

BALTIMORE COUNTY PUBLIC SCHOOLS

DATE: September 23, 2008

TO: **BOARD OF EDUCATION**

FROM: Dr. Joe A. Hairston, Superintendent

SUBJECT: **UPDATE ON PERFORMANCE GOALS**

ORIGINATOR: Tamela H. Hawley, Director, Research, Accountability, and Assessment

**RESOURCE
PERSONS:**

INFORMATION

That the Board of Education receives an update on the performance of BCPS along various indicators of student achievement.

Attachment – Performance Update

Baltimore County Public Schools Performance Update

Where have we been?

Where are we?

Where are we going?

Tuesday, September 23, 2008

Highlights from Seismic Shift

- Baltimore County has increased in population, growing from 632,134 in 1990 to 811,867 in 2008.
- The number of minorities has increased from 15.0% in 1990 to 31.6% in 2007.
- The median income has increased but so has the percentage of students receiving Free and Reduced Price Services (FARMS).
- Student enrollment in the district continues to increase (20.6% since 1990).
- Minority enrollment has increased by 169% since 1990.
- The number of ELL students has increased by 251% since 1990.
- The number of FARMS students has increased from 12.6% in 1990 to 37.1% in 2007.

Seismic Shifts in Baltimore County, BCPS, July 2008

Sources: Baltimore County Government Office of Planning,
Baltimore Metropolitan Council

