

# Office of Data & Accountability

Developing a School Quality Index – Analysis for SQWG

February 2015

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#### **Executive Summary**

- From March of 2012 to February of 2013 the External Advisory Committee (EAC), a Mayoral appointed committee, developed a new Boston student assignment process that would ensure increased equity of school choice across Boston Public Schools. As part of the new home-based school assignment model, the EAC recommended that the district develop a more holistic measure of school quality that families could use when identifying their top choice schools.
- To accomplish this, the Boston School Committee convened the School Quality Working Group (SQWG), a committee made up of parents, education leaders, and district personnel to create a new School Quality Index.
- As part of the process the team worked with The District Management Council (DMC), a Boston-based education
  consulting firm, to develop a framework to guide their work, conduct research on other urban districts, and
  interview other urban school leaders that had previously tackled similar work. From this, the team built a metrics
  database of over 140 metrics.
- The team then used a DMC-developed metric assessment rubric to narrow down the database from 140 metrics to 50 metrics, and then conducted rigorous statistical analysis on each of the metrics to narrow the list down further. After the SQWG voted on final metrics, a model was built that combined all metric scores together to arrive at one final score for each of the 128 schools in the district. On September 16<sup>th</sup>, 2014 the SQWG presented its recommendation to the Boston School Committee, and the framework was formally adopted. The new framework will be used during the 2016-17 school choice process.
- The content in this package provides details on the process and the analysis that went into the metric selection.

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Executive Summary



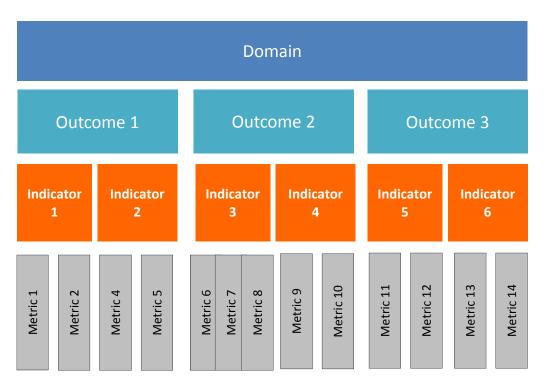
Overview of Framework

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# A framework for school quality measurement helped solidify a shared vocabulary and outlined the desired end product.

### **School Quality Measurement Framework**

The framework below was created to codify a lexicon of terms, and to clearly outline the ultimate end deliverable the team was working towards. The remaining slides in this package outline the process for defining the lowest level of the framework: the metric selection.



- <u>Domain</u>: Broad category or theme
   e.g. Student outcomes
- Outcome: The desired result the district and community are looking for e.g. Academic learning gains for all students
- Indicator: Area of measurement for progress against outcome
   e.g. Student progress on summative test scores
- Metric: Data collection mechanism
   e.g. School's median Student Growth Percentile on MCAS tests

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# The 3R metric assessment rubric created a consistent rationale for narrowing down the large database of potential metrics.

#### **3R Metric Assessment Rubric**

#### **Scoring Key**

- 1 The metric does not adhere to any of the three tenets
- 2 The metric either moderately adheres to all three tenets or adheres very strongly to some and moderately or not at all to others
- 3 The metric strongly adheres to all three tenets of the component

#### Reliability

(1 out of 3)

- Research provides evidence that the metric has an empirical impact on the desired outcome
- The data collected to calculate the metric is precise and unbiased
- The data collection mechanism is secure and scientific, and the inclusion of the metric does not create perverse incentives
- BPS is able to control for outside factors that may impact the metric

# **Replicability**

(1 out of 3)

- The data needed for the metric is easily available or collected currently
- The metric can be easily calculated at periodic intervals
- The cost of data collection and metric calculation is not prohibitive

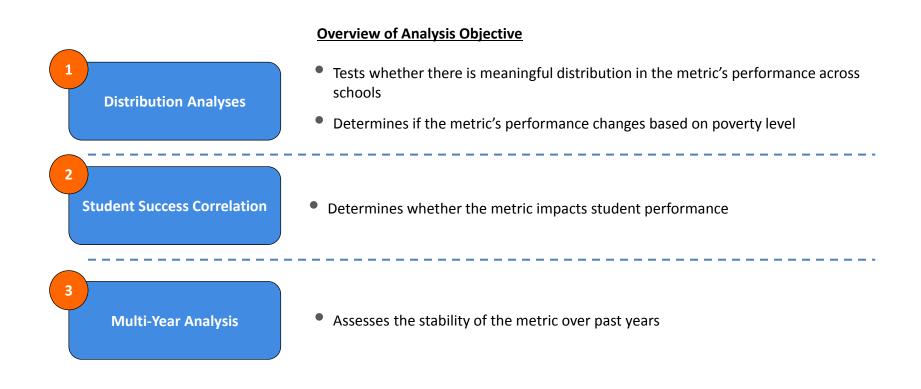
#### **Relevance**

(1 out of 3)

- The metric aligns with district priorities
- The metric is popular among and easily understood by internal and external stakeholders
- Metric exposes meaningful differentiation between schools

From there, a robust set of analyses was conducted on short-listed metrics in order to assess each metric's performance and confirm its inclusion in the index.

## **Overview of Analysis Methodology**

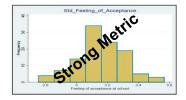


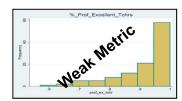
# The distribution analyses determined if the spread across schools was meaningful, and if poverty status impacts the results.

# Methodology - Additional Details (1/2)

**Distribution Analysis: One-Way** 

1a



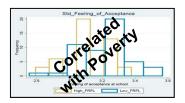


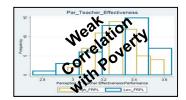
Data from past years was used to develop a histogram illustrating how schools across the district perform on each metric. We then asked:

- 1) Is there a normal distribution? Does this histogram expose meaningful differentiation across schools?
- 2) Does the performance of each school align with our qualitative understanding of the school?

1b

#### **Distribution Analysis: Two-Way**





Two separate histograms were overlayed on top of one another – one for schools with high FRPL populations and another for schools with low FRPL populations to determine the correlation between poverty status and the metric's distribution. We then asked:

1) Does the shape of the graph look similar (indicating low correlation with poverty status) or different (indicating high correlation) for high and low FRPL schools?

# The correlation analyses assessed each metric's impact on student outcomes and other metrics; multi-year analyses tested reliability over time.

# Methodology - Additional Details (2/2)

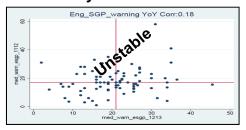
Student Success Correlation

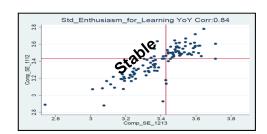
		msgp_all		esgp_all		
		Corr.	P-value	Corr.	P-value	Count
	Average Attendance Rate	0.51	0.00	0.11	0.24	115
Att	Chronic Absence % (should be <0)	-0.55	0.00	-0.19	0.04	115
	Change in Chron. Abs.	0.17	0.06	-0.01	0.92	115

All metrics were regressed again Math SGP and English SGP to determine the metric's predictive power of student success. We then asked:

- 1. Is this correlation coefficient statistically significant, meaning is the p-value less than 0.05?
- 2. If yes, is this metric moderately correlated with SGP, meaning does it have a correlation coefficient of 0.4 or higher?

Multi-Year Analysis





Scatterplots are created to illustrate schools' variability in performance on each metric from the past 2 to 3 years. We are then asked:

1. Can we identify a positively sloped trend line, meaning the metric is stable from year to year?

# The same principles of the district's "Quadrant Analysis" were applied in the School Quality Index's methodology.

# **Overview of Quadrant Analysis**

- About the Quadrant Analysis: The Quadrant analysis is a unique BPS methodology used to analyze and understand trends for students in general education, as well as for students with disabilities (SWD's) and English Language Learner (ELL's).
- Importance of the Quadrant Analysis: In its calculations of proficiency rates and student growth, DESE does not make a distinction within SWD and ELL populations. However, research and data demonstrates that students in these groups have a very wide range of needs. Some students with very high needs are served in specialized strands; therefore some schools have higher proportions of these students in order to deliver more efficient and effective services. The progress and achievement of these students is properly assessed as separate programs rather than including them in an analysis that compares the performance of schools relative to one another.
- Quadrant Analysis' Application to the School Quality Framework: In order to fairly and accurately compare
  schools, the district (following the principles of the Quadrant Analysis) has removed ELL's, ELD levels 1, 2, and 3 and SWD's not
  in resource rooms from the metrics bulleted below. Please note that the index accounts for these high needs subgroups in
  different index metrics.
  - Whether school is meeting MCAS proficiency targets in ELA and Math All students
  - Whether school is meeting MCAS proficiency targets in ELA and Math All subgroups
  - Median Math and ELA SGP All students
  - Median Math and ELA SGP All subgroups
  - Whether school is decreasing Math/ELA proficiency gaps between White & Asian students and their Black & Hispanic peers not analyzed<sup>1</sup>

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# The Student Performance domain had 13 metrics recommended for inclusion in final index.

= Included	= Excluded
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Domain	Outcome	Metric
	1. All students show progress in skills critical to school, college, and career success, including critical thinking, peer and adult relationships, and perseverance.	4 year graduation rate (average of subgroups)
		5 year graduation rate (average of subgroups)
		Drop-out rate - reflects number of 9th through 12th graders who drop out each year
		Percent of student enrolled in college within 16 months of graduation
		Student Climate Survey questions on whether students progress in critical skills (such as goal-setting and perseverance)
		Change in adjusted average PSAT score between 10th and 11th grade
		Percent of students enrolled in college not taking remedial courses
Student Performance		Whether school meets ELA/Math MCAS proficiency targets (as determined by DESE) – All students and subgroups
Periormance		% of students well below or below benchmark who move to benchmark on DIBELS
		Achievement Gap: Whether school is decreasing Math/ELA proficiency gaps between White & Asian students and their Black & Hispanic peers
		School's median SGP
		Math and ELA median SGP by subgroup
	3. Students across all subgroups demonstrate academic growth towards mastery of grade	Percent of students in 75th growth percentile by subgroup
		Median growth percentile for students who are Proficient on MCAS
	level content.	Median growth percentile for students who are Warning/Failing on MCAS
		% of ELL students at ELD Levels 1-3 who progress on ACCESS test
		School-wide change in CPI (for same cohort of students)

Note: Given previous analyses and data availability, not all metrics were analyzed as part of this process; therefore some of the metrics above are not represented in subsequent slides.

# The Teaching & Learning domain had 7 metrics recommended for inclusion in final index.

= Included	= Excluded

Domain	Outcome	Metric
	4. All students are taught by highly effective, caring, and committed teachers.	Student Climate Survey questions on teacher effectiveness
		Teacher Climate Survey questions on teacher skills and knowledge
		Parent Climate Survey question on teacher commitment to student learning
		Number of National Board Certified Teachers
	5. The school is led by effective instructional leader(s).	Teacher Climate Survey questions on school leaders' standards and expectations for teaching
	6. All students are exposed to engaging and rigorous standards-based curriculum designed to keep them on track for college and prepare them for careers.	Percentage of students that felt the school prepared them for further education, employment, and personal life after high school (from Senior Exit Survey)
Teaching and Learning		Student Climate Survey question on preparation for the next grade (or college)
Leaning		Parent Climate Survey question on preparation for the next grade (or college)
		% of eligible students enrolled in AP classes
		% of eligible 8th grade students enrolled in Algebra I
	7. Teachers focus on the development of skills critical to college and career success alongside mastery of academic subject matter.	[Placeholder for future metric]

Note: Given previous analyses and data availability, not all metrics were analyzed as part of this process; therefore some of the metrics above are not represented in subsequent slides.

# The Family, Community & Culture domain had 14 metrics recommended for inclusion in final index.

		= Included = Exc
Domain	Outcome	Metric
	8. The school is safe, well-organized, and conducive to meeting educational goals.	Student Climate Survey questions on discipline, consequences, and bullying prevention
		Teacher Climate Survey questions on classroom management and organization
		Parent Climate Survey questions on feelings of safety at school
		Number of out-of-school suspensions per 100 students
		Number of arrests of students at school
		Expulsion rate
		Environmental Conditions Index (air quality)
		Number of trespatory notices issued to parents
		Score on MSBA Facilities Condition Index
	9. All students are engaged and enthusiastic about their classes and see relevant connections between academic lessons and their own lives.	Average daily attendance
FC&C		Chronic absenteeism
		Student Climate Survey questions on engagement and enthusiasm for learning
		Teacher Climate Survey questions on student effort
		Change in chronic absenteeism - percent of students missing 10% of school a year for any reason
	10. Schools ensure all families feel welcomed and are involved in activities that support their child's academic and social growth.	Teacher Climate Survey questions on parent engagement in learning
		Parent Climate Survey questions on communication, accessibility, and decision-making
		Family Engagement Index (School Site Councils, School Parent Councils, engagement plans, etc.)
	11. The school promotes inclusion of all students, families and community stakeholders so the school community learns to acknowledge, respect, and build on social and cultural differences.	Parent Climate Survey questions on developing thriving, inclusive schools, classrooms, and communities
		Staff diversity: % of teachers of color
	12. School demonstrates a culture of high achievement.	Student Climate Survey question on teacher expectations
		Teacher Climate Survey questions on high standards among school staff

# The Student Access & Opportunities had only 1 metric recommended for inclusion, and the domain was ultimately removed from final index

Domain	Outcome	Metric
	13. All students have equal access to high-quality activities that reinforce classroom learning and promote skill	% of students receiving arts instruction (weekly instruction for students in grades K-8 and meeting Mass Core requirement for students in high school)
	building and positive youth development.	School meets guidelines for PE offerings
G. 4		Parent Climate Survey question on support for learning and behavior problems
Student Access and	14. Students have access to	# of health care FTEs per 100 students
Opportunities		# of guidance counselor FTEs per 100 students
		School has a Wellness Council and has completed a wellness action plan
		[Placeholder for future metric]

A majority of the Student Access & Opportunities domain metrics are not statistically sound based on our analysis. While we will be exploring alternative ways to measure these outcomes in the future, given the timeline, we recommend that the SQWG table this domain for the first iteration of the School Quality index. Instead, we will ensure that key opportunities be included in the "lists of attributes" through DiscoverBPS.

