
MEASURING UP

2006

**THE STATE REPORT CARD
ON HIGHER EDUCATION**

TENNESSEE



**THE NATIONAL CENTER FOR
PUBLIC POLICY AND
HIGHER EDUCATION**

WHAT IS MEASURING UP?

The purpose of this state report card is to provide the general public and policymakers with information they can use to assess and improve postsecondary education in each state. *Measuring Up 2006* is the fourth in a series of biennial report cards.

Measuring Up 2006 evaluates states on their performance in higher education because it is the states that are primarily responsible for educational access and quality in the United States. In this report card, “higher education” refers to all education and training beyond high school, including all public and private, two- and four-year, for-profit and nonprofit institutions.

The report card grades states in six overall performance categories:

- **Preparation:** How adequately does the state prepare students for education and training beyond high school?
- **Participation:** Do state residents have sufficient opportunities to enroll in education and training beyond high school?
- **Affordability:** How affordable is higher education for students and their families?
- **Completion:** Do students make progress toward and complete their certificates or degrees in a timely manner?
- **Benefits:** What benefits does the state receive from having a highly educated population?
- **Learning:** What is known about student learning as a result of education and training beyond high school?

Each state receives a letter grade in each performance category. Each grade is based on the state’s performance on several indicators, or quantitative measures, in that category.

Measuring Up 2006 is the first edition that includes data in the Learning category for all 50 states on the extent to which colleges and universities prepare students to contribute to the workforce.

As in *Measuring Up 2004*, most states in 2006 receive an “Incomplete” in Learning due to the lack of reported information.

This year, however, nine states (Illinois, Kentucky, Maryland, Massachusetts, Missouri, Nevada, New York, Oklahoma, and South Carolina) receive a “Plus.” For more information on these states and the Learning category, see page 12 of this state report card.

In four of the performance categories—Preparation, Participation, Completion, and Benefits—grades are calculated by comparing each state’s current performance to that of the best-performing states. This comparison provides a basis for evaluating each state’s performance within a national context and encourages each state to “measure up” to the highest-performing states.

In the Affordability category, however, the United States as a whole is “measuring down.” That is, even in the best-performing states, higher education has become *less* rather than *more* affordable when the costs of attending college are considered relative to family income. As a result, state grades in the Affordability category are calculated by comparing each state’s current performance with the performance of the best states in the early 1990s. This comparison allows policymakers to examine their state’s results relative to other states, while also encouraging improved performance over time. The Affordability category is the only one in which no state receives an A—the highest grade is a C—.

Measuring Up 2006 also compares each state’s current performance with its own performance in the early 1990s. Although this historical comparison is not graded, it is offered so that states can examine their trends in performance—both improvements and declines—over time. All data are drawn from reliable national sources. (For more information, please see the *Technical Guide for Measuring Up 2006* at www.highereducation.org.)

Measuring Up 2006 is the first edition that offers international comparisons that provide essential information on how well the United States and each of the 50 states are preparing residents with the knowledge and skills necessary to compete effectively in a global economy. Every state is compared with nations associated with the Organisation for Economic Co-operation and Development (OECD).

A Snapshot of Change Over Time

Academic preparation for college has continued to improve since the early 1990s, which is approximately when the most reliable data became available for meaningful comparisons. High school graduates are, in general, better prepared for college today than their peers were about a decade ago, as indicated by a greater proportion of high school students enrolled in a college-preparatory curriculum and scoring higher on national assessment examinations. Most states, however, and the United States as a whole, continue to show little progress in translating these gains into improvements at the college level.

Preparation: 45 states improved on more than half of the indicators; 5 improved on some of the indicators.

Participation: 8 states improved on more than half of the indicators; 28 improved on some of the indicators; 14 declined on most or all of the indicators.

Affordability: 1 state improved on more than half of the indicators; 32 improved on some of the indicators; 17 declined on most or all of the indicators.

Completion: 35 states improved on more than half of the indicators; 13 improved on some of the indicators; 2 declined on most or all of the indicators.

Benefits: 40 states improved on more than half of the indicators; 8 improved on some of the indicators; 2 declined on most or all of the indicators.

Tennessee's underperformance in preparing its young adults for and enrolling them in college could limit the state's access to a competitive workforce and weaken its economy over time. Since the early 1990s, the state has seen a double-digit drop in the proportion of 9th graders graduating from high school in four years—Tennessee now ranks among the lowest states in the country on this measure. Of those who do graduate, however, a higher proportion now enroll in college directly after high school. Since the early 1990s, colleges and universities in Tennessee have become less affordable for students and their families. If Tennessee's downward trends are not addressed, they could undermine the state's ability to compete successfully in a global economy.

Strengths

Preparation

■ A large percentage of high school students enroll in upper-level math courses. Tennessee has shown substantial improvement on this measure over the past 12 years, outpacing the nation as a whole.

■ Large proportions of 11th and 12th graders take and score well on college entrance exams, and Tennessee has made substantial improvement on this measure over the past 12 years.

