

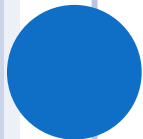


NORWIN SCHOOL DISTRICT

Overview of PVAAS Data

Norwin Board of School Directors

March 14, 2011



WHAT IS PVAAS?

- A value-added system (statistical analysis of PSSA data) that looks at the growth of a cohort of students.
 - Statistical measure that calculates a predicated mean (average) scaled score on the PSSA for a cohort (all grade 11 for example) of students
 - Subtracts the predicted mean scaled score of the cohort with the actual or observed mean scaled score of the cohort
 - Arrives at a growth measure based on this calculation
 - A cohort that has a measure of 0 or higher is said to have made one year's worth of growth.



WHAT DATA DOES PVAAS USE FOR GROWTH CALCULATIONS?

- **Mean Cohort Predictions** are based on two years of PSSA testing data using at least three pieces of PSSA data.
 - The grade 11 predictions are based on data from PSSA in grades 7 and 8.
 - The grade 5 predictions are based on data from PSSA in grades 3 and 4.



WHAT PVAAS IS NOT

- It is not an assessment
- It is not meant to be used to compare schools or groups of students
- It does not measure achievement of students, schools or school districts
- It does not measure whether or not a school was effective



WHY PVAAS CANNOT AND SHOULD NOT BE USED TO RATE SCHOOLS?

- June 2010, PDE identified several schools as “Persistently lowest-achieving” meaning they performed in the bottom 5% statewide
- An example of two of these high schools who made growth in both math and reading are:
 - Brownsville High School (GREEN)
 - Penn Hills High School (GREEN)
- Just because a cohort of students in a school show growth does not mean they are performing well



WHY PVAAS CANNOT AND SHOULD NOT BE USED TO RATE SCHOOLS?

- Likewise, schools who typically perform very well in terms of PSSA scores sometimes don't show as much growth. **RED SCHOOLS**
 - South Fayette High School
 - Pine-Richland High School
 - Franklin Regional High School



PVAAS GROWTH DOES NOT ALWAYS EQUATE TO ACHIEVEMENT

- Schools Deemed Effective in PVAAS or who have “met predicted achievement” are not always high achieving.




A TALE OF TWO SCHOOLS

Allegheny County High School

- Did not make AYP
- PVAAS Yellow: “School was Effective; Met Predicted Achievement”
- Reading PSSA = 60%
(Reading Target was 63%)
- Math PSSA = 47%
(Math Target was 56%)
- Pittsburgh Business Times Ranking = #107

Norwin High School

- Made AYP
 - PVAAS Red: “School was not Effective; Did Not Meet Predicted Achievement”
 - Reading PSSA = 81%
(Reading Target was 63%)
 - Math PSSA = 74%
(Math Target was 56%)
 - Pittsburgh Business Times Ranking = #16
- 

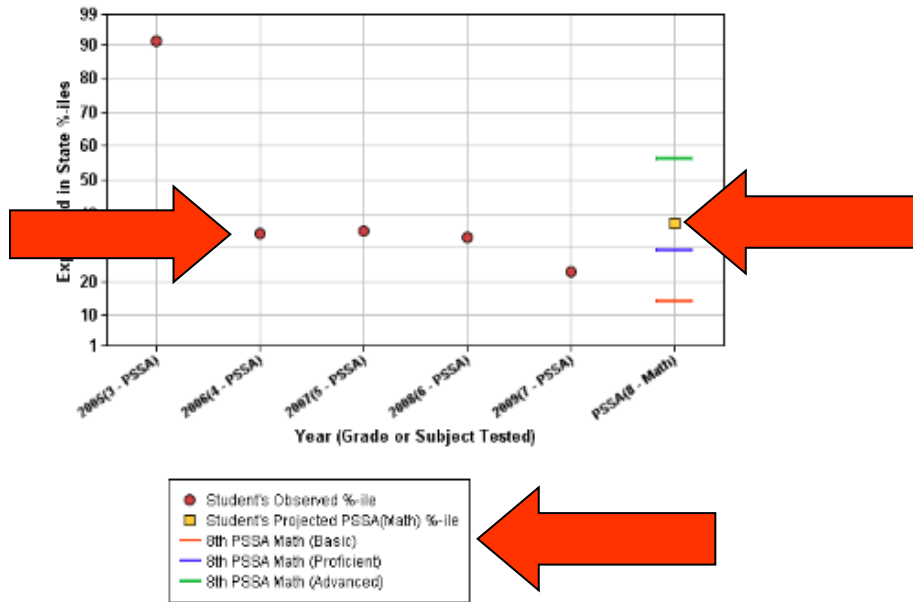
HOW DOES NORWIN USE PVAAS?

- Individual Predictions in Math and Reading
 - We can identify individual students who are not predicted to perform well on the PSSA in math and/or reading and work with them to improve skills.
 - We use this as one piece of data to identify students who might qualify for our tutoring programs.
- Overall Growth Data by Performance Level Category
 - We may use this data to consider curricular and/or instructional decisions.
 - For example, our move to study Understanding by Design was prompted, in part, by looking at the overall growth of students in the advanced categories. We know we have to continue to focus on growing students at all levels.



STUDENT PROJECTION REPORT

8th PSSA Math Projection Report for 2794875981



Projection: 8th PSSA Math			
Projected State Percentile	Probability of Success		
	Basic	Proficient	Advanced
37	96.7%	70.2%	10.2%

Student's Testing History					
	Year (Grade or Subject Tested)				
	PSSA (Math)				
	2005(3)	2006(4)	2007(5)	2008(6)	2009(7)
State NCE \ Score	66	41	43	44	40
%-ile	91	34	35	33	23



PUBLIC SITE: NSD MATH 4-8

PVAAS 2010: District Value Added Summary - Windows Internet Explorer

https://pvaas.sas.com/evaas/Reports/BaseReport.jsf?reportid=79&testid=1&subjectid=1

Windows Live normal curve equivalent

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PVAAS 2010: District Va... Google

Northgate School District	2010	-1.0	-2.9
	3-Yr-Avg	-0.2	-2.1
Northside Urban Pathways Charter School	2010	1.5	0.5
	3-Yr-Avg	2.6	1.5
Northwest Area School District	2010	1.8	-0.1
	3-Yr-Avg	0.4	-1.5
Northwestern Lehigh School District	2010	3.2	1.3
	3-Yr-Avg	2.8	0.9
Northwestern School District	2010	3.5	1.6
	3-Yr-Avg	2.0	0.1
Norwin School District	2010	3.4	1.5
	3-Yr-Avg	3.5	1.6
Octorara Area School District	2010	3.2	1.3
	3-Yr-Avg	4.0	2.1
Oil City Area School District	2010	1.9	0.0
	3-Yr-Avg	3.9	2.0
Old Forge School District	2010	-0.1	-2.0
	3-Yr-Avg	1.1	-0.8
Oley Valley School District	2010	5.2	3.3
	3-Yr-Avg	3.1	1.2
Oswayo Valley School District	2010	5.8	3.9
	3-Yr-Avg	3.4	1.5
Otto-Eldred School District	2010	2.6	0.7
	3-Yr-Avg	2.4	0.5
Owen J Roberts School District	2010	2.5	0.6
	3-Yr-Avg	2.6	0.7
	2010	2.1	0.2

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PUBLIC SITE: NSD READING 4-8

PVAAS 2010: District Value Added Summary - Windows Internet Explorer

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Windows Live normal curve equivalent