= Excluded

= Included

# The Leadership & Collaboration domain had 9 metrics recommended for inclusion in final index.

= Included	= Excluded
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Damain	Outcome	Makija
Domain	Outcome	Metric
	16. School leadership sets a vision for the school that actively engages teachers, staff	Student Climate Survey questions on principal effectiveness and outreach to students
	students, families, and the wider community to be a part of the school's	Teacher Climate Survey questions on staff engagement around school success
	success	Parent Climate Survey question on principal's relationship with students
	17. School leadership creates a culture of collaboration among all staff members.	Teacher Climate Survey questions on staff collaboration
Leadership and	18. School leadership develops clear and effective structures for communication with families and within the school community.	Parent Climate Survey questions on regular and effective communication
Collaboration	•	Student Climate Survey question on opportunities to participate before and after school
		Parent Climate Survey question on community partnerships
		Teacher retention rate for proficient and exemplary teachers
	<ul><li>20. School leadership retains and leverages effective teachers.</li><li>21. School leadership appropriately manages and leverages resources.</li></ul>	Teacher Climate Survey questions on support, encouragement, and engagement with staff
		Staff attendance
		[Placeholder for future metric]

Note: Given previous analyses and data availability, not all metrics were analyzed as part of this process; therefore some of the metrics above are not represented in subsequent slides.

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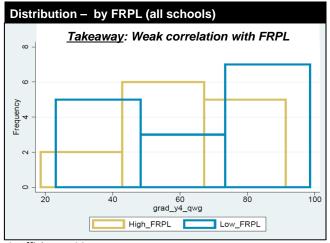


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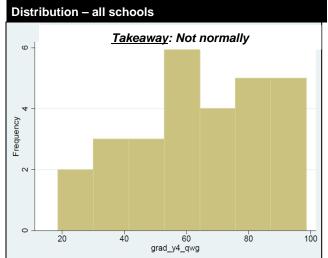
# 4 year graduation rate

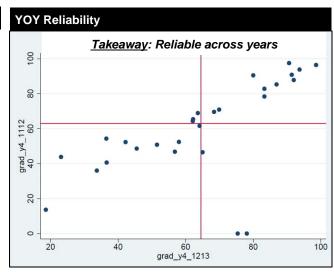
#### **Overall Recommendation: Include**

# Pros: Distributed across schools (though slightly skewed); reliable across years Cons: Weak correlation with SGP FRPL Correlation: -.08 Student Success Correlation: \* = statistically significant MSGP: 0.23 ESGP: 0.24





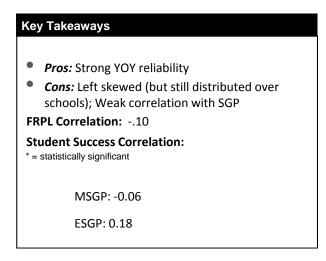


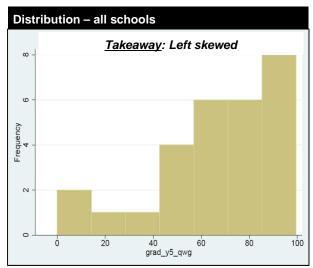


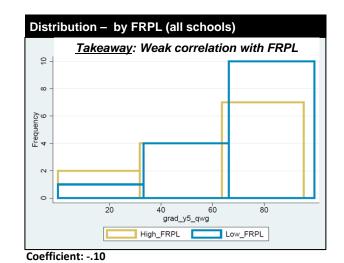
- **100 points** 95% or higher
- 75 points Met four-year target rate of 80% but was below 95%
- 50 points Improvement in the four-year rate of 2.5 percentage points of more from prior year
- 25 points Within plus or minus 2.5 percentage points of four-year rate from prior year
- **0 points** Decline of more than 2.5 percentage points from prior year
- Note: the total score was an average of the scaled scores for each of the following subgroups: All students, Black students, White Students, Asian Student, Special Education, English Language Learners

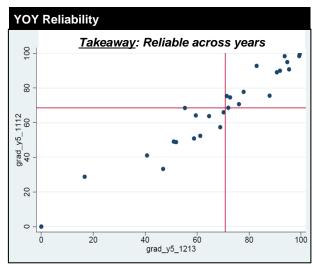
# 5 year graduation rate

#### **Overall Recommendation: Include**





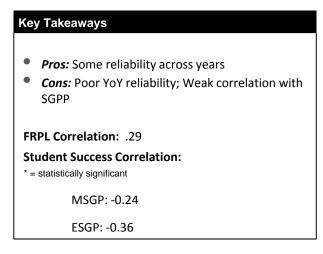


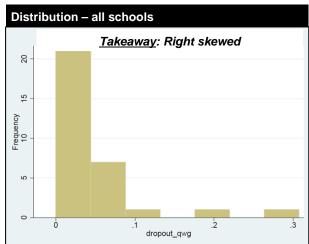


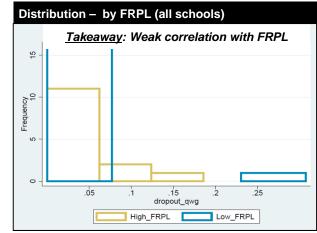
- **100 points** 95% or higher
- **75 points** Met five-year target rate of 80% but was below 95%
- **50 points** Improvement in the five-year rate of 2.5 percentage points of more from prior year
- 25 points Within plus or minus 2.5 percentage points of four-year rate from prior year
- **0 points** Decline of more than 2.5 percentage points from prior year
- Note: the total score was an average of the scaled scores for each of the following subgroups: All students, Black students, White Students, Asian Student, Special Education, English Language Learners

Drop-out rate (reflects number of 9th to 12th graders who drop out each year)

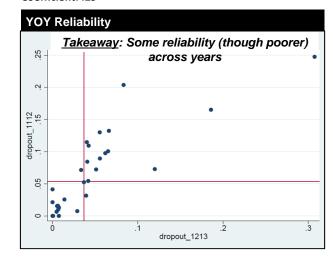
#### **Overall Recommendation: Include**







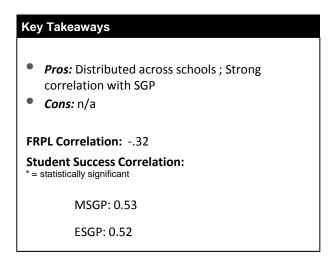


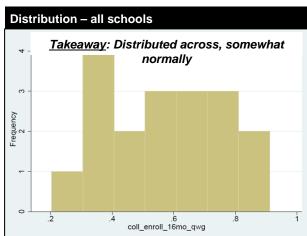


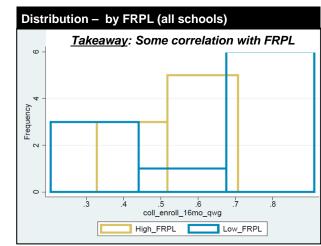
- **100 points** 0% or less than target by 0.5
- 75 points Greater than or equal to target by .05 or less than or equal to target by 0.5
- 50 points Greater than target by 0.5 and less than SY 2011-12 by 0.5
- 25 points Greater than or equal to SY 2011-12 by 0.5 and less than or equal to SY 2011-12 by 0.5
- **0 points** Greater than SY 2011-12 by .05 or more

# Percent of students enrolled in college within 16 months of graduation

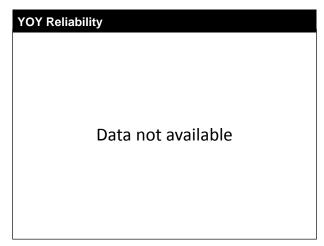
#### **Overall Recommendation: Include**







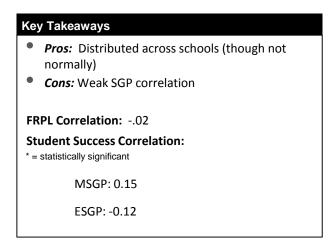


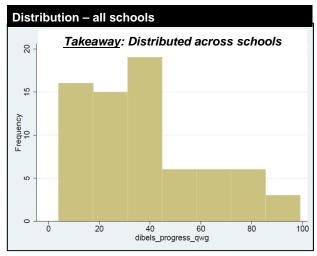


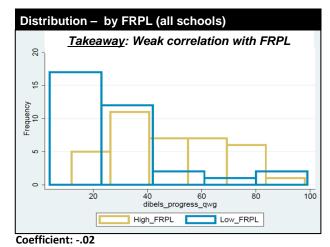
- **100 points** 72% or above target
- **75 points** Greater than or equal to 68% and less than 72%
- 50 points Less than 68% and greater than SY 2011-
- 25 points Greater than or equal to SY 2011-12 by 2 and less than or equal to SY 2011-12
- 0 points Less than SY 2011-12 by 2
- Note: in order to calculate this there must have been a minimum of 20 high school graduates in SY 2012-13

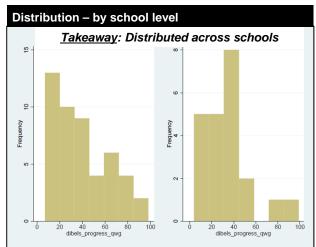
% of students well below or below benchmark who move to benchmark on DIBELS

#### **Overall Recommendation: Include**









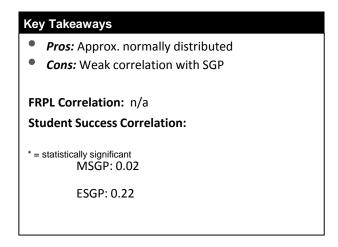
# **Cut-Offs & Methodology** • 100 points – 60% or greater

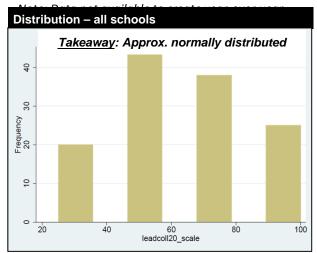
- **75 points** 55-60%
- **50 points** 50-55%
- **25 points** 40-50%
- **0** points 0-40%
- Note: Does not include students who were already at benchmark in the BOY

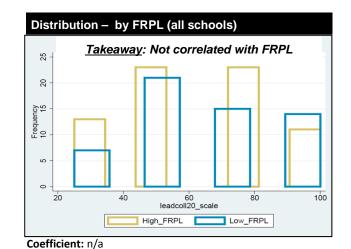
Note: For FRPL distribution, "weakly correlated" is classified as 0 to +/-0.3 (inclusive). "Some correlation" is classified as above 0.3 or below -0.3.

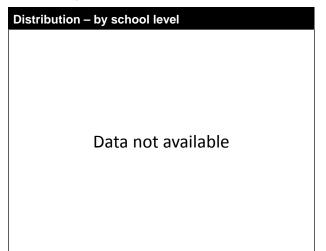
# Climate Survey Outcome: All students show progress in critical skills

#### **Overall Recommendation: Include**









#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

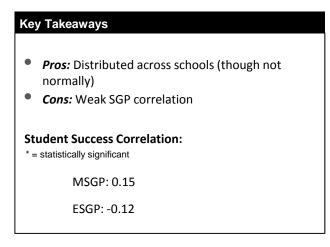
- **100 points** .5 or higher
- **75 points** Between 0 and .5
- 50 points Between -.5 and 0
- **25 points** -.5 or below
- **O points** School received less than 30 respondents

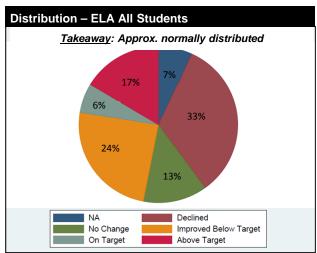
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

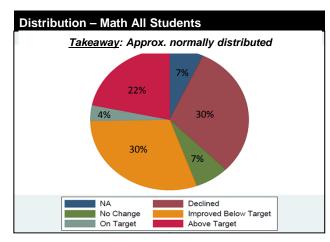
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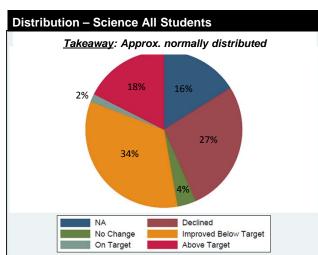
# School meets MCAS proficiency targets – All Students (as determined by DESE)

#### **Overall Recommendation: Include**





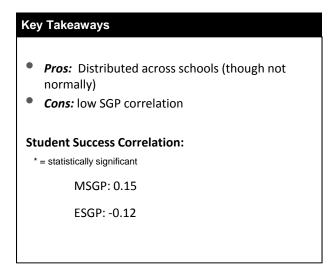


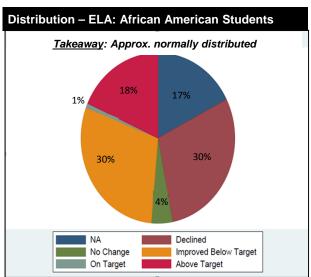


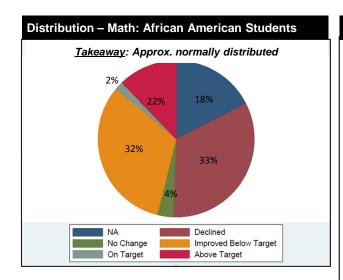
- 100 points 2104 rate greater than or equal to (2014 target +1)
- 75 points 2014 rate greater than or equal to (2014 target-1) AND 2014 rate less than (2014 target +1)
- 50 points 2014 rate greater than (2013 rate+1) AND less than (2014 target-1)
- 25 points 2014 rate greater than or equal to (2013 rate-1) AND 2014 rate less than or equal to (2013 rate +1)
- **0 points** 2014 rate less than (2013 rate-1)
- Note: Schools that did not have 2013 proficiency data did not receive a score on this metric

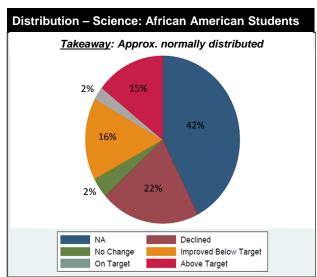
# School meets MCAS proficiency targets – Black Students (as determined by DESE)

#### **Overall Recommendation: Include**





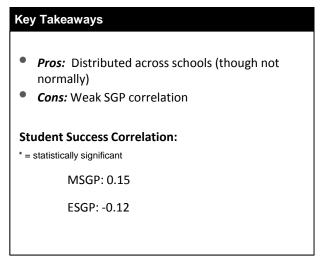


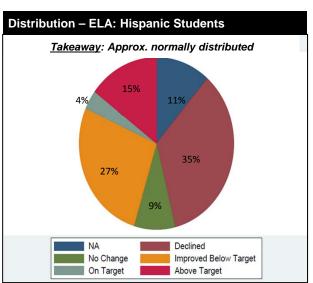


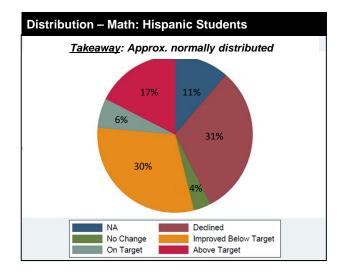
- **100 points** 2104 rate greater than or equal to (2014 target +1)
- **75 points** 2014 rate greater than or equal to (2014 target-1) AND 2014 rate less than (2014 target +1)
- 50 points 2014 rate greater than (2013 rate+1) AND less than (2014 target-1)
- 25 points 2014 rate greater than or equal to (2013 rate-1) AND 2014 rate less than or equal to (2013 rate +1)
- **0 points** 2014 rate less than (2013 rate-1)
- Note: Schools that did not have 2013 proficiency data did not receive a score on this metric
- Note: Each school was given a separate score for meeting proficiency targets for the following student subgroups: Black, Hispanic, Asian, and White. These 4 separate scores were then averaged together to arrive at one master score for this metric. Please note that this analysis was only conducted for Black and Hispanic subgroups