Completion

■ Compared with other states, a very large percentage of first year students at two- and four-year colleges return for their second year. Tennessee has shown some of the greatest improvement among states on the two-year college measure over the past 15 years.

■ A large proportion of students complete certificates and degrees relative to the number enrolled. Over the past 12 years, Tennessee's improvement on this measure has outpaced the national increase.

■ A large gap remains between blacks and whites in the proportion of students completing certificates and degrees, even though Tennessee has narrowed this gap over the past decade.



Change in Tennessee Since 1992



Preparation



Participation



Affordability



Completion



Benefits



Learning

What do the arrows mean?



The state has improved on more than half of the indicators in the category.



The state has improved on some, but no more than half, of the indicators in the category.



The state has declined on most or all indicators.

Weaknesses

Preparation

- A very small proportion of 8th graders take algebra.
- Eighth graders perform poorly on national assessments in science, and very poorly on math and writing. Low-income 8th graders score very poorly on national assessments in math.
- A very small percentage of high school students enroll in upper-level science courses.
- Very small proportions of 11th and 12th graders take and score well on Advanced Placement tests.
- Less than 60% of secondary school students are taught by teachers with an undergraduate or graduate major in the subject they are teaching.
- Over the past 12 years, the percentage of non-white young adults (ages 18-24) who earn a high school credential has decreased.

Participation

- Compared with other states, the chance that a Tennessee 9th grader will enroll in college within four years is low, primarily because the proportion of high school students graduating is among the lowest in the country. Over the past decade, however, the state has improved on this measure, in contrast to a national decline.

- A very low proportion of working-age adults enroll in college-level education or training. Over the past decade, the state has experienced one of the steepest declines in the nation on this measure.

- Among young adults (ages 18-24), the gap between whites and non-whites in college participation has widened substantially. In addition, young adults from high-income families are about twice as likely as those from low-income families to attend college.

Affordability

- Net college costs for low- and middle-income students to attend community colleges represent 35% of their annual family income. (Net college costs equal tuition, room, and board after financial aid.) For these students at public four-year colleges and universities, net college costs represent 38% of their annual family income. These families earn on average \$17,620 annually.
- The state makes a very low investment in need-based financial aid compared with top-performing states, and Tennessee offers no low-tuition college opportunities.

Benefits

- Despite substantial improvement over the past 12 years, a fairly low percentage of residents have a bachelor's degree, and this weakens the state economy.
- Over the past 12 years, the gap has widened between whites and non-whites in the percentage who have a bachelor's degree.

2006
Grade

Change
Over Time

C-



Despite substantial improvement in preparing students to succeed in college, Tennessee's performance remains low when compared with other states. This year Tennessee receives a C- in preparation.

Graded Information

Compared with other states:

■ Tennessee is among the poorest-performing states in the percentage of young adults earning a high school diploma or General Education Development (GED) diploma by age 24.

■ A large proportion (53%) of high school students in Tennessee are enrolled in upper-level math, but a very small proportion (21%) are enrolled in upper-level science.

■ A very small proportion (19%) of 8th graders take algebra.

■ Eighth graders perform poorly on national assessments in science, and very poorly on national assessments in math and writing, indicating that they are not well prepared to succeed in challenging high school courses. Their performance in reading is fairly poor.

■ Low-income 8th graders score very poorly on national assessments in math.

■ Very small proportions of 11th and 12th graders score well on Advanced Placement tests, but large proportions score well on college entrance exams.

■ Fifty-nine percent of secondary school students are taught by qualified teachers, which is only fair compared with top-performing states.

PREPARATION	TENNESSEE		Top States 2006
	1992*	2006	
High School Completion (20%)			
18- to 24-year-olds with a high school credential	77%	83% [†]	94%
K-12 Course Taking (35%)			
9th to 12th graders taking at least one upper-level math course	35%	53%	64%
9th to 12th graders taking at least one upper-level science course	18%	21%	40%
8th grade students taking algebra	n/a	19%	35%
12th graders taking at least one upper-level math course	n/a	n/a	66%
K-12 Student Achievement (35%)			
8th graders scoring at or above "proficient" on the national assessment exam:			
in math	12%	21%	38%
in reading	26%	26%	38%
in science	22%	25%	41%
in writing	24%	24%	41%
Low-income 8th graders scoring at or above "proficient" on the national assessment exam in math	5%	9%	22%
Number of scores in the top 20% nationally on SAT/ACT college entrance exam per 1,000 high school graduates	127	205	237
Number of scores that are 3 or higher on an Advanced Placement subject test per 1,000 high school juniors and seniors	52	110	217
Teacher Quality (10%)			
7th to 12th graders taught by teachers with a major in their subject	47%	59%	81%

*The indicators report data beginning in 1992 or the closest year for which reliable data are available. See the *Technical Guide for Measuring Up 2006*.

[†]Seventy-eight percent of 18-24-year-olds have a regular high school diploma; 5% have a GED. The numbers shown for a regular high school diploma and a GED may not exactly equal the number for a high school credential due to rounding.

