

At-risk students Attending Public Charter Schools

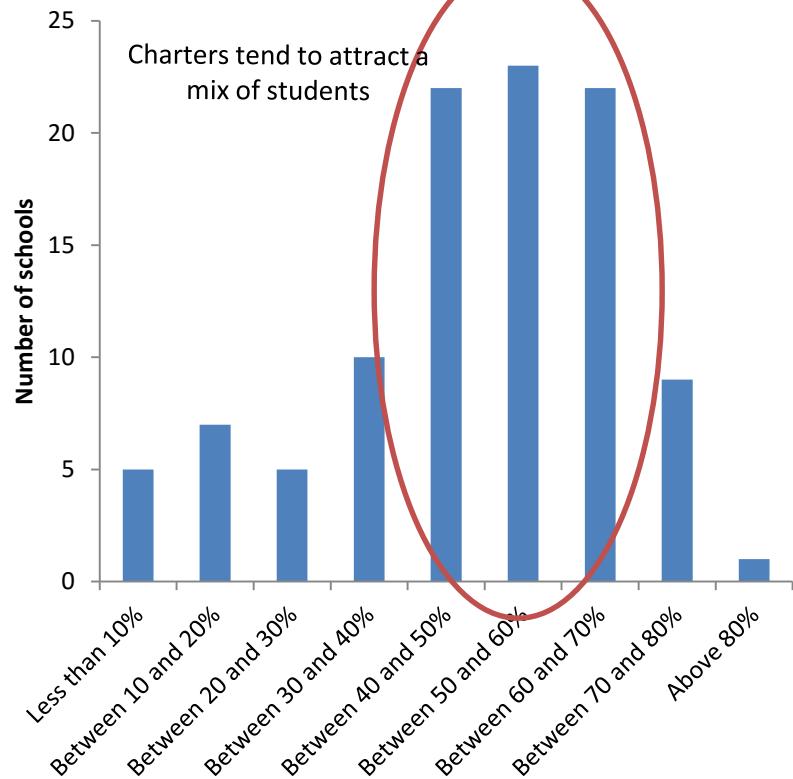
March 6, 2015

Final

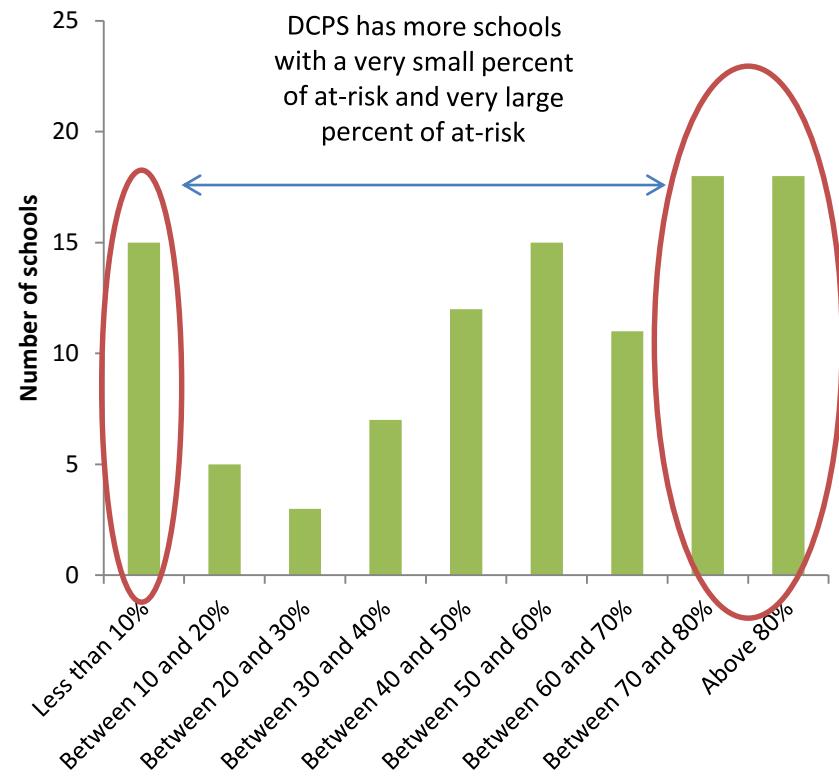
Summary of at-risk Students in SY2014-15

Public Charter Schools and DCPS serve the same percent of at-risk students

49.3% of public charter school students are “at risk”



50.6% of DCPS students are “at-risk”



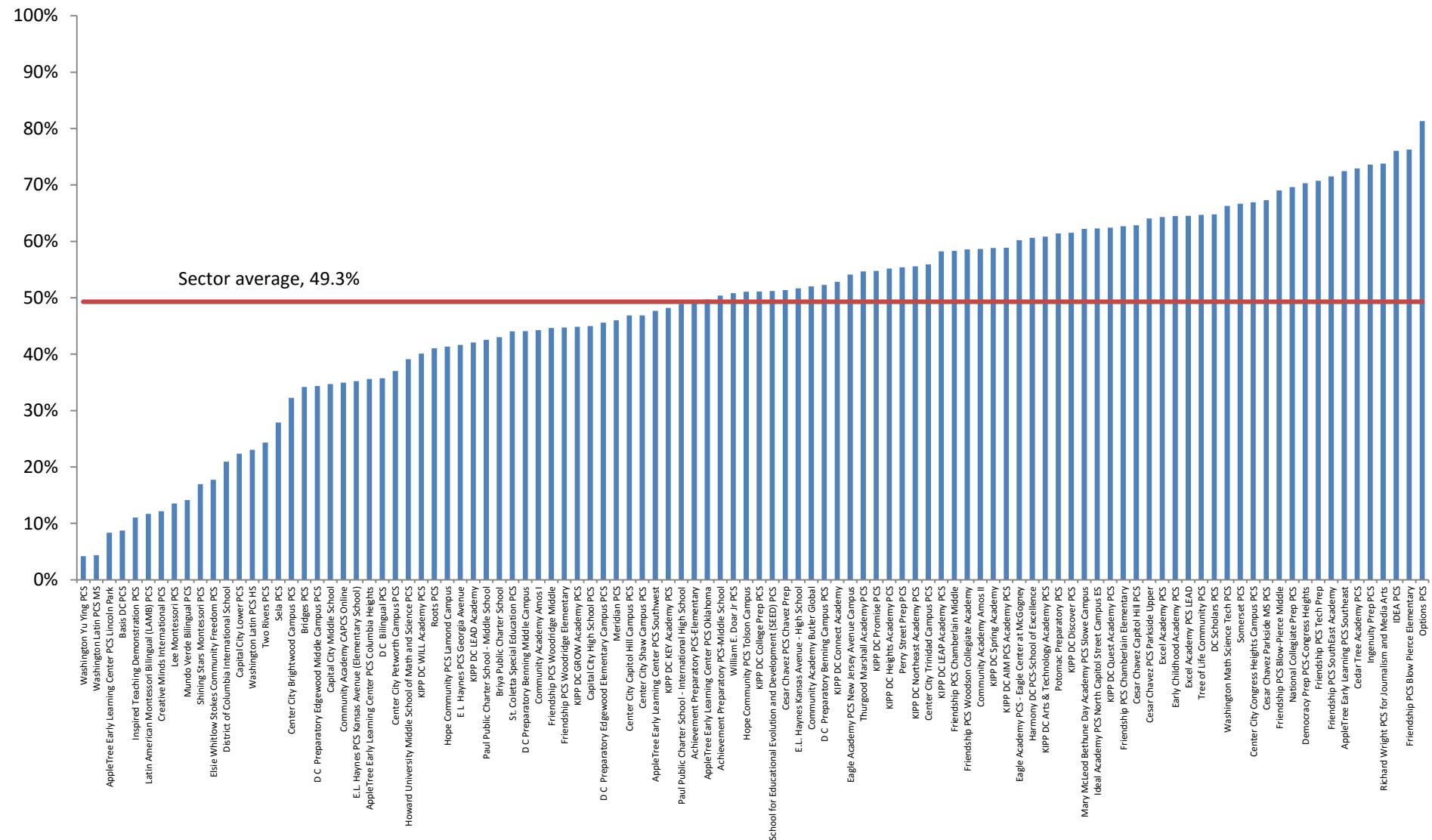
Notes:

At-risk for these calculations is defined by eligible for TANF or SNAP, homelessness, in CFSAs system, and over-age/under-credited in High school. It excludes students who attend alternative or adult education schools.