Elementary School

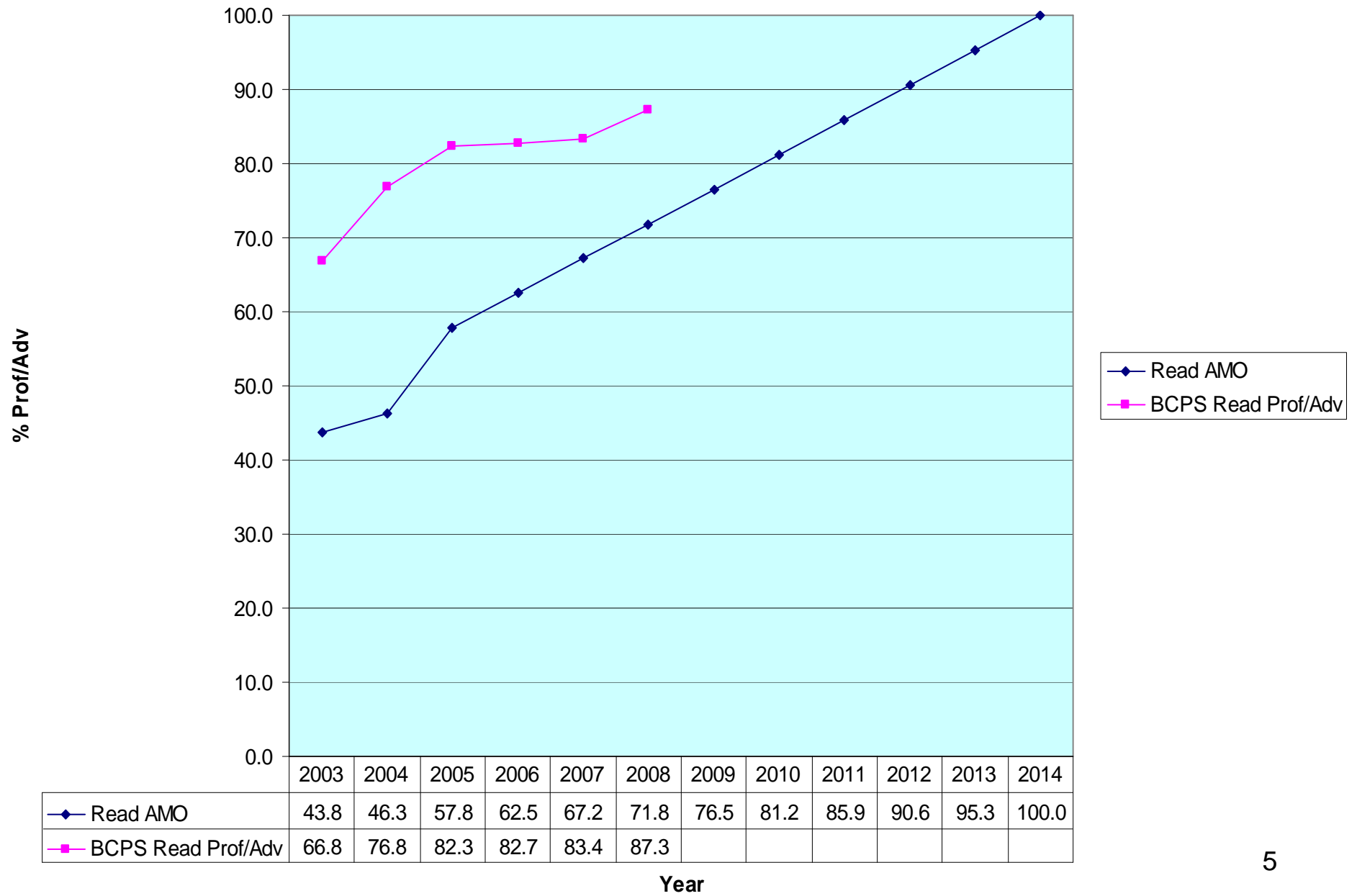
and

Middle School Performance

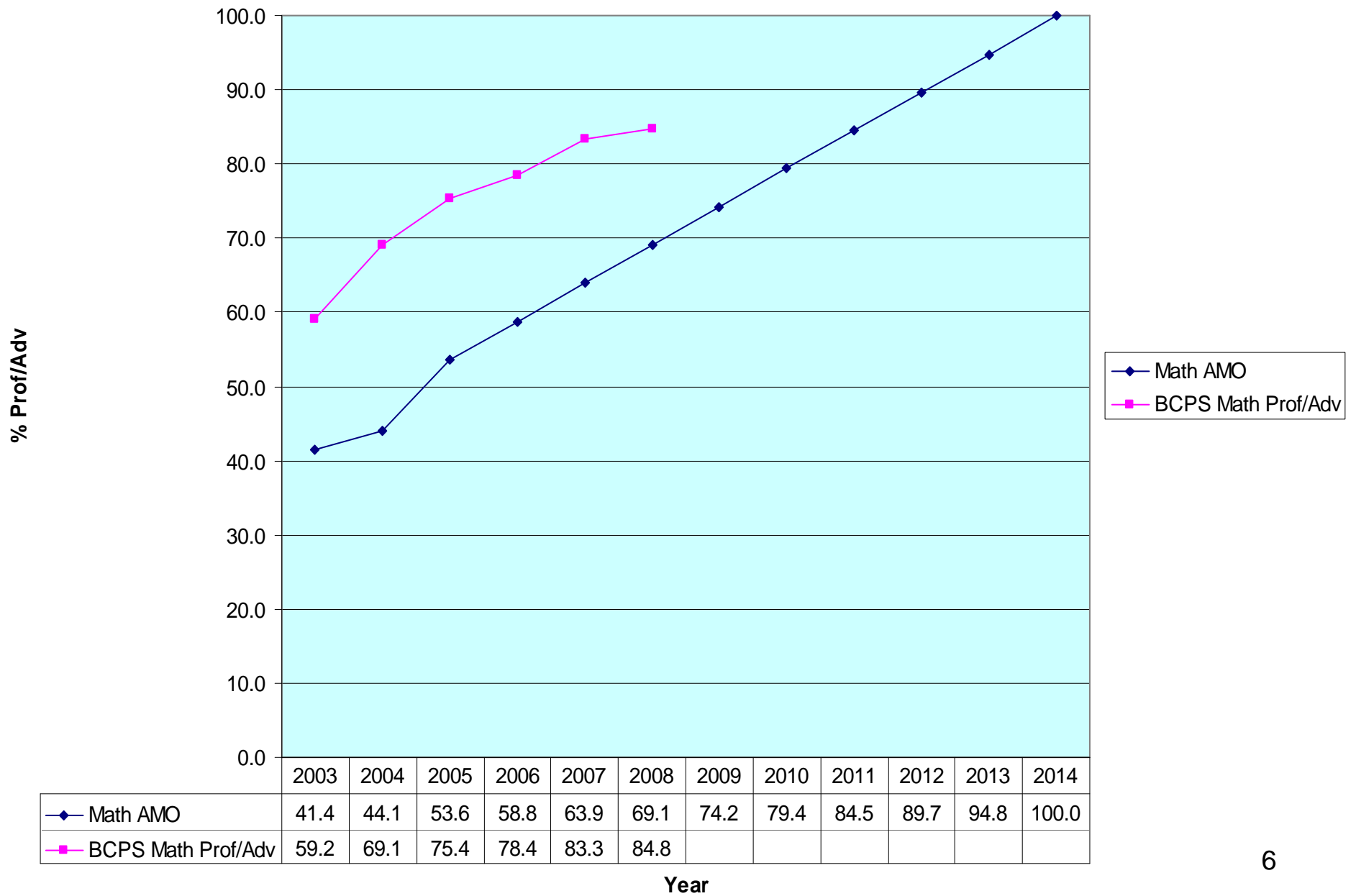
Highlights from MSA Performance

- Students scores on Reading and Mathematics have increased over time in Elementary and Middle school.
- Students scores have consistently surpassed the AMO targets outlined by NCLB.