Change in Graded Measures

- Over the past 12 years, the proportion of high school students enrolled in upper-level math has increased substantially.
- During the same period, the proportions of 11th and 12th graders taking and scoring well on college entrance exams have increased substantially.
- The percentage of secondary school students taught by qualified teachers has increased substantially.

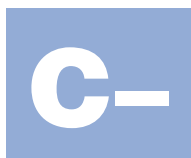
Other Key Facts

- Over the past 12 years, the percentage of young adults who are from minority ethnic groups and who earn a high school credential has decreased from 69% to 65%.
- About 21% of children under age 18 live in poverty, compared with a national rate of 18%.
- Policymakers and state residents do not have access to important information about 12th graders taking upper-level math because the state did not report the data by grade level.

The preparation category measures how well a state's K–12 schools prepare students for education and training beyond high school. The opportunities that residents have to enroll in and benefit from higher education depend heavily on the performance of their state's K–12 educational system.

2006
Grade

Change
Over Time



Despite improvement, Tennessee's performance in enrolling students in higher education remains low when compared with other states. This year Tennessee receives a C- in participation.

Graded Information

Compared with other states:

■ The chance of Tennessee high school students enrolling in college by age 19 is fairly low, primarily because the proportion of students who graduate from high school within four years is small. This proportion is among the lowest in the country.

■ A very low percentage of working-age adults (ages 25 to 49) are enrolled part-time in college-level education or training.

Change in Graded Measures

Over the past decade:

■ The chance of enrolling in college by age 19 has increased by 12%, in contrast to a nationwide decline of 2%. Although a smaller percentage of students graduate from high school in four years, more of those who graduate enroll in college.

■ The percentage of working-age adults enrolled in college-level education or training has decreased by 25%—one of the steepest declines in the nation on this measure.

PARTICIPATION	TENNESSEE		Top States 2006
	1992*	2006	
Young Adults (60%)			
Chance for college by age 19	32%	36%	53%
18- to 24-year-olds enrolled in college	27%	33%	41%
Working-Age Adults (40%)			
25- to 49-year-olds enrolled part-time in any type of postsecondary education	3.5%	2.6%	5.1%

*The indicators report data beginning in 1992 or the closest year for which reliable data are available. See the *Technical Guide for Measuring Up 2006*.

Other Key Facts

■ Among the young adult population (ages 18 to 24), the gap in college participation between whites and other ethnic groups has widened substantially. Currently, 36 out of 100 white young adults are enrolled in college, compared with 26 out of 100 young adults from other ethnic groups.

■ Young adults from high-income families are about twice as likely as those from low-income families to attend college.

■ The state's population is projected to grow by 14% from 2005 to 2020, which matches the national rate. During approximately the same period, the number of high school graduates is projected to increase by 2%.

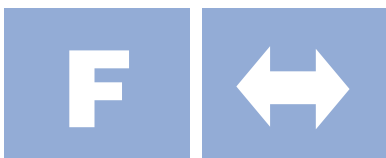
■ About 17% of the adult population has less than a high school diploma or its equivalent, compared with 14% of adults nationwide.

■ In Tennessee, 2,543 more students are entering the state than are leaving to attend college. About 16% of Tennessee high school graduates who go to college attend college out of state.

The participation category addresses the opportunities for state residents to enroll in higher education. A strong grade in participation generally indicates that state residents have high individual expectations for education and that the state provides enough spaces and types of educational programs for its residents.

2006
Grade

Change
Over Time



Tennessee has made no notable progress in providing affordable higher education. This year Tennessee is one of many states to receive an F in affordability.

Graded Information

■ Compared with top-performing states, families in Tennessee devote a large share of family income, even after financial aid, to attend public two- and four-year colleges and universities, which enroll 73% of college students in the state.

■ The state's investment in need-based financial aid is very low when compared with top-performing states, and Tennessee does not offer low-priced college opportunities.

■ Undergraduate students borrowed on average \$3,463 in 2005.

Other Key Facts

■ In Tennessee, 31% of students are enrolled in community colleges and 42% in public four-year colleges and universities.

AFFORDABILITY	TENNESSEE		Top States In Early 1990s
	1992*	2006	
Family Ability to Pay (50%)			
Percent of income (average of all income groups) needed to pay for college expenses minus financial aid:			
at community colleges	21%	23%	15%
at public 4-year colleges/universities	22%	26%	16%
at private 4-year colleges/universities	50%	66%	32%
Strategies for Affordability (40%)			
State investment in need-based financial aid as compared to the federal investment	11%	16%	89%
At lowest-priced colleges, the share of income that the poorest families need to pay for tuition	14%	23%	7%
Reliance on Loans (10%)			
Average loan amount that undergraduate students borrow each year	\$2,871	\$3,463	\$2,619

*The indicators report data beginning in 1992 or the closest year for which reliable data are available. See the *Technical Guide for Measuring Up 2006*.

Note: In the affordability category, the lower the figures the better the performance for all indicators except for "State investment in need-based financial aid."

The affordability category measures whether students and families can afford to pay for higher education, given income levels, financial aid, and the types of colleges and universities in the state.

