

AGENDA ITEM SUMMARY

AGENDA ITEM

Missouri High School Graduates Performance Report
Coordinating Board for Higher Education
April 6, 2017

DESCRIPTION

The Coordinating Board for Higher Education provides an annual report to the State Board of Education detailing the preparation, persistence, and completion rates of public high school graduates who enroll at Missouri's public two- and four-year postsecondary institutions. The intent of this board item is to provide a summary of the Missouri High School Graduates Performance Report for the public high school graduating classes of 2016 (Enrollment and Preparation), 2015 (Performance and Retention), and 2010 (Degree Completion).

Background

The Missouri High School Graduates Performance Report tracks Missouri's public high school graduates entering the state's public two- and four-year degree-granting postsecondary institutions as first-time, full-time, undergraduate, degree-seeking students in the fall semester following their high school graduation.

The annual report, which was first issued in 1996, provides information to secondary and postsecondary stakeholders regarding student preparation, persistence, and completion. Background on the history and structure of the High School Graduates Performance Report is available in Attachment A. Selected statewide summary data are described below. Detailed summary tables are included in Attachment B, and trend tables for individual high schools are available at <http://dhe.mo.gov/data/hsggradreport.php>. Current detail data will be added as soon as is practicable following the April meeting of the Coordinating Board.

Enrollment and Preparation

Total enrollment of same-year Missouri public high school graduates in Missouri public institutions increased by 1.8 percent from 21,453 first-time, full-time, degree-seeking undergraduates in 2015 to 21,833 in 2016. 9,769 students (44.7 percent) attended two-year institutions, and 12,064 students (55.3 percent) attended four-year institutions. Enrollment of first-time, full-time, degree-seeking students increased by 5.0 percent at public two-year institutions from the previous year and decreased at public four-year institutions by 0.7 percent. Detailed summary tables are included in Attachment B.

This report provides the state's benchmark measurement of enrollment in remedial coursework, which continues to decline overall and in math. Since 2014, the CBHE Recommended College Preparatory High School Core Curriculum has included a fourth year of mathematics for incoming freshmen. The MDHE also continues to work with the institutions to encourage the wider implementation of co-requisite coursework, which places more entering students in credit-bearing courses and shortens their paths to a credential. These and other policy changes and major statewide initiatives continue to impact the benchmark remediation rate.

Remedial Participation of Recent Missouri Public High School Graduates in Public Postsecondary Institutions					
	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016
Total	35.6%	35.6%	30.8%	28.2%	26.8%
Math	30.8%	30.1%	26.2%	23.8%	21.5%
English	14.3%	15.5%	12.3%	10.0%	11.4%
Reading	9.1%	9.7%	7.6%	6.1%	6.6%

Other Trends in Enrollment and Preparation

- Overall enrollment in remedial coursework declined for the third consecutive year, and enrollment in remedial math declined for the fourth year in a row. Enrollments in remedial English/writing and reading ticked up from fall 2015.
- Overall enrollment in remediation at moderately selective institutions has declined from 33.0 percent in fall 2012 to 19.7 percent in fall 2016. Enrollment in remedial math at open admissions institutions has declined from 47.1 percent in fall 2012 to 34.5 percent in fall 2016.
- Overall remedial enrollment and enrollment in all content areas (math, English, and reading) increased among African-American students compared to fall 2015. Enrollment levels are now very similar to the fall 2014 entering cohort after a marked one-year decline.
- Overall enrollment in remediation has decreased dramatically among Hispanic students since 2012 (45.5 percent to 28.5 percent) even as their numbers have increased dramatically (275 to 885).

