its primary support from public funds (public control) or is operated by privately elected or appointed officials and derives its major source of funds from private sources (private control).

*Current dollars* Dollar amounts that have not been adjusted to compensate for inflation.

*Current expenditures (elementary/secondary)* The expenditures for operating local public schools, excluding capital outlay and interest on school debt. These expenditures include such items as salaries for school personnel, benefits, student transportation, school books and materials, and energy costs. Beginning in 1980–81, expenditures for state administration are excluded.

*Instruction expenditures* Includes expenditures for activities related to the interaction between teacher and students. Includes salaries and benefits for teachers and instructional aides, textbooks, supplies, and purchased services such as instruction via television. Also included are tuition expenditures to other local education agencies.

*Administration expenditures* Includes expenditures for school administration (i.e., the office of the principal, full-time department chairpersons, and graduation expenses), general administration (the superintendent and board of education and their immediate staff), and other support services expenditures.

*Transportation* Includes expenditures for vehicle operation, monitoring, and vehicle servicing and maintenance.

*Food services* Includes all expenditures associated with providing food to students and staff in a school or school

district. The services include preparing and serving regular and incidental meals or snacks in connection with school activities, as well as the delivery of food to schools.

*Enterprise operations* Includes expenditures for activities that are financed, at least in part, by user charges, similar to a private business. These include operations funded by sales of products or services, together with amounts for direct program support made by state education agencies for local school districts.

*Current expenditures per pupil in average daily attendance* Current expenditures for the regular school term divided by the average daily attendance of full-time pupils (or full-time equivalency of pupils) during the term. See also Current expenditures and Average daily attendance.

#### D

**Degree** An award conferred by a college, university, or other postsecondary education institution as official recognition for the successful completion of a program of studies. Refers specifically to associate's or higher degrees conferred by degree-granting institutions. See also Associate's degree, Bachelor's degree, Master's degree, and Doctor's degree.

**Degree/certificate-seeking student** A student enrolled in courses for credit and recognized by the institution as seeking a degree, certificate, or other formal award. High school students also enrolled in postsecondary courses for credit are not considered degree/certificate-seeking. See also Degree and Certificate.

**Degree-granting institutions** Postsecondary institutions that are eligible for Title IV federal financial aid programs and grant an associate's or higher degree. For an institution to be eligible to participate in Title IV financial aid programs it must offer a program of at least 300 clock hours in length, have accreditation recognized by the U.S. Department of Education, have been in business for at least 2 years, and have signed a participation agreement with the Department.

**Degrees of freedom** The number of free or linearly independent sample observations used in the calculation of a statistic. In a time series regression with t time periods and k independent variables including a constant term, there would be t minus k degrees of freedom.

#### Department of Defense (DoD) dependents schools

Schools that are operated by the Department of Defense Education Activity (a civilian agency of the U.S. Department of Defense) and provide comprehensive prekindergarten through 12th-grade educational programs on military installations both within the United States and overseas. **Dependent variable** A mathematical variable whose value is determined by that of one or more other variables in a function. In regression analysis, when a random variable, y, is expressed as a function of variables x1, x2, ... xk, plus a stochastic term, then y is known as the "dependent variable."

**Disposable personal income** Current income received by people less their contributions for social insurance, personal tax, and nontax payments. It is the income available to people for spending and saving. Nontax payments include passport fees, fines and penalties, donations, and tuitions and fees paid to schools and hospitals operated mainly by the government. See also Personal income.

**Doctor's degree** The highest award a student can earn for graduate study. Includes such degrees as the Doctor of Education (Ed.D.); the Doctor of Juridical Science (S.J.D.); the Doctor of Public Health (Dr.P.H.); and the Doctor of Philosophy (Ph.D.) in any field, such as agronomy, food technology, education, engineering, public administration, ophthalmology, or radiology. The doctor's degree classification encompasses three main subcategories research/scholarship degrees, professional practice degrees, and other degrees—which are described below.