Financial Burden to Pay for College Varies Widely Among Different Income Families in the State

A CLOSER LOOK AT FAMILY ABILITY TO PAY	Average family income	Community colleges		Public 4-year colleges/universities		Private 4-year colleges/universities	
		Net college cost*	Percent of income needed to pay net college cost	Net college cost*	Percent of income needed to pay net college cost	Net college cost*	Percent of income needed to pay net college cost
Income groups used to calculate 2006 family ability to pay							
20% of the population with the lowest income	\$10,240	\$5,801	57%	\$6,341	62%	\$17,677	173%
20% of the population with lower-middle income	\$25,000	\$6,425	26%	\$7,187	29%	\$17,790	71%
20% of the population with middle income	\$41,030	\$7,013	17%	\$8,355	20%	\$17,888	44%
20% of the population with upper-middle income	\$64,000	\$7,180	11%	\$8,351	13%	\$17,893	28%
20% of the population with the highest income	\$110,910	\$7,232	7%	\$8,408	8%	\$18,363	17%
40% of the population with the lowest income	\$17,620	\$6,113	35%	\$6,764	38%	\$17,734	101%

*Net college cost equals tuition, room, and board, minus financial aid.

Those who are striving to reach or stay in the middle class—the 40% of the population with the lowest incomes—earn on average \$17,620 each year.

■ If a student from such a family were to attend a community college in the state, their net cost to attend college would represent about 35% of their income annually:

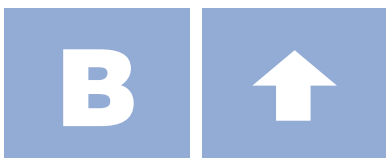
Tuition, room, and board:	\$7,433
Financial aid received:	—\$1,320
Net college cost:	\$6,113
Percent of income:	35%

■ If the same student were to attend a public four-year college in the state, their net cost to attend college would represent about 38% of their income annually:

Tuition, room, and board:	\$9,801
Financial aid received:	—\$3,037
Net college cost:	\$6,764
Percent of income:	38%

Note

The numbers shown for tuition, room, and board minus financial aid may not exactly equal net college cost due to rounding.

2006
GradeChange
Over Time

Tennessee has shown substantial improvement in the proportion of students earning a certificate or degree in a timely manner. This year Tennessee receives a B in completion.

Graded Information

Compared with other states:

■ A very large percentage of first-year students in community colleges return for their second year.

■ In addition, a large percentage of freshmen at public and private four-year colleges and universities return for their sophomore year.

■ However, only a fair percentage of first-time, full-time college students complete a bachelor's degree within six years of enrolling in college.

■ A large proportion of students complete certificates and degrees relative to the number enrolled.

Change in Graded Measures

■ Over the past 15 years, the percentage of first-year community college students returning for their second year has increased substantially, making Tennessee one of the fastest-improving states on this measure.

■ Over the past 12 years, the proportion of students completing certificates and degrees relative to the number enrolled has also increased substantially, with most of the growth in certificates awarded. The state improved on this measure by 29%, in contrast to a nationwide increase of 18%.

COMPLETION	TENNESSEE		Top States 2006
	1992*	2006	
Persistence (20%)†			
1st year community college students returning their second year	50%	58%	62%
Freshmen at 4-year colleges/universities returning their sophomore year	71%	73%	82%
Completion (80%)			
First-time, full-time students completing a bachelor's degree within 6 years of college entrance	46%	49%	64%
Certificates, degrees, and diplomas awarded at all colleges and universities per 100 undergraduate students	13	17	20

*The indicators report data beginning in 1992 or the closest year for which reliable data are available.

†2006 data may not be entirely comparable with data from previous years.

See the *Technical Guide for Measuring Up 2006*.

Other Key Facts

■ Over the past decade, the gap between whites and blacks has narrowed in the proportion of students completing certificates and degrees relative to the number enrolled. Currently, 17 out of 100 white students enrolled complete degrees and certificates, compared to 15 out of 100 black students.

The completion category addresses whether students continue through their educational programs and earn certificates or degrees in a timely manner. Certificates and degrees from one- and two-year programs as well as the bachelor's degree are included.

2006
Grade

Change
Over Time

C+



Despite improvement, Tennessee continues to lag many other states in realizing the benefits that come from having a more highly educated population. Tennessee receives a C+ in benefits this year.

Graded Information

Compared with other states:

■ A fairly small proportion of residents have a bachelor's degree, and this weakens the state economy.

■ However, residents contribute substantially to the civic good, as measured by charitable giving and volunteerism.

Change in Graded Measures

Over the past 12 years:

■ The percentage of residents who have a bachelor's degree has increased substantially, although the state's current performance on this measure remains fairly low when compared with other states.

■ The percentage of Tennessee residents voting has increased substantially, in contrast to a nationwide decline of 5%.

Other Key Facts

■ If all ethnic groups had the same educational attainment and earnings as whites, total personal income in the state would be about \$854 million higher.