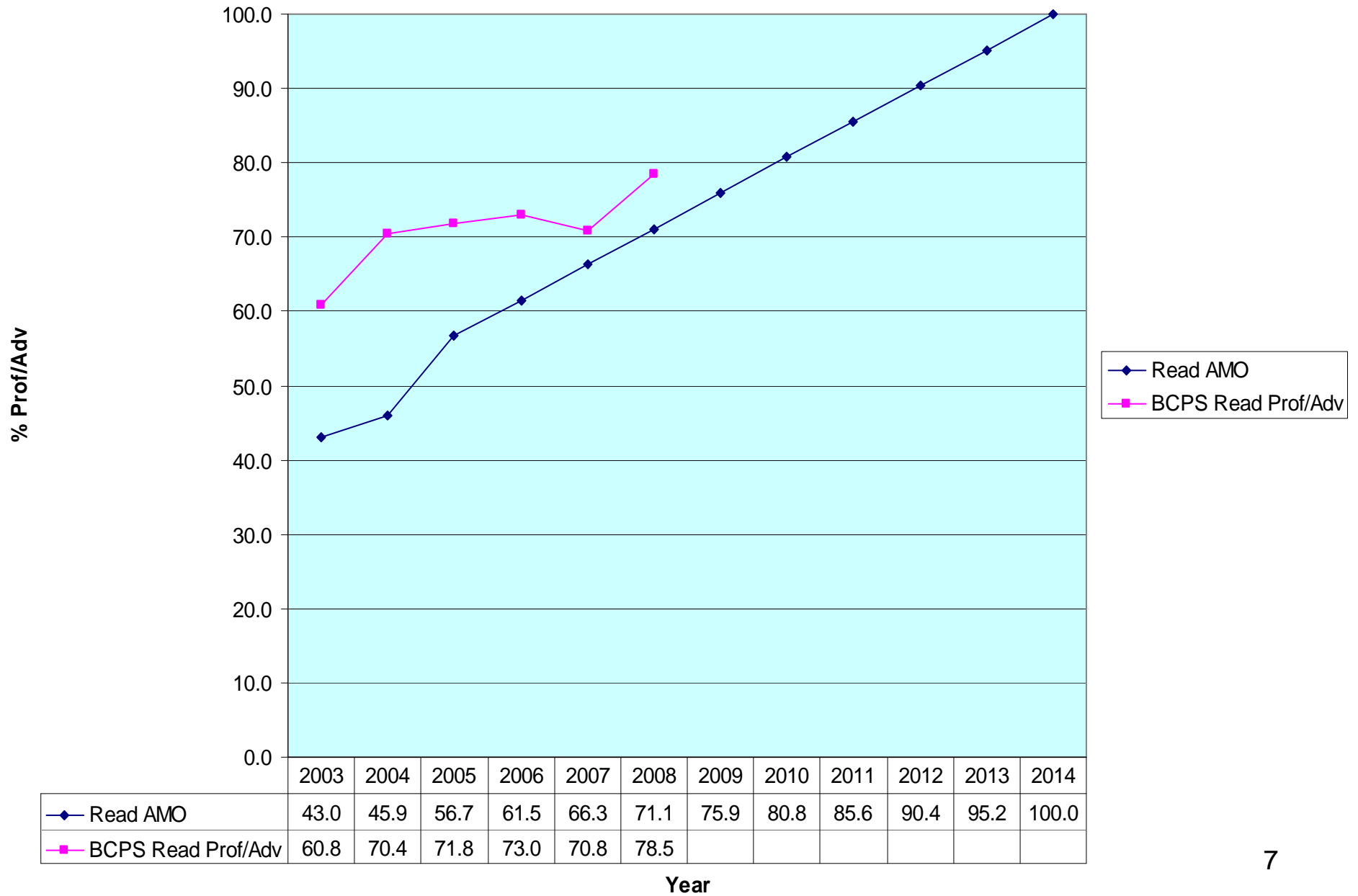
BCPS MSA Elementary Reading v. AMO



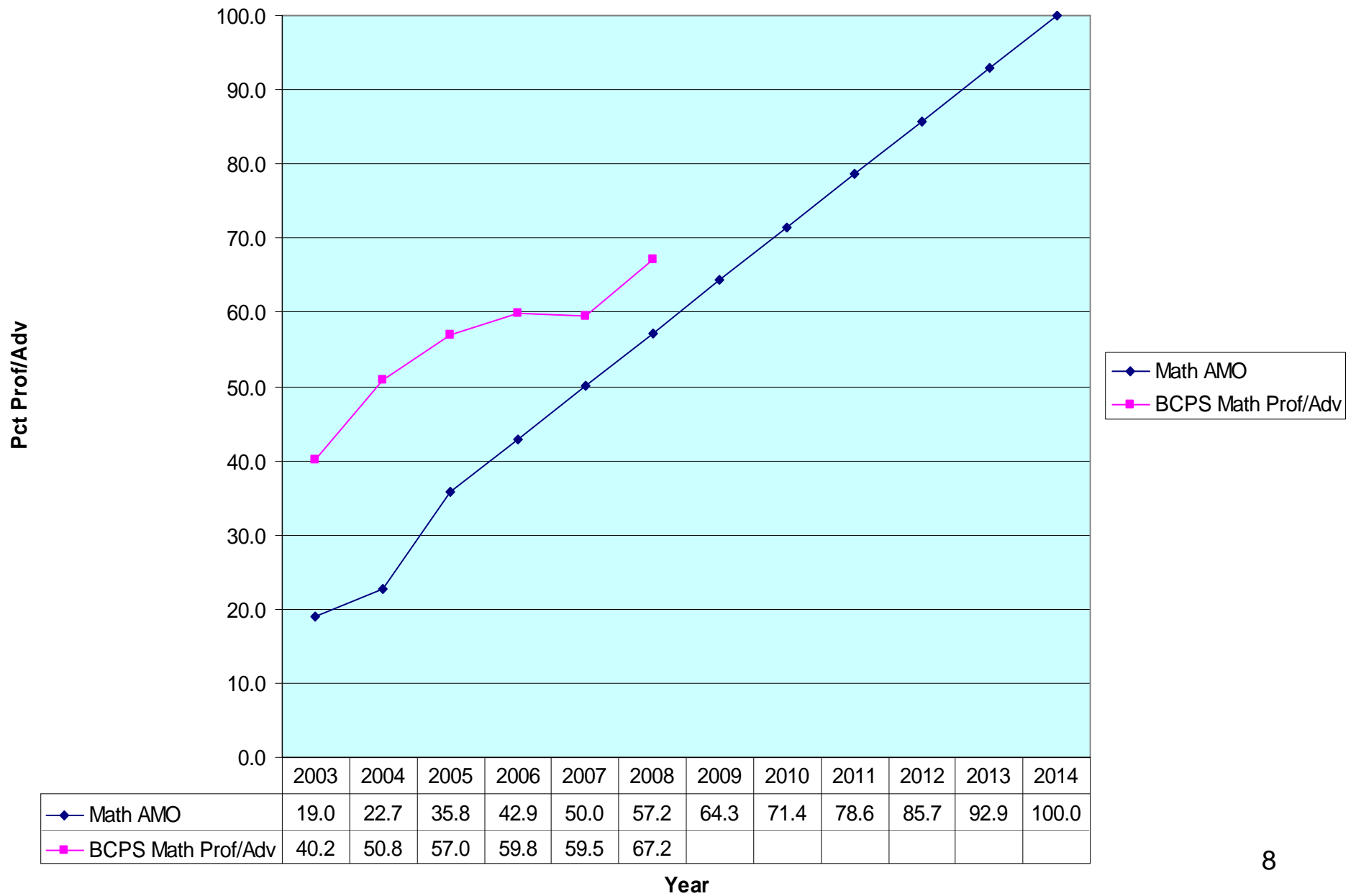
BCPS MSA Elementary Math v. AMO



BCPS MSA Middle Reading v. AMO



BCPS MSA Middle Math v. AMO

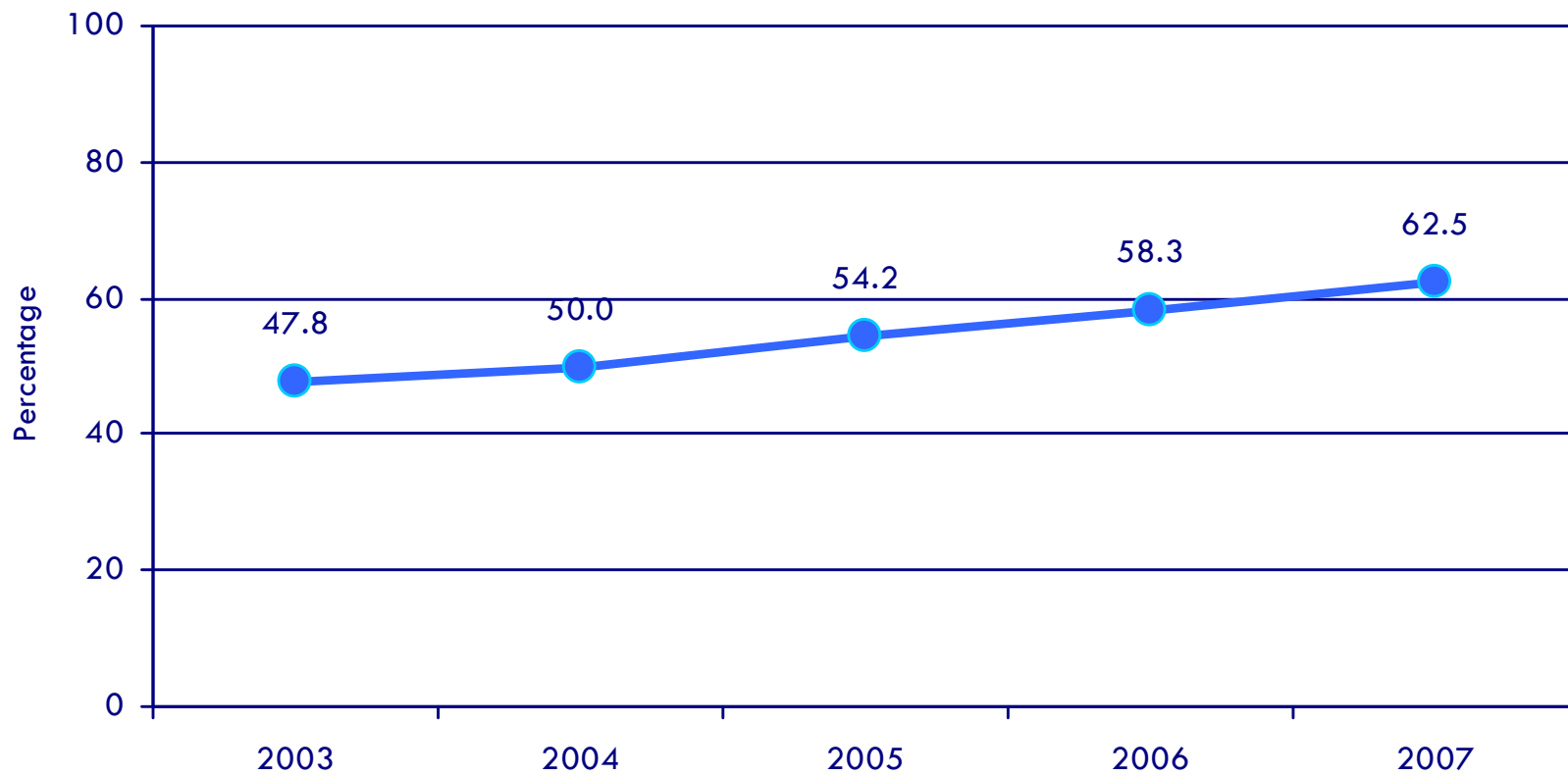


High School Performance

Highlights in High School Performance