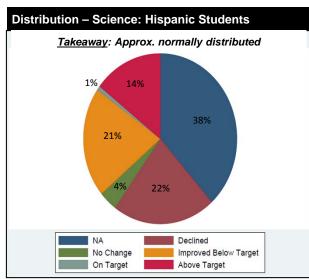
# School meets MCAS proficiency targets – Hispanic Students (as determined by DESE)

#### **Overall Recommendation: Include**





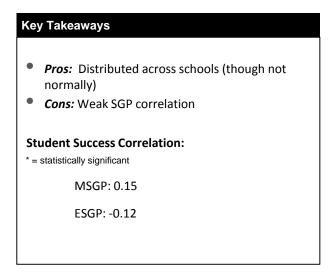


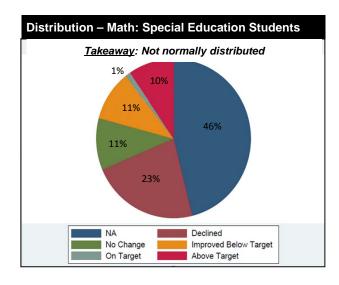


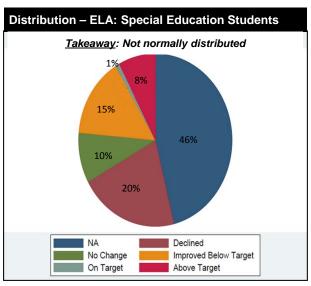
- **100 points** 2104 rate greater than or equal to (2014 target +1)
- 75 points 2014 rate greater than or equal to (2014 target-1) AND 2014 rate less than (2014 target +1)
- 50 points 2014 rate greater than (2013 rate+1) AND less than (2014 target-1)
- 25 points 2014 rate greater than or equal to (2013 rate-1) AND 2014 rate less than or equal to (2013 rate +1)
- **0 points** 2014 rate less than (2013 rate-1)
- Note: Schools that did not have 2013 proficiency data did not receive a score on this metric
- Note: Each school was given a separate score for meeting proficiency targets for the following student subgroups: Black, Hispanic, Asian, and White. These 4 separate scores were then averaged together to arrive at one master score for this metric. Please note that this analysis was only conducted for Black and Hispanic subgroups

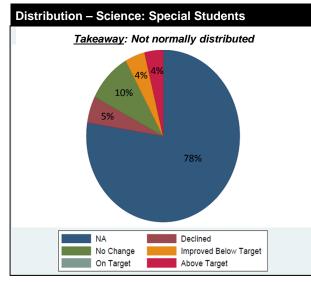
# School meets MCAS proficiency targets – Special Education Students

#### Overall Recommendation: Include (included in "All Students" metric – see slide 25)





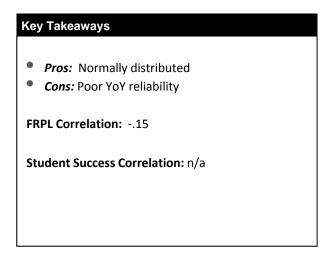


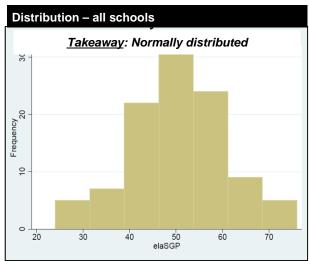


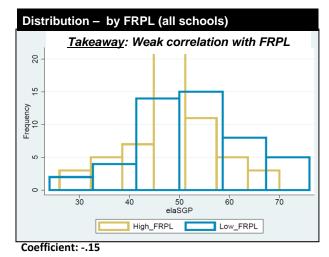
- 100 points 2104 rate greater than or equal to (2014 target +1)
- **75 points** 2014 rate greater than or equal to (2014 target-1) AND 2014 rate less than (2014 target +1)
- 50 points 2014 rate greater than (2013 rate+1) AND less than (2014 target-1)
- 25 points 2014 rate greater than or equal to (2013 rate-1) AND 2014 rate less than or equal to (2013 rate +1)
- **0 points** 2014 rate less than (2013 rate-1)
- Note: Schools that did not have 2013 proficiency data did not receive a score on this metric
- Note: The score for meeting proficiency targets for Special Education students in resource rooms was incorporated into the following metric: "School meets MCAS proficiency targets for all students" (see slide 25)

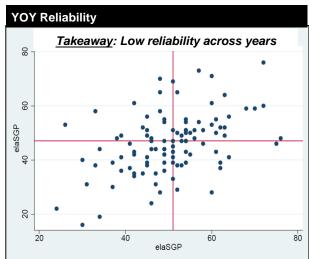
### School's median SGP - ELA

#### **Overall Recommendation: Include**









#### **Cut-Offs & Methodology**

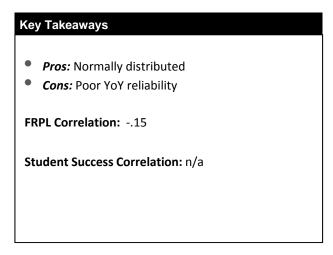
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- 75 points SGP between 51 and 59; or 10-14 median SGP point improvement; or decreased non-proficient percent by 10 percent or more from prior year
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points** SGP of 1 30

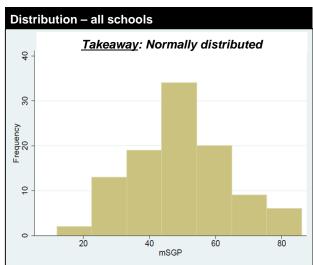
Note: This metric does not include English Language Learners, ELD levels 1, 2, and 3 or Special Education students not in resource rooms

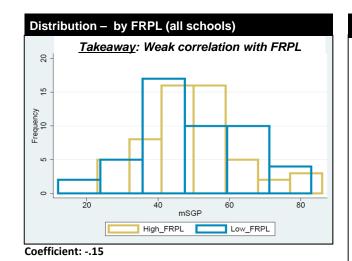
Note: For FRPL distribution, "weakly correlated" is classified as 0 to +/-0.3 (inclusive). "Some correlation" is classified as above 0.3 or below -0.3.

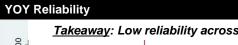
#### School's median SGP - Math

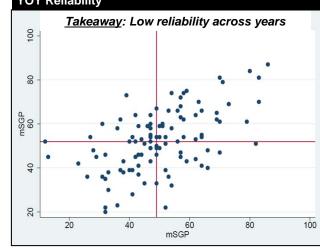
#### **Overall Recommendation: Include**









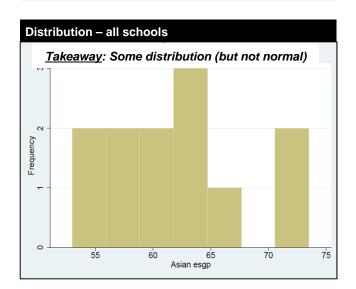


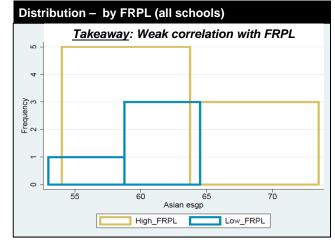
- **100 points** SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- **75 points** SGP between 51 and 59; or 10-14 median SGP point improvement; or decreased non-proficient percent by 10 percent or more from prior year
- **50 points** SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points** SGP of 1 30

# ELA median SGP - by Subgroup (Asian)

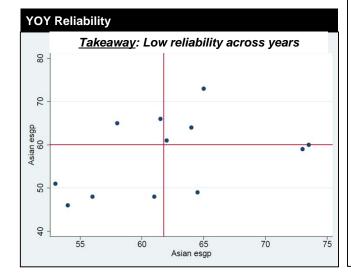
#### **Overall Recommendation: Include**

# Pros: Some distribution across schools (though not normal) Cons: Poor YoY reliability FRPL Correlation: -.03 Student Success Correlation: n/a





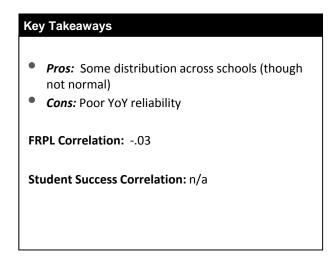
Coefficient: -.03

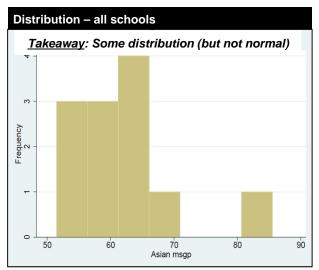


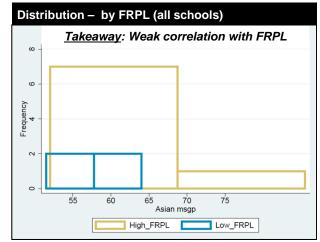
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- 75 points SGP between 51 and 59; or 10-14 median SGP point improvement; or decreased non-proficient percent by 10 percent or more from prior year
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points** SGP of 1 30
- Note: Each school was given a separate median SGP score for the following student subgroups: Black, Hispanic, Asian, and White, and Special Education. These 5 separate scores were then averaged together to arrive at one master score for this metric. Please note that this analysis was only conducted for Black, Hispanic, White, and Asian subgroups

# Math median SGP – by Subgroup (Asian)

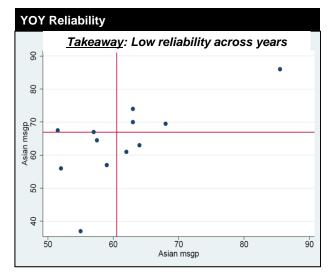
#### **Overall Recommendation: Include**







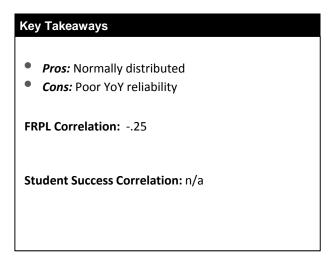
Coefficient: -.03

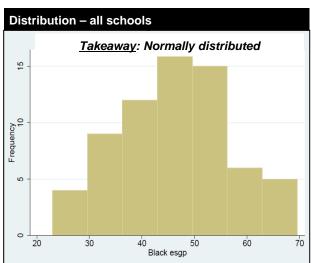


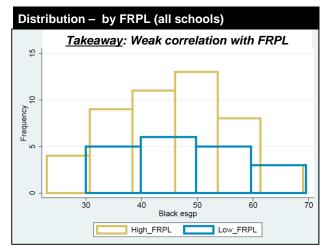
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- 75 points SGP between 51 and 59; or 10-14 median SGP point improvement; or decreased non-proficient percent by 10 percent or more from prior year
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points** SGP of 1 30
- Note: Each school was given a separate median SGP score for the following student subgroups: Black, Hispanic, Asian, and White, and Special Education. These 5 separate scores were then averaged together to arrive at one master score for this metric. Please note that this analysis was only conducted for Black, Hispanic, White, and Asian subgroups

# ELA median SGP – by Subgroup (Black)

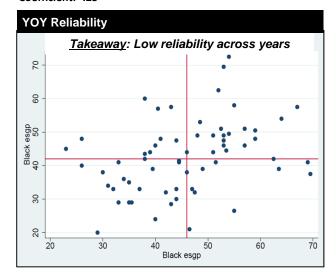
#### **Overall Recommendation: Include**







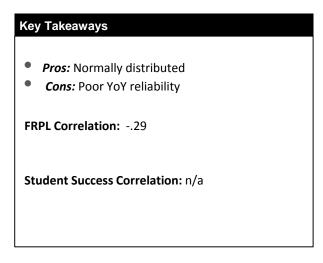
Coefficient: -.25

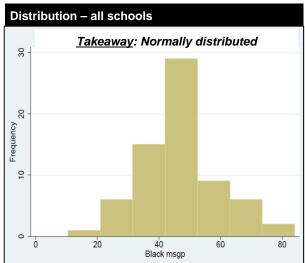


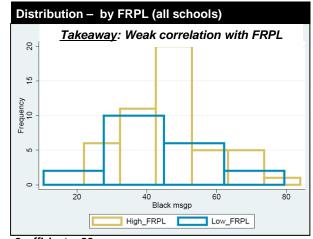
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- **75 points** SGP between 51 and 59; or 10-14 median SGP point improvement; or decreased non-proficient percent by 10 percent or more from prior year
- 50 points SGP of 41 50;
   or 1-9 point SGP
   improvement from prior year
- 25 points SGP of 31 40
- **0 points** SGP of 1 30
- Note: Each school was given a separate median SGP score for the following student subgroups: Black, Hispanic, Asian, and White, and Special Education. These 5 separate scores were then averaged together to arrive at one master score for this metric. Please note that this analysis was only conducted for Black, Hispanic, White, and Asian subgroups

# Math median SGP – by Subgroup (Black)

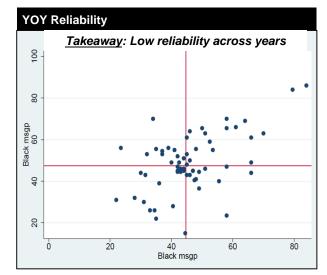
#### **Overall Recommendation: Include**







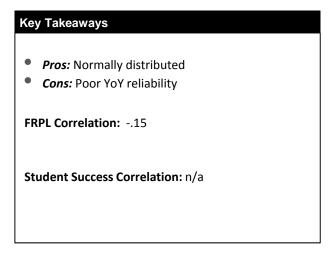


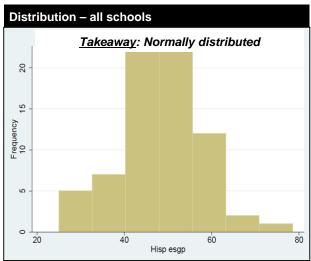


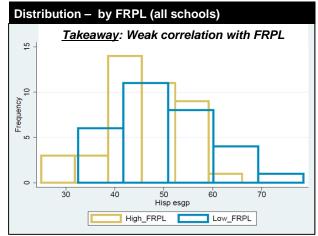
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- **75 points** SGP between 51 and 59; or 10-14 median SGP point improvement; or decreased non-proficient percent by 10 percent or more from prior year
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- 0 points SGP of 1 30
- Note: Each school was given a separate median SGP score for the following student subgroups: Black, Hispanic, Asian, and White, and Special Education. These 5 separate scores were then averaged together to arrive at one master score for this metric. Please note that this analysis was only conducted for Black, Hispanic, White, and Asian subgroups