**Doctor's degree—research/scholarship** A Ph.D. or other doctor's degree that requires advanced work beyond the master's level, including the preparation and defense of a dissertation based on original research, or the planning and execution of an original project demonstrating substantial artistic or scholarly achievement. Examples of this type of degree may include the following and others, as designated by the awarding institution: the Ed.D. (in education), D.M.A. (in musical arts), D.B.A. (in business administration), D.Sc. (in science), D.A. (in arts), or D.M. (in medicine).

Doctor's degree—professional practice A doctor's degree that is conferred upon completion of a program providing the knowledge and skills for the recognition, credential, or license required for professional practice. The degree is awarded after a period of study such that the total time to the degree, including both preprofessional and professional preparation, equals at least 6 full-time-equivalent academic years. Some doctor's degrees of this type were formerly classified as first-professional degrees. Examples of this type of degree may include the following and others, as designated by the awarding institution: the D.C. or D.C.M. (in chiropractic); D.D.S. or D.M.D. (in dentistry); L.L.B. or J.D. (in law); M.D. (in medicine); O.D. (in optometry); D.O. (in osteopathic medicine); Pharm.D. (in pharmacy); D.P.M., Pod.D., or D.P. (in podiatry); or D.V.M. (in veterinary medicine).

*Doctor's degree—other* A doctor's degree that does not meet the definition of either a doctor's degree—research/ scholarship or a doctor's degree—professional practice.

**Double exponential smoothing** A method that takes a single smoothed average component of demand and smoothes it a second time to allow for estimation of a trend effect.

**Dropout** The term is used to describe both the event of leaving school before completing high school and the status of an individual who is not in school and who is not a high school completer. High school completers include both graduates of school programs as well as those completing high school through equivalency programs such as the General Educational Development (GED) program. Transferring from a public school to a private school, for example, is not regarded as a dropout event. A person who drops out of school may later return and graduate but is called a "dropout" at the time he or she leaves school. Measures to describe these behaviors include the event dropout rate (or the closely related school persistence rate), the status dropout rate, and the high school completion rate.

**Durbin-Watson statistic** A statistic testing the independence of errors in least squares regression against the alternative of first-order serial correlation. The statistic is a simple linear transformation of the first-order serial correlation of residuals and, although its distribution is unknown, it is tested by bounding statistics that follow R. L. Anderson's distribution.

### Ε

*Econometrics* The quantitative examination of economic trends and relationships using statistical techniques, and the development, examination, and refinement of those techniques.

*Elementary school* A school classified as elementary by state and local practice and composed of any span of grades not above grade 8.

*Elementary/secondary school* Includes only schools that are part of state and local school systems, and also most nonprofit private elementary/secondary schools, both religiously affiliated and nonsectarian. Includes regular, alternative, vocational, and special education schools. U.S. totals exclude federal schools for American Indians, and federal schools on military posts and other federal installations.

*Enrollment* The total number of students registered in a given school unit at a given time, generally in the fall of a year.

*Estimate* A numerical value obtained from a statistical sample and assigned to a population parameter. The particular value yielded by an estimator in a given set of circumstances or the rule by which such particular values are calculated.

*Estimating equation* An equation involving observed quantities and an unknown that serves to estimate the latter.

*Estimation* Estimation is concerned with inference about the numerical value of unknown population values from incomplete data, such as a sample. If a single figure is calculated for each unknown parameter, the process is called point estimation. If an interval is calculated within which the parameter is likely, in some sense, to lie, the process is called interval estimation.

*Expenditures, Total* For elementary/secondary schools, these include all charges for current outlays plus capital outlays and interest on school debt. For degree-granting institutions, these include current outlays plus capital outlays. For government, these include charges net of recoveries and other correcting transactions other than for retirement of debt, investment in securities, extension of credit, or as agency transactions. Government expenditures include only external transactions, such as the provision of prerequisites or other payments in kind. Aggregates for groups of governments exclude intergovernmental transactions among the governments.

*Expenditures per pupil* Charges incurred for a particular period of time divided by a student unit of measure, such as average daily attendance or fall enrollment.

