

PENNSYLVANIA



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.

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Pennsylvania compares well with most states in preparing students for and enrolling them in college. However, this relatively strong performance conceals large disparities in opportunity based on income and ethnicity, and some of these disparities have widened since the early 1990s. In addition, the proportion of 9th graders graduating from high school within four years has declined since the early 1990s, although of those who do graduate, more now enroll in college directly after high school. The state trails in providing college-level education and training opportunities for working-age adults. Since the early 1990s, colleges and universities in Pennsylvania have become less affordable for students and their families. If these downward trends are not addressed, they could limit Pennsylvania's access to an educated, competitive workforce and weaken its economy over time.

Strengths

Preparation

- Pennsylvania is a top performer in the proportions of high school students enrolled in upper-level math and science courses. The state has improved substantially on the science measure over the past 12 years.
- Pennsylvania 8th graders perform very well on national assessments in reading.
- Three-quarters of secondary school students are taught by teachers with an undergraduate or graduate major in the subject they are teaching.

Participation

■ Compared with other states, the chance that a Pennsylvania 9th grader will enroll in college within four years is high. However, proportionately fewer 9th graders are graduating from high school in four years. Of those who do graduate, more of them are enrolling in higher education. The state has improved on this measure over the past decade, in contrast to a national decline.



Change in Pennsylvania Since 1992













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.

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Affordability

■ Pennsylvania makes a very high investment in need-based financial aid, placing it among the leading states on this measure, and it has increased this investment since 1992. Despite this improvement, low- and middle-income families must still devote a very large share of family income to pay for college.

Completion

- A very high percentage of freshmen at two- and four-year colleges in the state return for their sophomore year. The state has consistently performed very well on the measure for four-year colleges.
- A very large proportion of students complete certificates and degrees relative to the number enrolled. However, the state has declined on this measure over the past 12 years.

Benefits

■ Over the past 12 years, Pennsylvania has shown some of the greatest improvement among the states in the percentage of residents who have a bachelor's degree, and the economic benefits that the state enjoys as a result have increased substantially as well.

Weaknesses

Preparation

- Low-income 8th graders perform very poorly on national math assessments.
- Small proportions of 11th and 12th graders take and score well on Advanced Placement tests and college entrance exams.

Participation

- A small percentage of working-age adults enroll in education and training beyond high school. This percentage has decreased over the past decade—more than the nationwide decline.
- Over the past decade, the gap in college participation between 18- to 24-year-old whites and non-whites has widened substantially. Whites are twice as likely to attend college as non-whites.
- In addition, young adults (ages 18-24) 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 40% 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 59% of their annual family income. These two sectors enroll 59% of college students in the state.

Completion

■ Over the past decade, the gap has widened between whites and blacks in the proportion of students completing certificates and degrees relative to the number enrolled.

Change Over Time





Pennsylvania has shown progress in preparing students to succeed in college. This year Pennsylvania receives a B in preparation.

Graded Information

Compared with other states:

- Pennsylvania is a top performer in the proportions of high school students enrolled in upper-level math (61%) and upper-level science (40%).
- Eighth graders in Pennsylvania perform very well on national assessments in reading, indicating that they are well prepared to succeed in challenging high school courses. They perform fairly well in math. However, low-income 8th graders perform very poorly on national assessments in math.
- Very small proportions of 11th and 12th graders score well on Advanced Placement tests, and small proportions score well on college entrance exams.
- Three-quarters of secondary school students are taught by qualified teachers, which compares very well with topperforming states.

Change in Graded Measures

- Over the past 12 years, the proportion of high school students enrolled in upper-level science has increased substantially.
- The proportions of 11th and 12th graders taking and scoring well on college entrance exams have increased substantially over the past 12 years, although Pennsylvania's current performance on this measure is poor compared with other states.

	PENNS	PENNSYLVANIA		
PREPARATION	1992*	2006	States 2006	
High School Completion (20%)				
18- to 24-year-olds with a high school credential	90%	89% [†]	94%	
K-12 Course Taking (35%)				
9th to 12th graders taking at least one upper-level math course	46%	61%	64%	
9th to 12th graders taking at least one upper-level science course	29%	40%	40%	
8th grade students taking algebra	n/a	n/a	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	21%	31%	38%	
in reading	n/a	36%	38%	
in science	n/a	n/a	41%	
in writing	n/a	32%	41%	
Low-income 8th graders scoring at or above "proficient" on the national assessment exam in math	n/a	12%	22%	
Number of scores in the top 20% nationally on SAT/ACT college entrance exam per 1,000 high school graduates	100	157	237	
Number of scores that are 3 or higher on an Advanced Placement subject test per 1,000 high school juniors and seniors	56	117	217	
Teacher Quality (10%)				
7th to 12th graders taught by teachers with a major in their subject	74%	75%	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.*

[†]Eighty-six percent of 18-24-year-olds have a regular high school diploma; 3% 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.

