Subgroup Achievement and Gap Trends — District of Columbia

K-12 enrollment — 70,618

The raw data used to develop these state profiles, including data for additional grade levels and years before 2002, can be found on the CEP Web site at <u>www.cep-dc.org</u>. Click on the link on the left labeled State Testing Data. In the list of results that appears, look for the most recent report on student achievement since 2002. Below the name of the report, click on the link for State Profiles and Worksheets. Scroll down the page until you reach the list of states. Click on the Worksheet link for proficiency data or scale score data for a particular state.

Subgroup Achievement Trends and Gap Trends — Key Findings

Summary. The District's demographics are such that achievement trends could only be determined for African American, male and female, and low income subgroups. In grade 8 (the only grade in which subgroup trends were analyzed by achievement level), Washington, DC students showed gains in both reading and math at the basic, proficient, and advanced levels for all of these subgroups. Comparable data were available from 2006 through 2009.

- Improvement for low-income students. Achievement gaps narrowed between low-income and non-low income students across the board—both reading and math at all grade spans analyzed.
- **Gender gap widened.** Girls outperformed boys in both math and reading, and the gap in percentage proficient between boys and girls tended to widen, with the exception of high school reading, where the gender gap narrowed.

Data Limitations

Years of comparable percentage proficient data	2006 through 2009
Years of comparable mean scale score data	2006 through 2009
Disaggregated data for all subgroups and comparison groups	Native American data not reported due to small N-count

Test Characteristics

The characteristics highlighted below are for the state reading and mathematics tests used for accountability under the No Child Left Behind Act (NCLB).

Test(s) used for NCLB accountability	DC Comprehensive Assessment System (DC CAS) DC CAS Alternate Assessment Portfolios
Grades tested for NCLB accountability	3-8, 10
State labels for achievement levels	DC uses four achievement levels: Below Basic, Basic, Proficient, and Advanced. For our analyses we treated Basic as Basic, Proficient as Proficient, and Advanced as Advanced.
High school NCLB test also used as an exit exam?	No
First year test used	2006
Time of test administration	Spring
Major changes in testing system (2002–present)	Spring 2006: Changed test to DC CAS Spring 2008: Science tests administered

Achievement by Subgroup — Trends at the Middle School Level

Note: The tables in this profile of subgroup achievement and gap trends begin with table 7. Tables 1 through 6 can be found in the companion state profile of general achievement trends.

									Average veste
-				Reporti	ng year				Average yearly
Subgroup	2002	2003	2004	2005	2006	2007	2008	2009	point gain ¹
· · · · · · · · · · · · · · · · · · ·				All tested st	udents				
Advanced					6%	5%	6%	8%	0.4
Proficient-and-above					32%	31%	40%	45%	4.3
Basic-and-above					80%	75%	83%	85%	1.6
				White	2				
Advanced					67%	56%	46%	49%	-5.9
Proficient-and-above					90%	85%	85%	87%	-1.0
Basic-and-above					99%	92%	94%	95%	-1.3
				African Am	erican				
Advanced					4%	4%	4%	6%	0.6
Proficient-and-above					29%	29%	38%	43%	4.5
Basic-and-above					80%	75%	82%	84%	1.5
				Latino	2				
Advanced					7%	5%	5%	8%	0.3
Proficient-and-above					38%	35%	37%	50%	3.7
Basic-and-above					74%	75%	79%	86%	4.2
				Asian	2				
Advanced					17%	4%	15%	23%	2.0
Proficient-and-above					53%	57%	66%	67%	4.5
Basic-and-above					86%	75%	89%	93%	2.5
				Native Am	erican				
Advanced					NA	NA	NA	NA	NA
Proficient-and-above					NA	NA	NA	NA	NA
Basic-and-above					NA	NA	NA	NA	NA

Table DC-7. Percentages of grade 8 students by racial or ethnic subgroup scoring at the advanced, proficient-and-above, and basic-and-above levels in reading

Table reads: The percentage of white 8th graders who scored at the advanced level on the state reading test decreased from 67% in 2006 to 49% in 2009. During this period, the average yearly decline in the percentage advanced in reading for white 8th graders was 5.9 percentage points per year.