# ELA median SGP – by Subgroup (Hispanic)

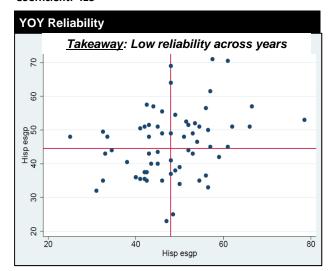
#### **Overall Recommendation: Include**







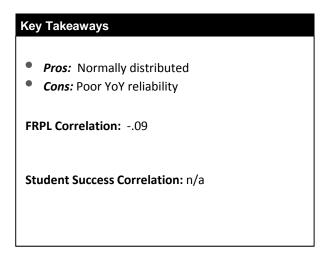


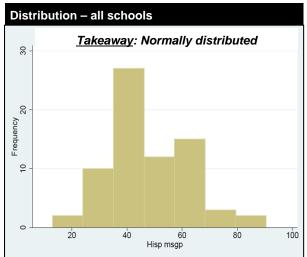


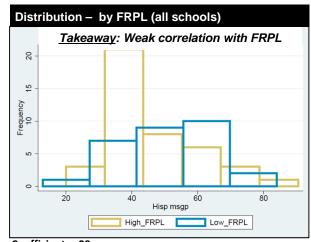
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- 75 points SGP between 51 and 59; or 10-14 median SGP point improvement; or decreased non-proficient percent by 10 percent or more from prior year
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points** SGP of 1 30
- Note: Each school was given a separate median SGP score for the following student subgroups: Black, Hispanic, Asian, and White, and Special Education. These 5 separate scores were then averaged together to arrive at one master score for this metric. Please note that this analysis was only conducted for Black, Hispanic, White, and Asian subgroups

# Math median SGP – by Subgroup (Hispanic)

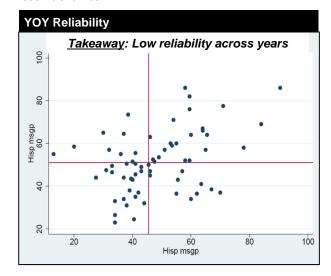
#### **Overall Recommendation: Include**







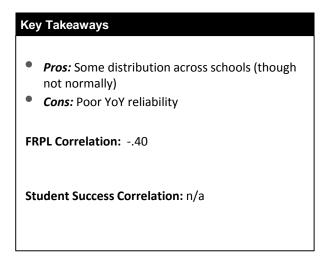


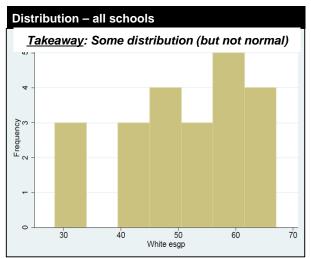


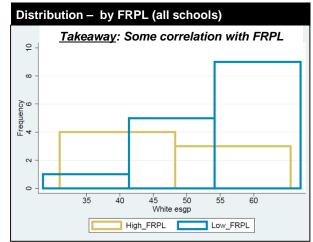
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- 75 points SGP between 51 and 59; or 10-14 median SGP point improvement; or decreased non-proficient percent by 10 percent or more from prior year
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points** SGP of 1 30
- Note: Each school was given a separate median SGP score for the following student subgroups: Black, Hispanic, Asian, and White, and Special Education. These 5 separate scores were then averaged together to arrive at one master score for this metric. Please note that this analysis was only conducted for Black, Hispanic, White, and Asian subgroups

# ELA median SGP – by Subgroup (White)

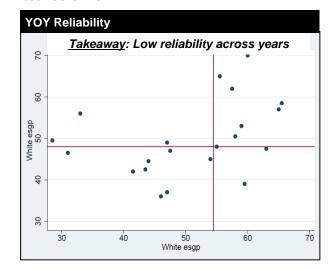
#### **Overall Recommendation: Include**







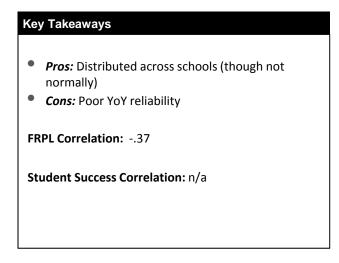


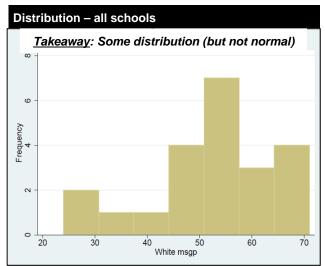


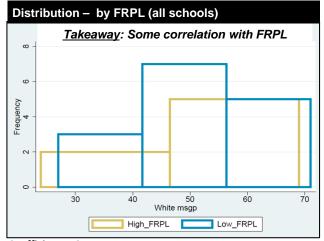
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- 75 points SGP between 51 and 59; or 10-14 median SGP point improvement; or decreased non-proficient percent by 10 percent or more from prior year
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points** SGP of 1 30
- Note: Each school was given a separate median SGP score for the following student subgroups: Black, Hispanic, Asian, and White, and Special Education. These 5 separate scores were then averaged together to arrive at one master score for this metric. Please note that this analysis was only conducted for Black, Hispanic, White, and Asian subgroups

## Math median SGP – by Subgroup (White)

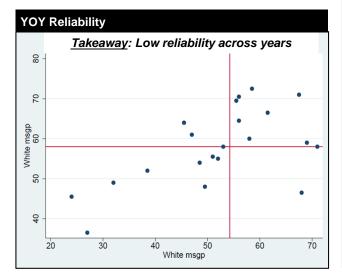
#### **Overall Recommendation: Include**







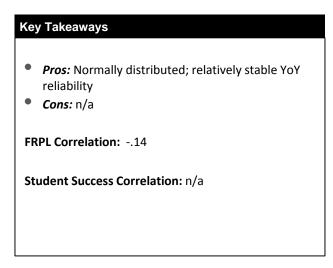
Coefficient: -.37

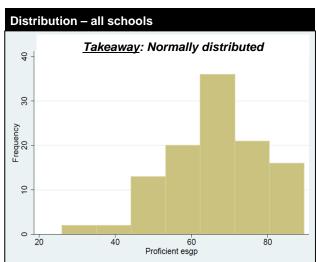


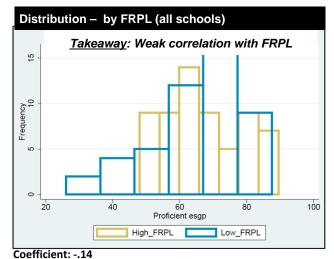
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- 75 points SGP between 51 and 59; or 10-14 median SGP point improvement; or decreased non-proficient percent by 10 percent or more from prior year
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points** SGP of 1 30
- Note: Each school was given a separate median SGP score for the following student subgroups: Black, Hispanic, Asian, and White, and Special Education. These 5 separate scores were then averaged together to arrive at one master score for this metric. Please note that this analysis was only conducted for Black, Hispanic, White, and Asian subgroups

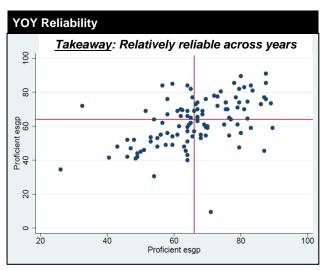
#### Median SGP for students who are Proficient on MCAS - ELA

#### **Overall Recommendation: Include**





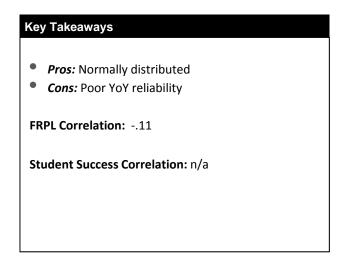


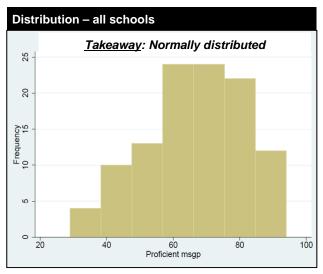


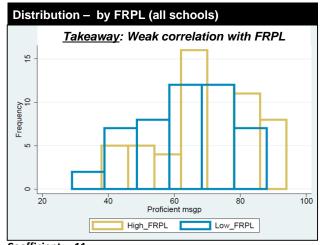
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- 75 points SGP between 51 and 59 or 10-14 median SGP point improvement
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points** SGP of 1 30

#### Median SGP for students who are Proficient on MCAS – Math

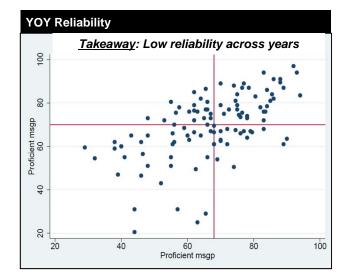
#### **Overall Recommendation: Include**







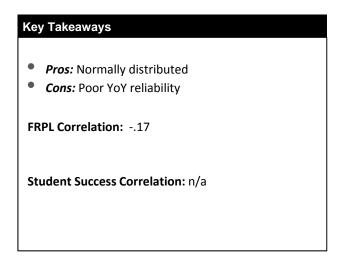


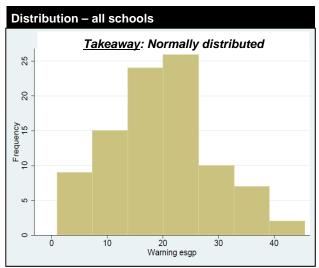


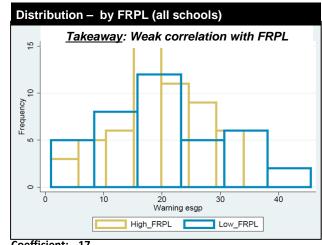
- 100 points SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- 75 points SGP between 51 and 59 or 10-14 median SGP point improvement
- 50 points SGP of 41 –
   50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points –** SGP of 1 30

# Median SGP for students who are Warning/Failing on MCAS - ELA

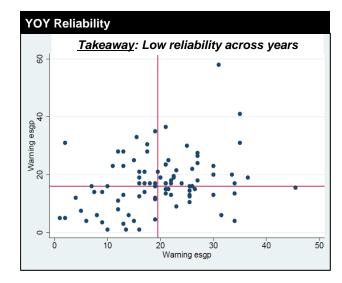
#### **Overall Recommendation: Include**







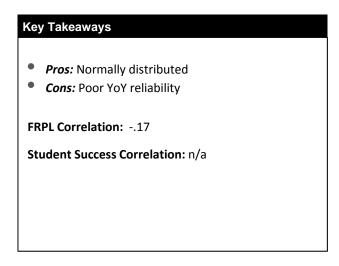


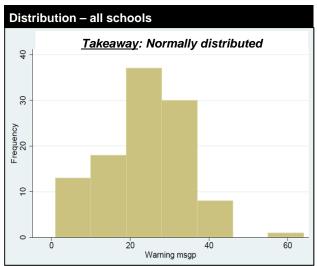


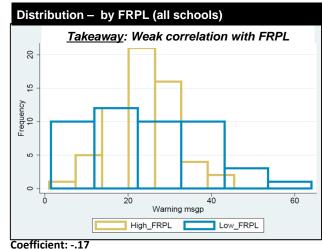
- **100 points** SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- **75 points** SGP between 51 and 59 or 10-14 median SGP point improvement
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points –** SGP of 1 30

# Median SGP for students who are Warning/Failing on MCAS - Math

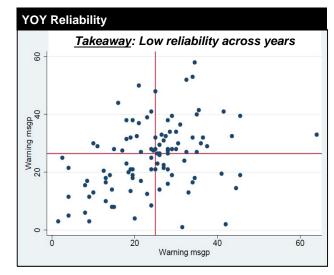
#### **Overall Recommendation: Include**







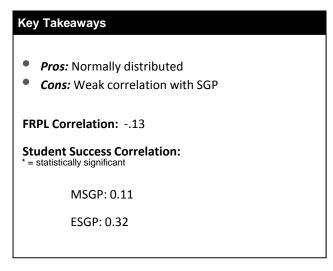


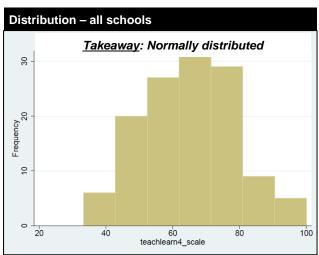


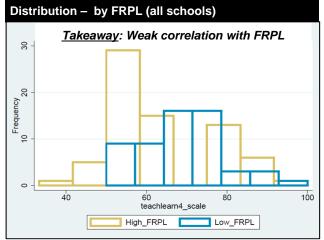
- **100 points** SGP of 60 points or higher; or SGP improvement of 15 or more points from prior year
- **75 points** SGP between 51 and 59 or 10-14 median SGP point improvement
- 50 points SGP of 41 50; or 1-9 point SGP improvement from prior year
- **25 points** SGP of 31 40
- **0 points –** SGP of 1 30

# Climate Survey Outcome: All students are taught by effective, caring and committed teachers

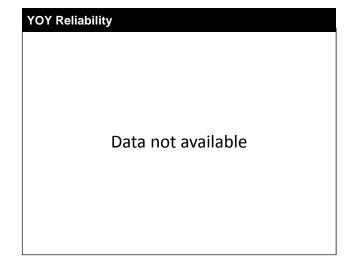
#### **Overall Recommendation: Include**







Coefficient: -.13



#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

- **100 points** .5 or higher
- 75 points Between 0 and .5
- 50 points Between -.5 and 0
- **25 points** -.5 or below
- **O points** School received less than 30 respondents

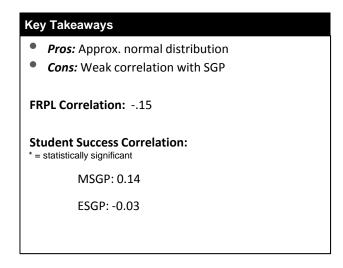
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

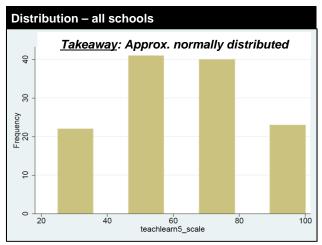
Note: This outcome is measured through three metrics (Student climate survey questions on teacher effectiveness, Teacher climate survey questions on teacher skills and knowledge, Parent climate survey question on teacher commitment to student learning)

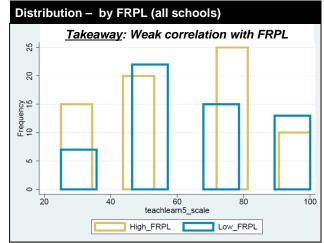
43

# Climate Survey Outcome: The School is led by effective instructional leader(s)

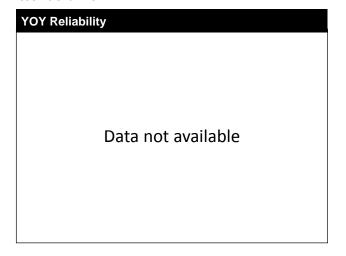
#### **Overall Recommendation: Include**