■ Pennsylvania has consistently performed very well on the percentage of secondary school students taught by qualified teachers.

Other Key Facts

- About 17% 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. In addition, important information about 8th graders taking algebra and about 8th graders' performance in science is not available because the state declined to participate in the national survey and assessment.

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.

Change Over Time





Pennsylvania has shown consistently good performance in enrolling students in higher education. Pennsylvania receives a B in participation this year.

Graded Information

Compared with other states:

- The chance of Pennsylvania high school students enrolling in college by age 19 is high.
- A low percentage of Pennsylvania's 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 4%, compared with a national decline of 2%. Although a smaller percentage of students graduate from high school within four years, more of those who graduate enroll in college.
- The percentage of working-age adults who are enrolled part-time in college-level education or training has decreased by 22%, compared with a national decrease of 12%.

DEDTIQUETION	PENNSY	Тор	
PARTICIPATION	1992*	2006	States 2006
Young Adults (60%)			
Chance for college by age 19	44%	45%	53%
18- to 24-year-olds enrolled in college	30%	35%	41%
Working-Age Adults (40%)			
25- to 49-year-olds enrolled part-time in any type of postsecondary education	3.9%	3.1%	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. White young adults are twice as likely as young adults from other ethnic groups to be enrolled in college.
- Young adults (ages 18 to 24) 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 3% from 2005 to 2020, well below the national rate of 14%. During approximately the same period, the number of high school graduates is projected to decline by 8%.

- About 14% of the adult population has less than a high school diploma or its equivalent, a rate that matches that of the nation as a whole.
- In Pennsylvania, 12,681 more students are entering the state than are leaving to attend college.

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.

Change Over Time





Pennsylvania has made no notable progress in making higher education affordable. This year Pennsylvania receives an F in affordability.

Graded Information

- Compared with best-performing states, families in Pennsylvania devote a very large share of family income, even after financial aid, to attend public and private four-year colleges and universities in the state. These two sectors enroll 72% of college students in the state.
- The state is a top performer in the very high investment it makes in need-based financial aid. Nonetheless, the share of family income, even after financial aid, needed to pay for college is very large when compared with other states.
- Pennsylvania does not offer low-priced college opportunities.
- Undergraduate students borrowed on average \$3,827 in 2005.

Change in Graded Measures

- Over the past several years, the share of family income, even after financial aid, needed to pay for college expenses at public four-year institutions has increased from 30% to 39%.
- During the same period, the state has increased its commitment to financially needy students. Yet compared with other states, the share of family income, even after financial aid, needed to pay for college is still very large.

	PENNS	Top States	
AFFORDABILITY	1992*	2006	In Early 1990s
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	23%	26%	15%
at public 4-year colleges/universities	30%	39%	16%
at private 4-year colleges/universities	61%	75%	32%
Strategies for Affordability (40%)			
State investment in need-based financial aid as compared to the federal investment	70%	83%	89%
At lowest-priced colleges, the share of income that the poorest families need to pay for tuition	21%	23%	7%
Reliance on Loans (10%)			
Average loan amount that undergraduate students borrow each year	\$2,991	\$3,827	\$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.

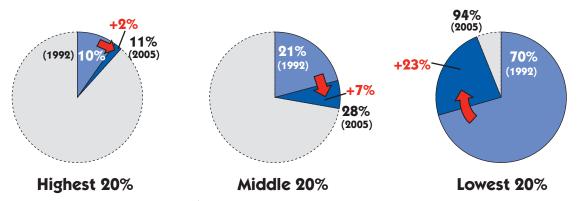
Other Key Facts

■ In Pennsylvania, 22% of students are enrolled in community colleges, 37% in public four-year colleges and universities, and 35% in private four-year institutions.

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.

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."

College in Pennsylvania Has Become Less Affordable, Particularly for Low-Income Families (1992–2005)



Net costs to attend public 4-year colleges as a share of income for different income families.