¹Averages are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2009 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

	Reporting year												
Subgroup	2002	2003	2004	2005	2006	2007	2008	2009	percentage point gain ¹				
- - -				All tested s	tudents								
Advanced					6%	5%	6%	8%	0.4				
Proficient-and-above					32%	31%	40%	45%	4.3				
Basic-and-above					80%	75%	83%	85%	1.6				
Advanced		0.6											
Proficient-and-above					26%	27%	35%	40%	4.7				
Basic-and-above					78%	75%	82%	84%	2.2				
				Students with o	disabilities ³								
Advanced					1%	2%	2%	5%	1.1				
Proficient-and-above					10%	12%	14%	16%	2.1				
Basic-and-above					53%	49%	57%	57%	1.4				
			E	English languag	e learners ^{2,3}								
Advanced					1%	0%	1%	3%	0.9				
Proficient-and-above					11%	14%	21%	33%	7.1				
Basic-and-above					54%	55%	70%	83%	9.7				
	•			Fema	le			•					
Advanced					8%	6%	8%	10%	0.7				
Proficient-and-above					38%	36%	47%	52%	5.0				
Basic-and-above					85%	80%	88%	90%	1.7				
	Male												
Advanced	5% 5% 4% 6%												
Proficient-and-above					27% 27% 33%			38%	3.5				
Basic-and-above					75%	71%	78%	79%	1.5				

Table DC-8. Percentage of grade 8 students by demographic subgroup scoring at the advanced, proficient-and-above, and basic-and-above levels in reading

Table reads: The percentage of low-income 8th graders who scored at the advanced level on the state reading test increased from 3% in 2006 to 5% in 2009. During this period, the average yearly gain in the percentage advanced in reading for low-income 8th graders was 0.6 percentage points per year.

¹Averages are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2009 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

³Gap trends for students with disabilities and English language learners should be interpreted with caution because state and federal policy changes may have affected the year-to-year comparability of test results for these subgroups. Average yearly percentage point gains are based on 2006-2009 results.

-				Reporti	ng year				_ Average yearly
Subgroup	2002	2003	2004	2005	2006	2007	2008	2009	percentage point gain ¹
				All tested s	tudents				
Advanced					3%	5%	5%	6%	1.1
Proficient-and-above					27%	33%	39%	42%	5.2
Basic-and-above					67%	69%	75%	77%	3.1
				White	e^2				
Advanced					46%	49%	40%	43%	-0.7
Proficient-and-above					87%	85%	85%	87%	0.0
Basic-and-above					95%	94%	91%	93%	-0.5
				African Am	nerican				·
Advanced					1%	3%	3%	4%	1.1
Proficient-and-above					24%	30%	36%	39%	5.0
Basic-and-above					66%	67%	74%	75%	3.0
				Lating	p^2				
Advanced					2%	4%	4%	6%	1.5
Proficient-and-above					30%	38%	46%	56%	8.4
Basic-and-above					69%	72%	80%	85%	5.3
				Asiar	2				
Advanced					23%	22%	28%	38%	5.0
Proficient-and-above					75%	76%	70%	88%	4.4
Basic-and-above					97%	94%	87%	98%	0.5
				Native Am	erican				
Advanced					NA	NA	NA	NA	NA
Proficient-and-above					NA	NA	NA	NA	NA
Basic-and-above					NA	NA	NA	NA	NA

Table DC-9. Percentages of grade 8 students by racial or ethnic subgroup scoring at the advanced, proficient-and-above, and basic-and-above levels in mathematics

Table reads: The percentage of white 8th graders who scored at the advanced level on the state math test decreased from 46% in 2006 to 43% in 2009. During this period, the average yearly decline in the percentage advanced in math for white 8th graders was 0.7 percentage points per year.

¹Averages are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2009 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

Table DC-10. Percentage of grade 8 students by demographic subgroup scoring at the advanced, proficient-and-above, and basic-and-above levels in mathematics

			Average yearly										
Subaroup	2002	2003	2004	2005	2006	2007	2008	2009	percentage point gain ¹				
				All tested st	tudents								
Advanced					3%	5%	5%	6%	1.1				
Proficient-and-above					27%	33%	39%	42%	5.2				
Basic-and-above					67%	69%	75%	77%	3.1				
		Low-income students											
Advanced					1%	3%	3%	4%	1.0				
Proficient-and-above					22%	28%	35%	39%	5.7				
Basic-and-above					65%	67%	73%	76%	3.5				
				Students with o	disabilities ³								
Advanced	Office Office<												
Proficient-and-above					6%	12%	15%	13%	2.2				
Basic-and-above					35%	40%	47%	47%	4.0				
			E	inglish languag	e learners ^{2,3}								
Advanced					2%	1%	2%	7%	1.8				
Proficient-and-above					17%	23%	33%	46%	9.9				
Basic-and-above					51%	63%	69%	81%	10.0				
				Fema	le								
Advanced					3%	4%	5%	7%	1.2				
Proficient-and-above					29%	34%	42%	45%	5.3				
Basic-and-above					71%	73%	80%	81%	3.4				
				Male)								
Advanced	3% 5% 5% 6%												
Proficient-and-above	2 4% 31% 36% 40%												
Basic-and-above					64%	64%	70%	72%	2.7				

Table reads: The percentage of low-income 8th graders who scored at the advanced level on the state math test increased from 1% in 2006 to 4% in 2009. During this period, the average yearly gain in the percentage advanced in math for low-income 8th graders was 1.0 percentage points per year.