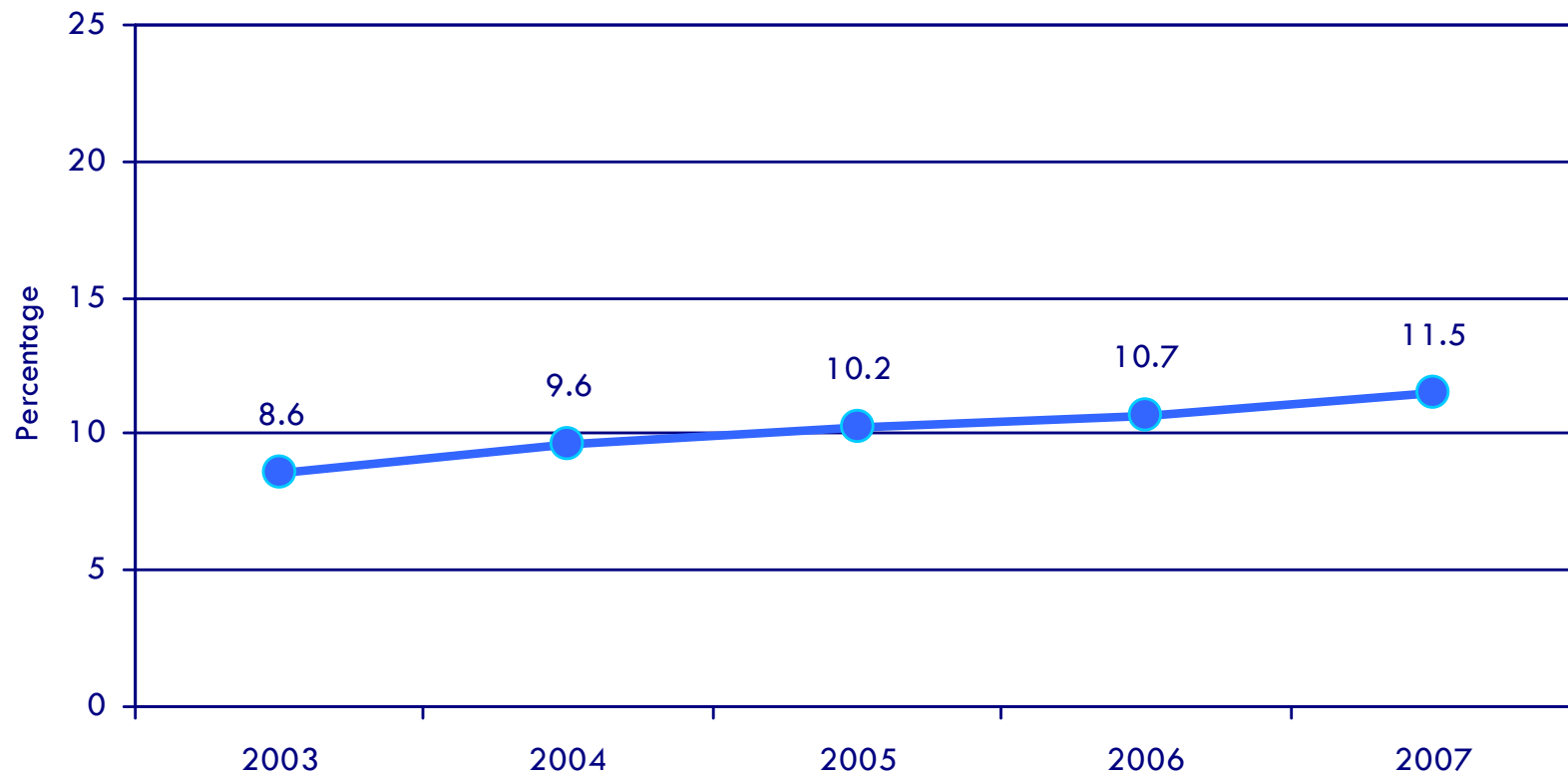
- Participation in AP courses has increased substantially over the last few years.
- Percentage of students passing AP exams has remained above or near the 70% target district-wide.

Chart 1.13.1 - AP Participation Rate
Schools Meeting or Exceeding National Average