Search: PVAAS 2010: District Va... Google

School District	Year	3-Yr-Avg	2010
Northern York County School District	2010	1.0	-0.5
Northern York County School District	2010	-1.0	-2.4
	3-Yr-Avg	1.1	-0.4
Northgate School District	2010	-0.3	-1.7
	3-Yr-Avg	0.9	-0.6
Northside Urban Pathways Charter School	2010	1.8	0.3
	3-Yr-Avg	4.3	2.8
Northwest Area School District	2010	-0.2	-1.6
	3-Yr-Avg	-0.6	-2.0
Northwestern Lehigh School District	2010	0.4	-1.1
	3-Yr-Avg	1.7	0.3
Northwestern School District	2010	2.1	0.6
	3-Yr-Avg	2.1	0.6
Norwin School District	2010	0.7	-0.7
	3-Yr-Avg	1.5	0.1
Octorara Area School District	2010	0.4	-1.0
	3-Yr-Avg	1.2	-0.2
Oil City Area School District	2010	1.0	-0.5
	3-Yr-Avg	1.3	-0.2
Old Forge School District	2010	0.2	-1.3
	3-Yr-Avg	1.1	-0.3
Oley Valley School District	2010	-1.6	-3.0
	3-Yr-Avg	1.1	-0.3
Oswayo Valley School District	2010	1.8	0.4
	3-Yr-Avg	3.1	1.7
Otto-Eldred School District	2010	2.4	1.0
	3-Yr-Avg	2.6	1.2

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PUBLIC SITE

HILLCREST MATH GROWTH INDEX

PVAAS 2010: School Search Report Results - Windows Internet Explorer

https://pvaas.sas.com/evaas/Reports/SchoolSearchCompareResults.jsf?reportid=44®ionid=1&districtid=369&zoneid=1&schoolid=5477

normal curve equivalent

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Favorites | PVAAS 2010: School Se... | Google

more evidence that more than a year's worth of growth was experienced by the average student in this school.
 AGI < 0 = The average achieving student in this school achieved less than a year's worth of academic growth in a year. A smaller AGI provides more evidence that less than a year's worth of growth was experienced by the average student in this school.

School	District	PSSA Test(s)	Average Growth Index
Selected School			
Hillcrest Intermediate School	Norwin School District	5-6	9.7
Matching Schools (found: 57)			
Norvelt Elementary School	Mount Pleasant Area School District	3-6	10.4
Hillcrest Intermediate School	Norwin School District	5-6	9.7
Rostraver Middle School	Belle Vernon Area School District	6-8	9.6
Penn Middle School	Penn-Trafford School District	6-8	9.4
Yough Intrmd/MS School	Yough School District	5-8	8.8
Franklin Regional Middle School	Franklin Regional School District	6-8	8.1
Bellmar Middle School	Belle Vernon Area School District	6-8	8.1
Southmoreland Middle School	Southmoreland School District	6-8	7.8
Ligonier Valley Middle School	Ligonier Valley School District	5-8	7.8
Latrobe Elementary School	Greater Latrobe School District	3-6	7.6
Greensburg-Salem Middle School	Greensburg Salem School District	6-8	5.5
Wendover Middle School	Hempfield Area School District	6-8	5.0
Harrod Middle School	Hempfield Area School District	6-8	4.9
Laurel Point Elementary School	Kiski Area School District	3-6	4.5
Fort Allen Elementary School	Hempfield Area School District	3-5	4.4
Mamont Elementary School	Kiski Area School District	3-6	4.4
Stanwood Elementary School	Hempfield Area School District	3-5	4.3
Baggaley Elementary School	Greater Latrobe School District	3-6	4.3
Washington Elementary School	Kiski Area School District	3-6	4.1
Allentown-Hide Park Elementary School	Kiski Area School District	3-6	3.7

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HILLCREST READING GROWTH INDEX

PVAAS 2010: School Search Report Results - Windows Internet Explorer

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Harrison Park Elementary School	Penn-Trafford School District	3-5	-1.5
Rostraver Elementary School	Belle Vernon Area School District	3-5	-1.6
West Hempfield Elementary School	Hempfield Area School District	3-5	-1.6
Franklin Regional Middle School	Franklin Regional School District	6-8	-1.7
Maxwell Elementary School	Hempfield Area School District	3-5	-1.8
Nicely Elementary School	Greensburg Salem School District	3-5	-1.8
Charles A Huston Middle School	Burrell School District	6-8	-2.0
Newlonsburg Elementary School	Franklin Regional School District	3-5	-2.2
Sunrise Elementary School	Penn-Trafford School District	3-5	-2.2
Stewart Elementary School	Burrell School District	3-5	-2.3
Derry Area Middle School	Derry Area School District	6-8	-2.4
Heritage Elementary School	Franklin Regional School District	3-5	-2.6
Trafford Elementary School	Penn-Trafford School District	3-5	-2.8
Bon Air Elementary School	Burrell School District	3-5	-2.9
Harold Middle School	Hempfield Area School District	6-8	-3.0
Fort Allen Elementary School	Hempfield Area School District	3-5	-3.0
McCullough Elementary School	Penn-Trafford School District	3-5	-3.1
Laurel Valley Elementary School	Ligonier Valley School District	3-5	-3.1
Greensburg-Salem Middle School	Greensburg Salem School District	6-8	-3.5
Jeannette McKee Elementary School	Jeannette City School District	3-5	-3.6
Hillcrest Intermediate School	Norwin School District	5-6	-3.6
Grandview Elementary School	Derry Area School District	3-5	-5.0
Berkey School	New Kensington-Arnold School District	4-5	-6.2
Amos K Hutchinson Elementary School	Greensburg Salem School District	3-5	-9.0

Note: PVAAS growth results should be used together with PSSA achievement results to get a more complete view of a district/school and

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PUBLIC SITE: GROWTH STANDARD NORWIN SCHOOL DISTRICT MATH 5-8

PVAAS 2010: School Value Added Summary - Windows Internet Explorer

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


Favorites PVAAS 2010: School Value Added Summary

Note: The Average Gain over Grades, grades 4-8, is expressed in Normal Curve Equivalent (NCE) units. The use of NCEs allows PSSA scores in any school year and grade level to be compared across years. The School Effect on the reporting for Math and Reading, 9-11, is expressed in PSSA scaled score points.

[Click here for the Report Legend](#)

School Name		Average Gain over Grades (Math, Grades 4-8) Relative to	
		Growth Standard	State
Hillcrest Intermediate School	2010	3.6	1.4
	3-Yr-Avg	4.6	2.5
Norwin Middle School	2010	3.1	2.0
	3-Yr-Avg	1.7	0.6

Note: PVAAS growth results should be used together with PSSA achievement results to get a more complete view of a school and to ensure the amount of growth is resulting in the targeted achievement levels.

	Green (G) - Favorable Indicator - School was effective in supporting students to achieve one year's worth of academic growth in a year.
	Yellow (Y) - Caution - Minimal evidence that the school was not effective in supporting students to achieve one year's worth of academic growth in a year.
	Rose (R) - Concern - Moderate evidence that the school was not effective in supporting students to achieve one year's worth of academic growth in a year.
	Red (R*) - Strong Concern - Significant evidence that the school was not effective in supporting students to achieve one year's worth of academic growth in a year.
--	The school does not have data for this test and subject in the most recent year.

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PUBLIC SITE: GROWTH STANDARD

NORWIN SCHOOL DISTRICT READING 5-8

PVAAS 2010: School Value Added Summary - Windows Internet Explorer

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

PVAAS 2010: School Value Added Summary

Note: The Average Gain over Grades, grades 4-8, is expressed in Normal Curve Equivalent (NCE) units. The use of NCEs allows PSSA scores in any school year and grade level to be compared across years. The School Effect on the reporting for Math and Reading, 9-11, is expressed in PSSA scaled score points.