¹Averages are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2009 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

³Gap trends for students with disabilities and English language learners should be interpreted with caution because state and federal policy changes may have affected the year-to-year comparability of test results for these subgroups. Average yearly percentage point gains are based on 2006-2009 results.

Achievement by Subgroup — Gap Trends (Percentages Proficient)

Table DC-11. Subgroup achievement trends in reading by percentages proficient

NOTE: L = larger gain than comparison group. S = smaller gain than comparison group. E = equal gain to comparison group. If the average annual gain for the subgroup of interest, such as African American students, is larger than the average annual gain for the comparison group, such as white students, this indicates that the achievement gap has narrowed. If the average gain for the subgroup of interest is smaller, this means the gap has widened.

			Grad	de 4				Grade	8		Grade 10					
Subgroup	Year span	Starting PP	Ending PP	Average annual gain ¹	Gain larger or smaller than comparison group	Year span	Starting PP	Ending PP	Average annual gain ¹	Gain larger or smaller than comparison group	Year span	Starting PP	Ending PP	Average annual gain ¹	Gain larger or smaller than comparison group	
All tested students	06-09	36%	45%	2.9		06-09	32%	45%	4.3		06-09	32%	39%	2.5		
White	06-09	88%	87%	-0.42		06-09	90%	87%	-1.0 ²		06-09	87%	79%	-2.6 ²		
African American	06-09	32%	41%	3.0	L	06-09	29%	43%	4.5	L	06-09	28%	36%	2.7	L	
Latino	06-09	42%	48%	2.0 ²	L	06-09	38%	50%	3.72	L	06-09	38%	50%	3.9 ²	L	
Asian	06-09	70%	76%	1.8 ²	L	06-09	53%	67%	4.5 ²	L	06-09	48%	73%	8.42	L	
Native American	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	
Not low- income	06-09	52%	61%	2.8		06-09	43%	56%	4.4		06-09	39%	46%	2.3		
Low-income	06-09	29%	39%	3.2	L	06-09	26%	40%	4.7	L	06-09	24%	35%	3.7	L	
Not disabled	06-09	41%	50%	3.1		06-09	38%	53%	4.9		06-09	38%	47%	3.0		
Students with disabilities ³	06-09	14%	20%	1.9	S	06-09	10%	16%	2.1	S	06-09	5%	11%	1.7	S	
												·		<u>.</u>		
Not ELLs	06-09	37%	45%	2.5		06-09	33%	46%	4.3		06-09	33%	39%	2.2		
English language learners ³	06-09	21%	45%	8.0 ²	L	06-09	11%	33%	7.1 ²	L	06-09	16%	38%	7.6 ²	L	
Female	06-09	40%	51%	3.8		06-09	38%	52%	5.0		06-09	38%	44%	2.2		
Male	06-09	32%	39%	2.1	S	06-09	27%	38%	3.5	S	06-09	26%	34%	2.6	L	

Table reads: In 2006, 88% of white 4th graders and 32% of African American 4th graders scored at the proficient level on the state reading test. In 2009, 87% of white 4th graders and 41% of African American 4th graders scored at the proficient level in reading. Between 2006 and 2009, the percentage proficient declined at an average rate of 0.4 percentage points per year for white students and improved at an average rate of 3.0 percentage points per year for African American students, indicating a larger rate of gain and a narrowing of the achievement gap for African American 4th graders.

SUBGROUP ACHIEVEMENT AND GAP TRENDS — DISTRICT OF COLUMBIA

¹Numbers in these columns are subject to rounding error.

2010

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2009 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

Table DC-12. Subgroup achievement trends in mathematics by percentages proficient

NOTE: L = larger gain than comparison group. S = smaller gain than comparison group. E = equal gain to comparison group. If the average annual gain for the subgroup of interest, such as African American students, is larger than the average annual gain for the comparison group, such as white students, this indicates that the achievement gap has narrowed. If the average gain for the subgroup of interest is smaller, this means the gap has widened.