*Exponential smoothing* A method used in time series analysis to smooth or to predict a series. There are various forms, but all are based on the supposition that more remote history has less importance than more recent history.

#### F

*Financial aid* Grants, loans, assistantships, scholarships, fellowships, tuition waivers, tuition discounts, veteran's benefits, employer aid (tuition reimbursement), and other monies (other than from relatives or friends) provided to students to help them meet expenses. Except where designated, includes Title IV subsidized and unsubsidized loans made directly to students.

*First-order serial correlation* When errors in one time period are correlated directly with errors in the ensuing time period.

*First-professional degree* NCES no longer uses this classification. Most degrees formerly classified as first-professional (such as M.D., D.D.S., Pharm.D., D.V.M., and J.D.) are now classified as doctor's degrees—professional practice. However, master's of divinity degrees are now classified as master's degrees.

*First-time student (undergraduate)* A student who has no prior postsecondary experience (except as noted below) attending any institution for the first time at the undergraduate level. Includes students enrolled in the fall term who attended college for the first time in the prior summer term, and students who entered with advanced standing (college credits earned before graduation from high school).

*Fiscal year* A period of 12 months for which accounting records are compiled. Institutions and states may designate their own accounting period, though most states use a July 1 through June 30 accounting year. The yearly accounting period for the federal government begins on October 1 and ends on the following September 30. The fiscal year is designated by the calendar year in which it ends; e.g., fiscal year 2006 begins on October 1, 2005, and ends on September 30, 2006. (From fiscal year 1844 to fiscal year 1976, the federal fiscal year began on July 1 and ended on the following June 30.)

*Forecast* An estimate of the future based on rational study and analysis of available pertinent data, as opposed to subjective prediction.

*Forecasting* Assessing the magnitude that a quantity will assume at some future point in time, as distinct from "estimation," which attempts to assess the magnitude of an already existent quantity.

*For-profit institution* A private institution in which the individual(s) or agency in control receives compensation other than wages, rent, or other expenses for the assumption of risk.

FTE teacher See Instructional staff.

*Full-time enrollment* The number of students enrolled in postsecondary education courses with total credit load equal to at least 75 percent of the normal full-time course load. At the undergraduate level, full-time enrollment typically includes students who have a credit load of 12 or more semester or quarter credits. At the postbaccalaureate level, full-time enrollment includes students who typically have a credit load of 9 or more semester or quarter credits, as well as other students who are considered full time by their institutions.

#### Full-time-equivalent (FTE) enrollment For

postsecondary institutions, enrollment of full-time students, plus the full-time equivalent of part-time students. The full-time equivalent of the part-time students is estimated using different factors depending on the type and control of institution and level of student.

*Function* A mathematical correspondence that assigns exactly one element of one set to each element of the same or another set. A variable that depends on and varies with another.

*Functional form* A mathematical statement of the relationship among the variables in a model.

#### G

*Geographic region* One of the four regions of the United States used by the U.S. Census Bureau, as follows:

Northeast	Midwest
Connecticut (CT)	Illinois (IL)
Maine (ME)	Indiana (IN)
Massachusetts (MA)	Iowa (IA)
New Hampshire (NH)	Kansas (KS)
New Jersey (NJ)	Michigan (MI)
New York (NY)	Minnesota (MN)
Pennsylvania (PA)	Missouri (MO)
Rhode Island (RI)	Nebraska (NE)
Vermont (VT)	North Dakota (ND)
	Ohio (OH)
South	South Dakota (SD)
Alabama (AL)	Wisconsin (WI)
Arkansas (AR)	
Delaware (DE)	West
District of Columbia (DC)	Alaska (AK)
Florida (FL)	Arizona (AZ)
Georgia (GA)	California (CA)
Kentucky (KY)	Colorado (CO)
Louisiana (LA)	Hawaii (HI)
Maryland (MD)	Idaho (ID)
Mississippi (MS)	Montana (MT)
North Carolina (NC)	Nevada (NV)
Oklahoma (OK)	New Mexico (NM)
South Carolina (SC)	Oregon (OR)
Tennessee (TN)	Utah (UT)
Texas (TX)	Washington (WA)
Virginia (VA)	Wyoming (WY)
West Virginia (WV)	

*Graduate* An individual who has received formal recognition for the successful completion of a prescribed program of studies.