School level

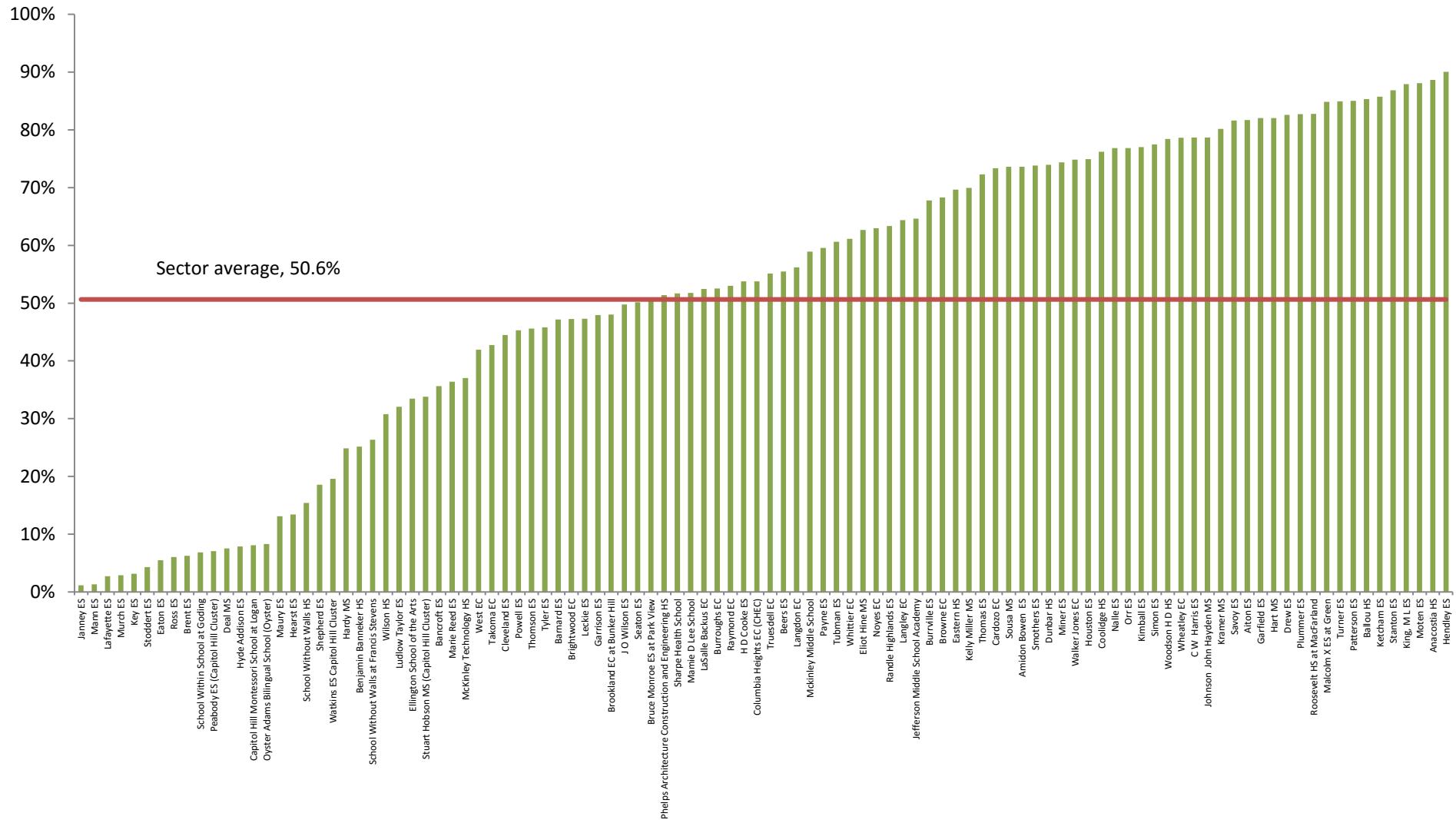
Percent of at-risk students enrolled in SY14-15 at public charter schools

Percent of at-risk students at each school Sector average, without adults



Percent of at-risk students enrolled in SY14-15 at DCPS

Percent of at-risk students at each school Sector average, without adults



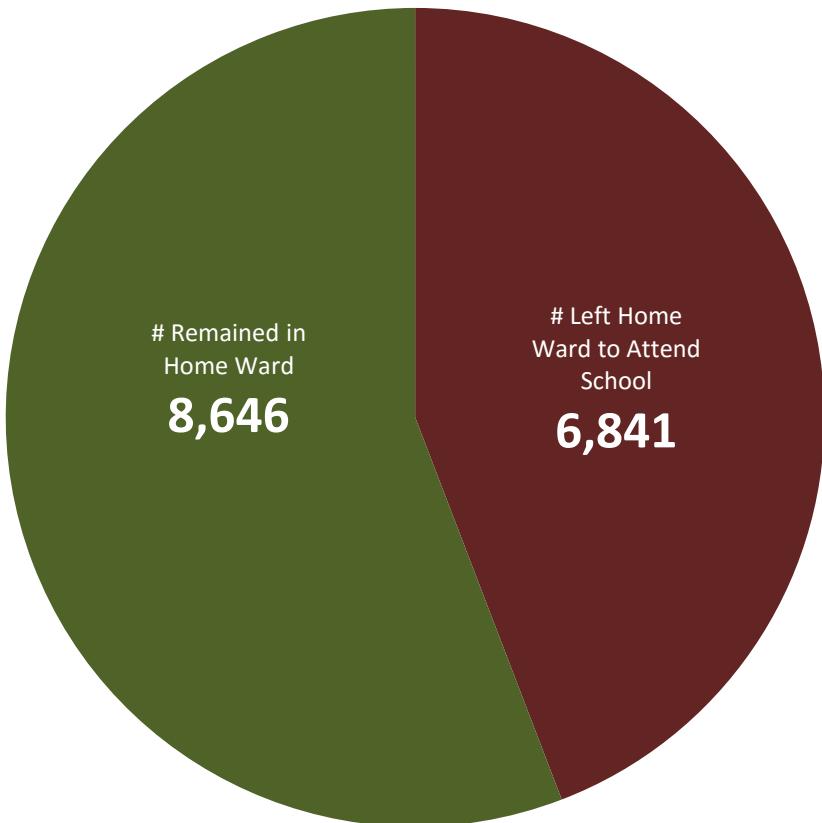
PCS schools with the highest and lowest percent at-risk in SY14-15

Lowest percent at-risk	Percent	Highest percent at-risk	Percent
Washington Yu Ying PCS	4%	Options PCS	81%
Washington Latin PCS MS	4%	Friendship PCS Blow Pierce Elementary	76%
AppleTree Early Learning Center PCS Lincoln Park	8%	IDEA PCS	76%
Basis DC PCS	9%	Richard Wright PCS for Journalism and Media Arts	74%
Inspired Teaching Demonstration PCS	11%	Ingenuity Prep PCS	74%
Latin American Montessori Bilingual (LAMB) PCS	12%	Cedar Tree Academy PCS	73%
Creative Minds International PCS	12%	AppleTree Early Learning PCS Southeast	72%
Lee Montessori PCS	14%	Friendship PCS SouthEast Academy	72%
Mundo Verde Bilingual PCS	14%	Friendship PCS Tech Prep	71%
Shining Stars Montessori PCS	17%	Democracy Prep PCS-Congress Heights	70%

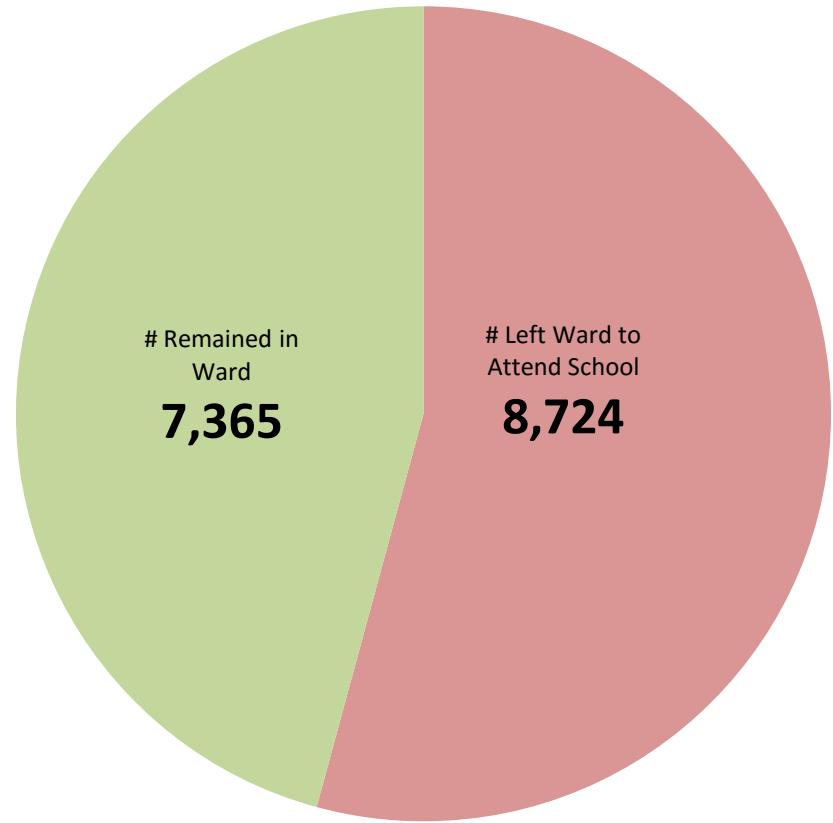
School Choice

In SY 2014-15, 15,565 students attend public charter schools outside their home ward, and 44% of these students are “at-risk”