Performance and Retention in College

The High School Graduates Performance Report also tracks several measures of student success and persistence in Missouri's public postsecondary sector. Detailed summary tables are included in Attachment B. Among the more significant findings for spring 2015 public high school graduates are:

- Fall-to-fall retention increased slightly over 2014 from 76.6 percent to 77.7 percent. Retention for all racial/ethnic groups increased except for African-Americans, for whom retention was essentially unchanged.
- On average, this cohort completed 32.6 credits by the end of the spring 2016 term with a 2.87 grade point average. Asian/Pacific Islanders completed 35.5 credits with a 3.05 GPA, and African-American students completed 21.2 credits with a 2.34 GPA.
- Average first-term GPAs are up for all racial/ethnic groups compared to the fall 2014 entering cohort and increased overall from 2.67 to 2.81.

- 87.0 percent of fall 2015 entering students completed their first spring semester and 77.7 percent returned for the fall. For African-American students, however, 82.6 percent completed the first spring semester, but only 65.6 percent returned for the fall.

Degree Completion

The timely completion of a certificate or degree is an additional indication of how well prepared Missouri's high school graduates are for college-level work. Detailed tables in Attachment B show the six-year graduation rate of students beginning college in the fall of 2010. The findings include:

- Slightly less than half (48.2 percent) of incoming public Missouri high school students who entered as a first-time, full-time degree-seeking student in fall 2010 had earned a two- or four-year degree from a public Missouri college or university by spring 2016. This is an increase over the 2009 cohort (47.7 percent). This rate does not account for transfer or completion from an independent or out-of-state institution.
- 35.9 percent had earned a bachelor's degree, 15.8 percent earned an Associate degree, and 2.1 percent earned a graduate or professional degree within six years. Some students earned more than one degree, and are counted here more than once.
- As part of a continuing trend, women were more likely than men (50.6 percent compared to 45.3 percent) to have earned a degree within six years, as were students enrolled at highly selective (79.1 percent) and selective (67.2 percent) institutions.

Conclusion

The Missouri High School Graduates Performance Report provides important data about trends in the preparation and performance of public high school graduates who attend public postsecondary institutions in Missouri. The entering high school class of 2016 enrolled in remedial coursework at a rate which continues to decline overall and in math, and overall fall-to-fall retention and degree completion increased after one-year declines.

STATUTORY REFERENCE

Section 173.750 RSMo – Annual reporting of performance of graduates, furnishing of report procedure data included

RECOMMENDED ACTION

This is an information item only.

ATTACHMENT(S)

Attachment A – History and Background

Attachment B – Detailed Tables

High School Graduates Performance Report

History and Background

The Missouri High School Graduates Performance Report tracks Missouri public high school graduates entering the state's public two- and four-year postsecondary institutions as first-time full-time, degree-seeking students in the fall semester following their high school graduation.

In accordance with Section 173.750, RSMo, the Missouri High School Graduates Performance Report should provide information to individual high schools and should be disaggregated by race and gender. No data identifying individual students should be included. The governing statute is available in its entirety at

<http://www.moga.mo.gov/mostatutes/stathtml/17300007501.HTML>. The report should include:

- Grade point average after the initial year in college;
- Percent of students returning to college after the first and second semester;
- Percent of students taking remedial courses in the basic academic subjects of English, mathematics, or reading; and
- Other data as determined by rule and regulation of the Coordinating Board for Higher Education.

Data comprising the report comes from student enrollment data provided annually by Missouri's public colleges and universities. No data in the report comes from the state's independent higher education institutions. High school of record was verified by building-level data from the Missouri Department of Elementary and Secondary Education.