[Click here for the Report Legend](#)

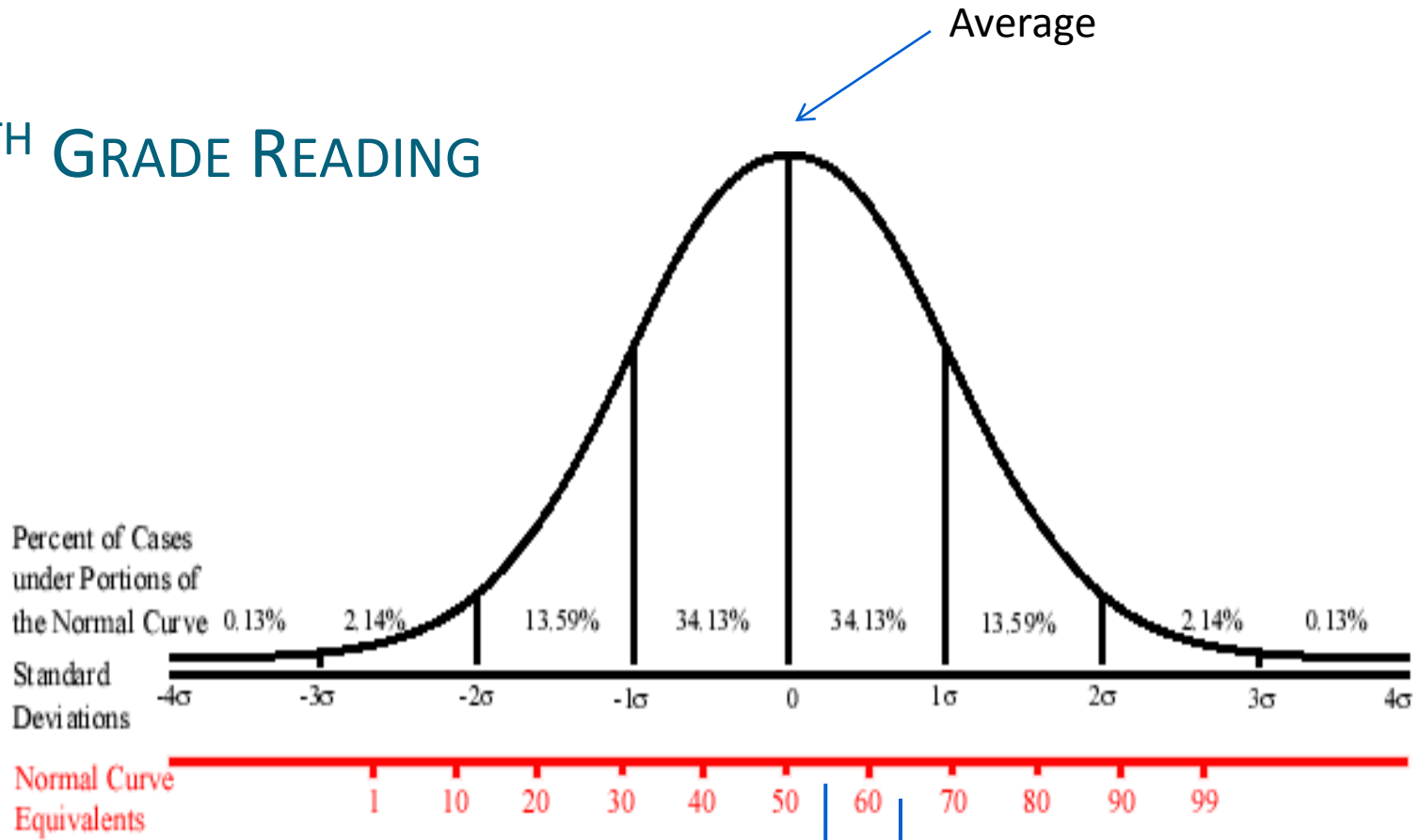
School Name		Average Gain over Grades (Reading, Grades 4-8) Relative to	
		Growth Standard	State
Hillcrest Intermediate School	2010	-1.7	-2.7
	3-Yr-Avg	0.2	-0.7
Norwin Middle School	2010	1.2	-0.4
	3-Yr-Avg	1.5	-0.0

Note: PVAAS growth results should be used together with PSSA achievement results to get a more complete view of a school and to ensure the amount of growth is resulting in the targeted achievement levels.

	Green (G) - Favorable Indicator - School was effective in supporting students to achieve one year's worth of academic growth in a year.
	Yellow (Y) - Caution - Minimal evidence that the school was not effective in supporting students to achieve one year's worth of academic growth in a year.
	Rose (R) - Concern - Moderate evidence that the school was not effective in supporting students to achieve one year's worth of academic growth in a year.
	Red (R*) - Strong Concern - Significant evidence that the school was not effective in supporting students to achieve one year's worth of academic growth in a year.
-	The school does not have data for this test and subject in the most recent year.

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5TH GRADE READING



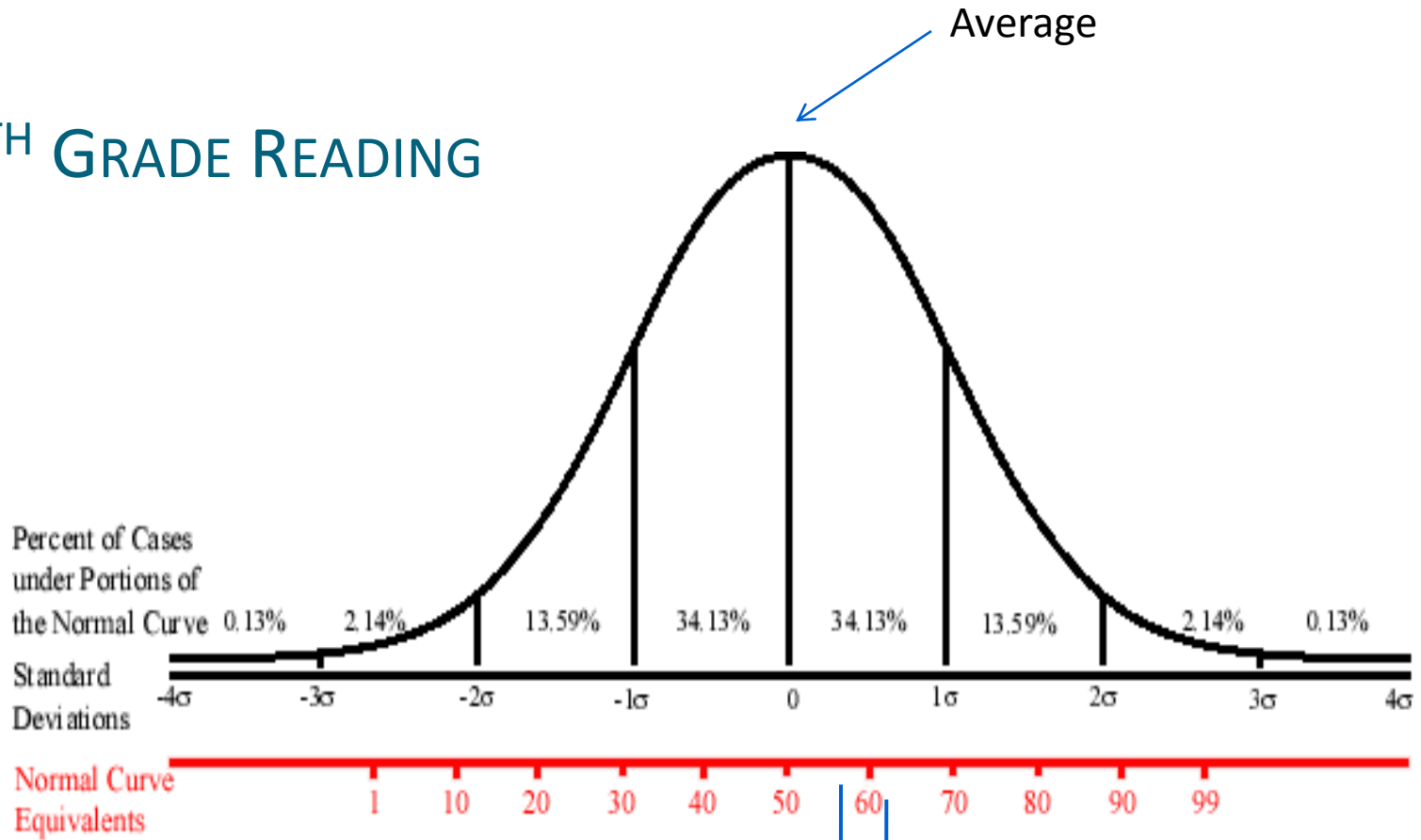
Although NCE scores dropped slightly from 4th to 5th grade, the 5th grade NCE is above average.