■ Over the past 12 years, the gap has widened between whites and other ethnic groups in the percentage who have a bachelor's degree. Currently, 26 out of 100 white adults have a bachelor's degree, compared to 21 out of 100 adults from other ethnic groups.

BENEFITS	TENNESSEE		Top States 2006
	1992*	2006	
Educational Achievement (37.5%)			
Population aged 25 to 65 with a bachelor's degree or higher	18%	25%	37%
Economic Benefits (31.25%)			
Increase in total personal income as a result of the percentage of the population holding a bachelor's degree	6%	8%	12%
Increase in total personal income as a result of the percentage of the population with some college (including an associate's degree), but not a bachelor's degree	3%	1%	3%
Civic Benefits (31.25%)			
Residents voting in national elections	43%	49%	64%
Of those who itemize on federal income taxes, the percentage declaring charitable gifts	88%	87%	91%
Increase in volunteering rate as a result of college education	n/a	22%	22%
Adult Skill Levels (0%)*			
Adults demonstrating high-level literacy skills:			
quantitative	17%	21%	33%
prose	15%	19%	33%
document	13%	16%	28%

*The indicators report data beginning in 1992 or the closest year for which reliable data are available. See the *Technical Guide for Measuring Up 2006*.

†These are estimates from *Measuring Up 2004* and are not used to calculate grades. New data will be available in fall 2006.

■ In 2002, Tennessee scored 52 on the New Economy Index, compared to a nationwide score of 60. The New Economy Index, developed by the Progressive Policy Institute, measures the extent to which states are participating in knowledge-based industries.

■ Policymakers and state residents do not have access to important information about high-level literacy skills because the state has declined to participate in the national literacy survey.

The benefits category measures the economic and societal benefits that the state receives as the result of having well educated residents.

2006
Grade



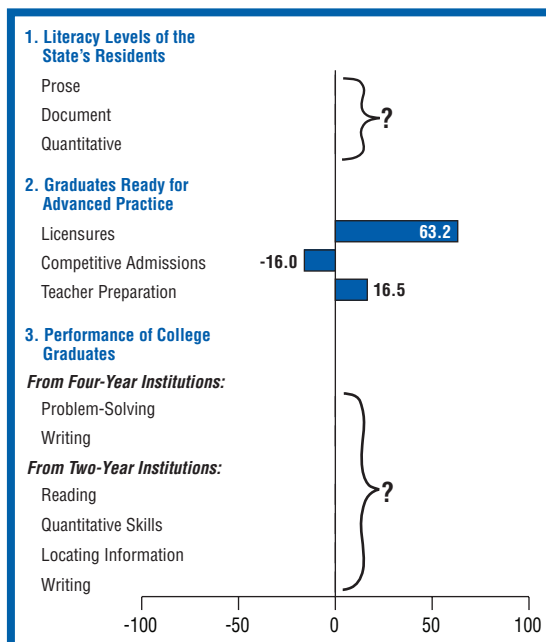
Like most states, Tennessee receives an “Incomplete” in Learning because insufficient data would not allow meaningful state-by-state comparisons. However, data are available this year to examine the readiness of college graduates—from two- and four-year institutions—for advanced practice. State results are described below.

In *Measuring Up 2006*, data are available, for the first time, for all fifty states on “Graduates Ready for Advanced Practice” indicators (see chart). In the 2004 edition of *Measuring Up*, state-level results on all Learning indicators were reported for five states (Illinois, Kentucky, Nevada, Oklahoma, and South Carolina) that participated in a pilot project directed by the National Forum on College-Level Learning and funded by the Pew Charitable Trusts.* This project evaluated state performance in Learning on three topics:

1. Literacy Levels of the State’s Residents. These indicators answer the question, “What are the abilities of the state’s college-educated population?” The answer provides information about the level of “educational capital” the state can count on to develop a competitive 21st-century workforce and a responsible citizenry.

2. Graduates Ready for Advanced Practice. These indicators address the question, “To what extent do colleges and universities in the state educate students to contribute to the workforce?” These measures examine how well prepared state college and university graduates are to enter a licensed profession or participate in graduate study.

3. Performance of College Graduates. These indicators address the question, “How effectively can college and university graduates in the state communicate and solve problems?” The ability of college graduates to perform complex academic and real-world tasks is the “bottom line” in Learning. This can only be determined by common direct assessments of college graduate abilities.



Note: Measures under the third cluster will require special data collection efforts similar to those undertaken by the five pilot project states in 2004.

Measuring Up 2006 employs the same methodology for Learning as used in the 2004 edition of *Measuring Up*. Overall state performance is illustrated by a bar chart for each state. In the chart, the data for each indicator are represented by a bar showing the number of percentage points the state performed above or below the national average.

The overall picture for *Measuring Up 2006* remains incomplete. While “Graduates Ready for Advanced Practice” results can be reported for all states, results for “Literacy Levels of State’s Residents” can only be calculated for five of the six states that participated in a state-level version of the National Assessment of Adult Literacy (SAAL) conducted in 2003. Results for “Performance of College Graduates”, reported in the 2004

edition of *Measuring Up*, were based on assessments administered to representative samples of college students in each of the five pilot project states. These measures were not updated for 2006.