			Grad	de 4				Grade	8		Grade 10					
Subgroup	Year span	Starting PP	Ending PP	Average annual gain ¹	Gain larger or smaller than comparison group	Year span	Starting PP	Ending PP	Average annual gain ¹	Gain larger or smaller than comparison group	Year span	Starting PP	Ending PP	Average annual gain ¹	Gain larger or smaller than comparison group	
All tested students	06-09	28%	50%	7.3		06-09	27%	42%	5.2		06-09	27%	39%	3.9		
				<u> </u>												
White	06-09	86%	90%	1.3 ²		06-09	87%	87%	0.02		06-09	88%	73%	-5.2 ²		
African American	06-09	22%	44%	7.5	L	06-09	24%	39%	5.0	L	06-09	23%	36%	4.4	L	
Latino	06-09	38%	61%	7.8	L	06-09	30%	56%	8.4 ²	L	06-09	36%	55%	6.4 ²	L	
Asian	06-09	69%	81%	4.2 ²	L	06-09	75%	88%	4.4 ²	L	06-09	75%	80%	1.6 ²	L	
Native American	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	
Not low- income	06-09	43%	64%	6.9		06-09	36%	51%	5.0		06-09	34%	46%	4.3		
Low-income	06-09	21%	44%	7.8	L	06-09	22%	39%	5.7	L	06-09	21%	35%	4.7	L	
Not disabled	06-09	32%	55%	7.8		06-09	32%	50%	6.0		06-09	33%	47%	4.8		
Students with disabilities ³	06-09	7%	22%	5.0	S	06-09	6%	13%	2.2	S	06-09	4%	9%	1.8	S	
Not ELLS	06-09	28%	48%	6.8		06-09	27%	42%	5.0		06-09	28%	39%	3.7		
English language learners ³	06-09	22%	59%	12.1 ²	L	06-09	17%	46%	9 .9 ²	L	06-09	27%	48%	7.12	L	
Female	06-09	30%	52%	7.5		06-09	29%	45%	5.3		06-09	28%	42%	4.5		
Male	06-09	25%	47%	7.3	S	06-09	24%	40%	5.1	S	06-09	27%	37%	3.3	S	

Table reads: In 2006, 86% of white 4th graders and 22% of African American 4th graders scored at the proficient level on the state math test. In 2009, 90% of white 4th graders and 44% of African American 4th graders scored at the proficient level in math. Between 2006 and 2009, the percentage proficient improved at an average rate of 1.3 percentage points per year for white students and 7.5 percentage points per year for African American students, indicating a larger rate of gain and a narrowing of the achievement gap for African American 4th graders.

¹Numbers in these columns are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2009 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

Achievement by Subgroup — Gap Trends (Mean Scale Scores)

Table DC-13. Achievement gap trends in reading by mean scale scores

NOTE: L = larger gain than comparison group. S = smaller gain than comparison group. E = equal gain to comparison group. MSS = mean scale score. SD = standard deviation. If the average gain for the subgroup of interest, such as African American students, is larger than the average gain for the comparison group, such as white students, this indicates that the achievement gap has narrowed. If the average gain for the subgroup of interest is smaller, this means the gap has widened.