Coefficient: -.15



#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

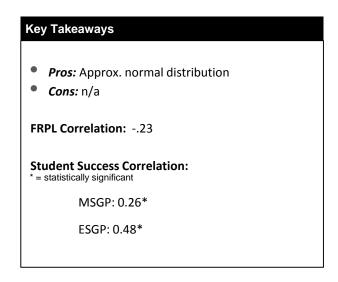
- **100 points** .5 or higher
- **75 points** Between 0 and .5
- 50 points Between -.5 and 0
- **25 points** -.5 or below
- **0 points** School received less than 30 respondents

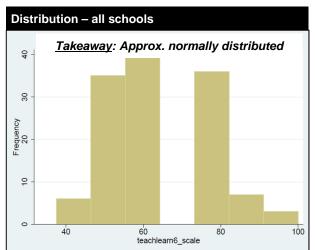
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

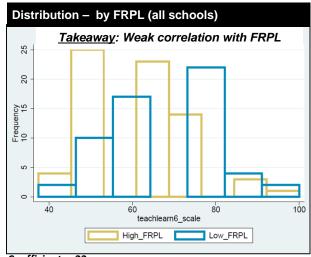
Note: This outcome is measured by the metric "Teacher climate survey questions on school leaders' standards and expectations for teaching"

# Climate Survey Outcome: All Students are exposed to engaging and rigorous curriculum

#### Overall Recommendation: Include

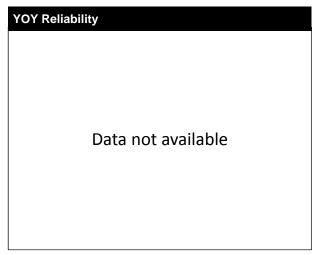






\*Denotes statistical significance





#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

- **100 points** .5 or higher
- **75 points** Between 0 and .5
- 50 points Between -.5 and 0
- **25 points** -.5 or below
- **0 points** School received less than 30 respondents

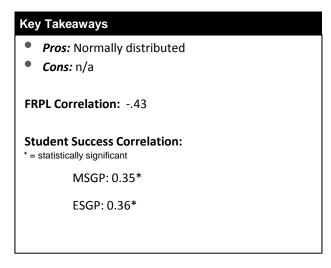
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

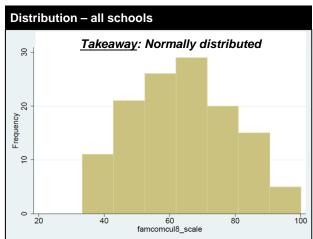
Note: This outcome is measured through three metrics (Percentage of students that felt school prepared them, Student climate survey question on preparation for the next grade or college, Parent climate survey question on preparation for the next grade or college)

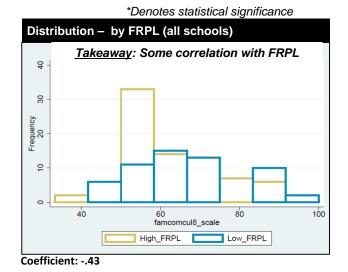
# Family, Community, and Culture

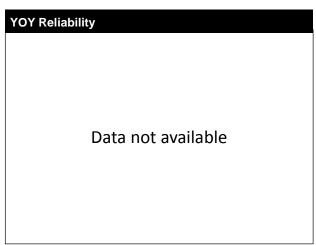
Climate Survey Outcome: The school is safe, well-organized, and conducive to meeting goals

#### **Overall Recommendation: Include**









#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

- **100 points** .5 or higher
- **75 points** Between 0 and .5
- **50 points** Between -.5 and 0
- **25 points** -.5 or below
- **O points** School received less than 30 respondents

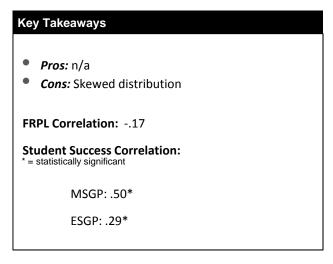
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

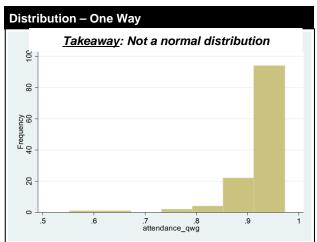
Note: This outcome is measured through three metrics (Student climate survey questions on discipline, consequences, and bullying prevention; Teacher climate survey questions on classroom management and organization; Parent climate survey questions on feelings of safety at school)

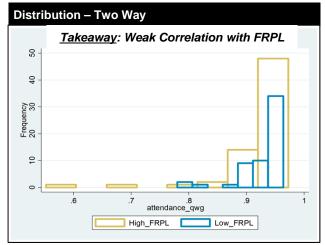
# Family, Community & Culture

# Average daily attendance

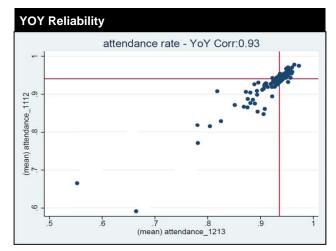
#### **Overall Recommendation: Include**









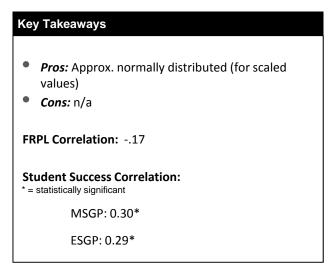


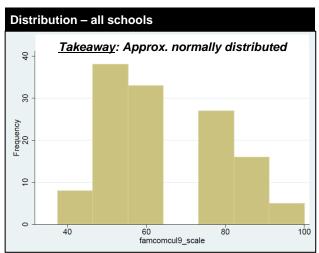
- 100 points greater than 92%
- **75 points** 92%
- 50 points less than 92% and greater than SY 2012-13
- 25 points greater than or equal to SY 2012-13 by 2 percentage points, and less than or equal to SY 2012-13
- **0 points** less than SY 2012-13 by 2 percentage points

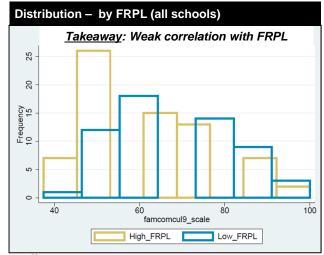
# Family, Community, and Culture

Climate Survey Outcome: All students are engaged and enthusiastic about their classes

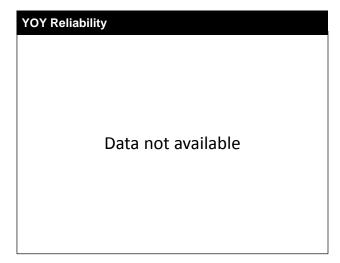
#### **Overall Recommendation: Include**











#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

- **100 points** .5 or higher
- **75 points** Between 0 and .5
- **50 points** Between -.5 and 0
- **25 points** -.5 or below
- **0 points** School received less than 30 respondents

Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

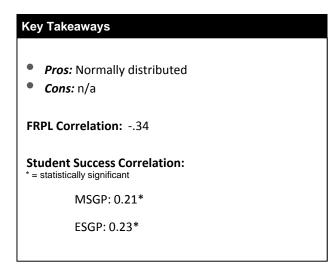
Note: This outcome is measured through two metrics (Student climate survey questions on engagement and enthusiasm for learning; Teacher climate survey questions on student effort)

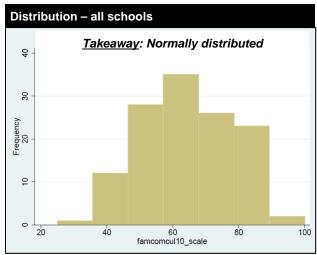
Note: For FRPL distribution, "weakly correlated" is classified as 0 to +/-0.3 (inclusive). "Some correlation" is classified as above 0.3 or below -0.3.

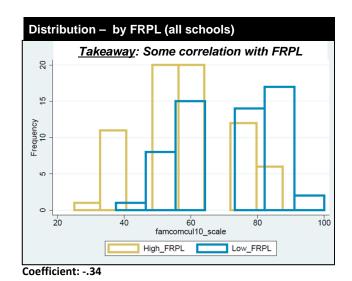
# Family, Community, and Culture

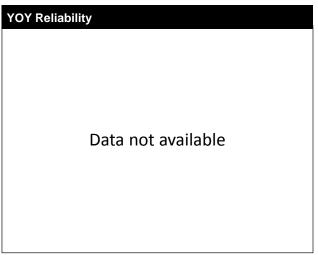
Climate Survey Outcome: Schools ensure all families feel welcomed and are involved

#### **Overall Recommendation: Include**









#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

- **100 points** .5 or higher
- **75 points** Between 0 and .5
- **50 points** Between -.5 and 0
- **25 points** -.5 or below
- **O points** School received less than 30 respondents

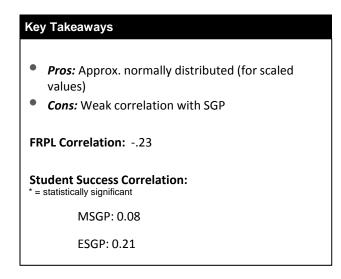
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

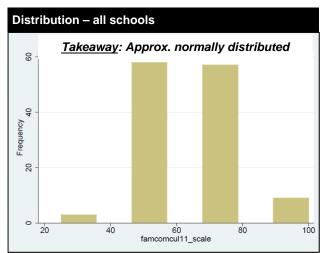
Note: This outcome is measured through two metrics (Teacher climate survey questions on parent engagement in learning; Parent climate survey questions on communication, accessibility, and decision-making)

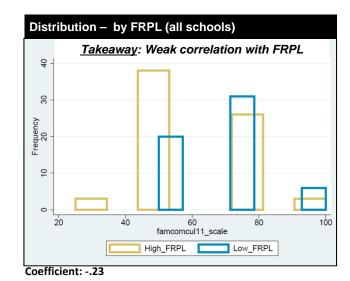
# Family, Community & Culture

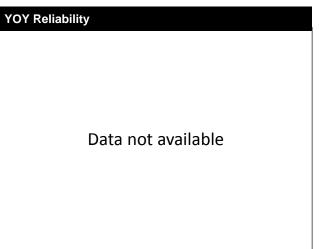
Climate Survey Outcome: The school promotes inclusion of students, families & stakeholders

#### **Overall Recommendation: Include**









#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

- **100 points** .5 or higher
- **75 points** Between 0 and .5
- **50 points** Between -.5 and 0
- **25 points** -.5 or below
- **0 points** School received less than 30 respondents

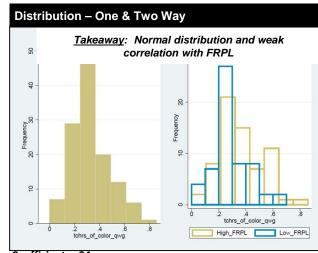
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

Note: This outcome is measured through the metric "Parent climate survey questions on developing thriving, inclusive schools, classrooms, and communities" Note: For FRPL distribution, "weakly correlated" is classified as 0 to +/-0.3 (inclusive). "Some correlation" is classified as above 0.3 or below -0.3.

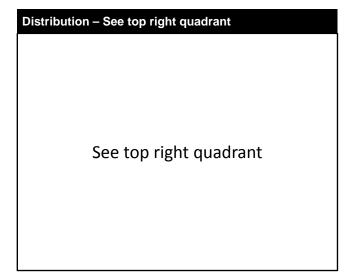
# Family, Community & Culture Percent teachers of color

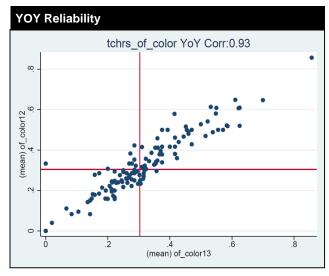
#### **Overall Recommendation: Include**

# Pros: Normally distributed; Strong YoY reliability Cons: n/a FRPL Correlation: -.24 Student Success Correlation: \* = statistically significant MSGP: -0.07 ESGP: -0.10







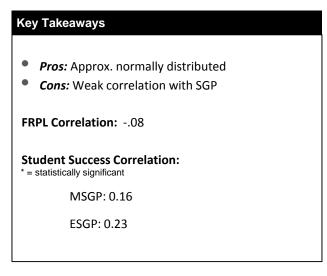


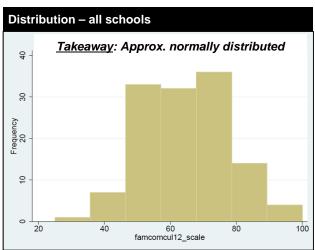
# **Cut-Offs & Methodology Percent of Black Teachers: 100 points** - +26% **75 points** - 25-26% **50 points** - 20 - 25% **25 points** - 15 - 20% **0 points** - less than 15% Percent of other Minority Teachers: • 100 points - +11% **75 points** - 10-11% **50 points** - 7-10% **25 points** - 5-7% **0 points** - less than 5%

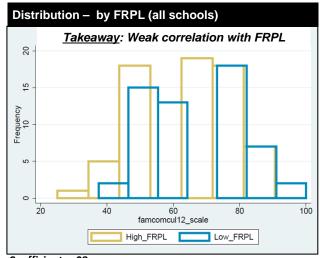
# Family, Community & Culture

# Climate Survey Outcome: School demonstrates a culture of high achievement

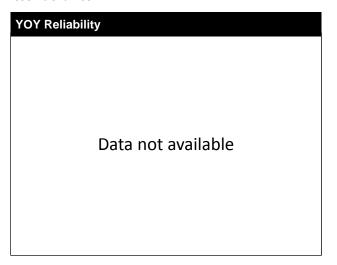
#### **Overall Recommendation: Include**











#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

- 100 points .5 or higher
- 75 points Between 0 and .5
- 50 points Between -.5 and 0
- 25 points -.5 or below
- 0 points School received less than 30 respondents

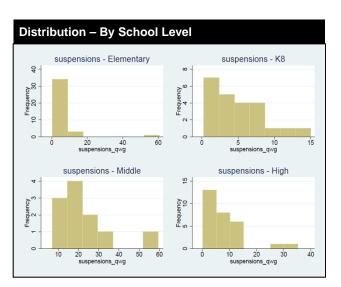
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

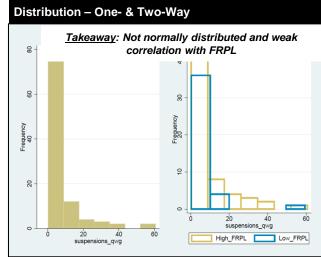
# Family, Community & Culture

Suspension rate (Note: only included **out of school suspensions** for final index)

