

MEASURING UP

2006

**THE STATE REPORT CARD
ON HIGHER EDUCATION**

MICHIGAN



**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.



MICHIGAN

Michigan's underperformance in preparing its young population for college could limit the state's access to a competitive workforce and weaken its economy over time. Since the early 1990s, Michigan has fallen behind in the proportion of 9th graders who graduate from high school in four years and enroll directly in college. Internationally, Michigan not only ranks very low in the proportion of certificates and degrees produced, but is outpaced by such low-performing nations as Poland and the Slovak Republic. Moreover, colleges and universities in Michigan have become less affordable for students and their families since the early 1990s. If these trends are not addressed, they could undermine the state's ability to compete successfully in a global economy.

Strengths

Preparation

■ Eighth graders perform well on national assessments in science.

Participation

■ A large percentage of working-age adults are enrolled part-time in college-level education or training. However, this percentage has decreased by 18% over the past decade, compared with a nationwide decline of 12%.

■ Among 18- to 24-year-olds, a gap remains between whites and non-whites in college participation, even though Michigan has narrowed this gap over the past 12 years.

Completion

■ A very large percentage of first-year students in community colleges return for their second year. Over the past 15 years, Michigan has shown some of the greatest improvement among the states on this measure.



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.

- Similarly, a large percentage of freshmen at public and private four-year colleges and universities return for their sophomore year. However, Michigan has declined substantially on this measure over the past 15 years.

- A substantial gap remains between whites and blacks in the proportion of students completing certificates and degrees relative to the number enrolled, despite improvement on this measure over the past decade.

Weaknesses

Preparation

- A very small proportion of 8th graders take algebra. Similarly, very small proportions of high school students enroll in upper-level math and science courses.

- The state's 8th graders perform very poorly on national assessments in writing.

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

- Very small proportions of 11th and 12th graders take and perform well on Advanced Placement tests.

Participation

- The chance that a high school student will enroll in college by age 19 is fairly low. Over the past decade, Michigan has declined by 7% on this measure, compared with a national decline of 2%. The percentage of 9th graders graduating from high school in four years and the percentage of high school graduates going on to college have both dropped.

- Young adults (ages 18-24) from high-income families are almost twice as likely to attend college as those from low-income families.

Affordability

- Net college costs for low- and middle-income students to attend community colleges represent 37% 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 approximately one-half of their annual family income. These two sectors enroll 82% of college students in the state.

- The state makes a very low investment in need-based financial aid compared with leading states, and Michigan offers no low-tuition college opportunities.

Completion

- Michigan performs poorly on international comparisons of enrolled students who complete certificate and degree programs.

Benefits

- Only a fair proportion of residents have a bachelor's degree, but this proportion has increased substantially over the past 12 years.

2006
Grade

Change
Over Time



Despite improvement, Michigan lags many other states in preparing students to succeed in college. This year Michigan receives a C- in preparation.

Graded Information

Compared with other states:

- Very small proportions of high school students in Michigan are enrolled in upper-level math (35%) and upper-level science (23%).

- A very small proportion (14%) of 8th graders take algebra.

- Eighth graders perform well on national assessments in science, but very poorly on national assessments in writing. Their performance in math and reading is only fair.

- 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, but fair proportions score well on college entrance exams.

- Two-thirds of secondary school students are taught by qualified teachers, which compares fairly well with top-performing states.

Other Key Facts

- Blacks in the 9th to 12th grades are about one-half as likely as whites to enroll in upper-level math.

- About 18% of children under age 18 live in poverty, which matches the national rate.