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

Those who are striving to reach or stay in the middle class—the 40% of the population with the lowest incomes—earn on average \$21,595 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 40% of their income annually:

Tuition, room, and board: \$9,560
Financial aid received: -\$ 969
Net college cost: \$8,591

Percent of income: 40%

■ If the same student were to attend a public four-year college in the state, their net cost to attend college would represent about 59% of their income annually:

Tuition, room, and board: \$15,300
Financial aid received: -\$ 2,587
Net college cost: \$12,713

Percent of income: 59%

Note

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

		Comm colle		Public colleges/u		Private colleges/u	
A CLOSER LOOK AT FAMILY ABILITY TO PAY	Average family income	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	\$13,179	\$8,356	63%	\$12,347	94%	\$25,118	191%
20% of the population with lower-middle income	\$30,010	\$8,825	29%	\$13,078	44%	\$24,995	83%
20% of the population with middle income	\$50,000	\$9,266	19%	\$14,150	28%	\$24,861	50%
20% of the population with upper-middle income	\$75,629	\$9,429	12%	\$14,485	19%	\$25,275	33%
20% of the population with the highest income	\$128,900	\$9,471	7%	\$14,634	11%	\$26,091	20%
40% of the population with the lowest income	\$21,595	\$8,591	40%	\$12,713	59%	\$25,057	116%

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

Change Over Time





Despite a decline in performance, Pennsylvania continues to perform very well in the proportion of students earning a certificate or degree in a timely manner. Pennsylvania receives an A in completion this year.

Graded Information

Compared with other states:

- Very large percentages of first-year students at community colleges and at four-year colleges and universities return for their second year.
- Likewise, a very large percentage (63%) of first-time, full-time college students complete a bachelor's degree within six years of enrolling.
- In addition, a very 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 declined.
- During the same period, however, Pennsylvania has consistently performed very well in the percentage of freshmen at four-year colleges and universities returning for their sophomore year.
- The state has also consistently performed very well over the past seven years in the percentage of first-time, full-time college students earning a bachelor's degree within six years of enrolling in college.

COMPLETION	PENNSY	Тор	
COMPLETION	1992*	2006	States 2006
Persistence (20%) [†]			
1st year community college students returning their second year	63%	58%	62%
Freshmen at 4-year colleges/universities returning their sophomore year	84%	81%	82%
Completion (80%)			
First-time, full-time students completing a bachelor's degree within 6 years of college entrance	62%	63%	64%
Certificates, degrees, and diplomas awarded at all colleges and universities per 100 undergraduate students	21	20	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*.

Nonetheless, Pennsylvania was one of only four states over the past 12 years to decline in the proportion of students completing certificates and degrees relative to the number enrolled, with most of the decline in certificates awarded. The state declined on this measure by 5%, in contrast to a nationwide increase of 18%, even though Pennsylvania has consistently performed very well on this measure when compared with other states.

Other Key Facts

■ Over the past decade, the gap between whites and blacks has widened in the proportion of students completing certificates and degrees relative to the number enrolled. Currently, 20 out of 100 white students enrolled complete degrees and certificates, compared to 16 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.

Change Over Time





Pennsylvania has made substantial gains in the benefits the state receives from having a more highly educated population. This year Pennsylvania earns an A— in benefits.

Graded Information

Compared with other states:

- A fairly high proportion of residents have a bachelor's degree, and this substantially strengthens the state economy.
- In addition, residents contribute substantially to the civic good, as measured by charitable giving, volunteerism, and voting.

Change in Graded Measures

Over the past 12 years:

- Pennsylvania has been one of the fastest-improving states in the percentage of residents who have a bachelor's degree, and the economic benefits that the state enjoys as a result have increased substantially as well.
- The percentage of residents voting has increased slightly, in contrast to a nation-wide 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 \$2.3 billion higher.
- In 2002, Pennsylvania scored 62 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.

DENETIZO	PENNS	Тор	
BENEFITS	1992*	2006	States 2006
Educational Achievement (37.5%)			
Population aged 25 to 65 with a bachelor's degree or higher	21%	30%	37%
Economic Benefits (31.25%)			
Increase in total personal income as a result of the percentage of the population holding a bachelor's degree	8%	12%	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	2%	2%	3%
Civic Benefits (31.25%)			
Residents voting in national elections	51%	52%	64%
Of those who itemize on federal income taxes, the percentage declaring charitable gifts	92%	89%	91%
Increase in volunteering rate as a result of college education	n/a	18%	22%
Adult Skill Levels (0%)†			
Adults demonstrating high-level literacy skills:			
quantitative	19%	23%	33%
prose	17%	21%	33%
document	15%	18%	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.*

■ 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.