5th grade
NCE 54.5

4th grade
NCE 62.7



6TH GRADE READING



NCE scores rose from 5th to 6th grade.

5th grade NCE 56.2

6th grade NCE 60.9



HILLCREST READING

- The observed mean scaled score of the 5th grade cohort was **1393** (This falls in the **High Proficient** Performance Level range: 1275-1496).
 - So, even though it appears Hillcrest as a whole is not making growth, the 5th grade cohort average was at the **High Proficient Level**.
- The observed mean scaled score of the 6th grade cohort was **1462** (This falls in the **Advanced Performance** Level range: 1456 and +).
 - So, even though it appears Hillcrest as a whole is not making growth, the 6th grade cohort average was at the **Advanced Level**.



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NORWIN MIDDLE SCHOOL MATH 7-8

PVAAS 2010 - Windows Internet Explorer

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normal curve equivalent

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Favorites PVAAS 2010 Google

Selected School			
Norwin Middle School	Norwin School District	7-8	8.1
Matching Schools (found: 22)			
Rostraver Middle School	Belle Vernon Area School District	6-8	9.6
Penn Middle School	Penn-Trafford School District	6-8	9.4
Yough Intemd/MS School	Yough School District	5-8	8.8
Franklin Regional Middle School	Franklin Regional School District	6-8	8.1
Norwin Middle School	Norwin School District	7-8	8.1
Bellmar Middle School	Belle Vernon Area School District	6-8	8.1
Southmoreland Middle School	Southmoreland School District	6-8	7.8
Ligonier Valley Middle School	Ligonier Valley School District	5-8	7.8
Laurel Valley Middle School/High School	Ligonier Valley School District	7-11	6.9
Kiski Area IHS	Kiski Area School District	7-8	6.7
Greensburg-Salem Middle School	Greensburg Salem School District	6-8	5.5
Wendover Middle School	Hempfield Area School District	6-8	5.0
Harold Middle School	Hempfield Area School District	6-8	4.9
Charles A Huston Middle School	Burrell School District	6-8	2.2
Monessen Middle School	Monessen City School District	6-8	1.6
Trafford Middle School	Penn-Trafford School District	6-8	0.5
Jeannette McKee Middle School	Jeannette City School District	6-8	-0.2
Derry Area Middle School	Derry Area School District	6-8	-0.3
West Hempfield Middle School	Hempfield Area School District	6-8	-2.2
Valley Middle School	New Kensington-Arnold School District	6-8	-2.8
Greater Latrobe Junior High School	Greater Latrobe School District	7-8	-3.8
Mount Pleasant Area Junior High School	Mount Pleasant Area School District	7-8	-5.3

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NORWIN MIDDLE SCHOOL READING 7-8

PVAAS 2010: School Search Report Results - Windows Internet Explorer

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Selected School			
Norwin Middle School	Norwin School District	7-8	2.5
Matching Schools (found: 22)			
Rostraver Middle School	Belle Vernon Area School District	6-8	6.4
Valley Middle School	New Kensington-Arnold School District	6-8	3.8
Southmoreland Middle School	Southmoreland School District	6-8	3.4
Penn Middle School	Penn-Trafford School District	6-8	3.3
Belle Vernon Middle School	Belle Vernon Area School District	6-8	3.1
Jeannette McKee Middle School	Jeannette City School District	6-8	2.9
Norwin Middle School	Norwin School District	7-8	2.5
Wendover Middle School	Hempfield Area School District	6-8	1.3
Ligonier Valley Middle School	Ligonier Valley School District	6-8	0.9
Laurel Valley Middle School/High School	Ligonier Valley School District	7-11	-0.2
Mount Pleasant Area Junior High School	Mount Pleasant Area School District	7-8	-0.6
Monessen Middle School	Monessen City School District	6-8	-0.6
West Hempfield Middle School	Hempfield Area School District	6-8	-0.7
Kiski Area IHS	Kiski Area School District	7-8	-0.8
Trafford Middle School	Penn-Trafford School District	6-8	-0.9
Yough Intrmd/MS School	Yough School District	5-8	-1.4
Franklin Regional Middle School	Franklin Regional School District	6-8	-1.7
Charles A Huston Middle School	Burrell School District	6-8	-2.0
Derry Area Middle School	Derry Area School District	6-8	-2.4
Harrold Middle School	Hempfield Area School District	6-8	-3.0
Greensburg-Salem Middle School	Greensburg Salem School District	6-8	-3.5
Greater Latrobe Junior High School	Greater Latrobe School District	7-8	-3.9

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2010 School Value Added Summary

Norwin School District

School Effect (PSSA Math, Grades 9-11)

This report provides an indicator of the effectiveness of the school in making academic progress with students. Achievement results (PSSA) and growth results (PVAAS) MUST be used together to get a complete picture of student learning. See HELP menu for more details on this report.

Note: The School Effect on the reporting for Math and Reading, 9-11, is expressed in PSSA scaled score points. The Average Gain over Grades for Math and Reading, grades 4-8, is expressed in Normal Curve Equivalent (NCE) units. The use of NCEs allows PSSA scores in any school year and grade level to be compared across years.

[Click here for the Report Legend](#)

School Name	School Effect
Norwin Senior High School 2010	-36.3

Note: PVAAS growth results should be used together with PSSA achievement results to get a more complete view of a district to ensure the growth is resulting in the targeted achievement levels.

	GREEN: ABOVE Predicted Achievement - School was highly effective. School exceeded the expected progress with students.
	YELLOW: MET Predicted Achievement - School was effective. School met the expected progress with students.
	RED: BELOW Predicted Achievement - School was not effective. School did not meet the expected progress with students.
--	The school does not have data for this test and subject in the most recent year.

NORWIN HIGH SCHOOL MATH

- The observed mean scaled score of the cohort was **1451** (This falls in the high range of the Proficient Performance Level range: 1304-1508).