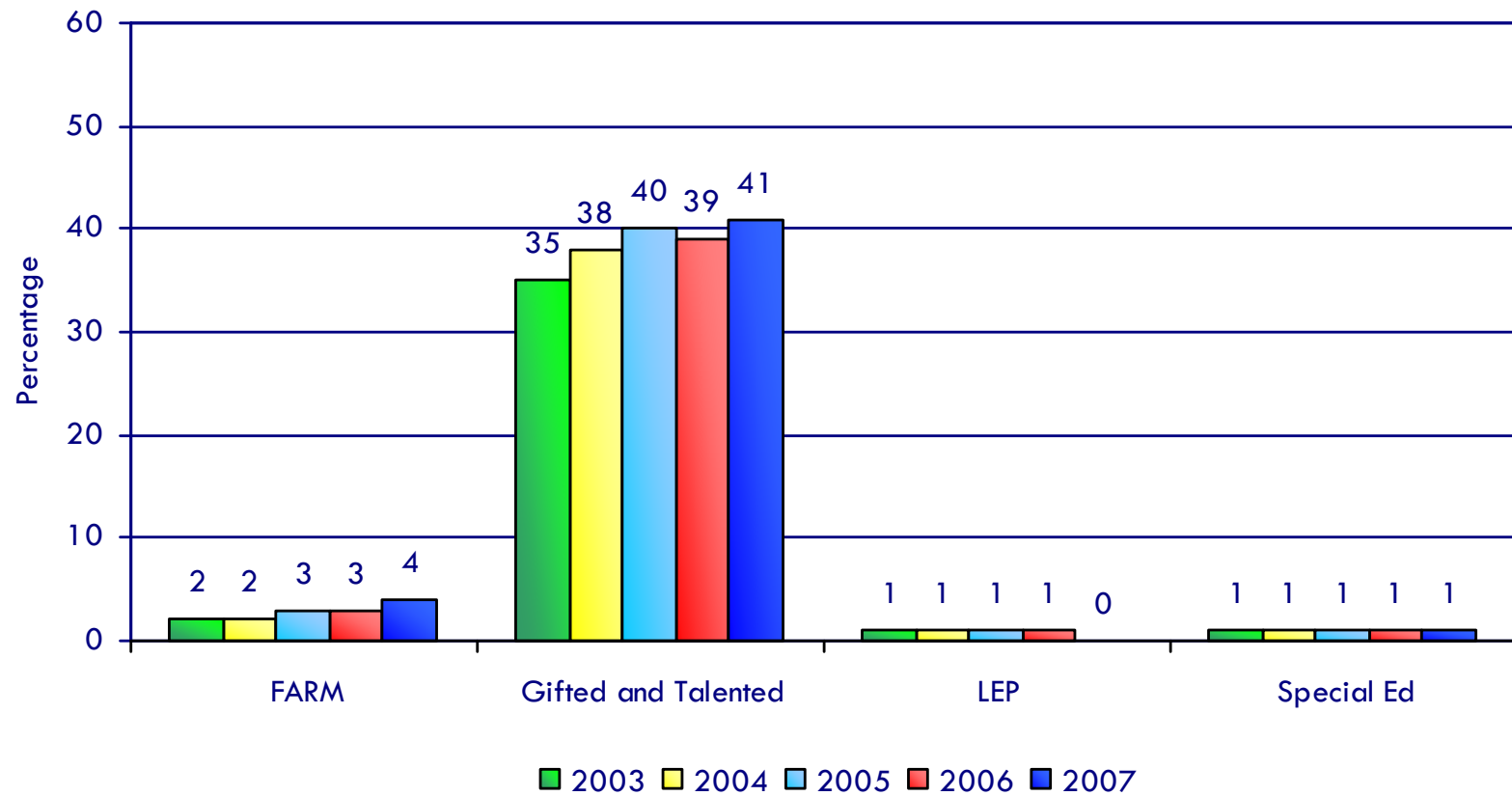
BCPS standard is 100%

Chart 1.13.2 - AP Participation Rate



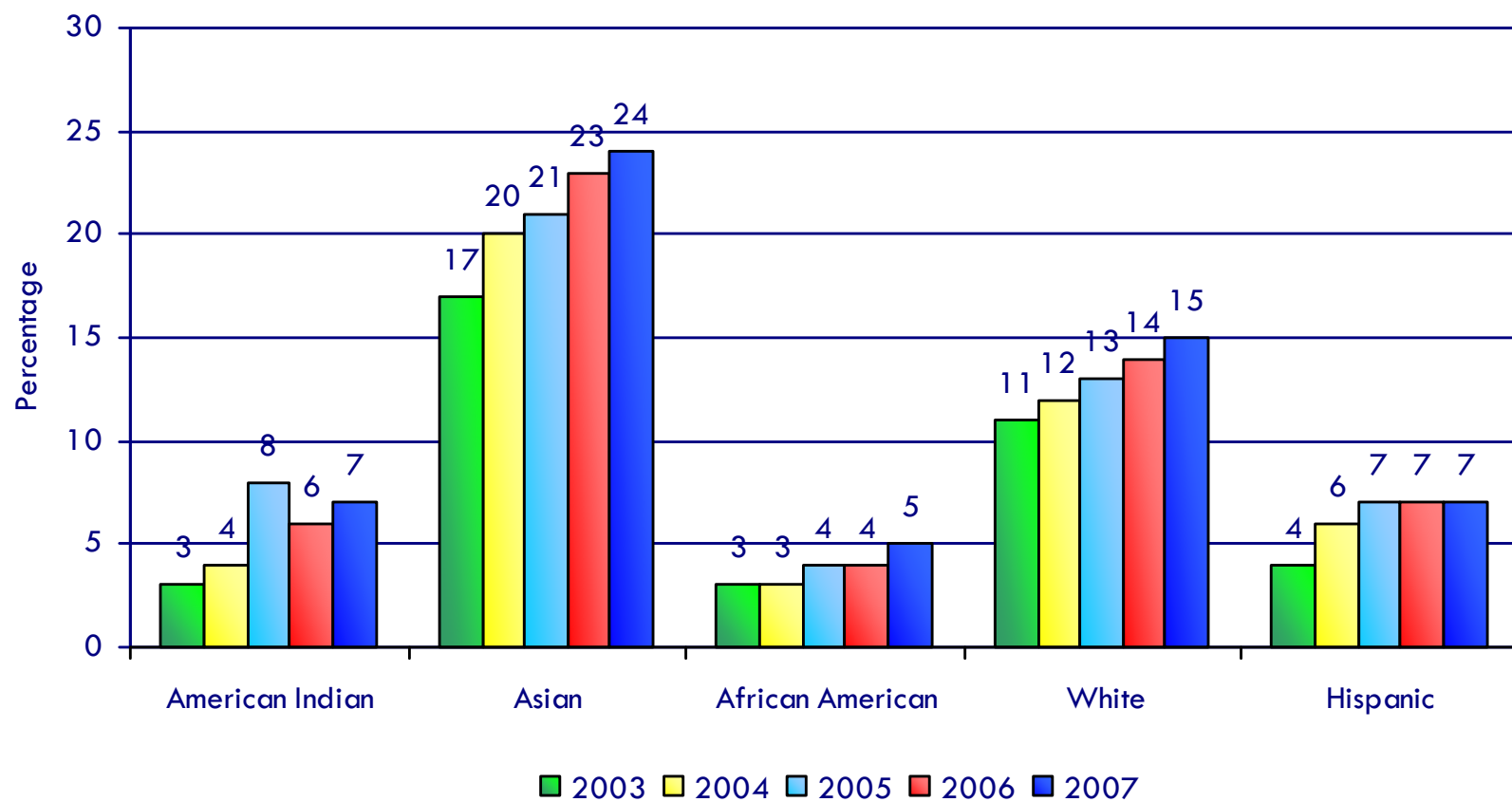
National average is 7.0%

Chart 1.13.3 - AP Participation Rate
by Student Group



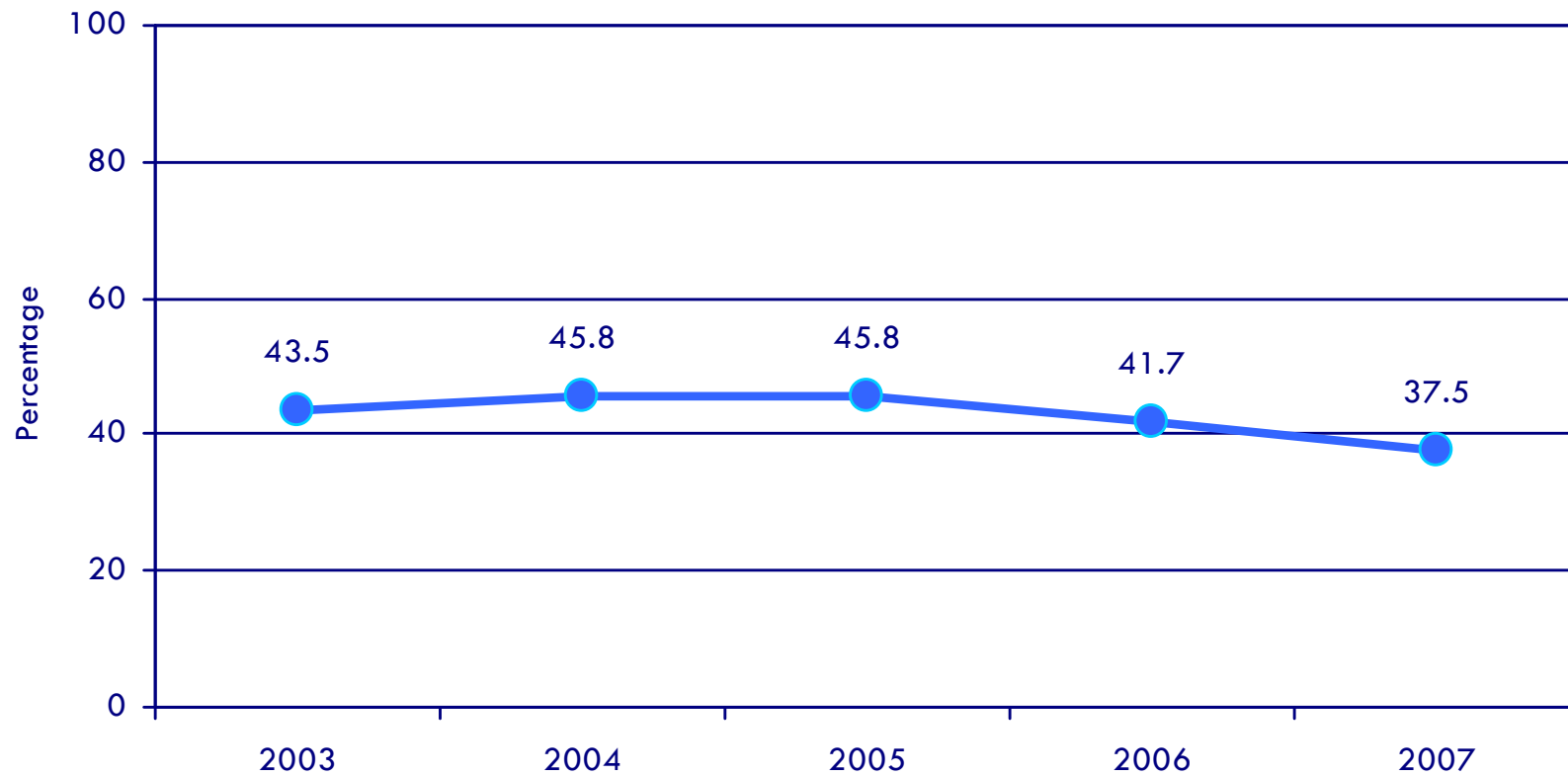
National average is 7.0%

Chart 1.13.4 - AP Participation Rate
by Race/Ethnicity



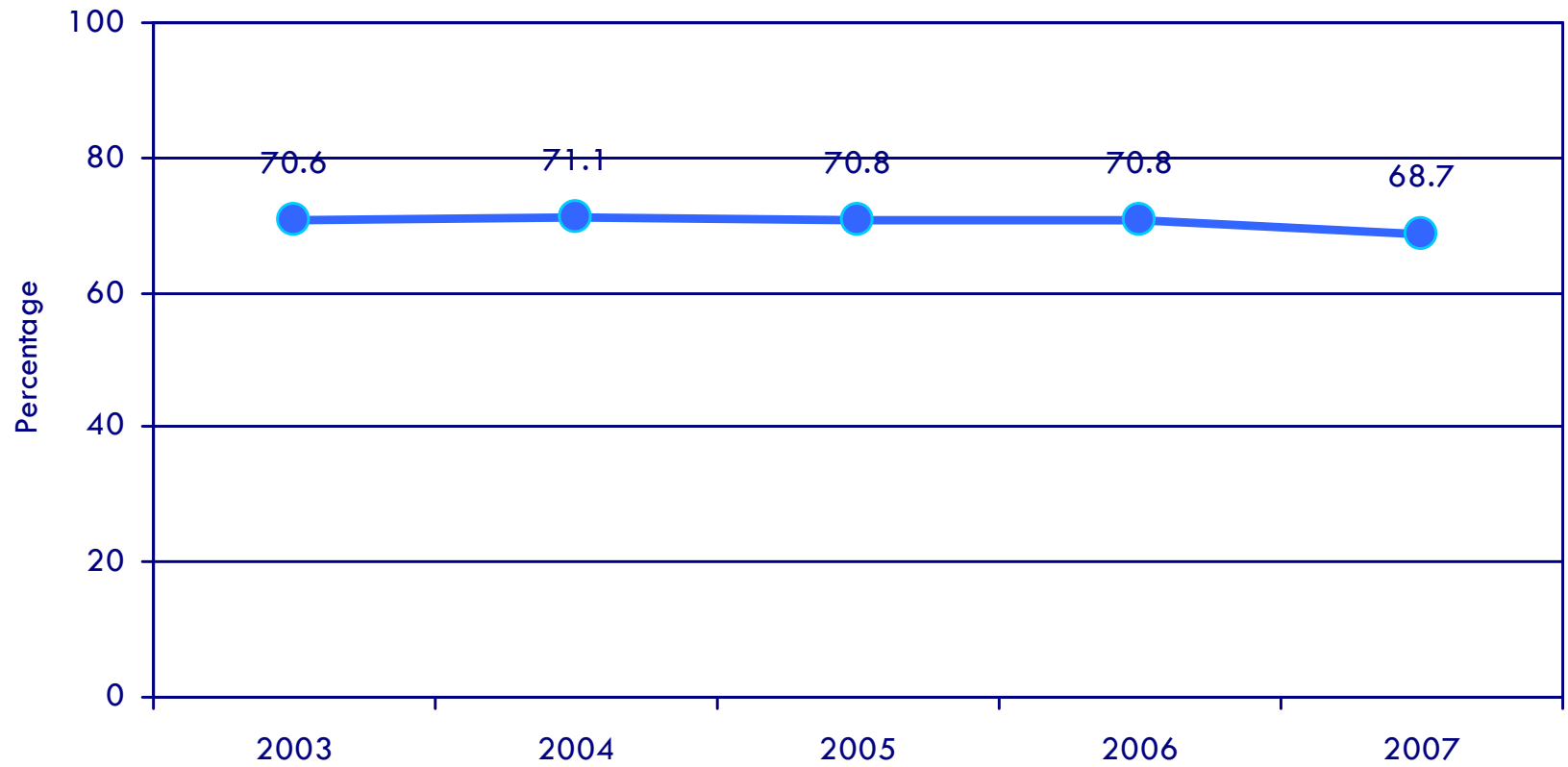
National average is 7.0%

Chart 1.1 4.1 - AP Pass Rate
Percentage of Schools with at least 70% Pass Rate



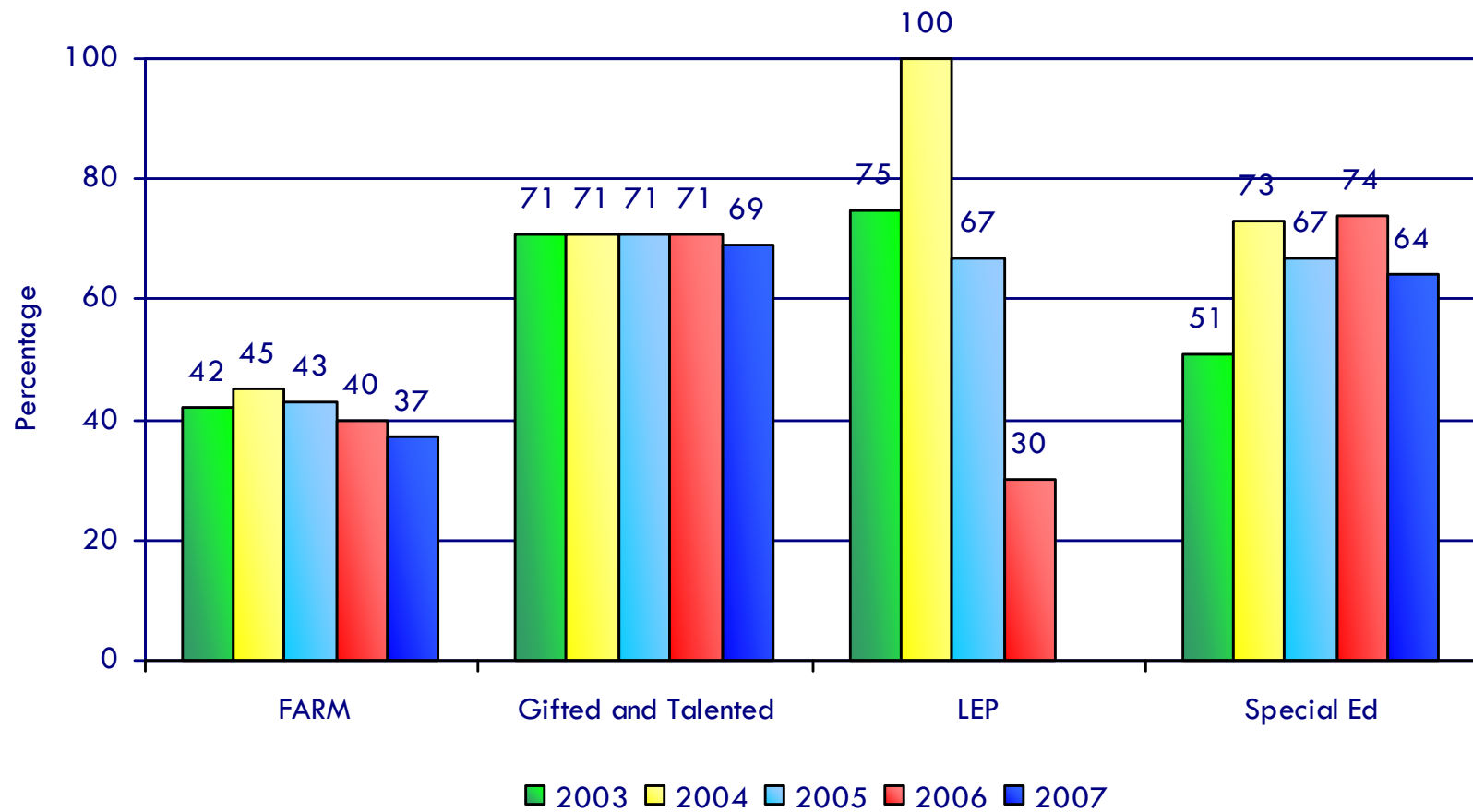
BCPS standard is 100%