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



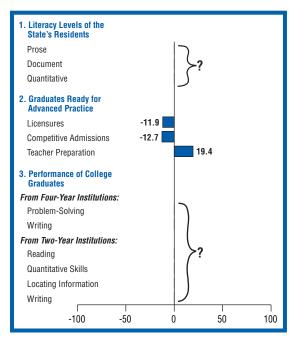
Like most states, Pennsylvania receives an "Incomplete" in Learning because insufficient data would not allow meaningful state-by-state comparisons. However, data are available this year to examine the readiness of college graduates—from two- and four-year institutions—for advanced practice. State results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

Pennsylvania Results

Pennsylvania is somewhat below the national benchmark in workforce preparation as reflected in professional licensure examinations. About 15% fewer Pennsylvania graduates take such examinations than is typical nationally, although their pass rate is close to the national average. Pennsylvania is also below the national benchmark in preparing students for graduate study

as reflected in graduate admissions examinations. Almost 20% fewer Pennsylvania graduates take such examinations than is typical nationally, although the proportion earning competitive scores is about 6% above the national average. Finally, Pennsylvania is about 20% above the national benchmark with respect to pass rates on the state's teacher examinations.

Pennsylvania 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 Pennsylvania Measures Up Internationally

Participation*

■ About 41% of young adults, ages 18 to 24, in Pennsylvania are currently enrolled in college. Although Pennsylvania compares very well internationally, the state's enrollment rate is only 85% of the rate in Korea, the best-performing nation on this measure. Pennsylvania is also surpassed by Greece.

Completion

■ When compared internationally, Pennsylvania is surpassed by many countries in the proportion of students who complete certificates or degrees. With 20 out of 100 students enrolled completing certificates or degrees, Pennsylvania's completion rate is only 82% of the rate in the United Kingdom, the top-performing nation on this measure, where 24 out of 100 students complete certificates or degrees. Pennsylvania also lags Japan, Portugal, Australia, Switzerland, Denmark, Ireland, New Zealand, and France (see figure 1).

Educational Level of Adult Population

■ Pennsylvania'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 Pennsylvania is only 83% of the proportion in Japan, the topperforming nation on this measure. Pennsylvania is also surpassed by Canada and Korea (see figures 2 and 3).

Figure 2. Percent of Older Adults (Ages 35-64) with an Associate's Degree or Higher, 2004

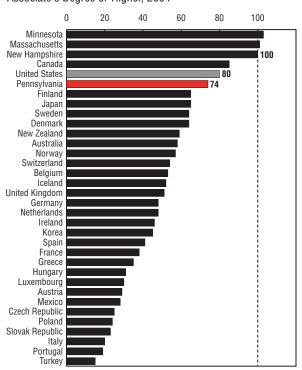


Figure 1. Total Degrees/Certificates Awarded Per 100 Students Enrolled, 2004

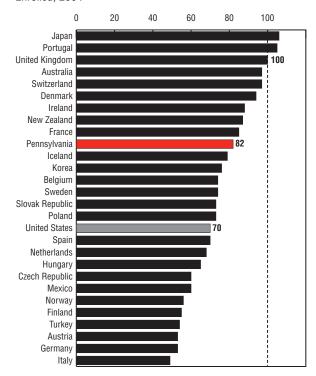
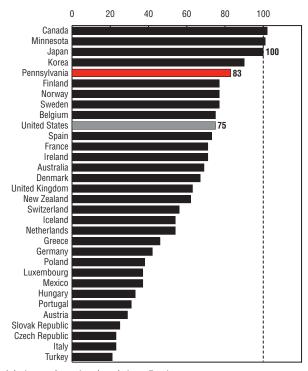


Figure 3. Percent of Younger Adults (Ages 25-34) with an Associate's Degree or Higher, 2004

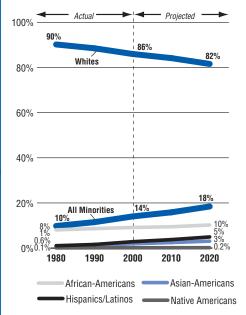


^{*}This measure includes both undergraduate and graduate enrollment, whereas the similar indicator in the graded category only reports undergraduate enrollment.