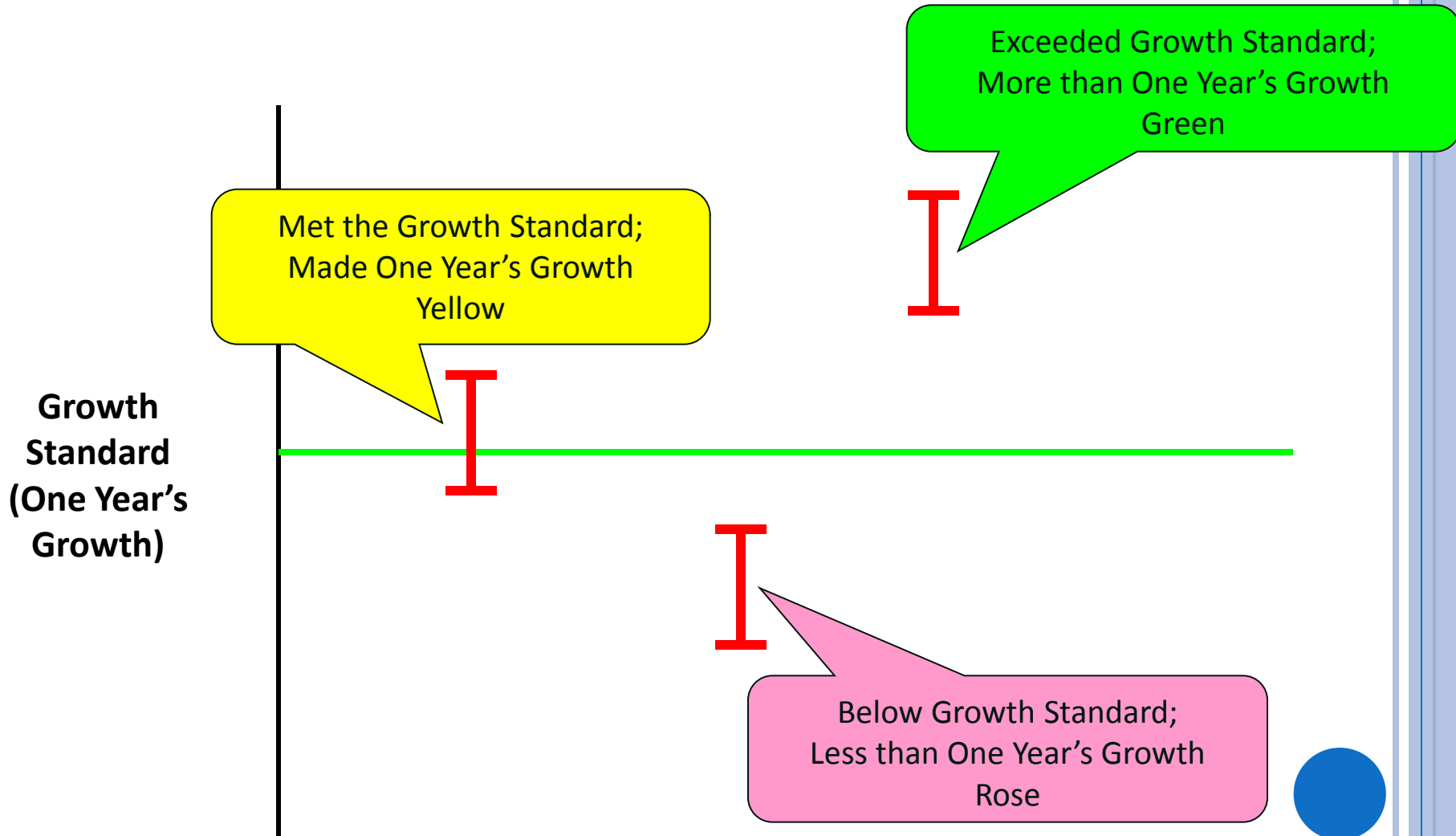
Predicted Mean 1488

- So, even though it appears the cohort as a whole is not making growth, the cohort average was at **the High-Proficient Level**.
- The overall school effect does not provide the specific information on the cohort.



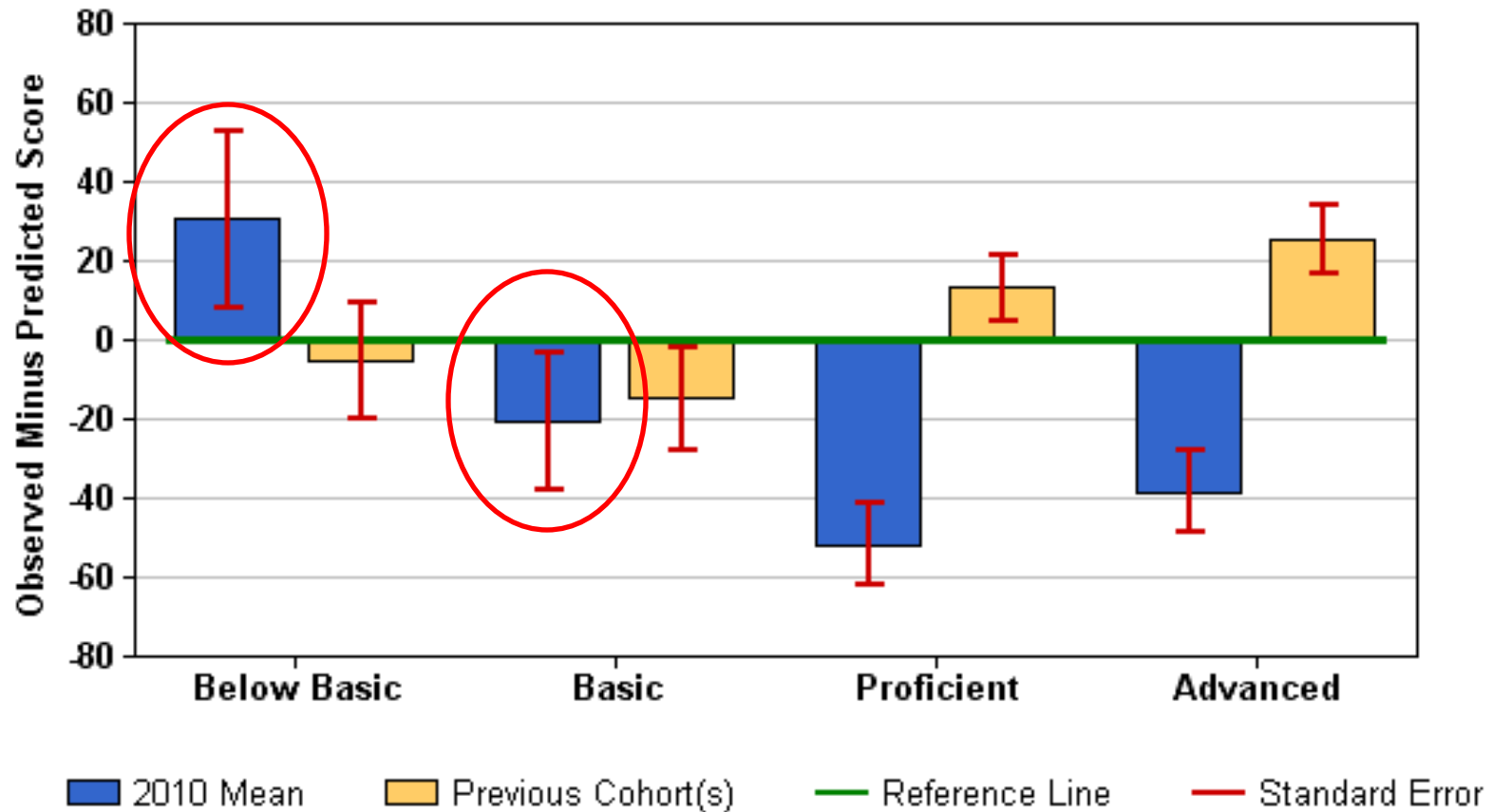
GROWTH STANDARD

WHAT THE WHISKERS TELL US...