*Graduate enrollment* The number of students who are working towards a master's or doctor's degree and students who are in postbaccalaureate classes but not in degree programs.

#### Н

*High school* A secondary school offering the final years of high school work necessary for graduation, usually includes grades 10, 11, 12 (in a 6-3-3 plan) or grades 9, 10, 11, and 12 (in a 6-2-4 plan).

*High school completer* An individual who has been awarded a high school diploma or an equivalent credential, including a General Educational Development (GED) certificate.

*High school diploma* A formal document regulated by the state certifying the successful completion of a prescribed secondary school program of studies. In some states or communities, high school diplomas are differentiated by type, such as an academic diploma, a general diploma, or a vocational diploma.

High school equivalency certificate A formal document certifying that an individual has met the state requirements for high school graduation equivalency by obtaining satisfactory scores on an approved examination and meeting other performance requirements (if any) set by a state education agency or other appropriate body. One particular version of this certificate is the General Educational Development (GED) test. The GED test is a comprehensive test used primarily to appraise the educational development of students who have not completed their formal high school education and who may earn a high school equivalency certificate by achieving satisfactory scores. GEDs are awarded by the states or other agencies, and the test is developed and distributed by the GED Testing Service (a joint venture of the American Council on Education and Pearson).

*Higher education* Study beyond secondary school at an institution that offers programs terminating in an associate's, bachelor's, or higher degree.

### 

*Income tax* Taxes levied on net income, that is, on gross income less certain deductions permitted by law. These taxes can be levied on individuals or on corporations or unincorporated businesses where the income is taxed distinctly from individual income.

*Independent variable* In regression analysis, a random variable, *y*, is expressed as a function of variables *x1*, *x2*, ... *xk*, plus a stochastic term; the *x*'s are known as "independent variables."

*Inflation* A rise in the general level of prices of goods and services in an economy over a period of time, which

generally corresponds to a decline in the real value of money or a loss of purchasing power. See also Constant dollars and Purchasing Power Parity indexes.

*Instruction (elementary and secondary)* Instruction encompasses all activities dealing directly with the interaction between teachers and students. Teaching may be provided for students in a school classroom, in another location such as a home or hospital, and in other learning situations such as those involving cocurricular activities. Instruction may be provided through some other approved medium, such as the Internet, television, radio, telephone, and correspondence.

*Instructional staff* Full-time-equivalent number of positions, not the number of different individuals occupying the positions during the school year. In local schools, includes all public elementary and secondary (junior and senior high) day-school positions that are in the nature of teaching or in the improvement of the teaching-learning situation; includes consultants or supervisors of instruction, principals, teachers, guidance personnel, librarians, psychological personnel, and other instructional staff, and excludes administrative staff, attendance personnel, clerical personnel, and junior college staff.

*Interest on debt* Includes expenditures for long-term debt service interest payments (i.e., those longer than 1 year).

Interpolation See Linear interpolation.

#### L

*Lag* An event occurring at time t + k (k > 0) is said to lag behind an event occurring at time t, the extent of the lag being k. An event occurring k time periods before another may be regarded as having a negative lag.

*Lead time* When forecasting a statistic, the number of time periods since the last time period of actual data for that statistic used in producing the forecast.

*Level of school* A classification of elementary/secondary schools by instructional level. Includes elementary schools, secondary schools, and combined elementary and secondary schools. See also Elementary school, Secondary school, and Combined elementary and secondary school.

*Linear interpolation* A method that allows the prediction of an unknown value if any two particular values on the same scale are known and the rate of change is assumed constant.

Local education agency (LEA) See School district.