PREPARATION	MICHIGAN		Top States 2006
	1992*	2006	
High School Completion (20%)			
18- to 24-year-olds with a high school credential	87%	90%†	94%
K-12 Course Taking (35%)			
9th to 12th graders taking at least one upper-level math course	n/a	35%	64%
9th to 12th graders taking at least one upper-level science course	n/a	23%	40%
8th grade students taking algebra	n/a	14%	35%
12th graders taking at least one upper-level math course	n/a	36%	66%
K-12 Student Achievement (35%)			
8th graders scoring at or above "proficient" on the national assessment exam:			
in math	19%	29%	38%
in reading	n/a	28%	38%
in science	32%	35%	41%
in writing	n/a	24%	41%
Low-income 8th graders scoring at or above "proficient" on the national assessment exam in math	10%	13%	22%
Number of scores in the top 20% nationally on SAT/ACT college entrance exam per 1,000 high school graduates	148	184	237
Number of scores that are 3 or higher on an Advanced Placement subject test per 1,000 high school juniors and seniors	52	109	217
Teacher Quality (10%)			
7th to 12th graders taught by teachers with a major in their subject	56%	66%	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*.

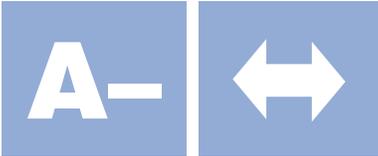
†Eighty-six percent of 18-24-year-olds have a regular high school diploma; 5% have a GED. The numbers shown for a regular high school diploma and a GED may not exactly equal the number for a high school credential due to rounding.

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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

Improvement
Over Time



Michigan continues to perform very well in enrolling students in higher education. This year Michigan receives an A- in participation.

Graded Information

Compared with other states:

- The chance of Michigan high school students enrolling in college by age 19 is fairly low, because few students graduate from high school and enroll in college.

- However, a high 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 decreased by 7%, compared to a national decline of 2%. The state's decrease is due to a decline in the percentage of students graduating from high school, and a drop in the percentage of graduates going on to college.

- The percentage of working-age adults who are enrolled part-time in college-level education or training has decreased by 18%, compared with a nationwide decline of 12%.

PARTICIPATION	MICHIGAN		Top States 2006
	1992*	2006	
Young Adults (60%)			
Chance for college by age 19	41%	38%	53%
18- to 24-year-olds enrolled in college	35%	42%	41%
Working-Age Adults (40%)			
25- to 49-year-olds enrolled part-time in any type of postsecondary education	5.4%	4.4%	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 narrowed substantially, but still remains. Currently, 44 out of 100 white young adults are enrolled in college, compared with 36 out of 100 young adults from other ethnic groups.

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

- The state's population is projected to grow by 5% from 2005 to 2020, below the national rate of 14%. During approximately the same period, the number of high school graduates is projected to decline by 1%.

- About 12% of the adult population has less than a high school diploma or its equivalent, compared with 14% of adults nationwide.

- In Michigan, 201 more students are leaving the state than are entering to attend college. About 10% of Michigan 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



Michigan has lost considerable ground in making higher education affordable. Michigan receives an F in affordability this year.

Graded Information

■ Compared with best-performing states, families in Michigan devote a large share of family income, even after financial aid, to attend public two-year colleges, and they devote a very large share of family income to attend public four-year colleges and universities. These two sectors enroll 82% 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 Michigan does not offer low-priced college opportunities.

■ Undergraduate students borrowed on average \$3,120 in 2005, one of the lowest amounts in the country.

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 28% to 36%.

Other Key Facts

■ In Michigan, 40% of students are enrolled in community colleges and 42% in public four-year colleges and universities.