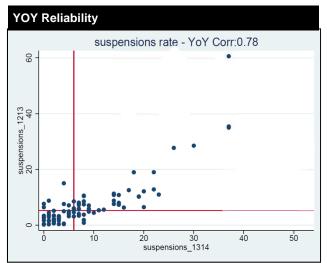
#### Overall Recommendation: Include - suspensions only

#### 









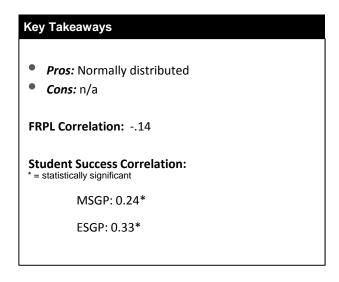
#### **Cut-Offs & Methodology**

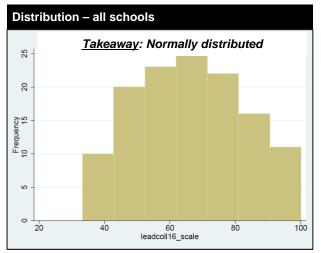
- 100 points 0 percent
- **75 points** less than 3%
- 50 points 3-10%
- **25** points 10-25%
- 0 points 25%+
- Notes: Cut-offs are based on approximate quartiles
- Only includes students in grades 6 through 12
- Suspensions are measured as incidents per 100 students and is not a measure of unique students

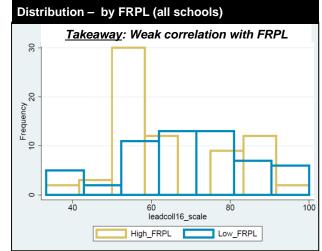
Note: In-school and out of school suspensions are grouped together

Climate Survey Outcome: School leadership sets a school vision that engages the community

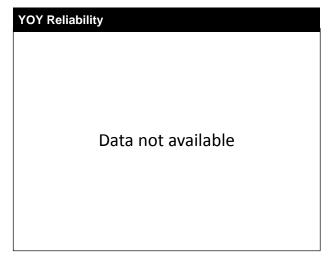
#### **Overall Recommendation: Include**











#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

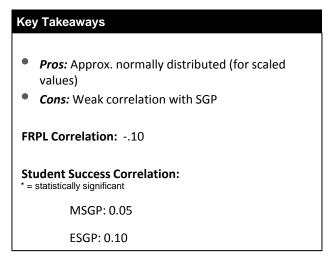
- **100 points** .5 or higher
- **75 points** Between 0 and .5
- **50 points** Between -.5 and 0
- **25 points** -.5 or below
- **0 points** School received less than 30 respondents

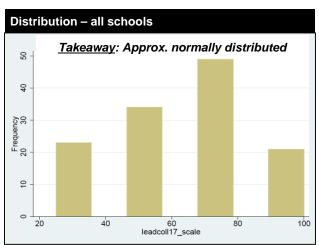
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

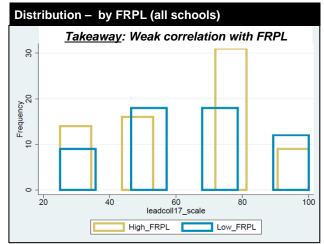
Note: This outcome is measured through three metrics (Student climate survey questions on principal effectiveness and outreach to students; Teacher climate survey questions on staff engagement around school success; Parent climate survey question on principal's relationship with students)

Climate Survey Outcome: School leadership creates a culture of collaboration among all staff

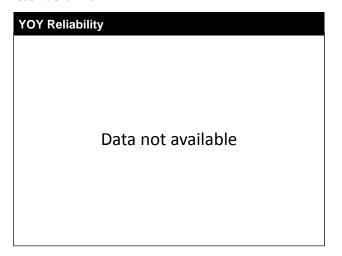
#### **Overall Recommendation: Include**







Coefficient: -.10



#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

- **100 points** .5 or higher
- 75 points Between 0 and .5
- 50 points Between -.5 and 0
- **25 points** -.5 or below
- **0 points** School received less than 30 respondents

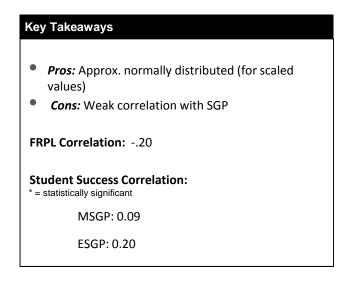
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

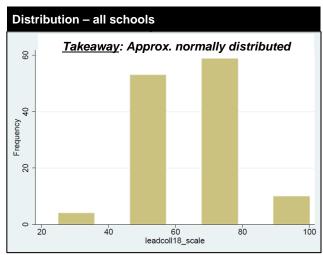
Note: This outcome is measured through the metric "Teacher climate survey questions on staff collaboration"

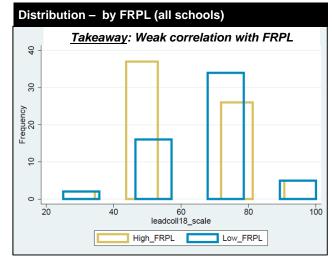
Note: For FRPL distribution, "weakly correlated" is classified as 0 to +/-0.3 (inclusive). "Some correlation" is classified as above 0.3 or below -0.3.

Climate Survey Outcome: School leadership develops clear/effective structures for communication

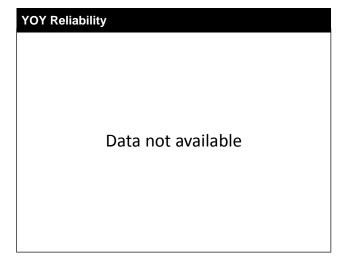
#### **Overall Recommendation: Include**







Coefficient: -.20



#### **Cut-Offs & Methodology**

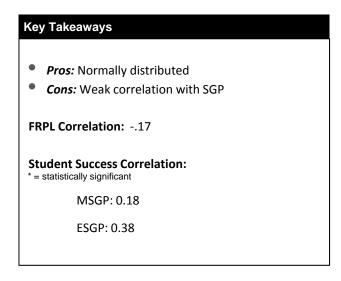
Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

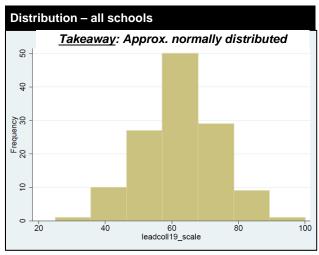
- **100 points** .5 or higher
- 75 points Between 0 and .5
- **50 points** Between -.5 and 0
- **25 points** -.5 or below
- **0 points** School received less than 30 respondents

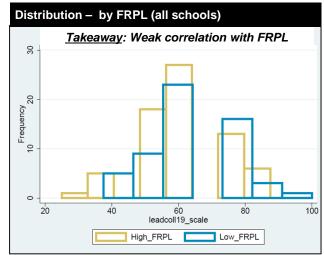
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

# Climate Survey Outcome: School leadership builds partnerships including local stakeholders

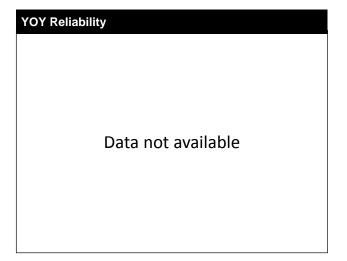
#### **Overall Recommendation: Include**







Coefficient: -.17



#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

- **100 points** .5 or higher
- **75 points** Between 0 and .5
- 50 points Between -.5 and 0
- **25 points** -.5 or below
- **O points** School received less than 30 respondents

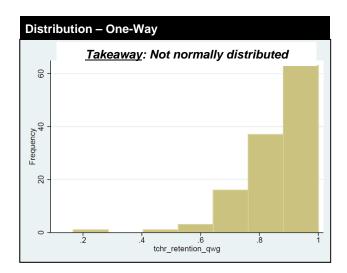
Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

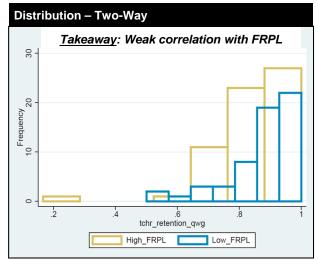
Note: This outcome is measured through two metrics (Student climate survey question on opportunities to participate before and after school; Parent climate survey question on communicate partnerships)

# Teacher retention rate for Proficient and Exemplary teachers

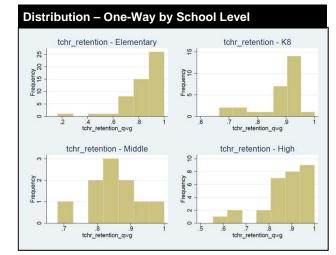
#### **Overall Recommendation: Include**

# Pros: Critical culture-building metric that will become more accurate as teacher evaluations evolve and improve Cons: Skewed distribution FRPL Correlation: -.17 Student Success Correlation: \* = statistically significant MSGP: 0.13 ESGP: -0.06









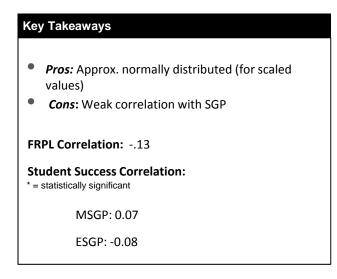


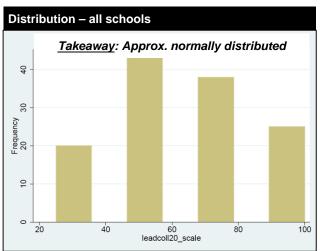
- **100 points** +95% retained
- **75 points** 90-95% retained
- **50 points** 80-90% retained
- **25 points** 50-80% retained
- **0 points** <50% prof/exemplary teachers retained
- Note: Based on approximate quartile data from 2013 to 2014

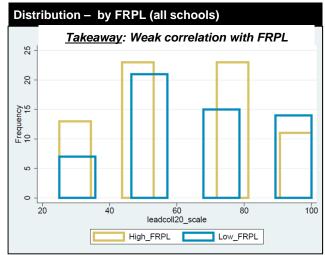
Note: For FRPL distribution, "weakly correlated" is classified as 0 to +/-0.3 (inclusive). "Some correlation" is classified as above 0.3 or below -0.3.

Climate Survey Outcome: School leadership retains and leverages effective teachers

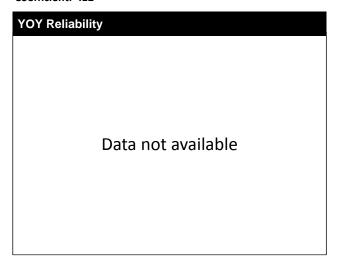
#### **Overall Recommendation: Include**







Coefficient: -.12



#### **Cut-Offs & Methodology**

Each school's average Likert scale scores were compared to the average of all schools in the same level (elementary, middle, high). The decimal points below indicate a school's distance from the mean in either direction.

- **100 points** .5 or higher
- **75 points** Between 0 and .5
- **50 points** Between -.5 and 0
- **25 points** -.5 or below
- **0 points** School received less than 30 respondents

Note: any school that received a 3.5 or higher on the Likert scale received 100 points for that question

Note: This outcome is measured through the metric "Teacher climate survey questions on support, encouragement, and engagement with staff"

#### **Table of Contents**

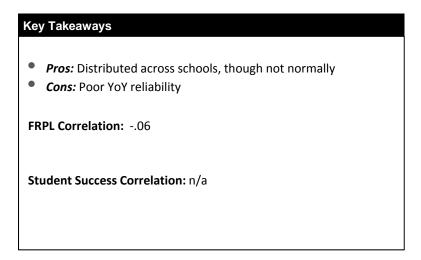
- Executive Summary
- Overview of Framework
- Overall Process and Analysis Methodology
- Summary of Recommended Metrics
- Detailed Analysis *Metrics to Include*

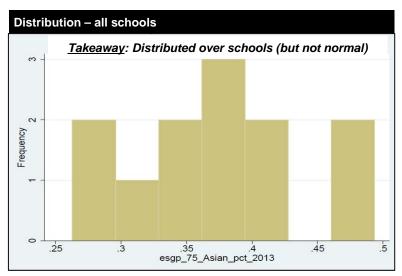


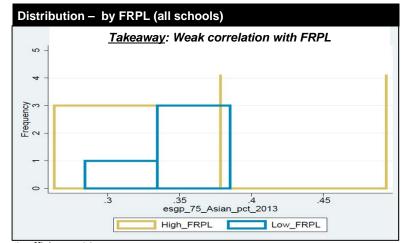
- Detailed Analysis *Metrics to Exclude*
- Appendix

# Percent of students in 75th growth percentile – by subgroup (Asian) for ELA SGP

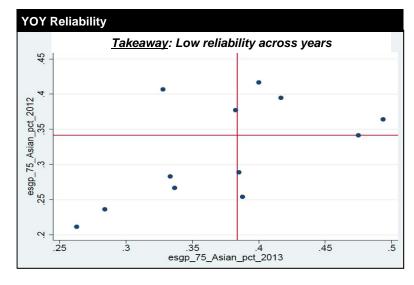
#### Overall Recommendation: Do Not Include





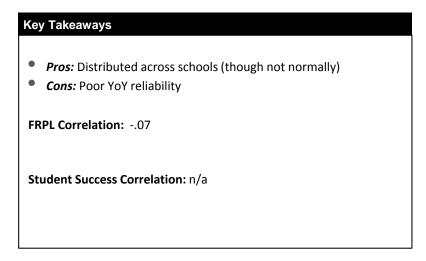


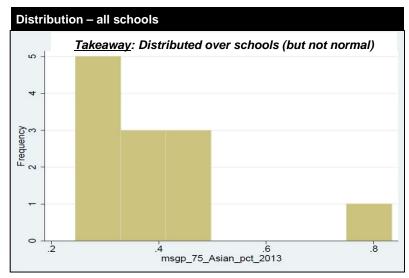
Coefficient: -.06

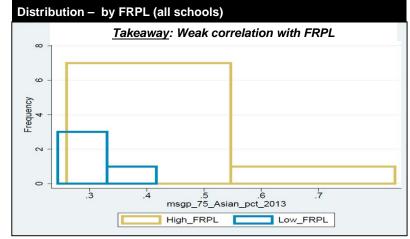


# Percent of students in 75th growth percentile – by subgroup (Asian) for Math SGP

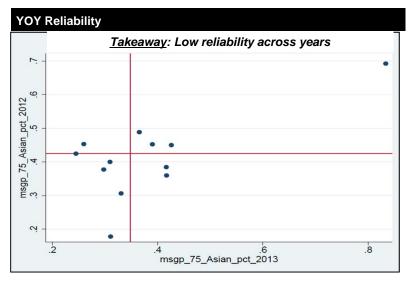
#### **Overall Recommendation: Do Not Include**







Coefficient: -.07

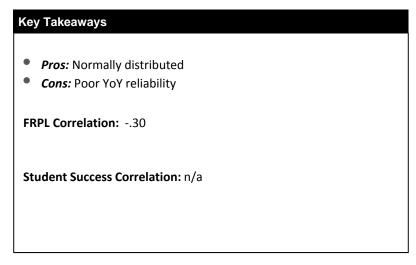


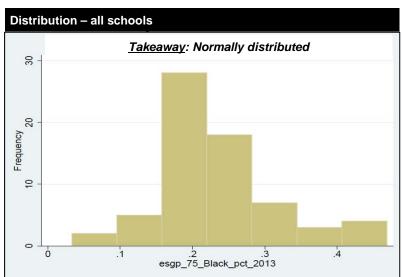
Note: Cut-off guidelines do not apply for metrics that were not included in final index

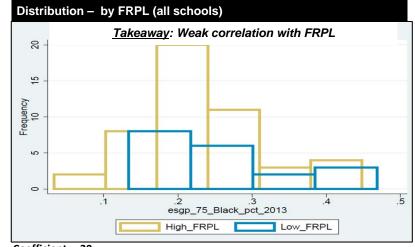
Note: For FRPL distribution, "weakly correlated" is classified as 0 to +/-0.3 (inclusive). "Some correlation" is classified as above 0.3 or below -0.3.