#### Μ

Master's degree A degree awarded for successful completion of a program generally requiring 1 or 2 years of full-time college-level study beyond the bachelor's degree. One type of master's degree, including the Master of Arts degree, or M.A., and the Master of Science degree, or M.S., is awarded in the liberal arts and sciences for advanced scholarship in a subject field or discipline and demonstrated ability to perform scholarly research. A second type of master's degree is awarded for the completion of a professionally oriented program, for example, an M.Ed. in education, an M.B.A. in business administration, an M.F.A. in fine arts, an M.M. in music, an M.S.W. in social work, and an M.P.A. in public administration. Some master's degrees—such as divinity degrees (M.Div. or M.H.L./Rav), which were formerly classified as "first-professional"-may require more than 2 years of full-time study beyond the bachelor's degree.

*Mean absolute percentage error (MAPE)* The average value of the absolute value of errors expressed in percentage terms.

*Migration* Geographic mobility involving a change of usual residence between clearly defined geographic units, that is, between counties, states, or regions.

*Model* A system of postulates, data, and inferences presented as a mathematical description of a phenomenon, such as an actual system or process. The actual phenomenon is represented by the model in order to explain, predict, and control it.

#### Ν

*Non-degree-granting institutions* Postsecondary institutions that participate in Title IV federal financial aid programs but do not offer accredited 4-year or 2-year degree programs. Includes some institutions transitioning to higher level program offerings, though still classified at a lower level.

*Nonresident alien* A person who is not a citizen of the United States and who is in this country on a temporary basis and does not have the right to remain indefinitely.

*Nursery school* An instructional program for groups of children during the year or years preceding kindergarten, which provides educational experiences under the direction of teachers. See also Prekindergarten and Preschool.

### 0

**Ordinary least squares (OLS)** The estimator that minimizes the sum of squared residuals.

*Parameter* A quantity that describes a statistical population.

**Part-time enrollment** The number of students enrolled in postsecondary education courses with a total credit load less than 75 percent of the normal full-time credit load. At the undergraduate level, part-time enrollment typically includes students who have a credit load of less than 12 semester or quarter credits. At the postbaccalaureate level, part-time enrollment typically includes students who have a credit load of less than 9 semester or quarter credits.

**Personal income** Current income received by people from all sources, minus their personal contributions for social insurance. Classified as "people" are individuals (including owners of unincorporated firms), nonprofit institutions serving individuals, private trust funds, and private noninsured welfare funds. Personal income includes transfers (payments not resulting from current production) from government and business such as social security benefits and military pensions, but excludes transfers among people.

**Postbaccalaureate enrollment** The number of students working towards advanced degrees and of students enrolled in graduate-level classes but not enrolled in degree programs. See also Graduate enrollment.

**Postsecondary education** The provision of formal instructional programs with a curriculum designed primarily for students who have completed the requirements for a high school diploma or equivalent. This includes programs of an academic, vocational, and continuing professional education purpose, and excludes avocational and adult basic education programs.

#### Postsecondary institutions (basic classification by level)

**4-year institution** An institution offering at least a 4-year program of college-level studies wholly or principally creditable toward a baccalaureate degree.

**2-year institution** An institution offering at least a 2-year program of college-level studies which terminates in an associate degree or is principally creditable toward a baccalaureate degree. Data prior to 1996 include some institutions that have a less-than-2-year program, but were designated as institutions of higher education in the Higher Education General Information Survey.

*Less-than-2-year institution* An institution that offers programs of less than 2 years' duration below the baccalaureate level. Includes occupational and vocational schools with programs that do not exceed 1,800 contact hours.

**Prekindergarten** Preprimary education for children typically ages 3–4 who have not yet entered kindergarten. It may offer a program of general education or special education and may be part of a collaborative effort with Head Start.

**Preschool** An instructional program enrolling children generally younger than 5 years of age and organized to provide children with educational experiences under professionally qualified teachers during the year or years immediately preceding kindergarten (or prior to entry into elementary school when there is no kindergarten). See also Nursery school and Prekindergarten.