At-risk students

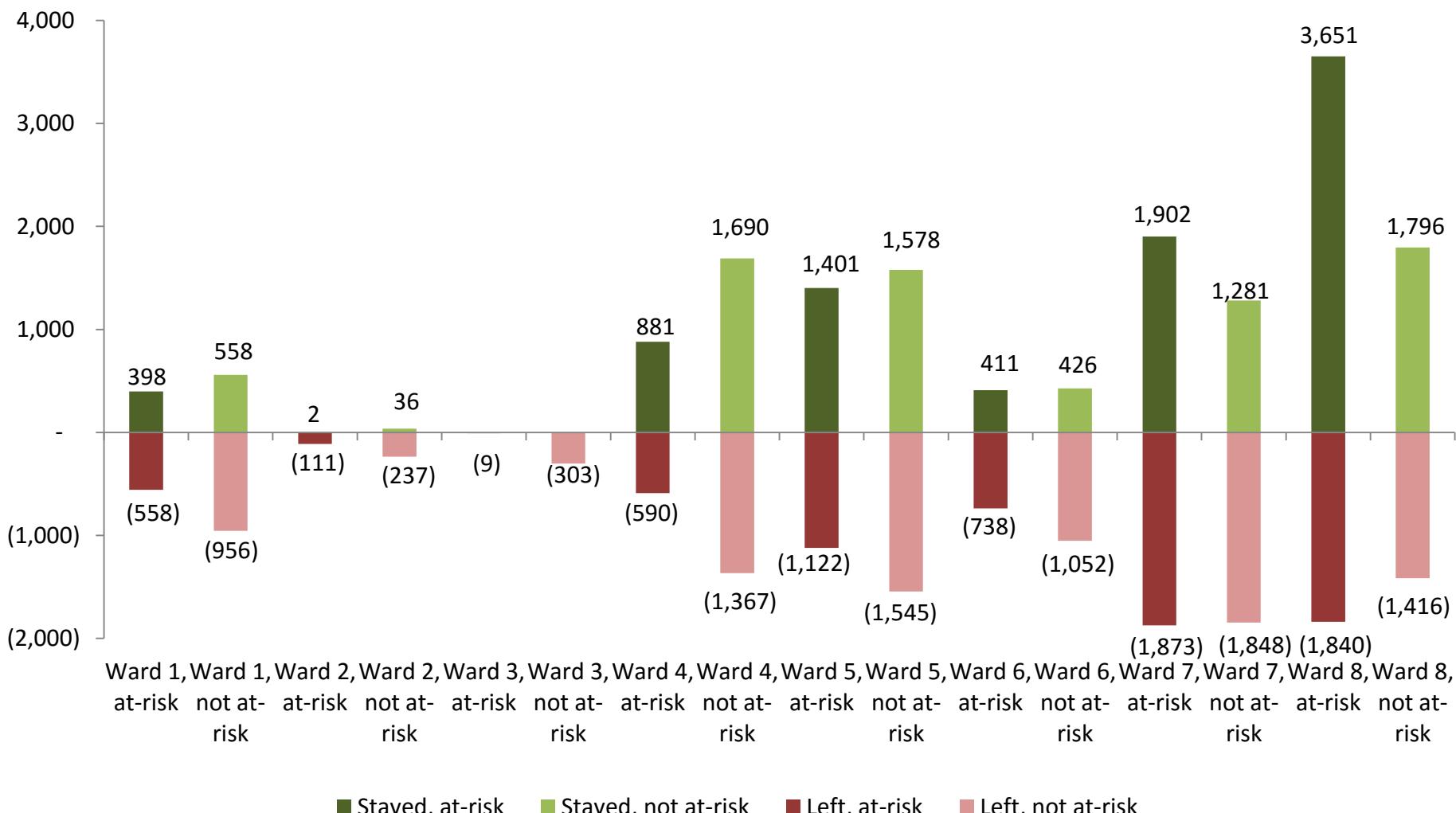


Not at-risk students



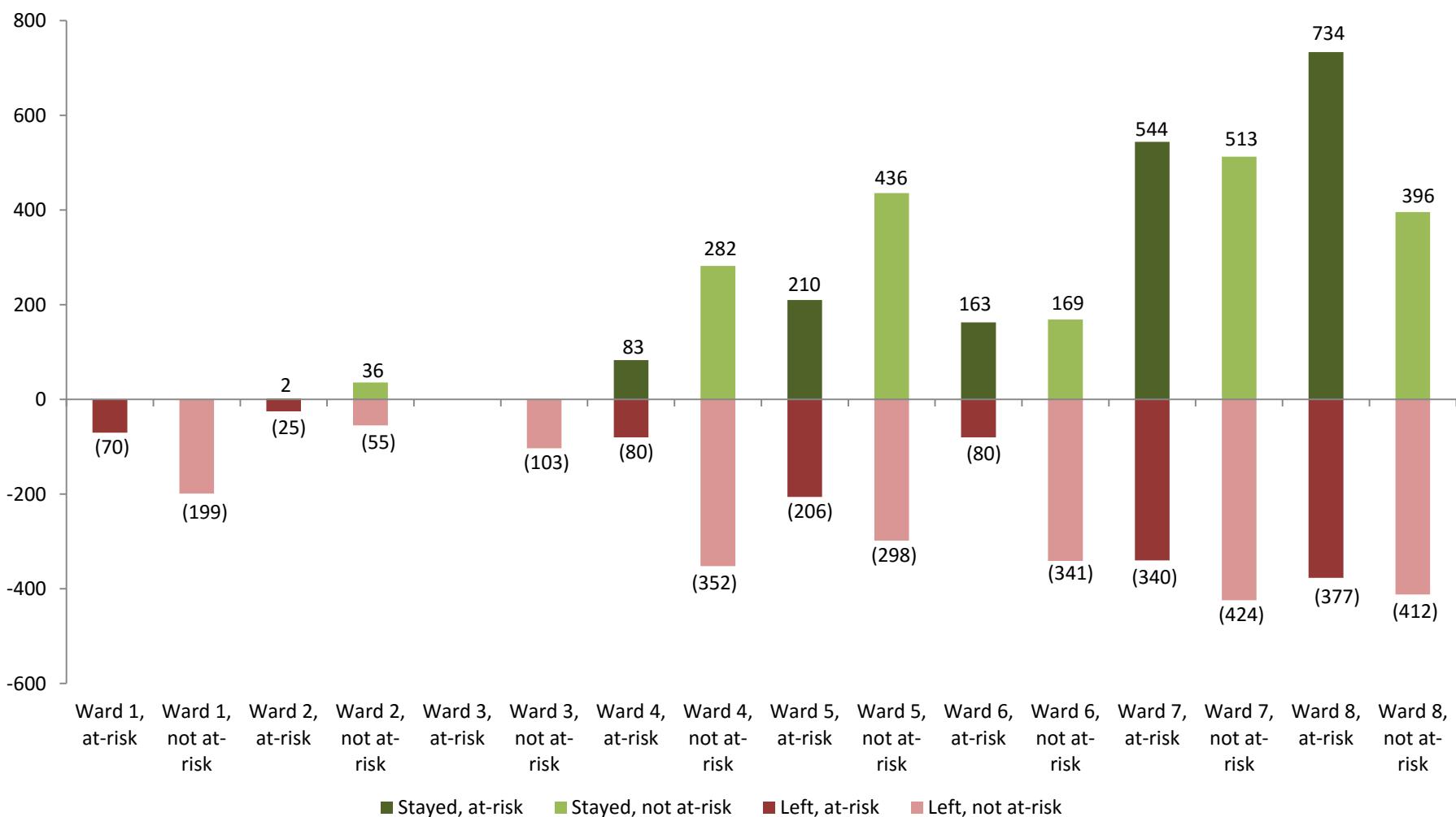
Students from every ward travel to attend schools in other wards

Students choosing schools in and out of home Ward by "at-risk" and "not at-risk"



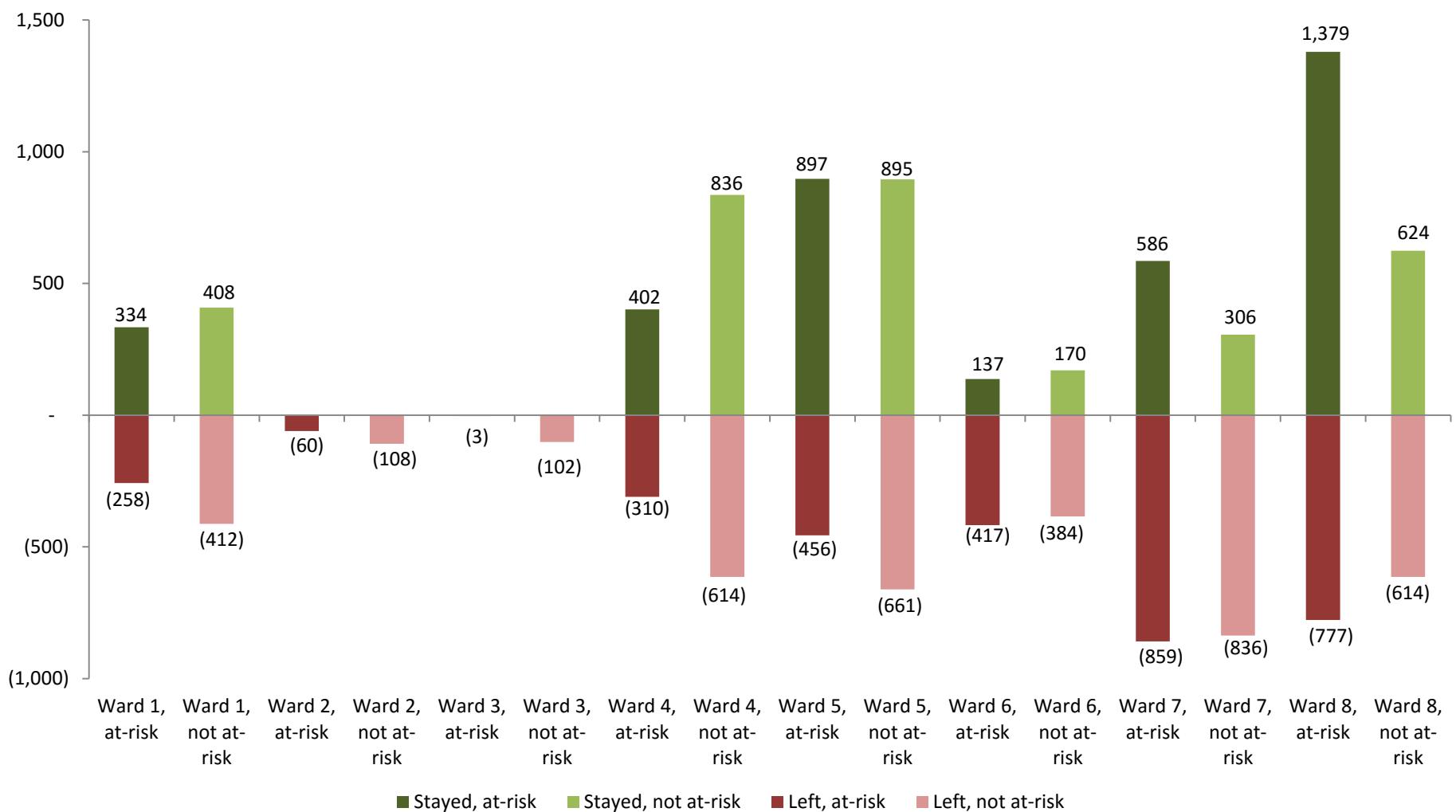
In SY 2014-15, 3,362 attend Tier 1 public charter schools outside of their home ward, and 35% of these students are "at-risk"

Students choosing Tier 1 schools in and out of home Ward by "at-risk" and "not at-risk"