Chart 1.1 4.2 - AP Pass Rate



BCPS standard is 70.0%

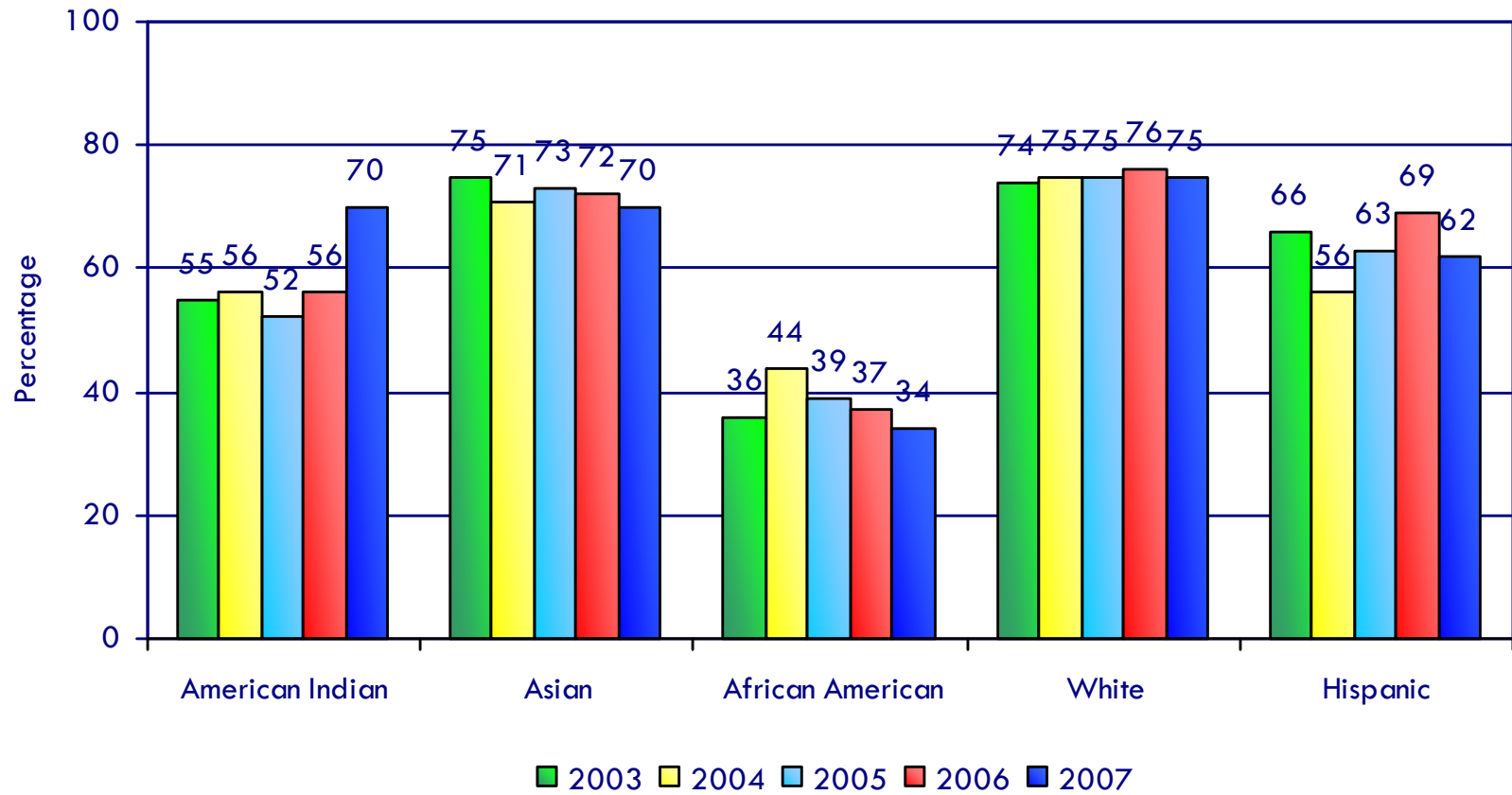
Chart 1.14.3 - AP Pass Rate
by Student Group



BCPS standard is 70.0%

Graph reflects 1 or more groups with low student counts

Chart 1.14.4 - AP Pass Rate
by Race/Ethnicity



BCPS standard is 70.0%

Comparison of Critical Reading SAT Scores

School	2007	2008
BCPS	491	491
Maryland	500	499
National	502	502

Comparison of SAT Mathematics Scores

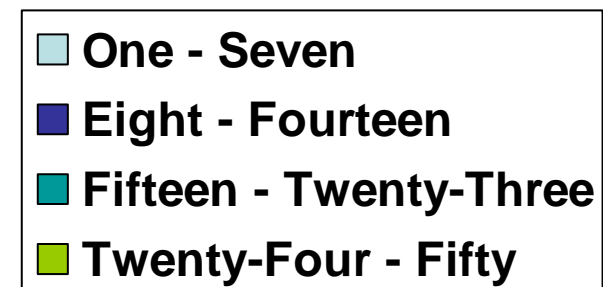
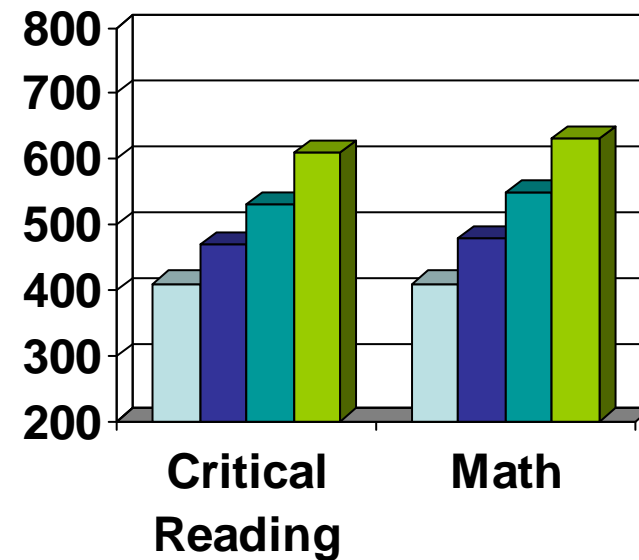
School	2007	2008
BCPS	497	496