Tennessee Results

Tennessee’s higher education system is very competitive in workforce preparation as reflected in professional licensure examinations. The state ranks more than 60 percentage points above the national benchmark on this measure, placing it among the top five states. About 50% more Tennessee graduates take such examinations than is typical nationally, and their pass

rate is slightly above the national average. In contrast, Tennessee is 16% below the national benchmark in preparing students for graduate study as reflected in graduate admissions examinations. Although 12% more Tennessee graduates take such examinations than is typical nationally, the proportion earning competitive scores is almost 12% below the national average. Finally, Tennessee is 16% above the national benchmark with respect to pass rates on the state’s teacher examinations.

Tennessee did not participate in the SAAL, so no results on literacy are available.

*More information on the National Forum on College-Level Learning can be obtained at http://www.highereducation.org/reports/mu_learning/index.shtml.

How Tennessee Measures Up Internationally

Participation*

■ About 28% of young adults, ages 18 to 24, in Tennessee are currently enrolled in college. When compared internationally, Tennessee's enrollment rate represents only 59% of the rate in Korea, the best-performing nation on this measure. Tennessee is also surpassed by Greece, Finland, Belgium, Ireland, Poland, Australia, France, Hungary, Spain, and New Zealand (see figure 1).

Completion

■ When compared internationally, Tennessee is surpassed by many countries in the proportion of students who complete certificates or degrees. With 17 out of 100 students enrolled completing a degree or certificate, Tennessee's completion rate is only 70% of the rate in the United Kingdom, the top-performing country on this measure, where 24 out of 100 students complete certificates or degrees. Tennessee also lags Japan, Portugal, Australia, Switzerland, Denmark, Ireland, New Zealand, France, Iceland, Korea, Belgium, Sweden, the Slovak Republic, and Poland (see figure 2).

Educational Level of Adult Population

■ Tennessee's younger adults, ages 25 to 34, are ahead of older adults, ages 35 to 64, in attaining a college degree. Internationally, however, the proportion of younger adults with a college degree in Tennessee is only 65% of the proportion in Japan, the top-performing nation on this measure. Tennessee is also surpassed by Canada, Korea, Finland, Norway, Sweden, Belgium, Spain, France, Ireland, Australia, and Denmark.

Figure 1. Percent of Young Adults (Ages 18-24) Currently enrolled in College, 2003

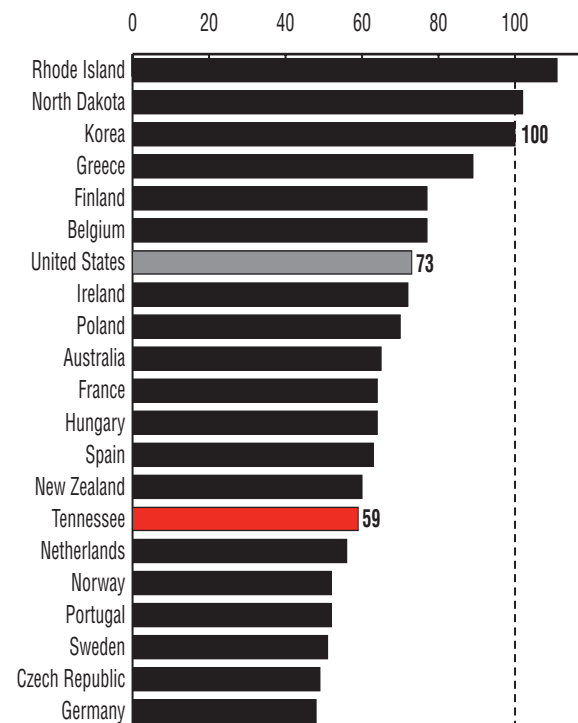
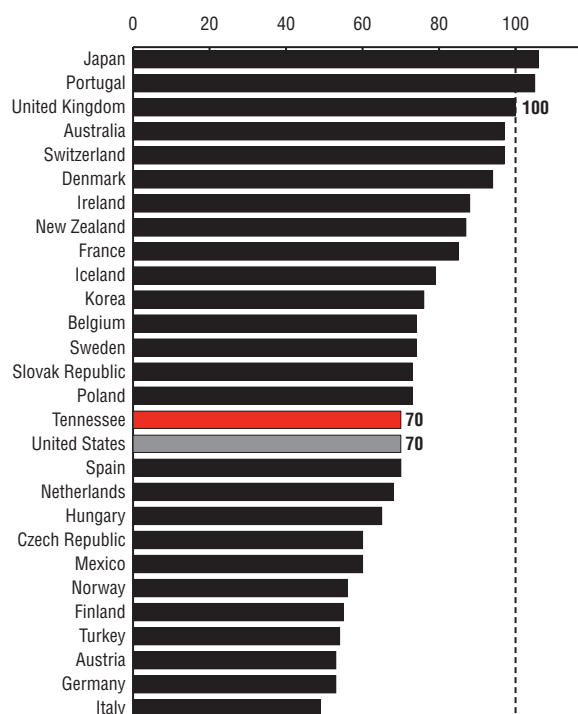


Figure 2. Total Degrees/Certificates Awarded Per 100 Students Enrolled, 2004



*This measure includes both undergraduate and graduate enrollment, whereas the similar indicator in the graded category only reports undergraduate enrollment.