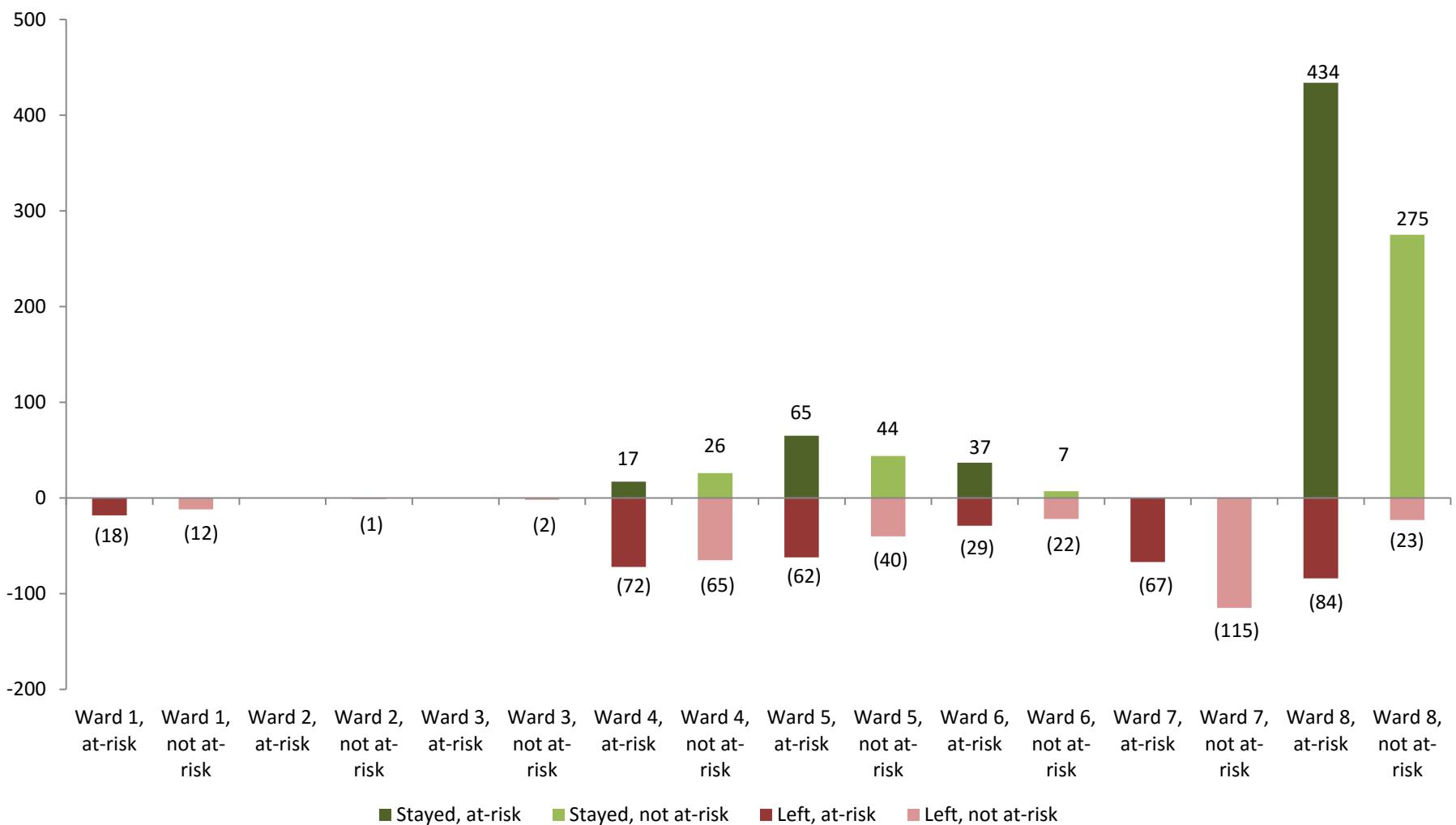
In SY 2014-15, 6,871 attend Tier 2 public charter schools outside of their home ward, and 46% of these students are "at-risk"

Students choosing Tier 2 schools in and out of home ward by "at-risk" and "not at-risk"



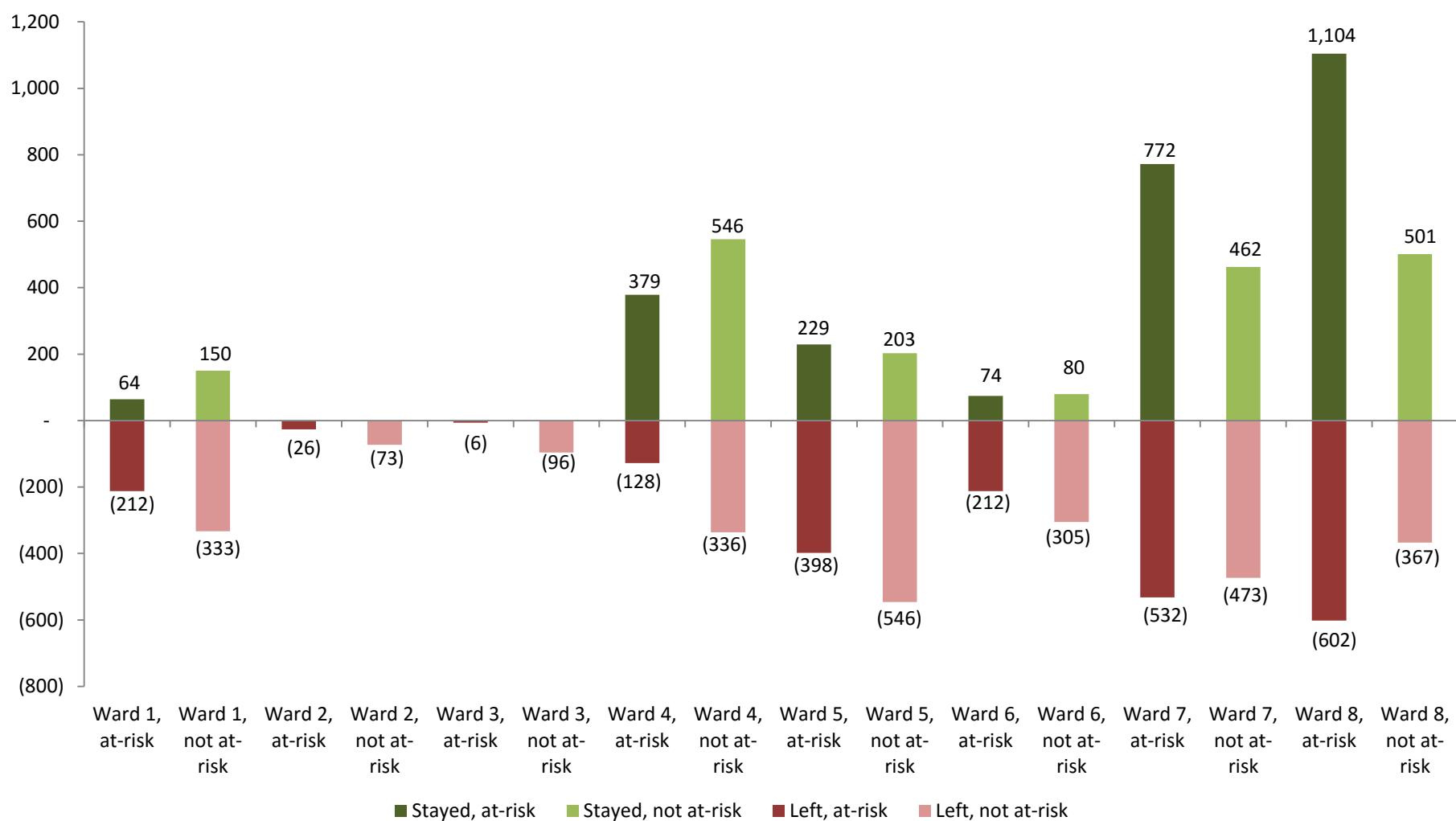
Students attending Tier 3 schools tended to live in the ward of the school

Students choosing Tier 3 schools in and out of home ward by "at-risk" and "not at-risk"



In SY 2014-15, 4,645 attend a Untiered public charter schools outside of their home ward, and 46% of these students are “at-risk”

Students choosing Untiered schools in and out of home ward by "at-risk" and "not at-risk"