				Gra	ide 4		Grade 8						Grade 10				
Subgroup	Statistic	Avg. Gain larger or Year Start End gain smaller than					Year span	Start year	End year	Avg. gain MSS ¹	Gain larger or smaller than comp. group	Year span	Start year	End year	Avg. gain MSS ¹	Gain larger or smaller than comp. group	
All tested students	MSS	06-09	449.1	451.8	0.9		06-09	848.6	853.2	1.5		06-09	947.4	953.4	2.0		
	SD	06-09	14.2	15.2			06-09	15.8	13.2			06-09	16.9	13.0			
White	MSS	06-09	466.7	467.0	0.1 ²		06-09	871.4	869.4	-0.6 ²		06-09	969.7	969.5	-0.1²		
	SD	06-09	12.5	12.2			06-09	11.7	12.1			06-09	14.1	13.7			
African American	MSS	06-09	447.7	450.2	0.8	L	06-09	847.9	852.4	1.5	L	06-09	945.9	952.5	2.2	L	
	SD	06-09	13.8	14.7			06-09	14.8	12.8			06-09	16.4	12.5			
Latino	MSS	06-09	449.6	452.3	0.9 ²	L	06-09	846.7	853.6	2.3 ²	L	06-09	949.7	955.1	1.8 ²	L	
	SD	06-09	14.9	14.5			06-09	19.7	13.0			06-09	15.0	12.4			
Asian	MSS	06-09	458.3	462.8	1.5 ²	L	06-09	852.7	862.5	3.3 ²	L	06-09	954.1	958.2	1.4 ²	L	
	SD	06-09	14.8	12.7			06-09	19.6	12.6			06-09	12.4	15.5			
Native American	MSS	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	
	SD	06-09	NA	NA			06-09	NA	NA			06-09	NA	NA			
Not low-income	MSS	06-09	454.3	457.7	1.1		06-09	852.4	857.2	1.6		06-09	949.9	956.3	2.1		
	SD	06-09	15.2	14.9			06-09	16.5	13.7			06-09	17.6	13.7			
Low-income	MSS	06-09	446.9	449.5	0.9	S	06-09	846.5	851.5	1.7	L	06-09	944.8	951.8	2.3	L	
	SD	06-09	13.2	14.6			06-09	15.0	12.6			06-09	15.7	12.3			
Not disabled	MSS	06-09	450.8	453.8	1.0		06-09	851.3	855.9	1.5		06-09	950.4	955.3	1.6		
2	SD	06-09	13.6	14.1			06-09	14.5	11.6			06-09	15.7	11.9			
Students with disabilities ³	MSS	06-09	440.8	440.7	0.0	S	06-09	837.6	840.9	1.1	S	06-09	934.1	942.3	2.7	L	
	SD	06-09	14.4	16.2			06-09	16.2	13.1			06-09	15.7	13.2			
Not ELLs	MSS	06-09	449.6	452.0	0.8		06-09	849.2	853.5	1.5		06-09	947.6	953.6	2.0		
2	SD	06-09	14.1	15.2			06-09	15.4	13.1			06-09	17.0	13.0			
English language learners	MSS	06-09	442.7	449.9	2.4 ²	L	06-09	835.2	847.7	4.2 ²	L	06-09	943.2	949.6	2.1 ²	L	
	SD	06-09	14.9	14.7			06-09	19.0	12.6			06-09	13.3	12.4			
Famala	MCC	06.00	150.0	1510			04.00	050 7	055.0	47		04.00	0.40.0	054.0	47		
Female	INI22	06-09	450.8	454.2	1.1		06-09	850.7	855.8	1.7		06-09	949.8	954.9	1.7		
Mala	SD	06-09	13.8	13.7	<i></i>	6	06-09	15.4	12.2	4.5	6	06-09	16.1	12.0	0.0		
waie	11/122	06-09	447.4	449.4	0.6	S	06-09	846.5	850.5	1.3	S	06-09	945.0	951.5	2.2	L	
1	SD	06-09	14.4	16.1			06-09	15.9	13.7			06-09	17.2	13.9			

Table reads: In 2006, the mean scale score on the state 4th grade reading test was 466.7 for white students and 447.7 for African American students. In 2009, the mean scale score in 4th grade reading was 467.0 for white students and 450.2 for African American students. Between 2006 and 2009, the mean scale score improved at an average yearly rate of 0.1 points for white students and 0.8 points for African American students, indicating a narrowing of the achievement gap for African Americans.

Note: The DC CAS is scored on a scale of 400-499 at grade 4, 800-899 at grade 8, and 900-999 at grade 10.

¹Numbers in these columns are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2009 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

Table DC-14. Achievement gap trends in mathematics by mean scale scores

NOTE: L = larger gain than comparison group. S = smaller gain than comparison group. E = equal gain to comparison group. MSS = mean scale score. SD = standard deviation. If the average gain for the subgroup of interest, such as African American students, is larger than the average gain for the comparison group, such as white students, this indicates that the achievement gap has narrowed. If the average gain for the subgroup of interest is smaller, this means the gap has widened.