*Primary school* A school with at least one grade lower than 5 and no grade higher than 8.

**Private institution** An institution that is controlled by an individual or agency other than a state, a subdivision of a state, or the federal government, which is usually supported primarily by other than public funds, and the operation of whose program rests with other than publicly elected or appointed officials.

**Private nonprofit institution** An institution in which the individual(s) or agency in control receives no compensation other than wages, rent, or other expenses for the assumption of risk. These include both independent nonprofit institutions and those affiliated with a religious organization.

*Private for-profit institution* An institution in which the individual(s) or agency in control receives compensation other than wages, rent, or other expenses for the assumption of risk (e.g., proprietary schools).

**Private school** Private elementary/secondary schools surveyed by the Private School Universe Survey (PSS) are assigned to one of three major categories (Catholic, other religious, or nonsectarian) and, within each major category, one of three subcategories based on the school's religious affiliation provided by respondents.

*Catholic* Schools categorized according to governance, provided by Catholic school respondents, into parochial, diocesan, and private schools.

**Other religious** Schools that have a religious orientation or purpose but are not Roman Catholic. Other religious schools are categorized according to religious association membership, provided by respondents, into Conservative Christian, other affiliated, and unaffiliated schools. Conservative Christian schools are those "Other religious" schools with membership in at least one of four associations: Accelerated Christian Education, American Association of Christian Schools, Association of Christian Schools International, and Oral Roberts University Education Fellowship. Affiliated schools are those "Other religious" schools not classified as Conservative Christian with membership in at least 1 of 11 associations-Association of Christian Teachers and Schools, Christian Schools International, Evangelical Lutheran Education Association, Friends Council on Education, General Conference of the Seventh-Day Adventist Church, Islamic School League of America, National Association of Episcopal Schools, National Christian School Association, National Society for Hebrew Day Schools, Solomon Schechter Day Schools, and Southern Baptist Association of Christian Schools-or indicating membership in "other religious school associations." Unaffiliated schools are those "Other religious" schools that have a religious orientation or purpose but are not classified as Conservative Christian or affiliated.

*Nonsectarian* Schools that do not have a religious orientation or purpose and are categorized according to program emphasis, provided by respondents, into regular, special emphasis, and special education schools. Regular schools are those that have a regular elementary/ secondary or early childhood program emphasis. Special emphasis schools are those that have a Montessori, vocational/technical, alternative, or special program emphasis. Special education schools are those that have a special education program emphasis.

**Projection** In relation to a time series, an estimate of future values based on a current trend.

*Public school or institution* A school or institution controlled and operated by publicly elected or appointed officials and deriving its primary support from public funds.

**Pupil/teacher ratio** The enrollment of pupils at a given period of time, divided by the full-time-equivalent number of classroom teachers serving these pupils during the same period.

#### R

 $R^2$  The coefficient of determination; the square of the correlation coefficient between the dependent variable and its ordinary least squares (OLS) estimate.

**Racial/ethnic group** Classification indicating general racial or ethnic heritage. Race/ethnicity data are based on the *Hispanic* ethnic category and the race categories listed below (five single-race categories, plus the *Two or more races* category). Race categories exclude persons of Hispanic ethnicity unless otherwise noted.

*White* A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

*Black or African American* A person having origins in any of the black racial groups of Africa. Used interchangeably with the shortened term *Black*.

*Hispanic or Latino* A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race. Used interchangeably with the shortened term *Hispanic*.

*Asian* A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent, including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam. Prior to 2010–11, the Common Core of Data (CCD) combined Asian and Pacific Islander categories.

*Native Hawaiian or Other Pacific Islander* A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands. Prior to 2010–11, the Common Core of Data (CCD) combined Asian and Pacific Islander categories. Used interchangeably with the shortened term *Pacific Islander*.

*American Indian or Alaska Native* A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.