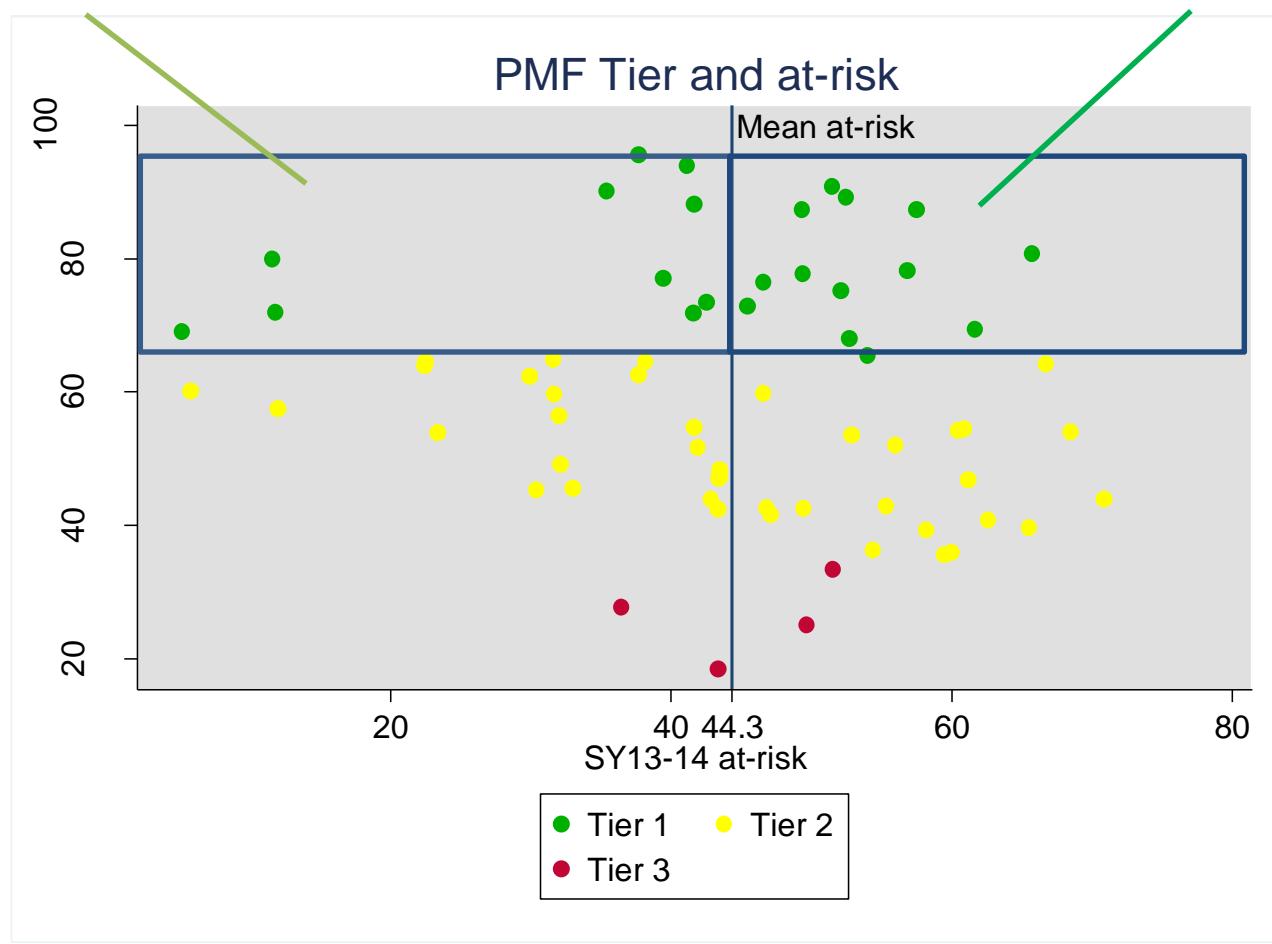


Campus PMF and at-risk

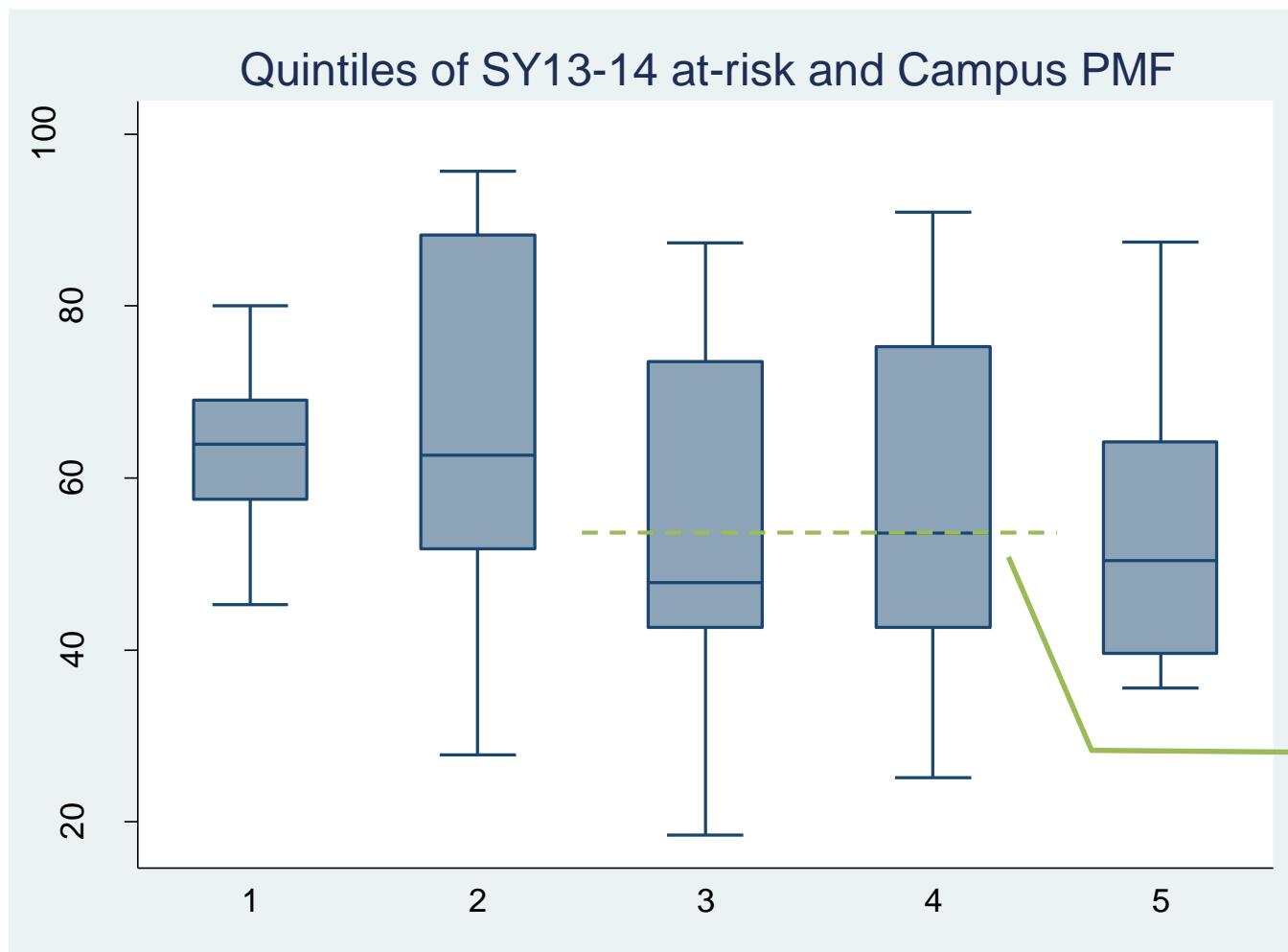
The share of students who are at-risk does not determine PMF Tier

10 schools have PMF scores above the Tier 1 threshold and low shares of at-risk

13 schools have PMF scores above the Tier 1 threshold and high shares of at-risk



Variation in median PMF score across at-risk quintiles shows that PMF score is related to factors other than share of at-risk students



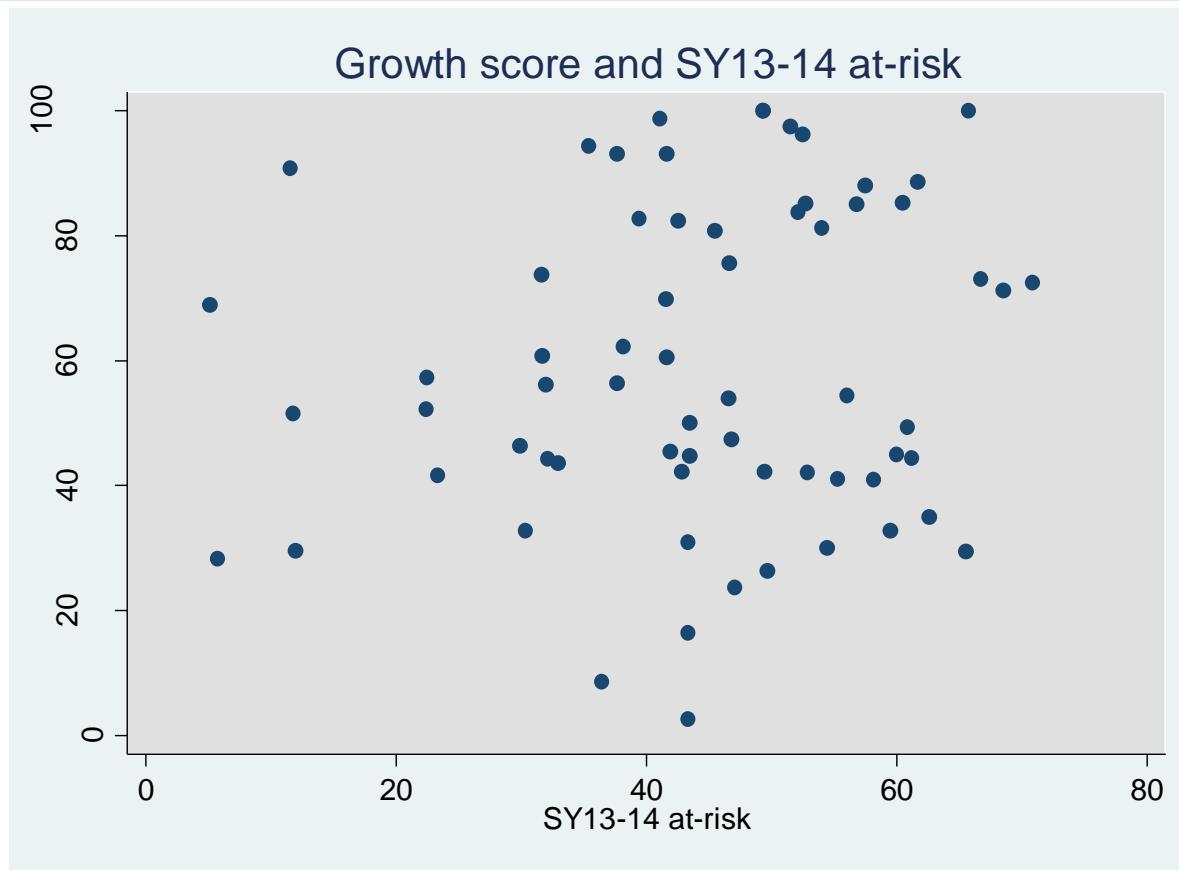
Note: Top line indicates upper value and bottom line indicates lower value. Box lines indicate 75th percentile, median, and 25th percentile.