				Gra	ide 4		Grade 8						Grade 10				
	.	Year	Start	End	Avg. gain	Gain larger or smaller than	Year	Start	End	Avg. gain	Gain larger or smaller than	Year	Start		Avg. gain	Gain larger or smaller than	
Subgroup	Statistic	span	year	year	MSS.	comp. group	span	year	year	MSS.	comp. group	span	year	End year	MSS.	comp. group	
All tested students	MSS	06-09	449.2	456.4	2.4		06-09	839.7	846.0	2.1		06-09	938.2	946.3	2.7		
	SD	06-09	16.0	16.7			06-09	16.9	16.1			06-09	21.1	18.9			
White	MSS	06-09	469.8	472.5	0.9 ²		06-09	863.8	864.8	0.3 ²		06-09	970.3	967.4	-1.0²		
	SD	06-09	14.8	13.8			06-09	14.4	13.3			06-09	16.5	17.7			
African American	MSS	06-09	447.0	454.2	2.4	L	06-09	838.4	844.7	2.1	L	06-09	935.7	944.6	3.0	L	
	SD	06-09	15.1	16.1			06-09	16.2	15.7			06-09	19.9	18.3			
Latino	MSS	06-09	452.7	460.3	2.5	L	06-09	840.8	849.0	2.7 ²	L	06-09	942.8	951.4	2.9 ²	L	
	SD	06-09	14.9	15.3			06-09	16.5	14.3			06-09	19.0	17.0			
Asian	MSS	06-09	463.3	470.2	2.3 ²	L	06-09	838.4	866.3	9.3 ²	L	06-09	935.7	965.4	9.9 ²	L	
	SD	06-09	14.3	14.4			06-09	12.5	14.1			06-09	17.9	20.5			
Native American	MSS	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	
	SD	06-09	NA	NA			06-09	NA	NA			06-09	NA	NA			
Not low-income	MSS	06-09	454.6	462.0	2.5		06-09	843.0	849.7	2.2		06-09	941.1	950.0	3.0		
	SD	06-09	17.8	17.0			06-09	17.6	16.4			06-09	22.1	19.5			
Low-income	MSS	06-09	446.8	454.3	2.5	F	06-09	837.8	844.4	2.2	F	06-09	935.3	944.2	3.0	F	
	SD	06-09	14.6	16.0	2.10	-	06-09	16.2	15.8	2.2	-	06-09	19.6	18.2	010	-	
			11.0	10.0				10.2	10.0				17.0	10.2			
Not disabled	MSS	06-09	451.9	458.8	2.3		06-09	842.7	849.0	2.1		06-09	942.0	949.2	2.4		
	SD	06-09	14.2	15.4			06-09	15.7	14 5			06-09	20.1	17.6			
Students with disabilities ³	MSS	06-09	435.4	443.0	25	1	06-09	827.3	832.2	16	S	06-09	921.3	929.2	2.6	1	
	SD	06-09	17.5	16.0	2.0	E	06-09	16.1	16.0	1.0	0	06-09	17.0	16.7	2.0	L	
	00	00 07	17.5	10.7			00 07	10.1	10.0			0007	17.0	10.7			
Not ELLs	MSS	06-09	449 3	456.2	23		06-09	839.9	846 1	21		06-09	938.1	946 3	28		
	SD	06-09	16.4	16.8	2.0		06-09	16.0	16.1	2.1		06-09	21.2	18.0	2.0		
English language learners ³	MSS	06-09	10.4	157.8	3 62	1	06-09	835.6	845.5	2 22	I	06-09	0/0.3	0// 0	1 52	S	
English language learners	SD	06-09	140.7	457.0	5.0	L	06-09	14.4	17.0	5.5	L	06-09	10 /	10.0	1.5	5	
	50	00-07	14.3	10.0			00-07	10.0	17.0			00-07	17.4	10.3			
Female	MSS	06-09	450.2	157.8	25		06-09	8/11	817 3	21		06-09	030 5	947.2	26		
	SD	06-09	15.1	15.7	2.5		06-09	16.1	15.2	2.1		06-09	20.2	18.2	2.0		
Male	MSS	06-09	10.1	15.7	2.2	c	06-09	020.2	0117) 1	F	06-09	20.3	0/E 1	27	I	
muic	ND3	06.00	440.1	400.1 17 E	2.3	3	06.00	030.3 17 E	044.7	Z. I	E	06.00	730.7 21.0	940. I 10. 4	Z.1	L	
	JU	00-09	16.9	17.5			00-09	17.5	16.9			00-09	21.8	19.6			

Table reads: In 2006, the mean scale score on the state 4th grade math test was 469.8 for white students and 447.0 for African American students. In 2009, the mean scale score in 4th grade math was 472.5 for white students and 454.2 for African American students. Between 2006 and 2009, the mean scale score

SUBGROUP ACHIEVEMENT AND GAP TRENDS — DISTRICT OF COLUMBIA

improved at an average yearly rate of 0.9 points for white students and 2.4 points for African American students, indicating a narrowing of the achievement gap for African Americans.

Note: The DC CAS is scored on a scale of 400-499 at grade 4, 800-899 at grade 8, and 900-999 at grade 10.

¹Numbers in these columns are subject to rounding error.