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	Pennsylvania	State Rank
Population (2005)	12,429,616	6
Gross state product (2004, in millions)	\$463,752	6
Leading Indicators	Pennsylvania	U.S.
Projected % change in population, 2005-2020	3%	14%
Projected % change in number of all high school graduates, 2002-2017	-8%	8%
Projected budget surplus/shortfall by 2013	-6%	-6%
Average income of poorest 20% of population (2004)	\$13,179	\$12,168
Children in poverty (2004)	17%	18%
Percent of adult population with less than a high school diploma or equivalent (2004)	14%	14%
New economy index (2002)*	62	60
	Pennsylva	nia
Facts and Figures	Number/Amount	Percent
Institutions of Postsecondary Education (2004-05)		
Public 4-year	44	
Public 2-year	21	
Private 4-year	105	
Private 2-year	90	
Students Enrolled by Institution Type (2004)		
Public 4-year	211,286	37%
Public 2-year	128,165	22%
Private 4-year	197,760	35%
Private 2-year	34,111	6%
Students Enrolled by Level (2004)		
Undergraduate	571,322	83%
Graduate	98,405	14%
Professional	19,053	3%
Enrollment Status of Students (2004)		
Full-time	494,691	72%
Part-time	194,089	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.	12,681	
Average Tuition (2005-06)		
Public 4-year institutions	\$8,729	
Public 2-year institutions	\$2,989	
Private 4-year institutions	\$23,544	
State and Local Appropriations for Higher Education		
Per \$1,000 of personal income, FY 2006	\$5	
Per capita, FY 2006	\$165	
% change, FY 1996-2006		25%

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	10%	23%
Associate's degree or higher	34%	19%

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

^{*} 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.

QUESTIONS & ANSWERS

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

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 statebased 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?

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*.

• What information is provided but not graded?

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.

• Why does *Measuring Up 2006* include international indicators?

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	В-	В	I
Alaska	В—	C+	F	F	В-	I
Arizona	D	B+	F	В	B+	I
Arkansas	D+	С	F	С	С	I
California	С	А	C-	В	А	Ι
Colorado	B+	A-	F	В	A–	I
Connecticut	A–	A-	F	B+	A	I
Delaware	C	В	F	A–	В-	I
Florida	C	C	F	A	В	I
Georgia	C+	D+	F	A	B-	I
Hawaii	C-	C	D	В-	A–	I
Idaho	C	D+	D	C+	C-	I
Illinois	В	A	F	B+	Α	+
Indiana	С	C+	F	B+	C	I
	B+				С	I
lowa	B+ B-	A-	F	A		I I
Kansas		A	F	B+	B+	
Kentucky	C-	B-	F	C+	C+	+
Louisiana	F	C-	F	C-	D+	I
Maine	В	B-	F	В	В-	I
Maryland	A-	А	F	В	А	+
Massachusetts	A	A	F -	A	A	+
Michigan	C-	A-	F	В	A	I
Minnesota	В	А	D	А	B+	Ι
Mississippi	D–	D	F	В	С	I
Missouri	С	В	F	B+	А	+
Montana	B+	C-	F	В-	C+	I
Nebraska	В	А	F	B+	В	Ι
Nevada	C-	С	F	F	C-	+
New Hampshire	B+	C+	F	А	А	I
New Jersey	А	A-	D	В	А	Ι
New Mexico	F	Α	F	D	С	I
New York	A-	B-	F	A-	B+	+
North Carolina	B+	B-	F	B+	В	I
North Dakota	В-	Α	F	В	C+	I
Ohio	В-	B-	F	В	B+	I
Oklahoma	D+	C+	F	С	В-	+
Oregon	C-	C+	F	В-	А	I
Pennsylvania	В	В	F	А	A	I
Rhode Island	C+	А	F	А	В	I
South Carolina	C+	D+	F	B+	С	+
South Dakota	В	А	F	B+	C+	I
Tennessee	C-	C-	F	В	C+	I
Texas	В-	C+	F	C+	В—	I
Utah	A	В	C-	В	A–	I
Vermont	B-	C	F	A	A–	I
Virginia	A–	В	F	B+	Α-	I
Washington	В	C-	D–	A	A–	I
Washington West Virginia	С—	C-	ν– F	C+	A- D+	I
Wisconsin	B+	A–	F	A	B-	I
Wyoming	C—	B+	F	А	C-	I