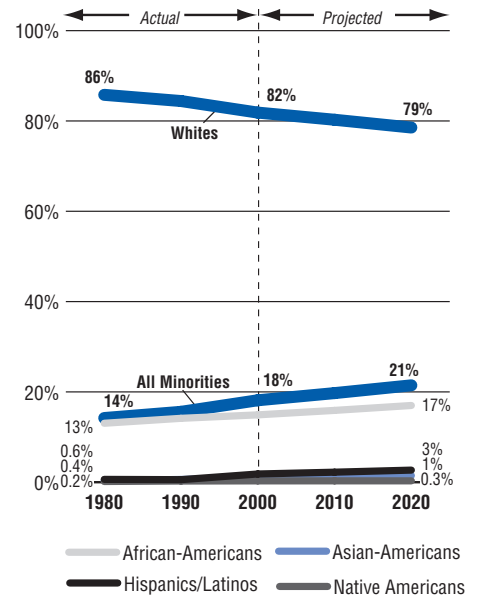
Note: The charts show index scores, as measured against the top performance. The top performance, defined as the median value of the top five performers, receives a score of 100. The top performer can be a nation or a U.S. state. For more international comparison information, go to www.highereducation.org.

State Context	Tennessee	State Rank
Population (2005)	5,962,959	16
Gross state product (2004, in millions)	\$216,769	18
Leading Indicators	Tennessee	U.S.
Projected % change in population, 2005-2020	14%	14%
Projected % change in number of all high school graduates, 2002-2017	2%	8%
Projected budget surplus/shortfall by 2013	-9%	-6%
Average income of poorest 20% of population (2004)	\$10,240	\$12,168
Children in poverty (2004)	21%	18%
Percent of adult population with less than a high school diploma or equivalent (2004)	17%	14%
New economy index (2002)*	52	60
Facts and Figures	Tennessee	
	Number/Amount	Percent
Institutions of Postsecondary Education (2004-05)		
Public 4-year	9	
Public 2-year	13	
Private 4-year	55	
Private 2-year	20	
Students Enrolled by Institution Type (2004)		
Public 4-year	101,183	42%
Public 2-year	75,499	31%
Private 4-year	52,877	22%
Private 2-year	10,359	4%
Students Enrolled by Level (2004)		
Undergraduate	239,918	86%
Graduate	32,224	12%
Professional	5,913	2%
Enrollment Status of Students (2004)		
Full-time	201,225	72%
Part-time	76,830	28%
Net Migration of Students (2004)		
Positive numbers for net migration mean that more students are entering than leaving the state to attend college. Negative numbers reveal the reverse.	2,543	
Average Tuition (2005-06)		
Public 4-year institutions	\$4,763	
Public 2-year institutions	\$2,395	
Private 4-year institutions	\$16,654	
State and Local Appropriations for Higher Education		
Per \$1,000 of personal income, FY 2006	\$6	
Per capita, FY 2006	\$188	
% change, FY 1996-2006		24%

* This index, created by the Progressive Policy Institute, measures the extent to which a state is participating in knowledge-based industries. A higher score means increased participation.

Note: Percentages might not add to 100 due to rounding.

Working-Age Population (ages 25-64) by Race/Ethnicity, 1980-2020



Racial and Ethnic Gaps in Educational Levels of Working-Age Population (ages 25-64), 2000

	Whites	African-Americans
Less than a high school credential	18%	23%
Associate's degree or higher	28%	20%

QUESTIONS & ANSWERS

Q: What is being graded in this report card, and why?

A: *Measuring Up 2006* grades states, not individual colleges or universities, on their performance in higher education. The states are responsible for preparing students for higher education by means of sound K–12 school systems, and they provide most of the public financial support—\$72 billion currently—for colleges and universities. Through their oversight of public colleges and universities, state leaders affect the types and number of programs available in the state. State leaders also determine the limits of financial support and often influence tuition and fees for public colleges and universities. They establish how much state-based financial aid is available to students and their families, which affects students attending both private and public colleges and universities.

Q: How are states graded?

A: *Measuring Up 2006* grades states in six performance categories: Preparation, Participation, Affordability, Completion, Benefits, and Learning. Each category is made up of several indicators, or quantitative measures—a total of 35 in the first five categories. Grades are calculated based on each state's performance on these indicators, relative to the best-performing states. As in earlier editions, state data are drawn from the most recent public information available, and the grades in *Measuring Up 2006* reflect state performance in 2004 or 2005.