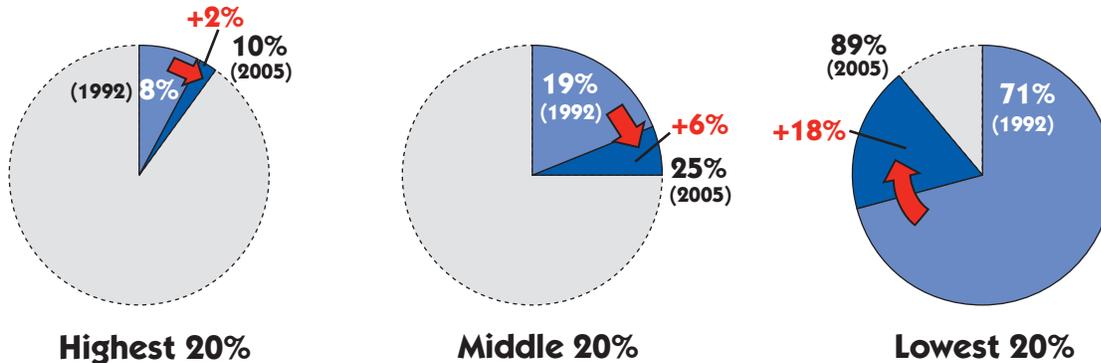
AFFORDABILITY	MICHIGAN		Top States In early 1990s
	1992*	2006	
Family Ability to Pay (50%)			
Percent of income (average of all income groups) needed to pay for college expenses minus financial aid:			
at community colleges	23%	24%	15%
at public 4-year colleges/universities	28%	36%	16%
at private 4-year colleges/universities	41%	48%	32%
Strategies for Affordability (40%)			
State investment in need-based financial aid as compared to the federal investment	33%	29%	89%
At lowest-priced colleges, the share of income that the poorest families need to pay for tuition	16%	17%	7%
Reliance on Loans (10%)			
Average loan amount that undergraduate students borrow each year	\$2,684	\$3,120	\$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.

College in Michigan 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 \$20,878 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 37% of their income annually:

Tuition, room, and board: \$8,608
 Financial aid received: -\$ 924
 Net college cost: \$7,684
 Percent of income: 37%

■ If the same student were to attend a public four-year college in the state, their net cost to attend college would represent about 53% of their income annually:

Tuition, room, and board: \$13,470
 Financial aid received: -\$ 2,339
 Net college cost: \$11,131
 Percent of income: 53%

Note

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

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	\$12,156	\$7,457	61%	\$10,807	89%	\$14,380	118%
20% of the population with lower-middle income	\$29,599	\$7,911	27%	\$11,454	39%	\$15,425	52%
20% of the population with middle income	\$50,000	\$8,330	17%	\$12,358	25%	\$16,474	33%
20% of the population with upper-middle income	\$77,224	\$8,459	11%	\$12,441	16%	\$16,880	22%
20% of the population with the highest income	\$125,440	\$8,495	7%	\$12,519	10%	\$17,238	14%
40% of the population with the lowest income	\$20,878	\$7,684	37%	\$11,131	53%	\$14,903	71%

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

2006
Grade

Change
Over Time



Michigan has shown improvement in the proportion of students earning their certificate or degree in a timely manner. This year Michigan 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.
- The percentage of freshmen at public and private four-year colleges and universities who return for their sophomore year is large.
- In addition, a large percentage of first-time, full-time college students complete a bachelor's degree within six years of enrolling in college.
- Only a fair proportion of students complete certificates and degrees relative to the number enrolled.

Change in Graded Measures

- During the past 15 years, the percentage of first-year community college students returning for their second year has increased substantially, placing Michigan among the fastest-improving states on this measure.

COMPLETION	MICHIGAN		Top States 2006
	1992*	2006	
Persistence (20%)[†]			
1st year community college students returning their second year	45%	57%	62%
Freshmen at 4-year colleges/universities returning their sophomore year	80%	74%	82%
Completion (80%)			
First-time, full-time students completing a bachelor's degree within 6 years of college entrance	56%	55%	64%
Certificates, degrees, and diplomas awarded at all colleges and universities per 100 undergraduate students	14	15	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*.

- During the same period, however, the percentage of freshmen at four-year colleges and universities returning for their sophomore year has declined substantially, making Michigan one of the fastest-declining states on this measure. Nonetheless, its current performance when compared to other states remains high.

- Moreover, during the past seven years, the percentage of first-time, full-time college students earning a bachelor's degree within six years of enrolling in college has declined, in contrast to a nationwide increase of 6%.

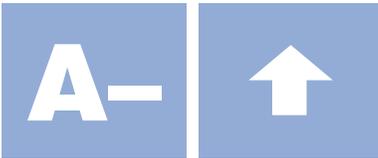
Other Key Facts

- Over the past decade, Michigan has narrowed the gap between whites and blacks in the proportion of students completing certificates and degrees relative to the number enrolled. Nonetheless, the gap is still substantial. Currently, 16 out of 100 white students enrolled complete degrees and certificates, compared to 12 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



Michigan has seen an increase in the benefits received from having a more highly educated population. Michigan earns an A- in benefits this year.