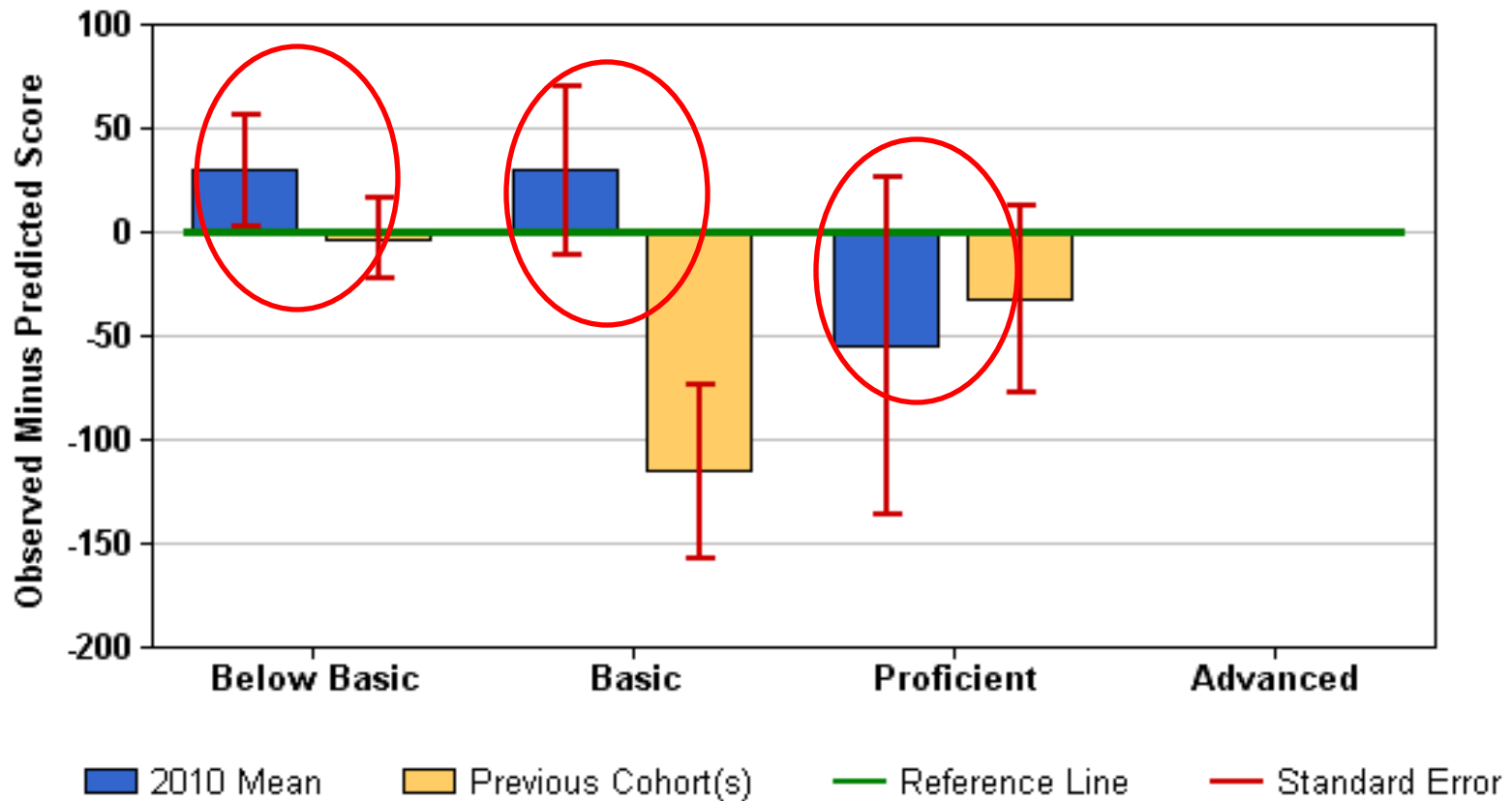
GRADE 11 MATH ALL STUDENTS

Below Basic Group is Making Growth; Basic Group is Very Close to Growth Line



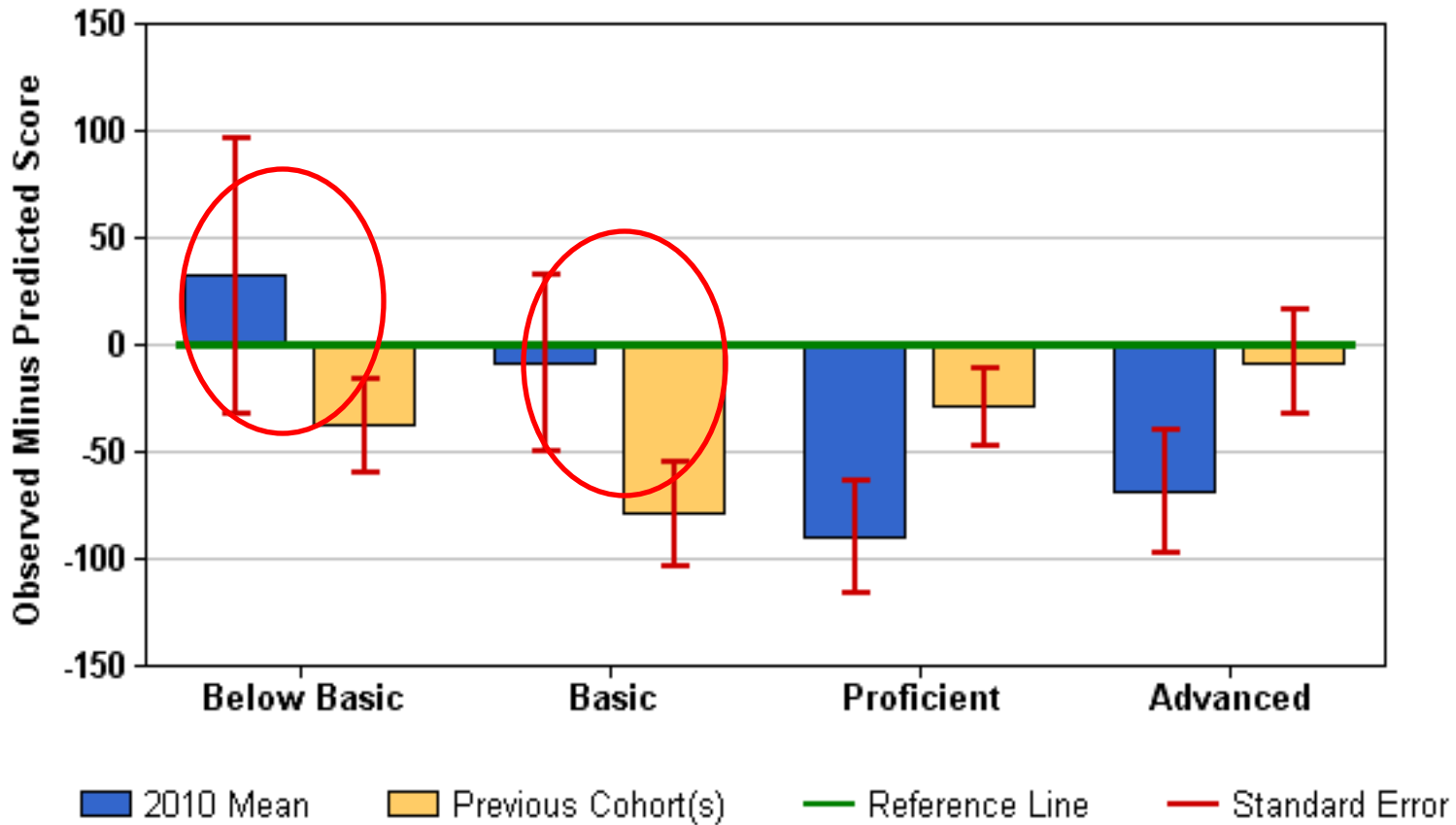
GRADE 11 MATH IEP SUBGROUP

All groups are making growth.



GRADE 11 MATH ED SUBGROUP

Below Basic and Basic groups are making growth.



2010 School Value Added Summary

Norwin School District

School Effect (PSSA Reading, Grades 9-11)

This report provides an indicator of the effectiveness of the school in making academic progress with students. Achievement results (PSSA) and growth results (PVAAS) MUST be used together to get a complete picture of student learning. See HELP menu for more details on this report.

Note: The School Effect on the reporting for Math and Reading, 9-11, is expressed in PSSA scaled score points. The Average Gain over Grades for Math and Reading, grades 4-8, is expressed in Normal Curve Equivalent (NCE) units. The use of NCEs allows PSSA scores in any school year and grade level to be compared across years.