High School Graduates Performance Report

Detailed Tables

Enrollment and Preparation

Table 1: Recent Public Missouri High School Graduate Enrollment by Sector, Gender, and Race/Ethnicity, 2006 to 2016												10-Year % Change	1-Year % Change
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
Overall Enrollment	20,195	20,839	21,598	22,228	23,948	23,742	21,018	22,034	22,443	21,453	21,833	8.1%	1.8%
Two-Year	8,734	9,188	9,227	10,504	11,225	11,279	9,132	10,393	10,610	9,303	9,769	11.9%	5.0%
	43.2%	44.1%	42.7%	47.3%	46.9%	47.5%	43.4%	47.2%	47.3%	43.4%	44.7%		
Four Year	11,461	11,651	12,371	11,724	12,723	12,463	11,861	11,641	11,833	12,150	12,064	5.3%	-0.7%
	56.8%	55.9%	57.3%	52.7%	53.1%	52.5%	56.4%	52.8%	52.7%	56.6%	55.3%		
Women	11,093	11,421	11,755	12,013	13,067	12,997	11,596	12,175	12,342	11,816	11,983	8.0%	1.4%
	54.9%	54.8%	54.4%	54.0%	54.6%	54.7%	55.2%	55.3%	55.0%	55.1%	54.9%		
Men	9,101	9,411	9,838	10,211	10,863	10,733	9,397	9,844	10,092	9,628	9,840	8.1%	2.2%
	45.1%	45.2%	45.6%	45.9%	45.4%	45.2%	44.7%	44.7%	45.0%	44.9%	45.1%		
African American	1,793	1,895	2,055	2,269	2,433	2,553	1,525	2,209	2,065	2,010	2,138	19.2%	6.4%
	8.9%	9.1%	9.5%	10.2%	10.2%	10.8%	7.3%	10.0%	9.2%	9.4%	9.8%		
Caucasian	16,179	16,567	17,723	17,758	18,381	18,011	14,289	17,215	17,071	16,792	17,007	5.1%	1.3%
	80.1%	79.5%	82.1%	79.9%	76.8%	75.9%	68.0%	78.1%	76.1%	78.3%	77.9%		
Hispanic	381	359	481	486	374	343	275	470	620	846	885	132.3%	4.6%
	1.9%	1.7%	2.2%	2.2%	1.6%	1.4%	1.3%	2.1%	2.8%	3.9%	4.1%		
Asian / Pacific Islander	347	345	372	347	408	395	333	486	537	497	489	40.9%	-1.6%
	1.7%	1.7%	1.7%	1.6%	1.7%	1.7%	1.6%	2.2%	2.4%	2.3%	2.2%		
Other	1,495	1,673	967	1,368	2,352	2,440	4,596	1,654	2,150	1,308	1,314	-12.1%	0.5%
	7.4%	8.0%	4.5%	6.2%	9.8%	10.3%	21.9%	7.5%	9.6%	6.1%	6.0%		

Table 2: Recent Missouri Public High School Graduate Enrollment in Remediation by Institutional Admissions Selectivity; 2012 to 2016

	2012	2013	2014	2015	2016
Selective	13.1%	10.9%	10.5%	9.6%	9.4%
Math	12.4%	10.1%	9.5%	8.7%	8.8%
English	1.5%	1.4%	1.6%	1.4%	1.1%
Reading	-	-	-	-	-
Mod Selective	33.0%	31.7%	21.4%	22.5%	19.7%
Math	26.9%	25.2%	13.0%	15.5%	11.7%
English	11.1%	12.5%	11.1%	10.3%	10.2%
Reading	3.6%	3.8%	3.4%	0.5%	0.5%
Open	54.7%	54.2%	47.8%	45.2%	42.2%
Math	47.1%	45.7%	41.7%	38.9%	34.5%
English	25.3%	25.8%	20.0%	16.7%	19.2%
Reading	18.0%	18.0%	13.8%	12.8%	13.4%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Table 3: Recent Missouri Public High School Graduate Enrollment in Remediation by Gender; 2012 to 2016