Maryland	502	502
National	515	515

Comparison of SAT Writing Scores

School	2007	2008
BCPS	493	495
Maryland	496	497
National	494	494

A Comparison of 2006 SAT Scores by Quartile Rank by Number of Advanced Courses Taken

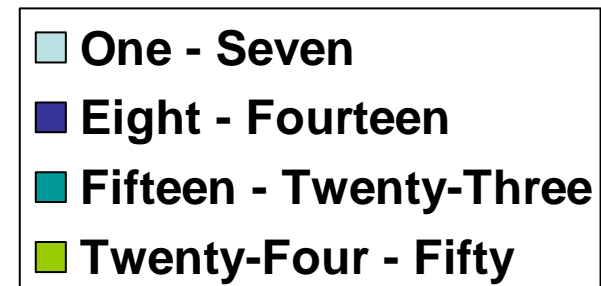
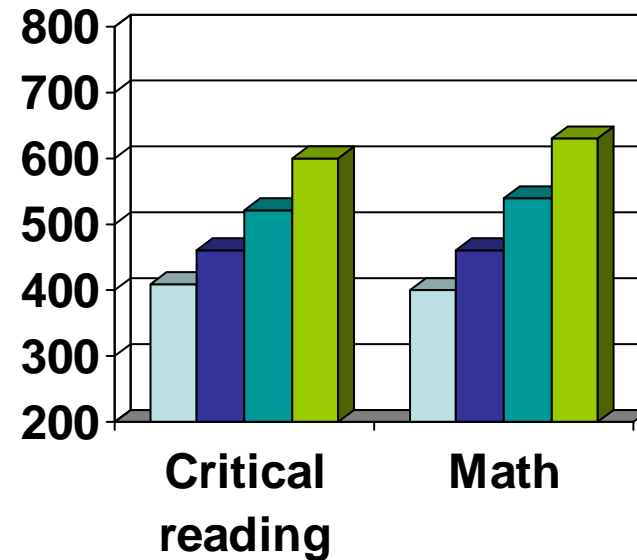
Number of Courses	Number of students	Verbal	Math
1 to 7	952	410	410
8 to 14	1096	470	480
15 to 23	1120	530	550
24 or more	1059	610	630



N=4252 Reading r=.667* Math r=.678*

A Comparison of 2007 SAT Scores by Quartile Rank by Number of Advanced Courses Taken