New Campus-Level PMF indicators, measures, and at-risk

Growth PMF indicator is weakly correlated with at-risk

	Growth score
SY13-14 at-risk coefficient	0.24
P-value	0.19
R-squared	0.02
Correlation	0.14

Notes: St. Coletta PCS and Options PCS are omitted because they are alternative schools. Blue dots indicate a weak correlation between 0.1 and 0.3; yellow dots indicate a moderate correlation between 0.4 and 0.6; and red dots indicate a strong correlation between 0.7 and 0.9. Category for strength of correlation refers to Dancey, C., & Reidy, J. (2004). *Statistics without Maths for Psychology: using SPSS for Windows*, London: Prentice Hall.

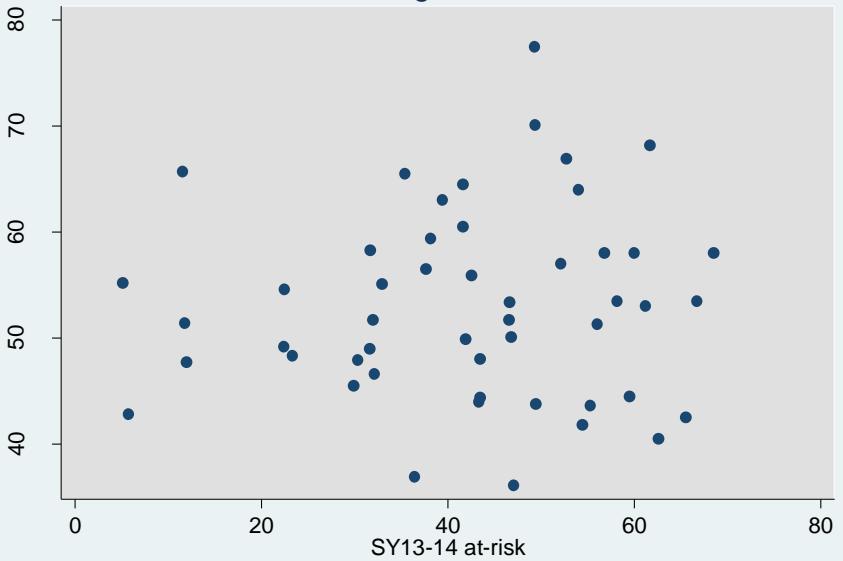


Growth in Reading and Math PMF measures are not correlated with at-risk

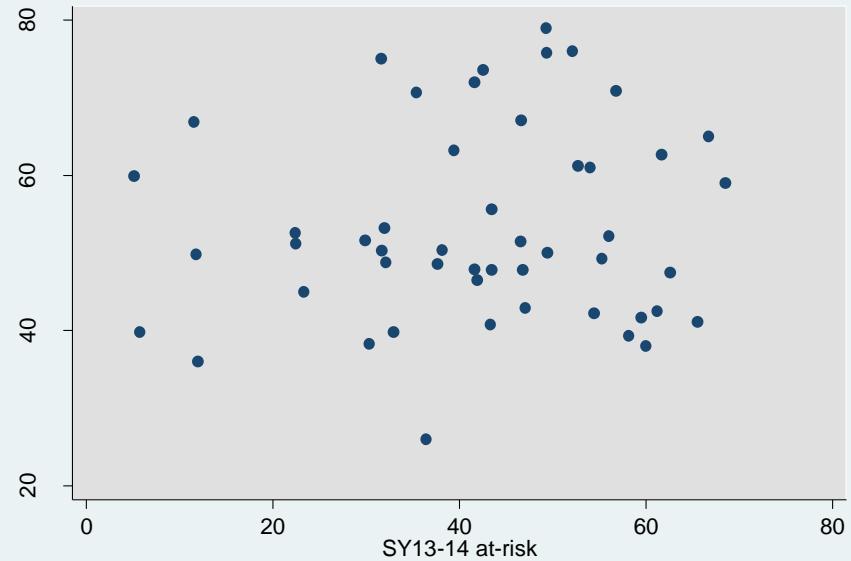
	Growth in reading	Growth in math
SY13-14 at-risk coefficient	0.04	0.07
P value	0.60	0.47
R-squared	0.00	0.01
Correlation	0.07	0.09

Notes: St. Coletta PCS and Options PCS are omitted because they are alternative schools. Analysis uses rates, not points earned. Blue dots indicate a weak correlation between 0.1 and 0.3; yellow dots indicate a moderate correlation between 0.4 and 0.6; and red dots indicate a strong correlation between 0.7 and 0.9. Category for strength of correlation refers to Dancey, C., & Reidy, J. (2004). *Statistics without Maths for Psychology: using SPSS for Windows*, London: Prentice Hall.

Growth in reading and SY13-14 at-risk



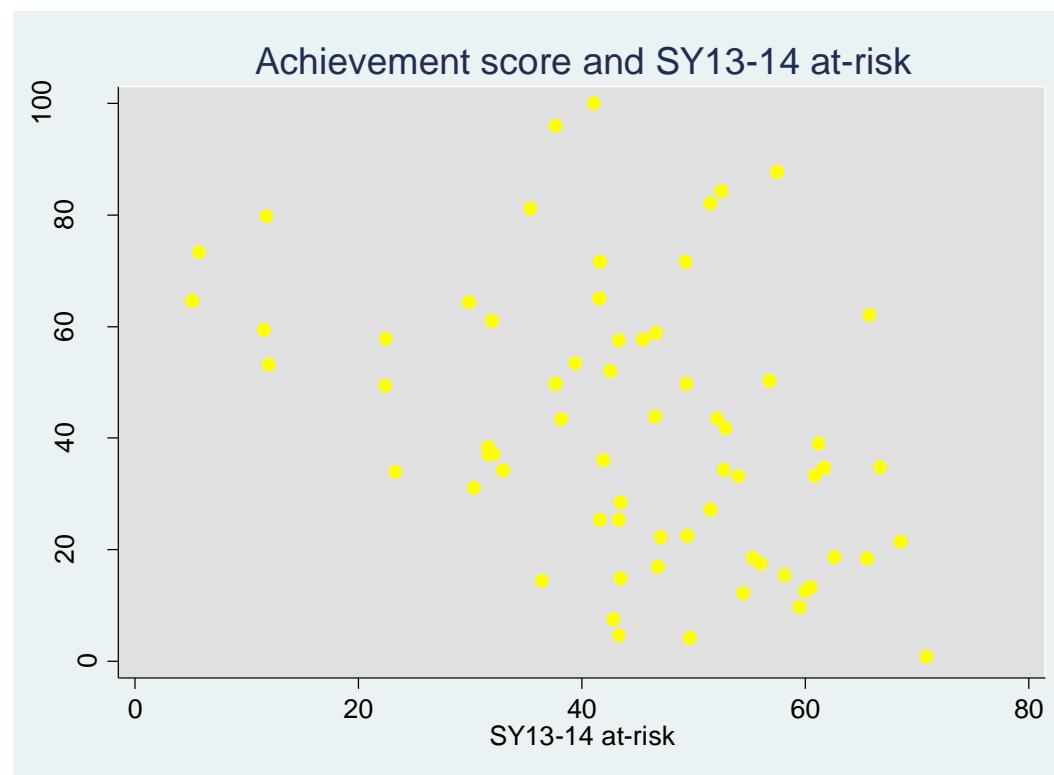
Growth in math and SY13-14 at-risk



Overall achievement PMF indicator is weakly to moderately correlated to at-risk

	Achievement score
SY13-14 at-risk coefficient	-0.63
P-value	0.00
R-squared	0.16
Correlation	0.40

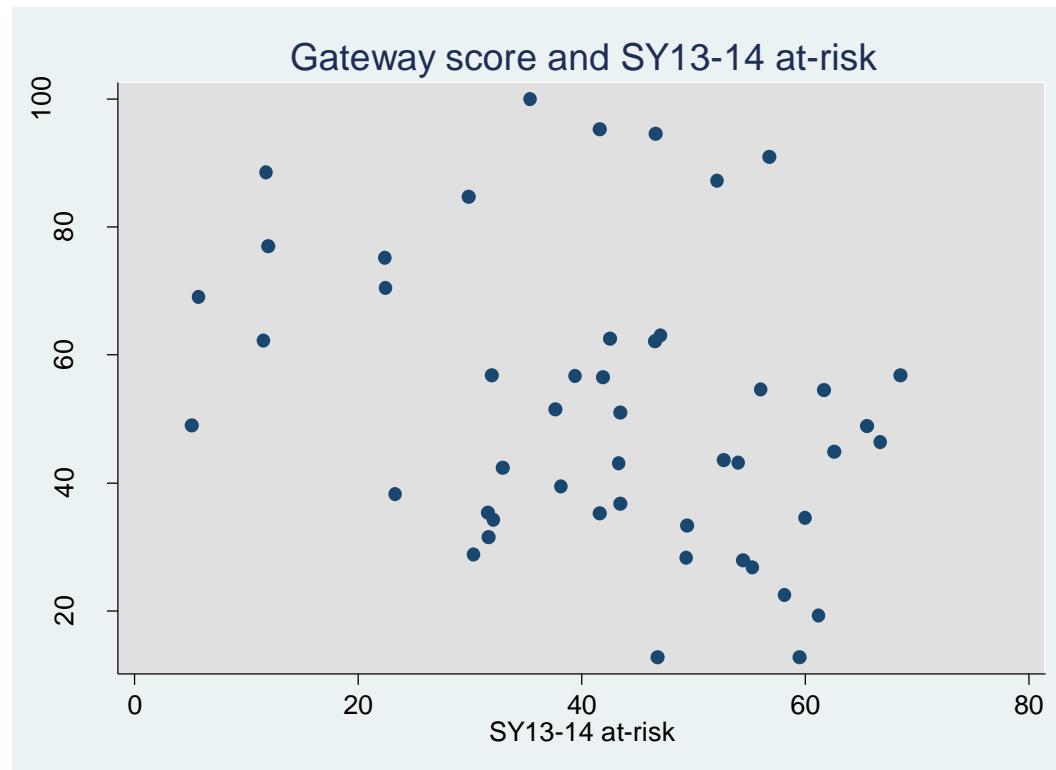
Notes: Analysis uses scores. St. Coletta PCS and Options PCS are omitted because they are alternative schools. Blue dots indicate a weak correlation between 0.1 and 0.3; yellow dots indicate a moderate correlation between 0.4 and 0.6; and red dots indicate a strong correlation between 0.7 and 0.9. Category for strength of correlation refers to Dancey, C., & Reidy, J. (2004). *Statistics without Maths for Psychology: using SPSS for Windows*, London: Prentice Hall.