	2012	2013	2014	2015	2016
Women	37.5%	38.6%	32.4%	29.9%	28.3%
Math	33.2%	33.7%	28.2%	25.9%	23.5%
English	14.1%	15.4%	12.2%	9.9%	11.6%
Reading	10.0%	10.8%	8.4%	6.4%	7.0%
Men	33.3%	31.9%	28.7%	26.1%	24.9%
Math	27.9%	25.7%	23.6%	21.2%	19.0%
English	14.5%	15.6%	12.4%	10.2%	11.2%
Reading	8.0%	8.4%	6.6%	5.8%	6.1%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Table 4: Recent Missouri Public High School Graduate Enrollment in Remediation by Race; 2012 to 2016					
	2012	2013	2014	2015	2016
African-American	54.1%	65.5%	52.5%	47.0%	52.6%
Math	46.9%	57.8%	44.0%	40.4%	43.1%
English	25.3%	37.6%	32.1%	23.8%	32.6%
Reading	12.4%	27.1%	23.9%	18.3%	23.6%
Caucasian	30.3%	31.7%	27.0%	25.8%	23.3%
Math	25.8%	26.8%	23.0%	21.7%	18.7%
English	10.3%	12.3%	10.0%	8.3%	8.5%
Reading	5.8%	7.4%	5.6%	4.8%	4.6%
Hispanic	45.5%	43.8%	42.4%	32.4%	28.5%
Math	33.9%	35.1%	31.6%	26.1%	22.4%
English	20.9%	19.4%	19.7%	13.2%	11.8%
Reading	17.3%	12.3%	13.4%	5.7%	6.0%
Asian / Pacific Islander	18.5%	26.1%	25.0%	20.3%	20.7%
Math	13.4%	19.3%	18.3%	16.5%	14.3%
English	9.0%	12.8%	12.5%	7.4%	11.5%
Reading	3.9%	8.6%	8.4%	5.6%	6.5%
Other / Unknown	46.8%	37.7%	38.0%	30.5%	31.0%
Math	41.9%	29.3%	34.6%	26.2%	25.0%
English	23.1%	18.0%	9.1%	9.7%	13.9%
Reading	18.4%	9.6%	5.4%	5.4%	6.7%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Performance and Retention in College

Table 5: Recent Missouri Public High School Graduate Retention by Gender and Race/Ethnicity, Fall 2015 - Fall 2016

	Students	Completed Fall 2015	Avg. Fall 2015 GPA	Avg. Credits Completed (Fall 2015)	Completed Spring 2016	Avg. Spring 2016 GPA	Avg. Credits Completed (Spring 2016)	Enrolled Fall 2016
Female	11,808	98.2%	2.92	21.1	87.9%	2.96	33.4	79.0%
African American	1,205	97.7%	2.41	11.9	82.9%	2.46	22.2	69.3%
Caucasian	9,186	98.4%	3.00	22.5	89.0%	3.04	35.1	80.5%
Hispanic	452	94.4%	2.78	19.3	83.4%	2.80	30.5	76.3%
Asian / Pacific Islander	258	98.1%	2.99	23.2	92.6%	3.06	36.1	83.7%
Other/Unknown	707	97.0%	2.76	19.1	83.4%	2.80	30.5	76.5%
Male	9,609	97.6%	2.69	19.5	86.0%	2.76	31.6	76.1%
African American	803	96.2%	2.04	10.7	80.0%	2.16	19.8	61.2%
Caucasian	7,579	97.8%	2.76	20.6	87.1%	2.82	33.0	77.9%
Hispanic	393	96.7%	2.43	16.1	76.3%	2.60	27.9	71.5%
Asian / Pacific Islander	239	99.2%	2.91	21.1	86.2%	3.04	34.8	85.4%
Other/Unknown	595	97.5%	2.68	18.8	86.4%	2.72	30.2	73.5%
Total	21,426	97.9%	2.81	20.4	87.0%	2.87	32.6	77.7%
African American	2,010	97.1%	2.61	11.4	82.6%	2.34	21.2	65.6%
Caucasian	16,769	98.2%	2.89	21.7	88.1%	2.94	34.1	79.3%
Hispanic	845	95.5%	2.62	17.8	80.1%	2.71	29.4	74.1%
Asian / Pacific Islander	497	98.6%	2.95	22.2	89.5%	3.05	35.5	84.5%
Other/Unknown	1,305	97.2%	2.72	18.9	84.8%	2.76	30.4	75.2%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Missouri High School Graduates Performance Report – Attachment B