2010

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2009 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

				Grade	9 4				Grad	e 8		Grade 10					
Subgroup	Subject	Year span	# of test- takers start year	# of test- takers end year	Change in # of test- takers over time	% of test- takers in subgroup in end year	Year span	# of test- takers start year	# of test- takers end year	Change in # of test- takers over time	% of test- takers in subgroup in end year	Year span	# of test- takers start year	# of test- takers end year	Change in # of test- takers over time	% of test- takers in subgroup in end year	
All tested	Reading	06-09	4,208	4,524	7.5%	100.0%	06-09	4,123	4,458	8.1%	100.0%	06-09	3,401	3,585	5.4%	100.0%	
students	Math	06-09	4,208	4,556	8.3%	100.0%	06-09	4,123	4,459	8.1%	100.0%	06-09	3,401	3,581	5.3%	100.0%	
White	Reading	06-09	231	304	31.6%	6.7%	06-09	129	141	9.3%	3.2%	06-09	144	120	-16.7%	3.3%	
winte	Math	06-09	231	307	32.9%	6.7%	06-09	129	142	10.1%	3.2%	06-09	144	120	-16.7%	3.4%	
African	Reading	06-09	3,449	3,653	5.9%	80.7%	06-09	3,624	3,840	6.0%	86.1%	06-09	2,887	3,100	7.4%	86.5%	
American	Math	06-09	3,449	3,660	6.1%	80.3%	06-09	3,624	3,832	5.7%	85.9%	06-09	2,887	3,098	7.3%	86.5%	
L alla a	Reading	06-09	461	494	7.2%	10.9%	06-09	300	417	39.0%	9.4%	06-09	307	318	3.6%	8.9%	
Latino	Math	06-09	461	511	10.8%	11.2%	06-09	300	420	40.0%	9.4%	06-09	307	316	2.9%	8.8%	
	Reading	06-09	64	69	7.8%	1.5%	06-09	64	58	-9.4%	1.3%	06-09	57	44	-22.8%	1.2%	
Asian	Math	06-09	64	74	15.6%	1.6%	06-09	64	63	-1.6%	1.4%	06-09	57	44	-22.8%	1.2%	
Native	Reading	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	
American	Math	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	06-09	NA	NA	NA	NA	
Lowincomo	Reading	06-09	2,925	3,271	11.8%	72.3%	06-09	2,640	3,119	18.1%	70.0%	06-09	1,690	2,300	36.1%	64.2%	
Low-income	Math	06-09	2,925	3,293	12.6%	72.3%	06-09	2,640	3,119	18.1%	69.9%	06-09	1,690	2,294	35.7%	64.1%	
Students w/	Reading	06-09	703	696	-1.0%	15.4%	06-09	812	794	-2.2%	17.8%	06-09	624	531	-14.9%	14.8%	
disabilities	Math	06-09	703	698	-0.7%	15.3%	06-09	812	789	-2.8%	17.7%	06-09	624	530	-15.1%	14.8%	
English	Reading	06-09	288	432	50.0%	9.5%	06-09	169	255	50.9%	5.7%	06-09	179	199	11.2%	5.6%	
learners	Math	06-09	288	461	60.1%	10.1%	06-09	169	265	56.8%	5.9%	06-09	179	198	10.6%	5.5%	
Fomolo	Reading	06-09	2,125	2,233	5.1%	49.4%	06-09	2,073	2,271	9.6%	50.9%	06-09	1,709	1,958	14.6%	54.6%	
генае	Math	06-09	2,125	2,246	5.7%	49.3%	06-09	2,073	2,272	9.6%	51.0%	06-09	1,709	1,961	14.7%	54.8%	
Male	Reading	06-09	2,083	2,291	10.0%	50.6%	06-09	2,046	2,187	6.9%	49.1%	06-09	1,687	1,627	-3.6%	45.4%	
Maic	Math	06-09	2,083	2,310	10.9%	50.7%	06-09	2,046	2,187	6.9%	49.0%	06-09	1,687	1,620	-4.0%	45.2%	

Table reads: In 2006, 231 students in the white subgroup took the state 4th grade reading test. By 2009, the number of white test-takers had risen to 304 students, an increase of 31.6%. In 2009, the white subgroup made up 6.7% of the 4,524 4th graders taking the reading test that year.

Note: **Bold** type indicates that the number of students tested in this subgroup at this grade level was fewer than 500 in 2009 or the most recent year with available data.

Key Terms

Percentage proficient (and above) — The percentage of students in a group who score at or above the cut score for "proficient" performance on the state test used to determine progress under NCLB. The Act requires states to report student test performance in terms of at least three achievement levels: basic, proficient, and advanced. Adequate yearly progress determinations are based on the percentage of students scoring at the proficient level and above.