Overall gateway PMF indicator is weakly correlated to at-risk

	Gateway score
SY13-14 at-risk coefficient	-0.43
P-value	0.01
R-squared	0.10
Correlation	0.31

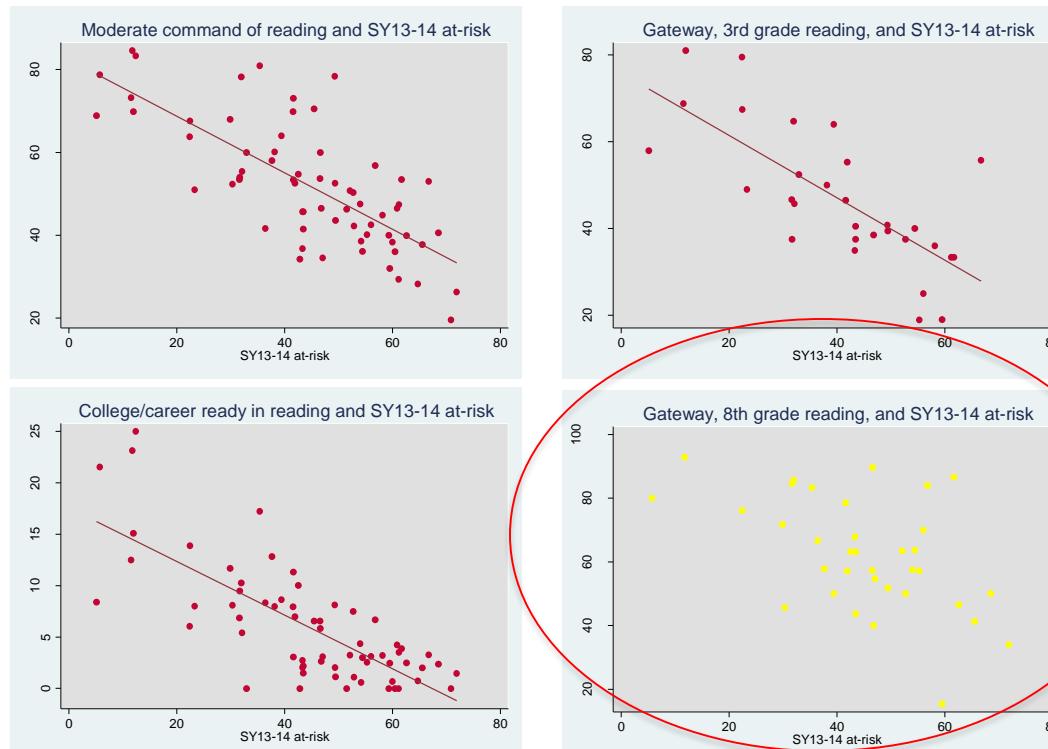
Notes: Analysis uses scores. St. Coletta PCS and Options PCS are omitted because they are alternative schools. Blue dots indicate a weak correlation between 0.1 and 0.3; yellow dots indicate a moderate correlation between 0.4 and 0.6; and red dots indicate a strong correlation between 0.7 and 0.9. Category for strength of correlation refers to Dancey, C., & Reidy, J. (2004). *Statistics without Maths for Psychology: using SPSS for Windows*, London: Prentice Hall.



Reading Achievement and Gateway PMF measures are moderately to strongly correlated to at-risk

	Achievement in reading, moderate command	Achievement in reading, college/career ready	Gateway, reading grade 3	Gateway, reading grade 8
SY13-14 at-risk coefficient	-0.68	-0.26	-0.72	-0.62
P value	0.00	0.00	0.00	0.00
R-squared	0.55	0.57	0.54	0.27
Correlation	0.74	0.76	0.73	0.52

Notes: St. Coletta PCS and Options PCS excluded from analysis because they are alternative schools. Two-year cohort used for Gateway measures. Analysis uses rates, not points earned. Blue dots indicate a weak correlation between 0.1 and 0.3; yellow dots indicate a moderate correlation between 0.4 and 0.6; and red dots indicate a strong correlation between 0.7 and 0.9. Category for strength of correlation refers to Dancey, C., & Reidy, J. (2004). *Statistics without Maths for Psychology: using SPSS for Windows*, London: Prentice Hall.

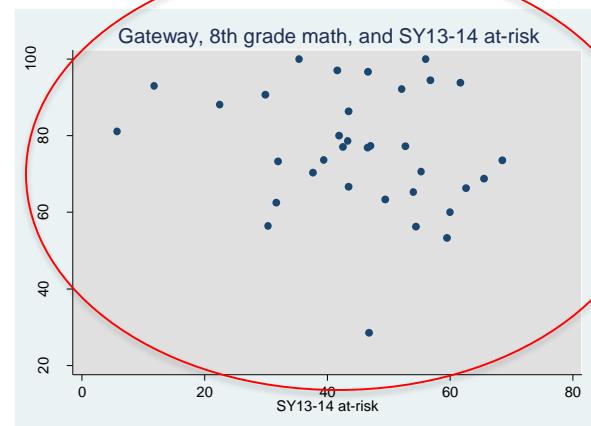
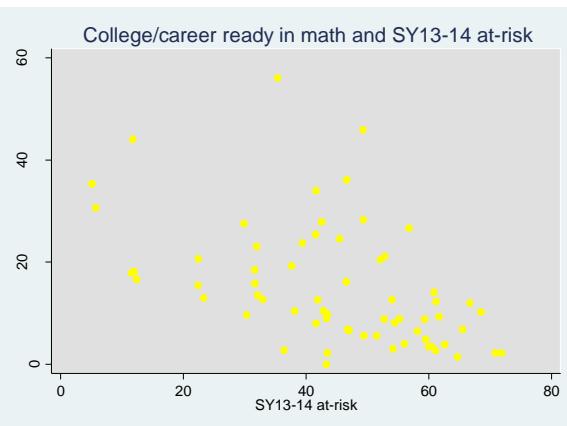
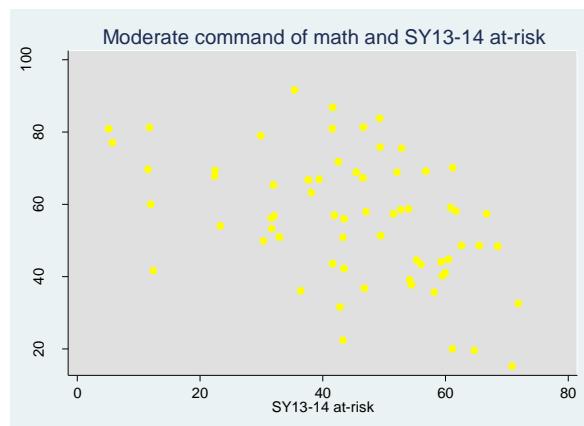


Decrease in correlation when we look at 8th graders who have attended the school for two or more years.

Math Achievement and Gateway PMF measures are moderately or weakly correlated with at-risk

	Achievement in math, moderate command	Achievement in math, college/career ready	Gateway, math grade 8
SY13-14 at-risk coefficient	-0.47	-0.35	-0.22
P value	0.00	0.00	0.13
R-squared	0.19	0.23	0.04
Correlation	0.44	0.47	0.20

Notes: St. Coletta PCS and Options PCS excluded from analysis because they are alternative schools. Two-year cohort used for Gateway measures. Analysis uses rates, not points earned. Blue dots indicate a weak correlation between 0.1 and 0.3; yellow dots indicate a moderate correlation between 0.4 and 0.6; and red dots indicate a strong correlation between 0.7 and 0.9. Category for strength of correlation refers to Dancey, C., & Reidy, J. (2004). *Statistics without Maths for Psychology: using SPSS for Windows*, London: Prentice Hall.

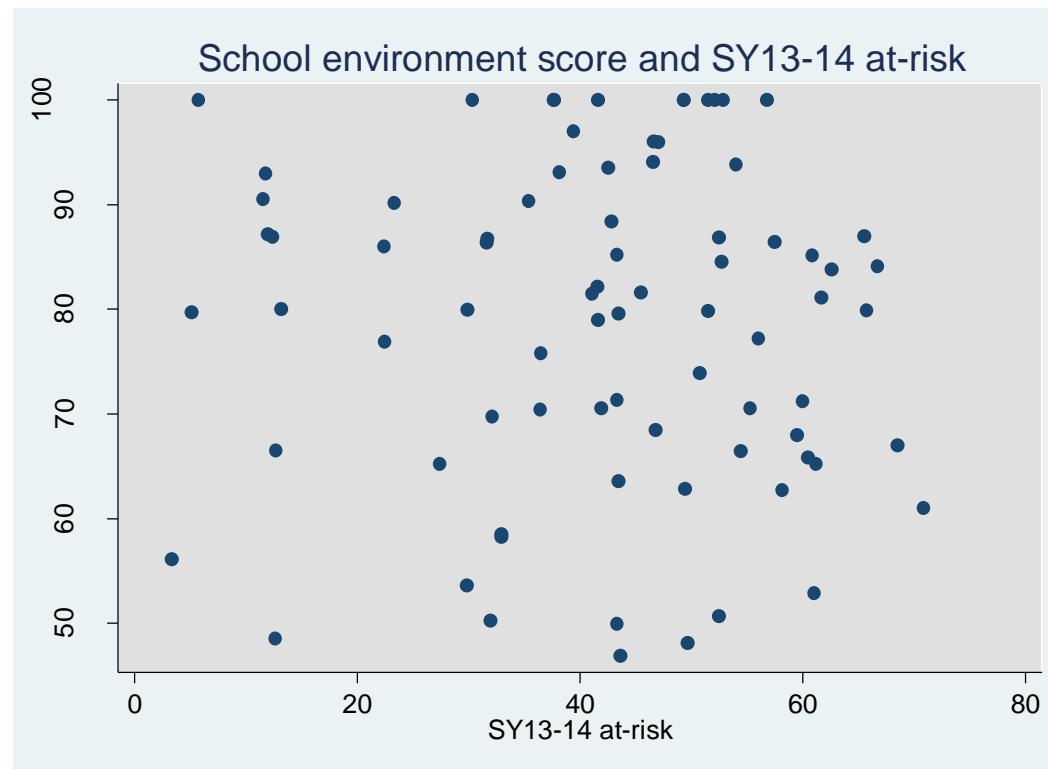


Weak correlation when we look at returning 8th graders

School Environment PMF indicator is not correlated with at-risk

	School environment score
SY13-14 at-risk coefficient	-0.03
P-value	0.74
R-squared	0.00
Correlation	0.04