Graded Information

Compared with other states:

■ Only a fair proportion of residents have a bachelor's degree.

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

Change in Graded Measures

Over the past 12 years:

■ Michigan has been one of the fastest-improving states in the percentage of residents who have a bachelor's degree.

■ The percentage of residents voting has increased slightly, in contrast to a nationwide decrease 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 \$3.4 billion higher.

■ Over the past 12 years, Michigan has narrowed the gap between whites and other ethnic groups in the percentage who have a bachelor's degree, but the gap still exists. Currently, 28 out of 100 white adults have a bachelor's degree, compared to 23 out of 100 adults from other ethnic groups.

■ In 2002, Michigan scored 60 on the New Economy Index, which matched the

BENEFITS	MICHIGAN		Top States 2006
	1992*	2006	
Educational Achievement (37.5%)			
Population aged 25 to 65 with a bachelor's degree or higher	20%	27%	37%
Economic Benefits (31.25%)			
Increase in total personal income as a result of the percentage of the population holding a bachelor's degree	9%	10%	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%	3%	3%
Civic Benefits (31.25%)			
Residents voting in national elections	56%	57%	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	19%	22%
Adult Skill Levels (0%)*			
Adults demonstrating high-level literacy skills:			
quantitative	23%	27%	33%
prose	22%	26%	33%
document	19%	23%	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.

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



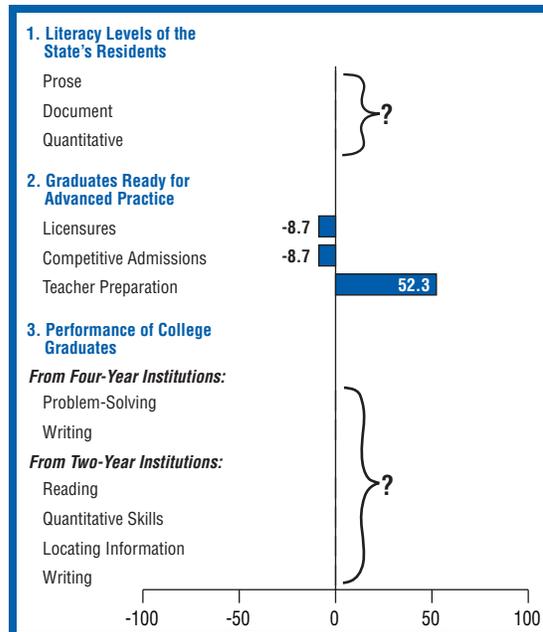
Like most states, Michigan receives an “Incomplete” in Learning because insufficient data would not allow meaningful state-by-state comparisons. However, data are available this year to examine the readiness of college graduates—from two- and four-year institutions—for advanced practice. State results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

Michigan Results

Michigan is about 8% below the national benchmark in workforce preparation as reflected in professional licensure examinations. Eight percent fewer Michigan graduates take such examinations than is typical nationally, and their pass rate matches the national average. Michigan is also about 8% below the national benchmark in preparing students for graduate study as reflected in graduate admis-

sions examinations. Seventeen percent fewer Michigan graduates take such examinations than is typical nationally, but the proportion earning competitive scores is somewhat above the national average. Finally, Michigan is more than 50% above the national benchmark with respect to pass rates on the state’s teacher examinations.

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

*A full report on the results of this project of the National Forum on College-Level Learning can be obtained from the National Center at http://www.highereducation.org/reports/mu_learning/index.shtml.

How Michigan Measures Up Internationally

Participation*

■ About 38% of young adults, ages 18 to 24, in Michigan are currently enrolled in college. Although Michigan's enrollment rate compares well internationally, it represents only 78% of the rate in Korea, the best-performing nation on this measure. Michigan is also surpassed by Greece.