[Click here for the Report Legend](#)

School Name	School Effect
Norwin Senior High School 2010	-53.0

Note: PVAAS growth results should be used together with PSSA achievement results to get a more complete view of a district to ensure the growth is resulting in the targeted achievement levels.

	GREEN: ABOVE Predicted Achievement - School was highly effective. School exceeded the expected progress with students.
	YELLOW: MET Predicted Achievement - School was effective. School met the expected progress with students.
	RED: BELOW Predicted Achievement - School was not effective. School did not meet the expected progress with students.
-	The school does not have data for this test and subject in the most recent year.

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NORWIN HIGH SCHOOL READING

- The mean scaled score of the cohort was **1429**.

(This falls in the high range of the Performance Level Proficient range: 1257-1491).

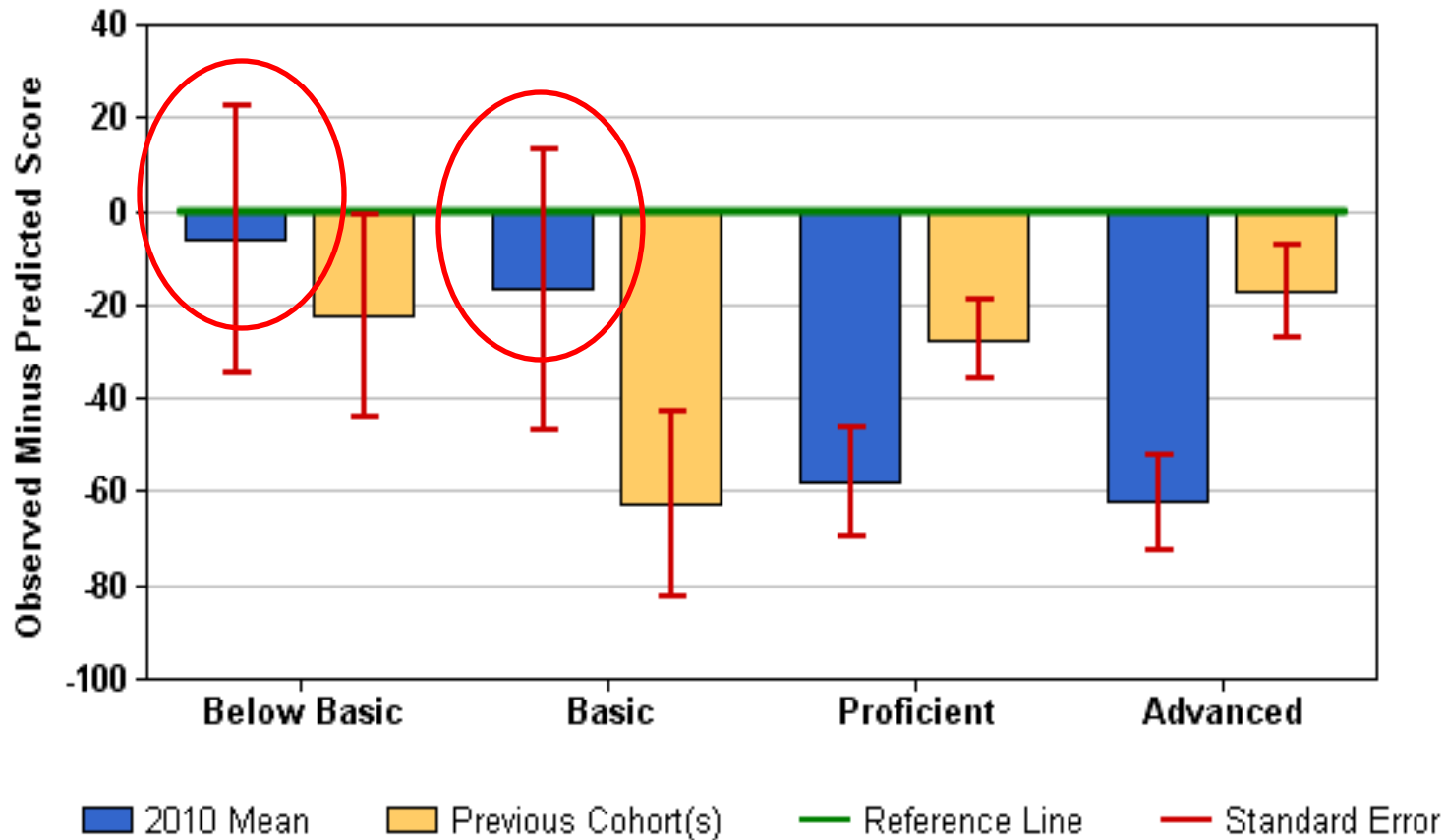
Predicted Mean 1483

- So, even though it appears the cohort as a whole is not making growth, the cohort average was at the **High-Proficient Level**.
- The overall school effect does not provide the specific information on the cohort.



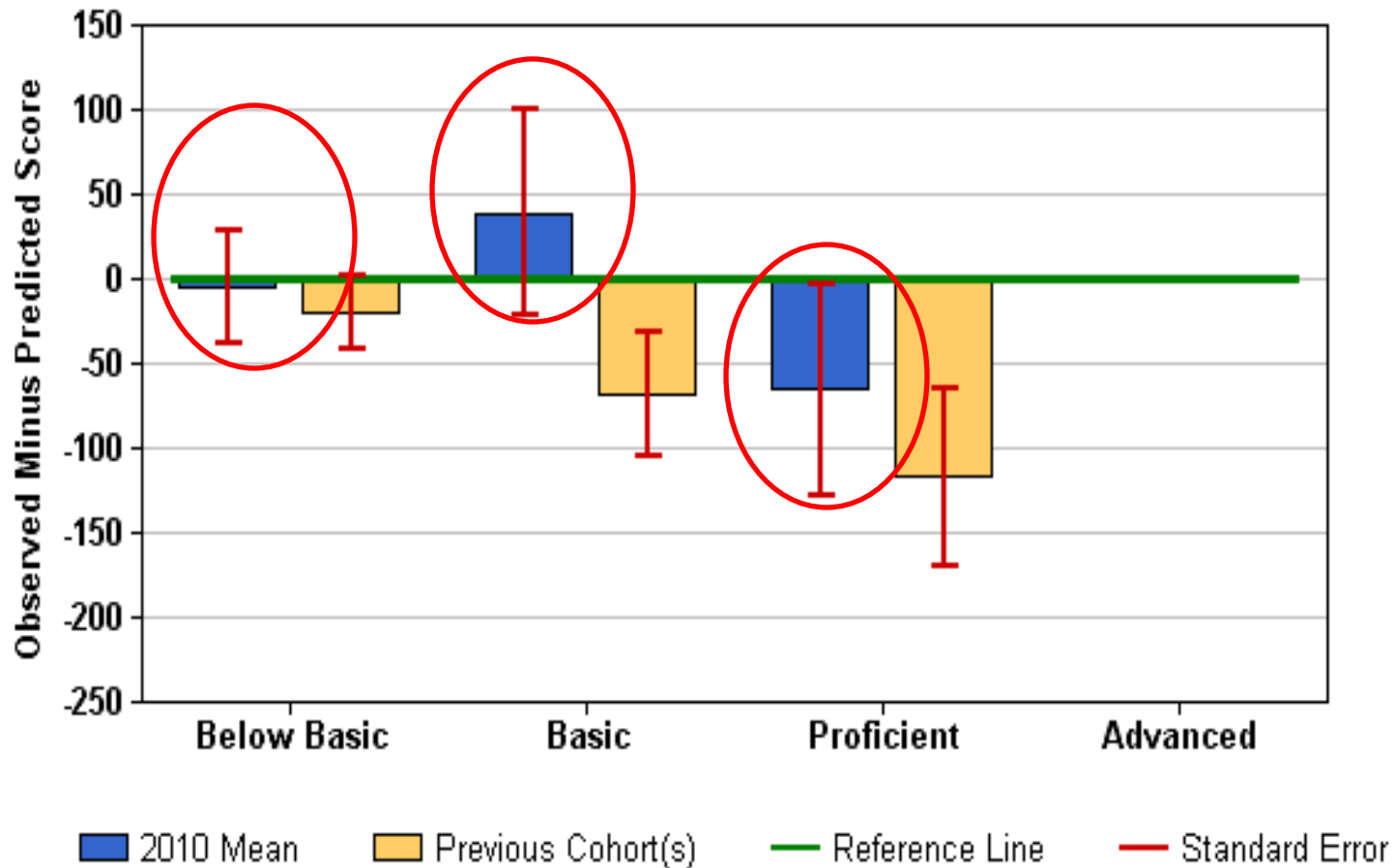
GRADE 11 READING ALL STUDENTS

Below Basic and Basic groups are making growth.