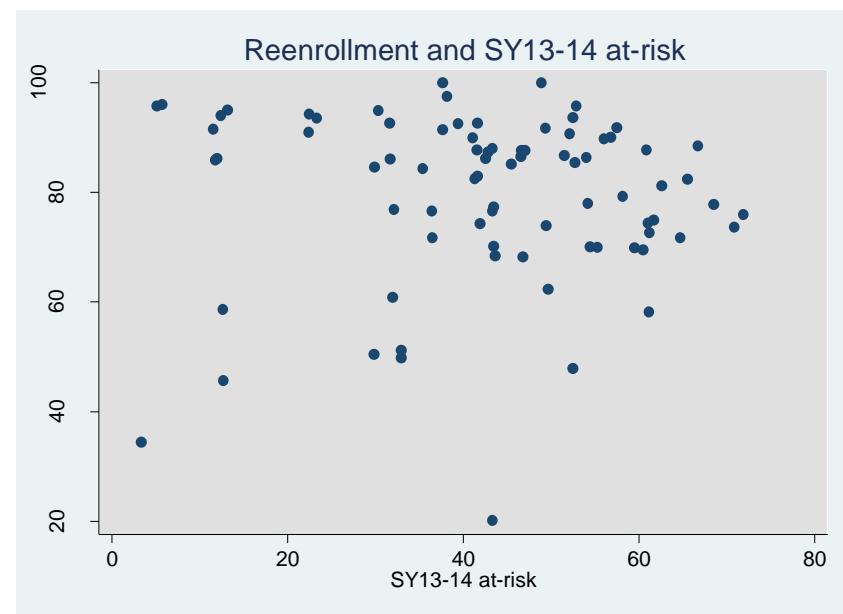
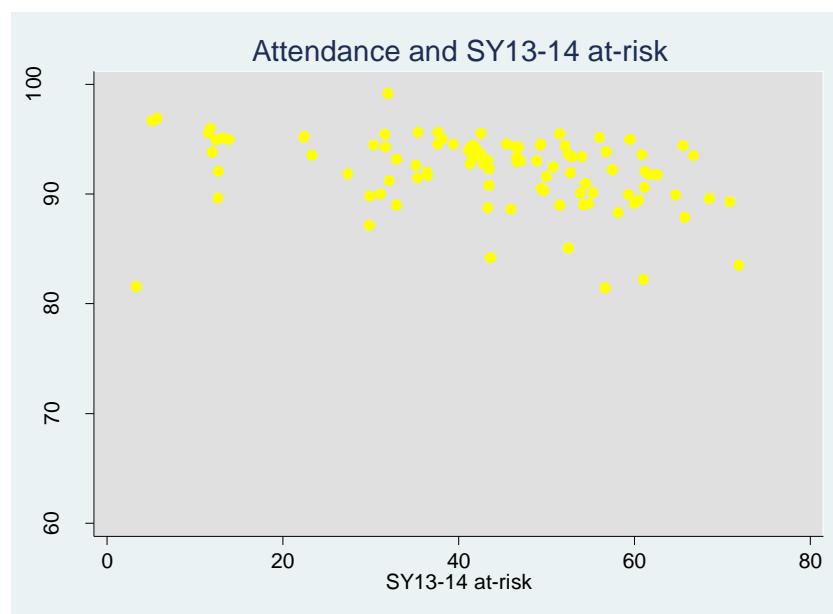
Notes: St. Coletta PCS and Options PCS are omitted because they are alternative schools. Blue dots indicate a weak correlation between 0.1 and 0.3; yellow dots indicate a moderate correlation between 0.4 and 0.6; and red dots indicate a strong correlation between 0.7 and 0.9. Category for strength of correlation refers to Dancey, C., & Reidy, J. (2004). *Statistics without Maths for Psychology: using SPSS for Windows*, London: Prentice Hall.



Attendance measure is weakly correlated with at-risk, and Reenrollment is not correlated with at-risk

	Attendance	Reenrollment
SY13-14 at-risk coefficient	-0.06	-0.02
P value	0.02	0.89
R-squared	0.10	0.00
Correlation	0.32	0.02

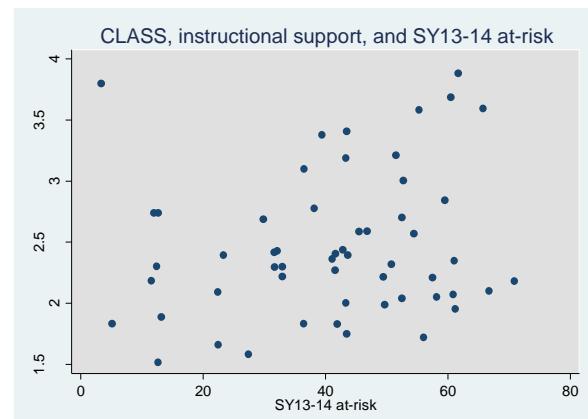
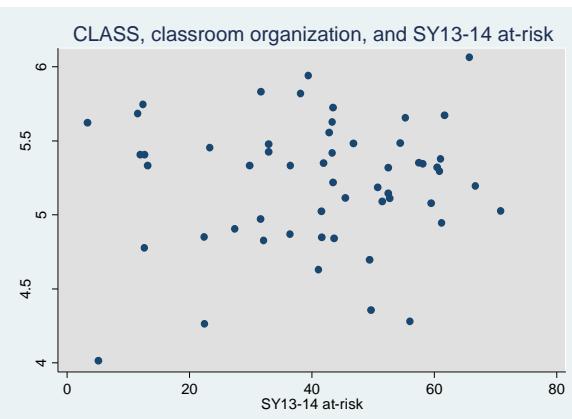
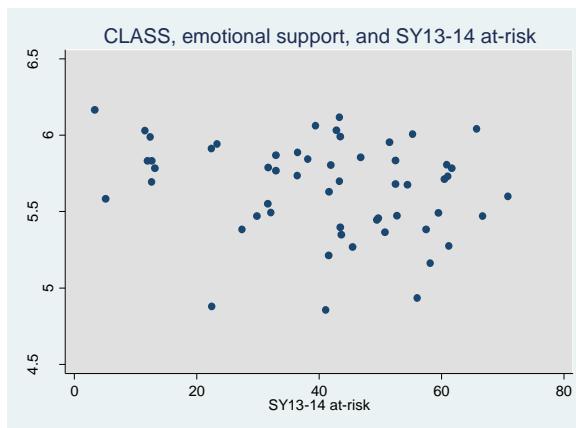
Notes: Analysis uses rates, not points earned. St. Coletta PCS and Options PCS excluded from analysis because they are alternative schools. Blue dots indicate a weak correlation between 0.1 and 0.3; yellow dots indicate a moderate correlation between 0.4 and 0.6; and red dots indicate a strong correlation between 0.7 and 0.9. Category for strength of correlation refers to Dancey, C., & Reidy, J. (2004). *Statistics without Maths for Psychology: using SPSS for Windows*, London: Prentice Hall.



Pre-Kindergarten PMF measures are weakly or not correlated with at-risk

	CLASS, emotional support	CLASS, classroom organization	CLASS, instructional support
SY13-14 at-risk	0.00	0.00	0.01
P-value	0.06	0.68	0.29
R-squared	0.05	0.00	0.03
Correlation	0.23	0.07	0.18

Notes: CAPCS Online excluded as outlier. Blue dots indicate a weak correlation between 0.1 and 0.3; yellow dots indicate a moderate correlation between 0.4 and 0.6; and red dots indicate a strong correlation between 0.7 and 0.9. Category for strength of correlation refers to Dancey, C., & Reidy, J. (2004). *Statistics without Maths for Psychology: using SPSS for Windows*, London: Prentice Hall.



Summary

- **PMF scores are very weakly correlated to at-risk**, primarily due to the inclusion of Achievement and Gateway scores
- **Including a high bar for all students in attaining proficiency in reading and math is important**; it is a basic necessity that all students possess these essential skills
- When we look at 8th returning students only, the correlation decreases for reading and math

**Schools with higher
percentages of at-risk
and Tier 1 PMF scores**

13 schools with over 45% or higher at-risk in SY13-14 earning Tier 1 scores

School with high share of at-risk and Tier 1 PMF scores	SY13-14 at-risk	SY14-15 at-risk (for reference only)	Campus PMF score
Ingenuity Prep PCS	66%	74%	81%
Center City Congress Heights Campus PCS	62%	67%	69%
KIPP DC Discover PCS	58%	62%	87%
KIPP DC AIM PCS Academy PCS	57%	59%	78%
Friendship PCS Woodridge Middle	54%	45%	66%
Center City Shaw Campus PCS	53%	47%	68%
KIPP DC LEAP Academy PCS	52%	58%	89%
Friendship PCS Chamberlain Middle	52%	58%	75%
KIPP DC Spring Academy	51%	59%	91%
KIPP DC Promise PCS	49%	55%	78%
DC Preparatory Benning Middle Campus	49%	44%	87%
Achievement Preparatory PCS-Middle School	47%	50%	77%
DC Preparatory Benning Campus PCS	45%	52%	73%