Completion

■ When compared internationally, Michigan is surpassed by many countries in the proportion of students who complete certificates or degrees. With 15 out of 100 students enrolled completing a degree or certificate, Michigan's completion rate is only 64% of the rate in the United Kingdom, the top-performing country on this measure, where 24 out of 100 students complete certificates or degrees. Michigan also lags Japan, Portugal, Australia, Switzerland, Denmark, Ireland, New Zealand, France, Iceland, Korea, Belgium, Sweden, the Slovak Republic, Poland, Spain, the Netherlands, and Hungary (see figure 1).

Educational Level of Adult Population

■ Internationally, the proportion of younger adults, ages 25 to 34, with a college degree in Michigan is only 68% of the proportion in Japan, the top-performing nation on this measure. Michigan is also surpassed by Canada, Korea, Finland, Norway, Sweden, Belgium, Spain, France, Ireland, and Australia (see figures 2 and 3).

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

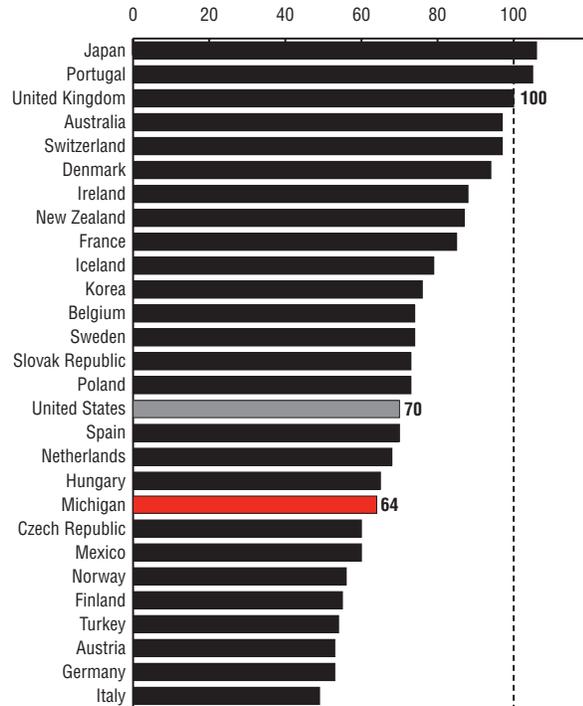


Figure 2. Percent of Older Adults (Ages 35-64) with an Associate's Degree or Higher, 2004

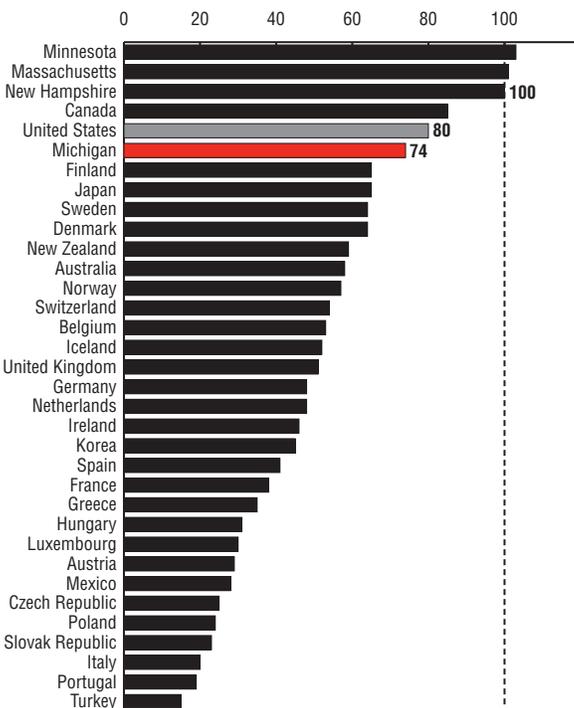
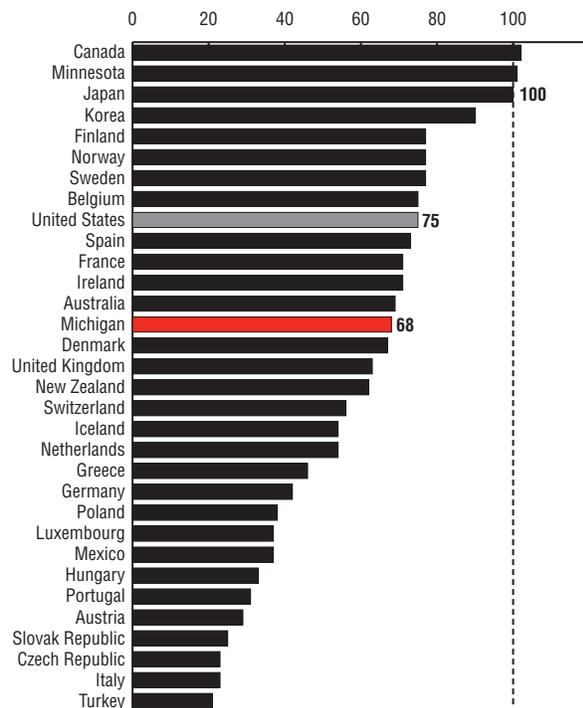