# Percent of students in 75th growth percentile – by subgroup (Black) for ELA SGP

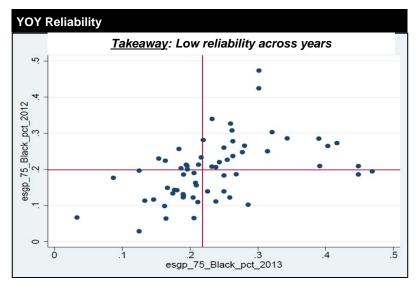
#### **Overall Recommendation: Do Not Include**







Coefficient: -.30

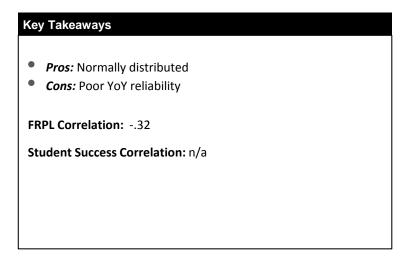


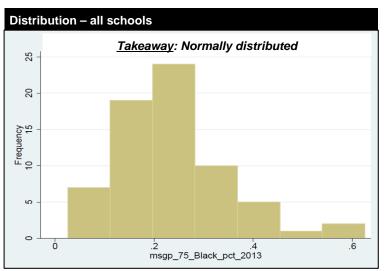
Note: Cut-off guidelines do not apply for metrics that were not included in final index

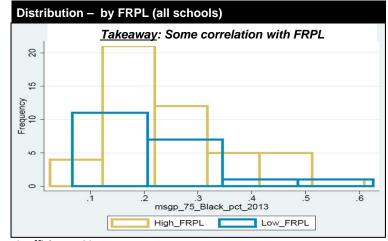
Note: For FRPL distribution, "weakly correlated" is classified as 0 to +/-0.3 (inclusive). "Some correlation" is classified as above 0.3 or below -0.3.

# Percent of students in 75th growth percentile – by subgroup (Black) for Math SGP

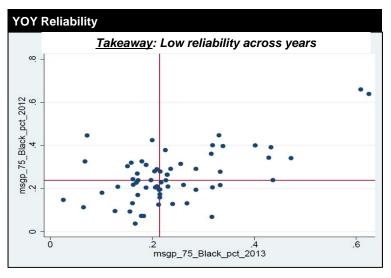
#### **Overall Recommendation: Do Not Include**





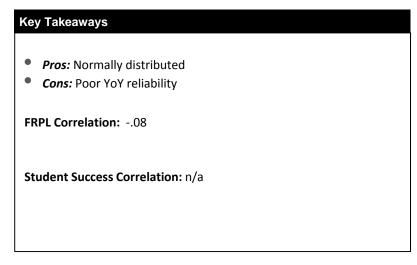


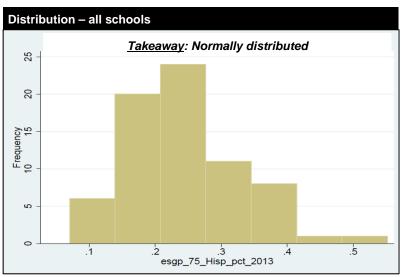
Coefficient: -.32

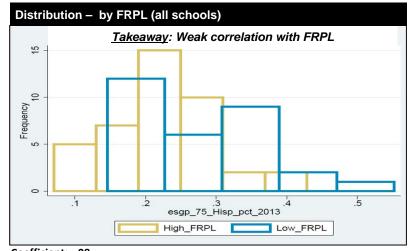


# Percent of students in 75th growth percentile – by subgroup (Hispanic) for ELA SGP

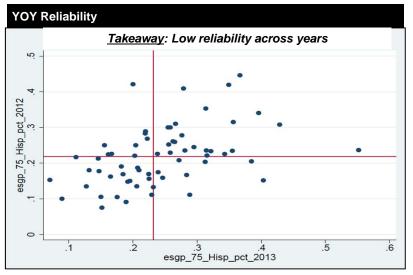
#### **Overall Recommendation: Do Not Include**





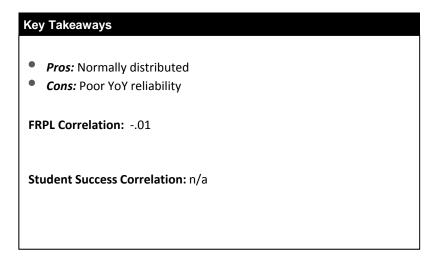


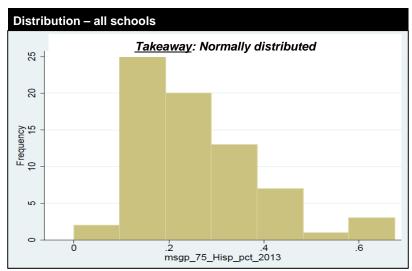
Coefficient: -.08

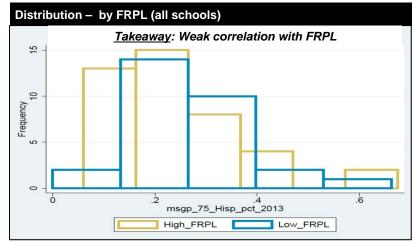


Percent of students in 75th growth percentile – by subgroup (Hispanic) for Math SGP

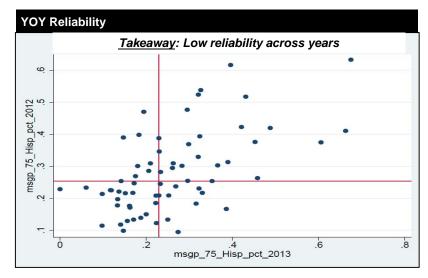
#### **Overall Recommendation: Do Not Include**







Coefficient: -.01

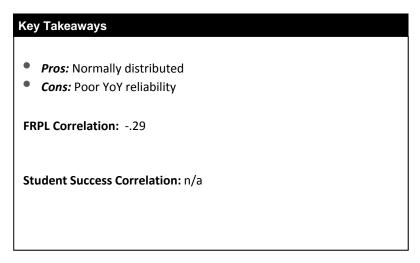


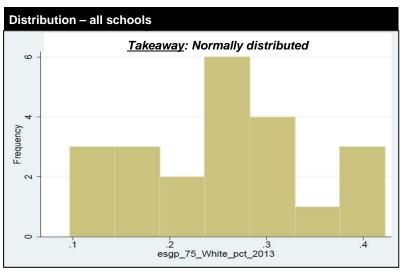
Note: Cut-off guidelines do not apply for metrics that were not included in final index

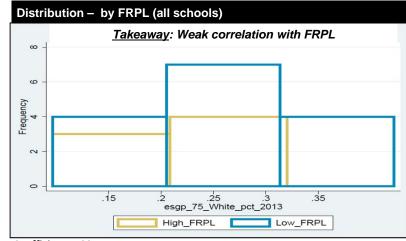
Note: For FRPL distribution, "weakly correlated" is classified as 0 to +/-0.3 (inclusive). "Some correlation" is classified as above 0.3 or below -0.3.

# Percent of students in 75th growth percentile – by subgroup (White) for ELA SGP

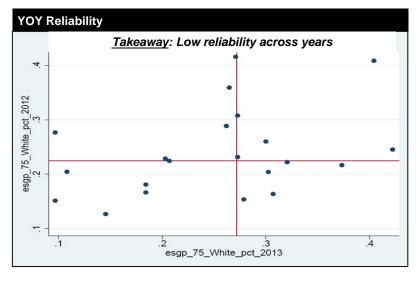
#### **Overall Recommendation: Do Not Include**





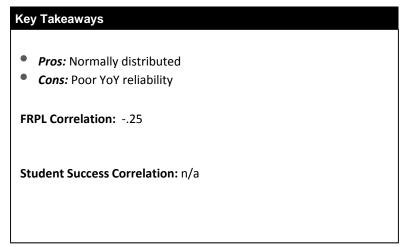


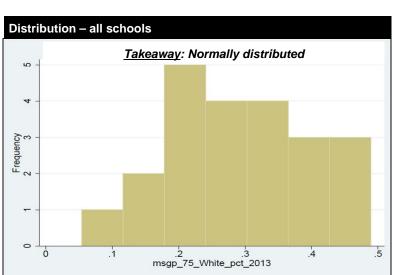
Coefficient: -.29

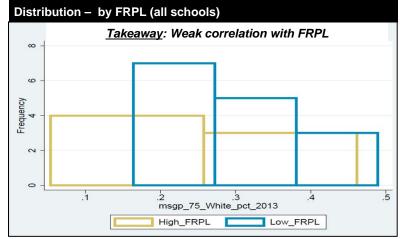


# Percent of students in 75th growth percentile – by subgroup (White) for Math SGP

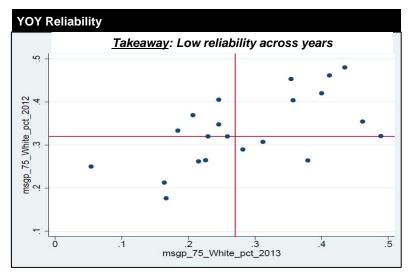
#### **Overall Recommendation: Do Not Include**







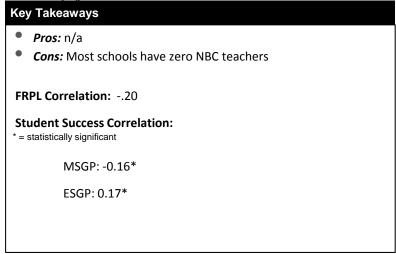
Coefficient: -.25

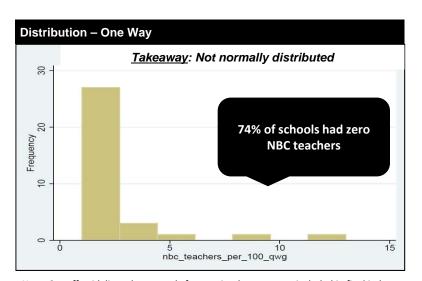


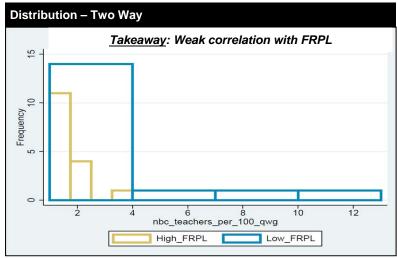
#### Number of national board certified teachers

#### **Overall Recommendation: Do Not Include**

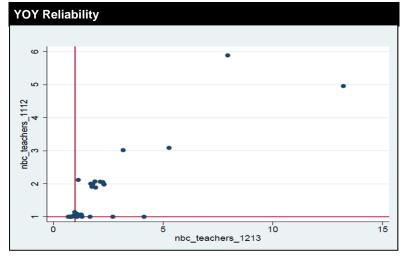
\* = statistically significant





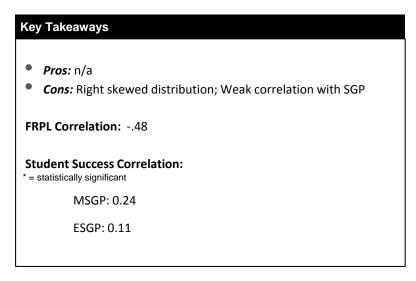


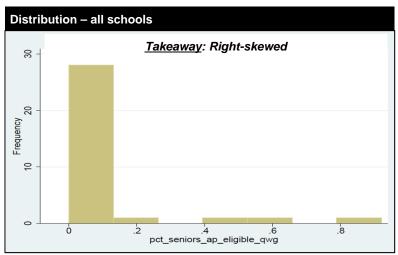
Coefficient: -.20

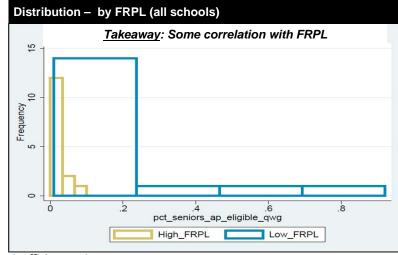


% of eligible students enrolled in AP classes

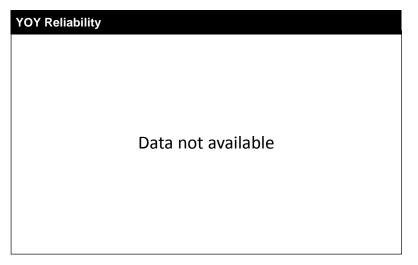
#### **Overall Recommendation: Do Not Include**







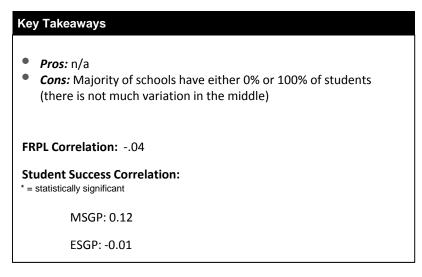
Coefficient: -.48

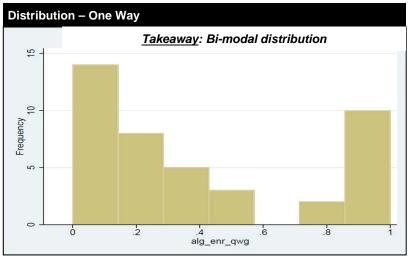


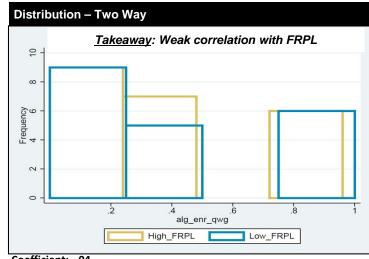
# **Teaching & Learning**

# Percent of 8th grade students enrolled in Algebra I

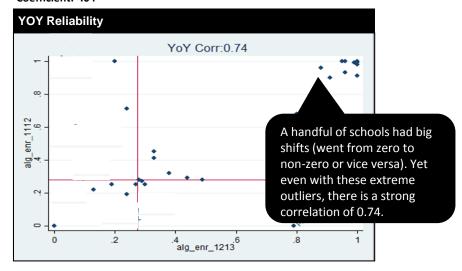
#### **Overall Recommendation: Do Not Include**