*Two or more races* A person identifying himself or herself as of two or more of the following race groups: White, Black, Asian, Native Hawaiian or Other Pacific Islander, or American Indian or Alaska Native. Some, but not all, reporting districts use this category. "Two or more races" was introduced in the 2000 Census and became a regular category for data collection in the Current Population Survey (CPS) in 2003. The category is sometimes excluded from a historical series of data with constant categories. It is sometimes included within the category "Other."

Region See Geographic region.

*Regression analysis* A statistical technique for investigating and modeling the relationship between variables.

**Regular school** A public elementary/secondary or charter school providing instruction and education services that does not focus primarily on special education, vocational/ technical education, or alternative education.

**Resident population** Includes civilian population and armed forces personnel residing within the United States; excludes armed forces personnel residing overseas.

**Revenue** All funds received from external sources, net of refunds, and correcting transactions. Noncash transactions, such as receipt of services, commodities, or other receipts in kind are excluded, as are funds received from the issuance of debt, liquidation of investments, and nonroutine sale of property.

*Revenue receipts* Additions to assets that do not incur an obligation that must be met at some future date and do not

represent exchanges of property for money. Assets must be available for expenditures.

*Rho* A measure of the correlation coefficient between errors in time period t and time period t minus 1.

### S

*Salary* The total amount regularly paid or stipulated to be paid to an individual, before deductions, for personal services rendered while on the payroll of a business or organization.

*School* A division of the school system consisting of students in one or more grades or other identifiable groups and organized to give instruction of a defined type. One school may share a building with another school or one school may be housed in several buildings. Excludes schools that have closed or are planned for the future.

**School district** An education agency at the local level that exists primarily to operate public schools or to contract for public school services. Synonyms are "local basic administrative unit" and "local education agency."

*Secondary enrollment* The total number of students registered in a school beginning with the next grade following an elementary or middle school (usually 7, 8, or 9) and ending with or below grade 12 at a given time.

*Senior high school* A secondary school offering the final years of high school work necessary for graduation.

*Serial correlation* Correlation of the error terms from different observations of the same variable. Also called Autocorrelation.

*Special education school* A public elementary/secondary school that focuses primarily on special education for children with disabilities and that adapts curriculum, materials, or instruction for students served.

*Standard error of estimate* An expression for the standard deviation of the observed values about a regression line. An estimate of the variation likely to be encountered in making predictions from the regression equation.

**Student** An individual for whom instruction is provided in an educational program under the jurisdiction of a school, school system, or other education institution. No distinction is made between the terms "student" and "pupil," though "student" may refer to one receiving instruction at any level while "pupil" refers only to one attending school at the elementary or secondary level. A student may receive instruction in a school facility or in another location, such as at home or in a hospital. Instruction may be provided by direct student-teacher interaction or by some other approved medium such as television, radio, telephone, and correspondence.

**Student membership** Student membership is an annual headcount of students enrolled in school on October 1 or the school day closest to that date. The Common Core of Data (CCD) allows a student to be reported for only a single school or agency. For example, a vocational school (identified as a "shared time" school) may provide classes for students from a number of districts and show no membership.

### Т

Teacher see Instructional staff.

*Time series* A set of ordered observations on a quantitative characteristic of an individual or collective phenomenon taken at different points in time. Usually the observations are successive and equally spaced in time.

*Time series analysis* The branch of quantitative forecasting in which data for one variable are examined for patterns of trend, seasonality, and cycle.

*Type of school* A classification of public elementary and secondary schools that includes the following categories: regular schools, special education schools, vocational schools, and alternative schools. See also Regular school, Special education school, vocational school, and Alternative school.

### U

Unadjusted dollars See Current dollars.

**Undergraduate students** Students registered at an institution of postsecondary education who are working in a baccalaureate degree program or other formal program below the baccalaureate, such as an associate's degree, vocational, or technical program.

*Ungraded student (elementary/secondary)* A student who has been assigned to a school or program that does not have standard grade designations.

### V

*Variable* A quantity that may assume any one of a set of values.

### Y

*Years out* In forecasting by year, the number of years since the last year of actual data for that statistic used in producing the forecast.

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