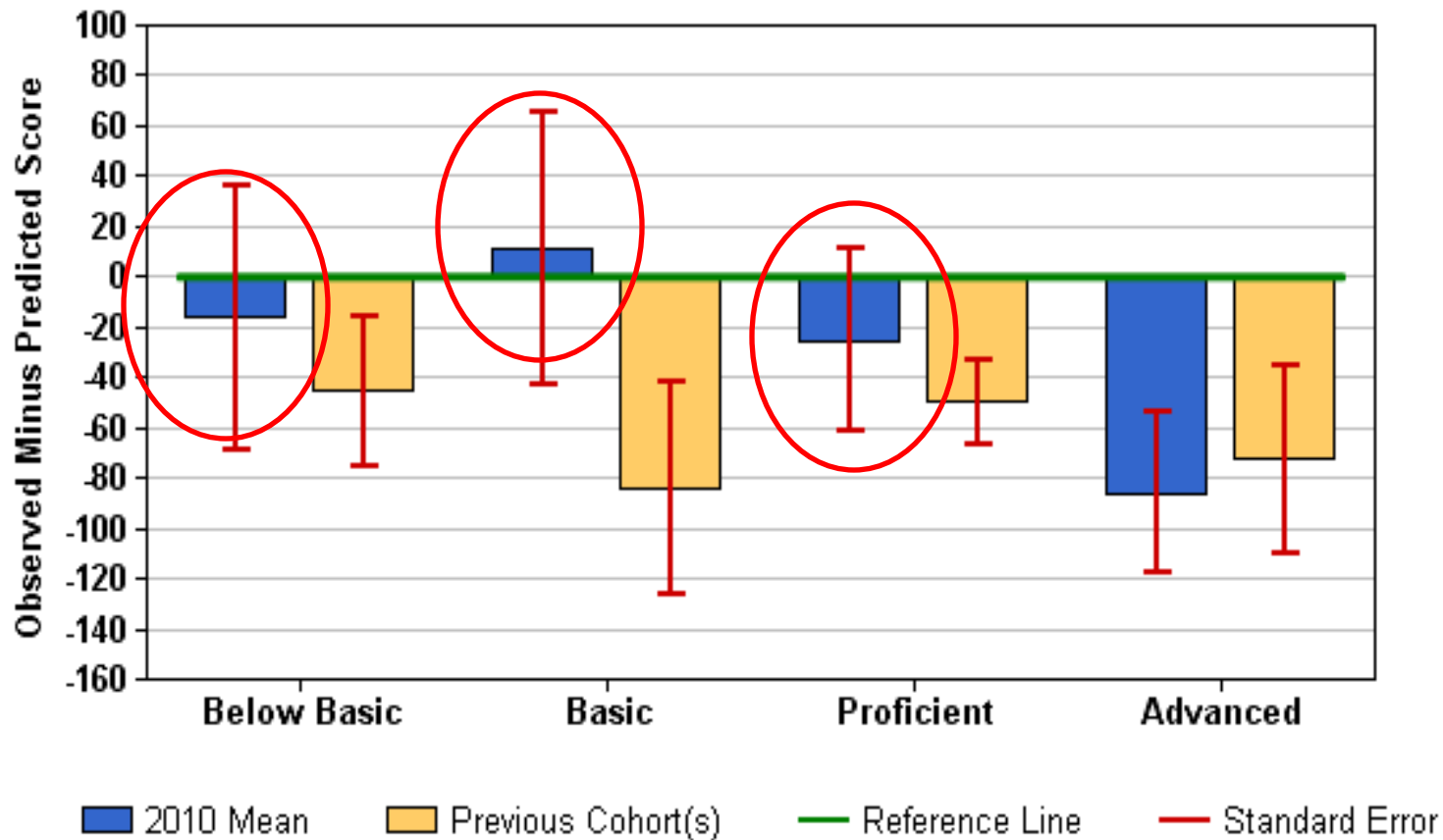
GRADE 11 READING IEP SUBGROUP

Below Basic and Basic groups are making growth; proficient group is very close to growth line.



GRADE 11 READING ED SUBGROUP

Below Basic, Basic and Proficient groups are making growth.





**NORWIN CONTINUES TO MAKE ACADEMIC
GAINS AND PROGRESS**

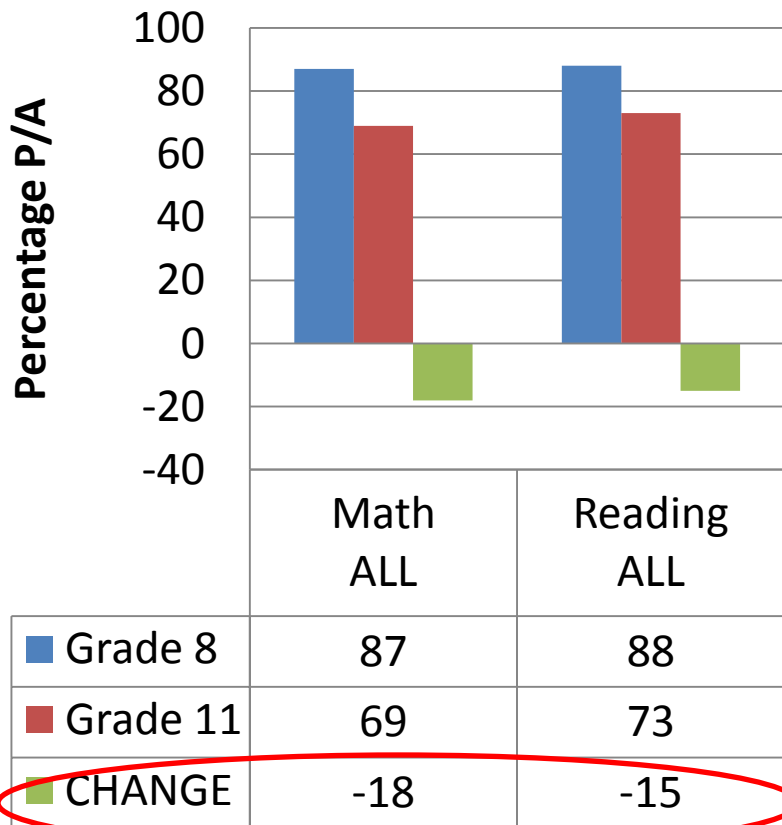
HIGHLIGHTS FROM 2010

- NSD is in **top 10** in Southwestern PA
- NSD is in the **top 5.4%** in PA State rankings (**24/497 Statewide**)
- NSD is **#2** in Westmoreland County
- NSD and **all schools made AYP**
- NSD was selected as **one of 25 districts** in the state **deemed to have low spending and high performance** in the Costing Out Study.
- We had some of the **highest percentages of advanced and proficient PSSA scores** since the inception of the PSSA
- We are **closing the gap** between grade 8 and 11 PSSA



NARROWING THE GAP FROM 8TH TO 11TH

2009



2010