Figure 3. Percent of Younger Adults (Ages 25-34) with an Associate's Degree or Higher, 2004



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

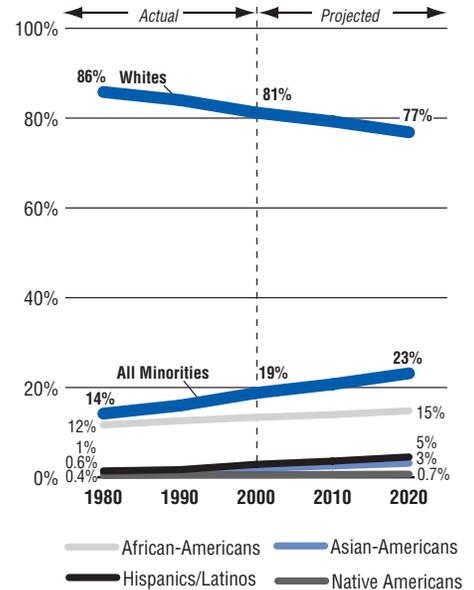
Note: The charts show index scores, as measured against the top performance. The top performance, defined as the median value of the top five performers, receives a score of 100. The top performer can be a nation or a U.S. state. For more international comparison information, go to www.highereducation.org.

State Context	Michigan	State Rank
Population (2005)	10,120,860	8
Gross state product (2004, in millions)	\$366,601	9
Leading Indicators	Michigan	U.S.
Projected % change in population, 2005-2020	5%	14%
Projected % change in number of all high school graduates, 2002-2017	-1%	8%
Projected budget surplus/shortfall by 2013	-5%	-6%
Average income of poorest 20% of population (2004)	\$12,156	\$12,168
Children in poverty (2004)	18%	18%
Percent of adult population with less than a high school diploma or equivalent (2004)	12%	14%
New economy index (2002)*	60	60
Facts and Figures	Michigan	
	Number/Amount	Percent
Institutions of Postsecondary Education (2004-05)		
Public 4-year	15	
Public 2-year	30	
Private 4-year	55	
Private 2-year	5	
Students Enrolled by Institution Type (2004)		
Public 4-year	221,470	42%
Public 2-year	211,174	40%
Private 4-year	93,312	18%
Private 2-year	3,127	1%
Students Enrolled by Level (2004)		
Undergraduate	529,083	85%
Graduate	79,314	13%
Professional	12,583	2%
Enrollment Status of Students (2004)		
Full-time	359,526	58%
Part-time	261,454	42%
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.	-201	
Average Tuition (2005-06)		
Public 4-year institutions	\$6,943	
Public 2-year institutions	\$2,082	
Private 4-year institutions	\$13,483	
State and Local Appropriations for Higher Education		
Per \$1,000 of personal income, FY 2006	\$6	
Per capita, FY 2006	\$199	
% change, FY 1996-2006		20%

* 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	10%	21%
Associate's degree or higher	34%	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