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Table 6: Recent Missouri Public High School Graduate Retention by Sector and Race/Ethnicity, Fall 2015- Fall 2016

	Students	Completed Fall 2015	Avg. Fall 2015 GPA	Avg. Credits Completed (Fall 2015)	Completed Spring 2016	Avg. Spring 2016 GPA	Avg. Credits Completed (Spring 2016)	Enrolled Fall 2016
Public 2Y	9,295	96.5%	2.56	17.2	79.8%	2.68	26.5	66.8%
African American	833	95.1%	2.05	7.8	72.9%	2.17	13.7	53.8%
Caucasian	7,259	97.0%	2.63	18.5	81.1%	2.74	28.3	68.3%
Hispanic	425	92.5%	2.35	14.5	69.9%	2.52	22.8	65.4%
Asian / Pacific Islander	173	98.3%	2.57	14.0	80.9%	2.83	23.1	73.4%
Other/Unknown	605	95.2%	2.48	16.6	79.8%	2.56	24.8	66.1%
Public 4Y	12,131	99.0%	3.01	22.8	92.6%	3.00	36.6	86.1%
African American	1,177	98.6%	2.41	13.9	87.9%	2.44	25.7	74.6%
Caucasian	9,510	99.1%	3.09	24.0	93.5%	3.07	38.0	87.8%
Hispanic	420	98.6%	2.87	20.9	90.5%	2.86	34.5	82.9%
Asian / Pacific Islander	324	98.8%	3.15	26.5	94.1%	3.15	41.2	90.4%
Other/Unknown	700	99.0%	2.93	20.9	89.1%	2.92	34.6	83.0%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Degree Completion

Table 7: Recent Missouri Public High School Graduate Six-Year Completion Rate by Gender and Race/Ethnicity, Fall 2010 through Spring 2016

	Students	% Completed Associate's	% Completed at least Bachelors'	% Completed Graduate / Professional	Total Completions
Female	13,001	16.8%	37.3%	2.6%	50.6%
African American	1459	7.0%	22.8%	0.5%	28.5%
Caucasian	9,671	17.6%	41.4%	3.1%	55.3%
Hispanic	347	13.5%	36.9%	2.9%	49.0%
Asian / Pacific Islander	408	24.3%	35.5%	3.4%	52.2%
Other/Unknown	1116	21.2%	21.9%	1.1%	38.4%
Male	10,842	14.5%	34.1%	1.5%	45.3%
African American	924	5.3%	18.8%	0.8%	23.4%
Caucasian	8,350	15.2%	38.0%	1.7%	49.6%
Hispanic	267	9.7%	26.2%	2.2%	34.8%
Asian / Pacific Islander	308	14.9%	30.8%	1.9%	41.6%
Other/Unknown	993	18.8%	18.9%	0.6%	33.5%
Total	23,861	15.8%	35.9%	2.1%	48.2%
African American	2389	6.3%	21.3%	0.6%	26.5%
Caucasian	18,031	16.5%	39.8%	2.4%	52.6%
Hispanic	614	11.9%	32.2%	2.6%	42.8%
Asian / Pacific Islander	716	20.3%	33.5%	2.8%	47.6%
Other/Unknown	2111	20.1%	20.5%	0.9%	36.1%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Table 8: Recent Missouri Public High School Graduate Six-Year Completion Rate by Institutional Admissions Selectivity, Fall 2010 through Spring 2016

	Students	Completed Associate's Degree	% Completed at least Bachelor's	% Completed Graduate / Professional	Total Completions
Highly Selective	852	2.3%	76.8%	10.3%	79.1%
Selective	7,057	3.7%	63.7%	4.5%	67.2%
Moderately Selective	3,700	4.2%	52.2%	2.0%	54.9%
Open	12,252	27.2%	12.1%	0.2%	33.0%

Source: Enhanced Missouri Student Achievement Study (EMSAS)