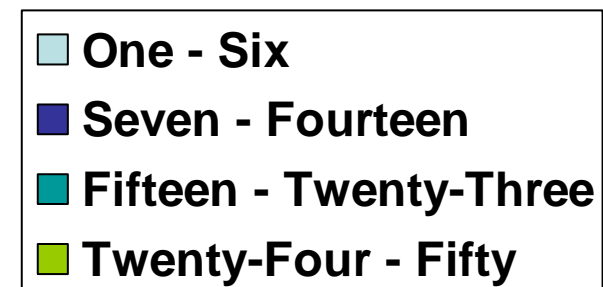
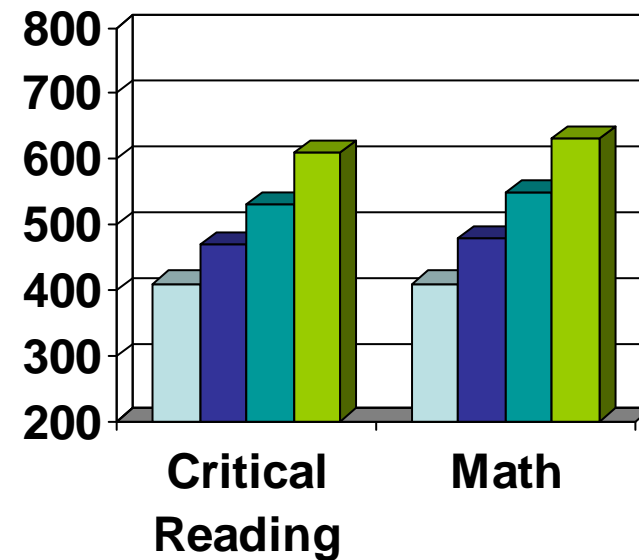
Number of Courses	Number of students	Verbal	Math
1 to 7	1165	410	400
8 to 14	1117	460	460
15 to 23	1083	520	540
24 or more	1087	600	630



N=4252 Reading r=.676* Math r=.706*

A Comparison of 2008 SAT Scores by Quartile Rank by Number of Advanced Courses Taken

Number of Courses	Number of students	Verbal	Math
0 to 6	1189	390	380
7 to 14	1076	460	450
15 to 23	1071	520	530
24 or more	1106	610	620



N=4,442 Reading r=.667* Math r=.678*

**Correlations* between Advanced Courses and Racial
Groups
SAT 2008 BCPS High Schools**

	N	Critical Reading	Mathematics
Asian	318	$r=.695$	$r=.643$
African American	1,517	$r=.564$	$r=.562$
White	2,479	$r=.647$	$r=.663$
Hispanic	93	$r=.683$	$r=.673$
American Indian	17	$r=.815$	$r=.841$

* All of the above correlation coefficients are significant at the level of $p < .01$

Sample Area with Variables Summarized

	Elementary										Middle										High									
	2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008	
Category	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
BOY Enrollment ¹		10,477		10,242		10,021		9,802		9,634		4,647		4,511		4,128		4,445		4,312		5,578		5,755		5,748		5,761		5,698
FARMS	5,689	4,788	5,396	4,846	5,082	4,939	5,048	4,754	4,809	4,825	2,594	2,053	2,471	2,040	2,192	1,936	2,288	2,157	2,133	2,179	4,357	1,221	4,334	1,421	3,987	1,761	3,965	1,796	3,794	1,904
ELL	10,102	375	9,833	409	9,537	484	9,263	539	9,048	586	4,540	107	4,448	63	4,046	82	4,376	69	4,231	81	5,576	2	5,682	73	5,682	66	5,686	75	5,594	104
GT	9,621	856	9,331	911	9,175	846	8,998	804	8,933	701	4,113	534	3,922	589	3,510	618	3,731	714	3,528	784	4,530	1,048	4,651	1,104	4,557	1,191	4,471	1,290	4,320	1,378
SpEd	8,954	1,523	8,737	1,505	8,557	1,464	8,364	1,438	8,136	1,498	3,963	684	3,814	697	3,513	615	3,796	649	3,686	626	4,966	612	5,109	646	5,117	631	5,107	654	5,040	658
Afrom		5,794		5,659		5,431		5,429		5,412		2,561		2,500		2,227		2,619		2,475		2,794		2,946		2,980		2,941		3,016
Amind		39		33		41		29		25		13		16		13		16		17		19		14		17		17		11
Asian		501		484		488		526		564		200		189		176		161		176		264		307		292		297		301
Hisp		354		405		479		540		543		105		133		145		182		204		66		100		134		156		200
Multi		351		393		390		232		116		29		55		74		86		84		26		38		38		56		43
White		3,438		3,268		3,192		3,046		2,974		1,739		1,618		1,493		1,381		1,356		2,409		2,350		2,287		2,294		2,127
Female		5,031		4,926		4,792		4,760		4,653		2,240		2,162		1,953		2,076		2,071		2,733		2,770		2,829		2,832		2,847
Male		5,446		5,316		5,229		5,042		4,981		2,407		2,349		2,175		2,369		2,241		2,845		2,985		2,919		2,929		2,851
Dropouts (n) ²												1										291		295		306		161		N/A
Suspensions (n) ²		725		639		537		904		797		2,394		2,169		1,627		2,137		2,015		2,503		1,722		1,936		2,171		2,123
Graduation (%) ³																						87.1%		86.8%		85.3%		83.9%		83.0%
Annual Attendance (%) ²		95.50%		95.46%		95.49%		95.24%		95.10%		93.46%		94.39%		94.46%		93.91%		93.60%		92.22%		91.79%		91.41%		90.66%		90.23%
Student Mobility ⁴																														
Entrants (n)		1534		1420		1362		1331		1464		635		660		653		546		494		922		851		841		810		812
Withdrawals (n)		1073		1079		980		957		1141		548		568		562		490		398		906		874		860		887		862
Entrants (%)		15.66%		14.60%		14.60%		14.60%		16.25%		15.25%		16.75%		17.25%		16.00%		15.75%		14.75%		13.50%		12.50%		12.25%		12.50%
Withdrawals (%)		11.09%		11.25%		10.65%		10.50%		12.80%		13.50%		14.50%		14.75%		14.25%		12.25%		15.00%		14.00%		13.50%		14.00%		13.75%
Total Teacher Certification ⁴		498		498		474		462		412		219		234		238		209		209		248		265		260		245		237
Advanced Professional		232		227		224		203		209		77		91		108		95		109		111		123		120		121		135
Conditional		25		22		25		20		10		49		50		46		30		23		47		45		45		43		31
Resident Teacher																									1		2			
Standard Professional		241		249		225		239		193		93		93		84		84		77		90		97		94		79		71
MSA ²																														
MSA Read (% Prof & Adv)		70.20%		75.62%		76.59%		77.35%		83.41%		60.16%		60.74%		65.65%		62.68%		72.07%										
MSA Read Count (Prof & Adv)		3,451		3,613		3,503		3,459		3,614		2,793		2,720		2,693		2,721		3,043										
MSA Math (% Prof & Adv)		60.40%		66.29%		70.87%		76.42%		80.24%		35.44%		42.83%		51.68%		46.18%		56.65%										
MSA Math Count (Prof & Adv)		2,968		3,168		3,245		3,422		3,484		1,647		1,918		2,117		2,008		2,393										
SAT Scores ²																														
Critical Reading Score																						483		488		475		461		458
Math Score																						478		482		472		454		452
Student Count																						573		613		668		755		734
Sop 30th & 12th Grade Enrollment																						1,243		1,266		1,270		1,341		1,310
Participation Rate																						46.1%		48.4%		52.6%		56.3%		56.0%

Data Sources:
¹ = Data Warehouse - dss_Student_BOY_Enrollment
² = Cognos
³ = School Improvement Plan by Area
⁴ = MSDE

Next Steps for Research

- Further define student preparation
- Partial out the effect of specific interventions
- Explore the impact of social and economic conditions across district areas