In the Affordability category, *Measuring Up 2006* reflects the major changes in tuition and financial aid that occurred in 2005. In addition, each state's performance is calculated relative to the performance of top states in the early 1990s—rather than relative to the current performance of top states, as is the case with other graded categories. This difference in comparison, first introduced in *Measuring Up 2004*, creates a more stable basis for states to assess their performance in Affordability, which is the most volatile of the graded categories.

Measuring Up 2006 is the first edition that includes data in the Learning category for all 50 states on the extent to which colleges and universities prepare students to contribute to the workforce (see the “Graduates Ready for Advanced Practice” indicators). As in *Measuring Up 2004*, most states in 2006 receive an “Incomplete” in Learning due to the lack of reported information. This year, however, nine states receive a “Plus”: Illinois, Kentucky, Maryland, Massachusetts, Missouri, Nevada, New York, Oklahoma, and South Carolina. These nine states reported adequate data in more than

one of the indicator groups either through their participation in a pilot project, or by collecting additional state data for the state version of the National Assessment of Adult Literacy (NAAL) conducted in 2003.

All data used to grade states in *Measuring Up 2006* were collected from reliable national sources, including the U.S. Census Bureau and the U.S. Department of Education. All data are the most current available for state comparisons, are in the public domain, and were collected in ways that allow meaningful comparisons among states. Please see the *Technical Guide for Measuring Up 2006* (available at www.highereducation.org) for more information regarding data sources used in *Measuring Up 2006*.

Q: What information is provided but not graded?

A: The state report cards highlight important gaps in college opportunities for various income and ethnic groups, and they identify improvements and setbacks in each state's performance over time. Each report card also presents important contextual information, such as demographic trends, student migration data, and state funding levels for higher education. International comparisons provide new contextual information for states.

Q: Why does *Measuring Up 2006* include international indicators?

A: *Measuring Up 2006* is the first edition to draw on international indicators, at both the state and national levels. In a global economy, it is critical for each nation to establish and maintain a competitive edge through the ongoing, high-quality education of its population. *Measuring Up 2006* provides essential information on how well the nation and each of the 50 states are preparing residents with the knowledge and skills necessary to compete effectively in the global economy. As with other data in *Measuring Up*, each international measure is based on the most current data available. In this case, the data are from the Organisation for Economic Co-operation and Development (OECD). International comparisons are used to gauge the states' and the nation's standing relative to OECD countries on the participation and educational attainment of their populations.

For more information on international comparisons, see *Measuring Up Internationally: Developing Skills and Knowledge for the Global Knowledge Economy* by Alan Wagner. For more information on available data sources, see the *Technical Guide for Measuring Up 2006* (available at www.highereducation.org).

STATE GRADES

	Preparation	Participation	Affordability	Completion	Benefits	Learning
Alabama	D–	C	F	B–	B	I
Alaska	B–	C+	F	F	B–	I
Arizona	D	B+	F	B	B+	I
Arkansas	D+	C	F	C	C	I
California	C	A	C–	B	A	I
Colorado	B+	A–	F	B	A–	I
Connecticut	A–	A–	F	B+	A	I
Delaware	C	B	F	A–	B–	I
Florida	C	C	F	A	B	I
Georgia	C+	D+	F	A	B–	I
Hawaii	C–	C	D	B–	A–	I
Idaho	C	D+	D	C+	C–	I
Illinois	B	A	F	B+	A	+
Indiana	C	C+	F	B+	C	I
Iowa	B+	A–	F	A	C	I
Kansas	B–	A	F	B+	B+	I
Kentucky	C–	B–	F	C+	C+	+
Louisiana	F	C–	F	C–	D+	I
Maine	B	B–	F	B	B–	I
Maryland	A–	A	F	B	A	+
Massachusetts	A	A	F	A	A	+
Michigan	C–	A–	F	B	A–	I
Minnesota	B	A	D	A	B+	I
Mississippi	D–	D	F	B	C	I
Missouri	C	B	F	B+	A	+
Montana	B+	C–	F	B–	C+	I
Nebraska	B	A	F	B+	B	I
Nevada	C–	C	F	F	C–	+
New Hampshire	B+	C+	F	A	A	I
New Jersey	A	A–	D	B	A	I
New Mexico	F	A	F	D	C	I
New York	A–	B–	F	A–	B+	+
North Carolina	B+	B–	F	B+	B	I
North Dakota	B–	A	F	B	C+	I
Ohio	B–	B–	F	B	B+	I
Oklahoma	D+	C+	F	C	B–	+
Oregon	C–	C+	F	B–	A	I
Pennsylvania	B	B	F	A	A–	I
Rhode Island	C+	A	F	A	B	I
South Carolina	C+	D+	F	B+	C	+
South Dakota	B	A	F	B+	C+	I
Tennessee	C–	C–	F	B	C+	I
Texas	B–	C+	F	C+	B–	I
Utah	A	B	C–	B	A–	I
Vermont	B–	C	F	A	A–	I
Virginia	A–	B	F	B+	A	I
Washington	B	C–	D–	A	A–	I
West Virginia	C–	C–	F	C+	D+	I
Wisconsin	B+	A–	F	A	B–	I
Wyoming	C–	B+	F	A	C–	I