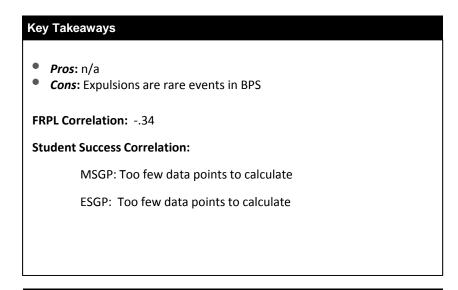


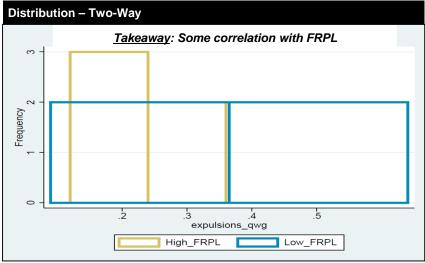
Coefficient: -.04



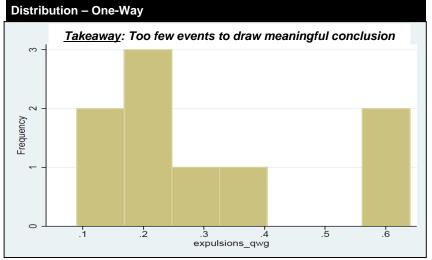
# Family, Community & Culture Expulsion rate

#### Overall Recommendation: Do Not Include - expulsions only





Coefficient: -.34



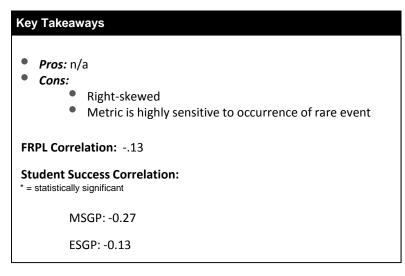
Very few schools have expulsions in multiple years, so there is not enough data to calculate a statistically sound YOY analysis.

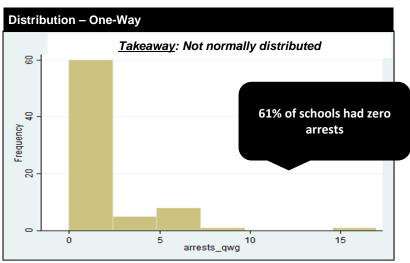
Note: Cut-off guidelines do not apply for metrics that were not included in final index

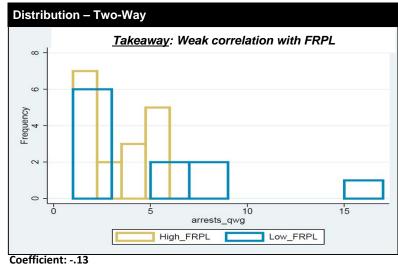
# Family, Community & Culture

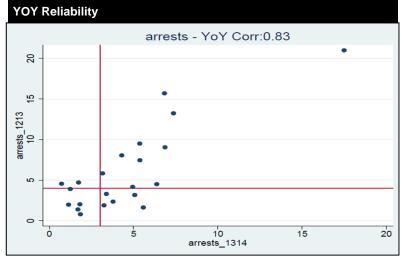
## Number of arrests of students at school

#### Overall Recommendation: Do Not Include







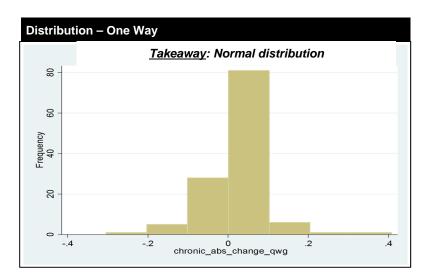


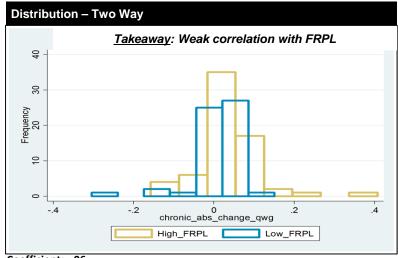
Note: Cut-off guidelines do not apply for metrics that were not included in final index

# Family, Community & Culture Change in chronic absenteeism

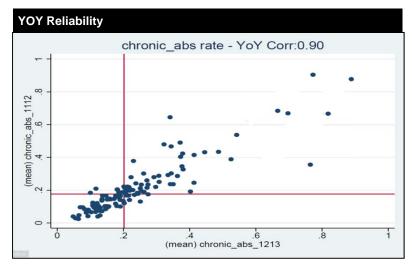
#### **Overall Recommendation: Do Not Include**

# Pros: n/a Cons: Not statistically sound - if a school has low chronic absenteeism it is much more likely to have a negative change (even if small) than a school who starts with high chronic absent. FRPL Correlation: -.06 Student Success Correlation: \* = statistically significant MSGP: 0.08 ESGP: 0.07



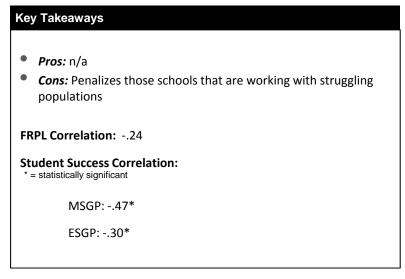


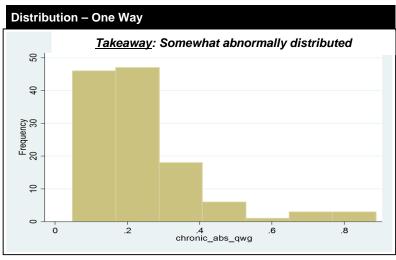
Coefficient: -.06

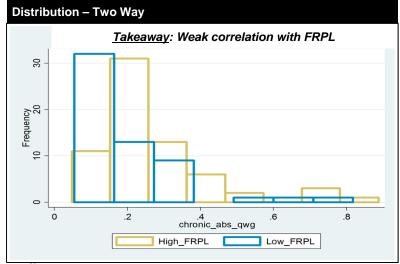


# Family, Community & Culture Chronic absenteeism

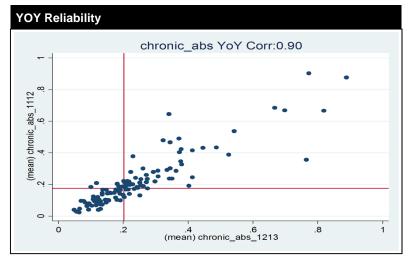
#### **Overall Recommendation: Do Not Include**







Coefficient: -.24

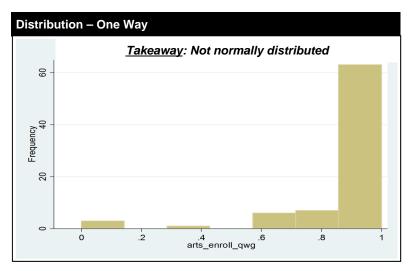


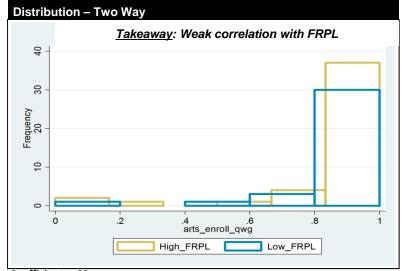
# **Student Access & Opportunities**

# Percent of K-8 students receiving weekly arts instruction

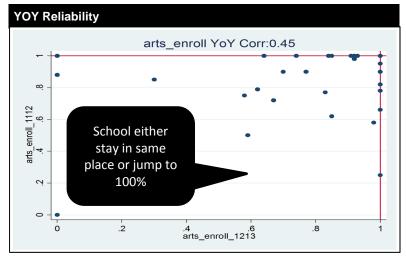
#### **Overall Recommendation: Do Not Include**

## 





Coefficient: -.03

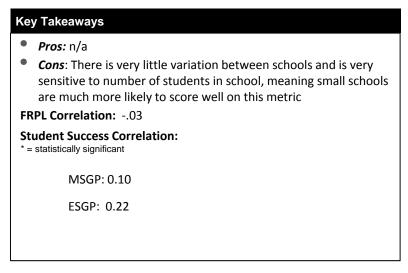


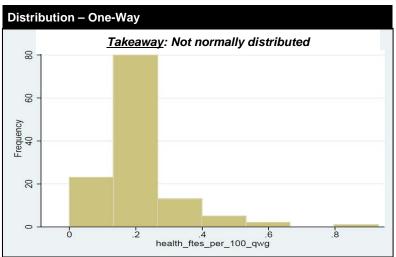
Note: Cut-off guidelines do not apply for metrics that were not included in final index

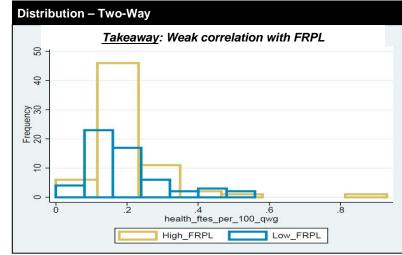
Note: For FRPL distribution, "weakly correlated" is classified as 0 to +/-0.3 (inclusive). "Some correlation" is classified as above 0.3 or below -0.3.

# **Student Access and Opportunities**Number of nurse FTE's per 100 students

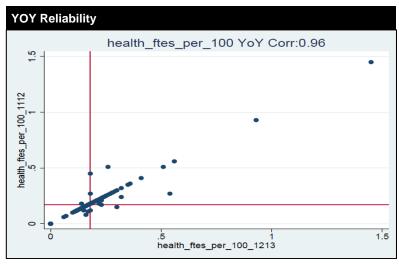
#### **Overall Recommendation: Do Not Include**







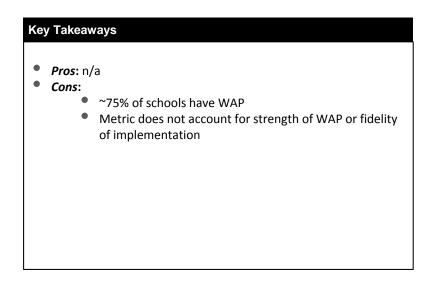
Coefficient: -.03

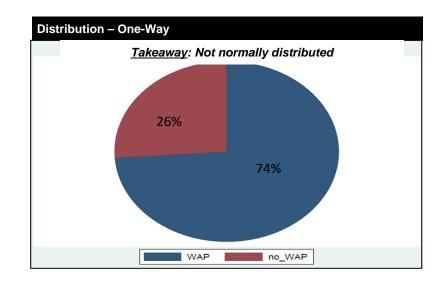


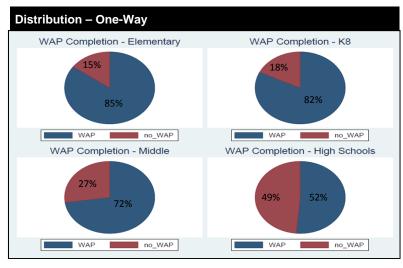
# **Student Access & Opportunities**

# School has a wellness action plan

#### **Overall Recommendation: Do Not Include**







Do not have multiple years worth of data + metric is binary in nature so YOY reliability does not make sense

# Staff attendance — don't currently have data to calculate chronic absenteeism

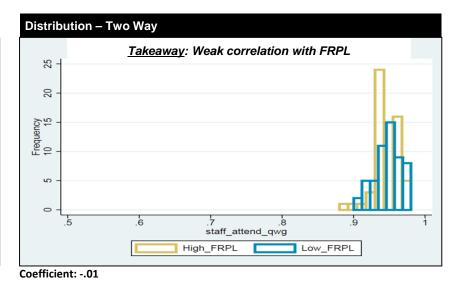
Overall Recommendation: Do Not Include Attendance (consider chronic absenteeism if data is available in future)

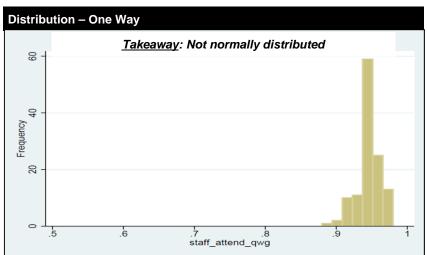
Pros: n/a
 Cons:

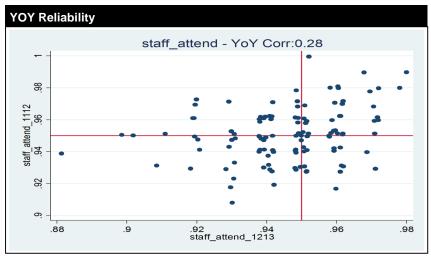
 Very little variation
 Unable to tell if one teacher is absent for long duration or if multiple teachers are frequently absent for short durations

 FRPL Correlation: -.01
 Student Success Correlation:

 \* = statistically significant
 MSGP: -0.16
 ESGP: 0.17







#### **Table of Contents**

- Executive Summary
- Overview of Framework
- Overall Process and Analysis Methodology
- Summary of Recommended Metrics
- Detailed Analysis *Metrics to Include*
- Detailed Analysis *Metrics to Exclude*



# The following metrics were omitted from this year's index, given data availability issues.

#### **Metrics Recommended For Omission Due to Data Issues**

Domain	Outcome	Metric	Rationale
Student Performance	All students show progress in skills critical to school, college, and career success, including critical thinking, peer and adult relationships, and perseverance.	Change in adjusted average PSAT score between 10th and 11th grade	Data not available for this year
		Percent of students enrolled in college not taking remedial courses	Data only available for MA schools (excluding University of MA)
FC&C	8. The school is safe, well-organized, and conducive to meeting educational goals.	Number of trespatory notices issued to parents	Data not available
		Score on MSBA Facilities Condition Index	Data collection method not reliable at this time
Student A&O	13. All students have equal access to high- quality activities that reinforce classroom learning and promote skill building and positive youth development.	% of high school students meeting Mass Core arts requirement	*Data unreliable
		School meets guidelines for PE offerings	Data not available at this time
	14. Students have access to health and social services.	School has a Wellness Council and has completed a wellness action plan	Wellness council data not available Almost 75% of schools have a WAP