Percentage basic (and above) — The percentage of students in a group who score at or above the cut score for "basic" performance on the state test used to determine progress under NCLB.

Percentage advanced — The percentage of students in a group who reach or exceed the cut score for "advanced" performance on the state test used to determine progress under NCLB.

Moderate-to-large gain — For the percentage basic, proficient, or advanced, an average gain of 1 or more percentage points per year. For effect size, an average gain of 0.02 or greater per year.

Slight gain — For the percentage basic, proficient, or advanced, an average gain of less than 1 percentage point per year. For effect size, an average gain of less than 0.02 per year.

Moderate-to-large decline — For the percentage basic, proficient, or advanced, an average decline of 1 or more percentage points per year. For effect size, an average decline of 0.02 or greater per year.

Slight decline — For the percentage basic, proficient, or advanced, an average decline of less than 1 percentage point per year. For effect size, an average decline of less than 0.02 per year.

Effect size — A statistical tool that conveys the amount of difference between test results using a common unit of measurement which does not depend on the scoring scale for a particular test.

Accumulated annual effect size — The cumulative gain in effect size over a range of years.

Mean scale score — The arithmetical average of a group of test scores, expressed on a common scale for a particular state's test. The mean is calculated by adding the scores and dividing the sum by the number of scores.

Standard deviation — A measure of how much test scores tend to deviate from the mean—in other words, how spread out or bunched together test scores are. If students' scores are bunched together, with many scores close to the mean, then the standard deviation will be small. If scores are spread out, with many students scoring at the high or low end of the scale, then the standard deviation will be large.

Cautions and Explanations

Different labels for achievement levels — For consistency, all of the state profiles developed for this report use a common set of labels (basic, proficient, and advanced) for the main achievement levels required by NCLB. In practice, however, some states may use different labels, such as "meets standard" instead of proficient, and some states have established additional achievement levels beyond those required by NCLB.

Different names for subgroups — For the sake of consistency and ease of data tabulation, all of the state profiles developed for this report use a common set of names for the major student subgroups. In practice, however, states use various names for subgroups that may differ from those used here (such as using "Hispanic" instead of "Latino," or "special education students" instead of "students with disabilities"). Moreover, a few states separately track the performance of subgroups not included in the analyses for this report.

Special caution for students with disabilities and English language learners — Trends for students with disabilities and English language learners should be interpreted with caution because changes in federal guidance and state accountability plans may have altered which students in these subgroups are tested for accountability purposes, how they are tested, and when their test scores are counted as proficient under NCLB. These factors could affect the year-to-year comparability of test results.

Inclusion of former English language learners — In many states, the subgroup of English language learners (also known as limited English proficient students) includes students who were formerly English language learners but who have achieved English language proficiency or fluency in the last two years. Federal NCLB regulations permit states to include these formerly ELL students (sometimes referred to as "redesignated fluent English proficient" students) in the ELL subgroup for up to two years for purposes of NCLB accountability.

Limitations of percentage proficient measure — The percentage proficient, the main gauge of student performance under NCLB, can be easily understood and gives a snapshot of how many students have met their state's performance expectations. But it also has several limitations as a measure of student achievement. Users of percentage proficient data should keep in mind these limitations, particularly the following:

- * "Proficient" means different things across different states. States vary widely in curriculum, learning expectations, and tests, and state tests differ considerably in their difficulty and cut scores for proficient performance.
- * Although this study has taken steps to avoid comparing test data where there have been "breaks" in comparability resulting from new tests, changes in content standards, revised cut scores, or other major changes in testing programs, the year-to-year comparability of test results in the same state may still be affected by less obvious policy and demographic changes.
- * Changes in student performance may occur that are not reflected in percentage proficient data, such as an increase in the number of students reaching performance levels below and above proficient (such as the basic or advanced levels).
- * The size of the achievement gaps between various subgroups depends in part on where a state sets its cut score for proficiency. For example, if a proficiency cut score is set so high that almost nobody reaches it or so low that almost everyone reaches it, there will be little apparent achievement gap. By contrast, if the cut score is closer to the mean test score, the gaps between subgroups will be more apparent.

Difficulty of attributing causes — Although the tables in this profile show trends in test scores since the enactment of NCLB, one cannot assume that these trends have occurred *because* of NCLB. It is always difficult to determine a cause-and-effect relationship between test score trends and any specific education policy or program due to the many federal, state, and local reforms undertaken in recent years and due to the lack of an appropriate "control" group of students not affected by NCLB.