Instructional Data Warehouse News

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Grade 3-8 Assessments
Analyzing NYS Grade 3-8 Scores Aided by Third Party Assessments

by Fred Cohen

Below are tables showing Grade 3-8 proficiency rates for Nassau County test takers for 2021-22 and 2022-23. The final column shows average proficiency by grade (circled in red). Note the **improved vertical alignment of scores in 2023** (except for Math 8) as NYS changed its learning standards for the 2023 assessments.

2021/2022 NYS Snapshot - Regional

Related Report Links

Subject	Test	# L1	# L2	# L3	# L4	Total	L3+L4	% L1	% L2	% L3	% L4	L3+L4%
ELA	Grade 3 ELA	949	3,093	5,760	1,141	10,943	6,901	9%	28%	53%	10%	63%
	Grade 4 ELA	1,325	3,179	3,439	2,776	10,719	6,215	12%	30%	32%	26%	58%
	Grade 5 ELA	1,794	3,455	2,870	2,433	10,552	5,303	17%	33%	27%	23%	50%
	Grade 6 ELA	1,378	1,554	2,562	4,513	10,007	7,075	14%	16%	26%	45%	71%
	Grade 7 ELA	1,387	2,641	3,019	2,315	9,362	5,334	15%	28%	32%	25%	57%
	Grade 8 ELA	1,079	2,232	2,447	2,327	8,085	4,774	13%	28%	30%	29%	59%

Subject	Test	# L1	# L2	# L3	# L4	Total	L3+L4	% L1	% L2	% L3	% L4	L3+L4%
Mathematics	Grade 3 Math	1,651	2,210	4,034	3,156	11,051	7,190	15%	20%	37%	29%	65%
	Grade 4 Math	1,666	2,287	3,010	3,889	10,852	6,899	15%	21%	28%	36%	64%
	Grade 5 Math	2,385	2,319	2,629	3,046	10,379	5,675	23%	22%	25%	29%	55%
	Grade 6 Math	1,983	2,143	2,572	3,100	9,798	5,672	20%	22%	26%	32%	58%
	Grade 7 Math	1,977	2,279	2,301	2,319	8,876	4,620	22%	26%	26%	26%	52%
	Grade 8 Math	1,112	927	612	324	2,975	936	37%	31%	21%	11%	31%

2022/2023 NYS Snapshot - Regional

Related Report Links

Subject	Test	# L1	# L2	# L3	# L4	Total	L3+L4	% L1	% L2	% L3	% L4	L3+L4%
ELA	Grade 3 ELA	1,940	2,703	4,162	2,546	11,351	6,708	17%	24%	37%	22%	59%
	Grade 4 ELA	1,296	2,737	3,900	2,840	10,773	6,740	12%	25%	36%	26%	63%
	Grade 5 ELA	1,505	2,799	4,127	2,282	10,713	6,409	14%	26%	39%	21%	60%
	Grade 6 ELA	1,529	2,400	3,457	2,664	10,050	6,121	15%	24%	34%	27%	61%
	Grade 7 ELA	1,650	2,073	3,304	2,360	9,387	5,664	18%	22%	35%	25%	60%
	Grade 8 ELA	967	1,747	2,900	2,472	8,086	5,372	12%	22%	36%	31%	66%

Subject	Test	# L1	# L2	# L3	# L4	Total	L3+L4	% L1	% L2	% L3	% L4	L3+L4%
Mathematics	Grade 3 Math	782	2,627	4,975	3,128	11,512	8,103	7%	23%	43%	27%	70%
	Grade 4 Math	1,135	2,069	4,997	2,841	11,042	7,838	10%	19%	45%	26%	71%
	Grade 5 Math	1,406	2,029	4,391	2,863	10,689	7,254	13%	19%	41%	27%	68%
	Grade 6 Math	1,312	1,824	4,447	2,416	9,999	6,863	13%	18%	44%	24%	69%
	Grade 7 Math	1,060	1,776	2,965	3,264	9,065	6,229	12%	20%	33%	36%	69%
	Grade 8 Math	842	494	1,044	358	2,738	1,402	31%	18%	38%	13%	51%

Upcoming IDW Events
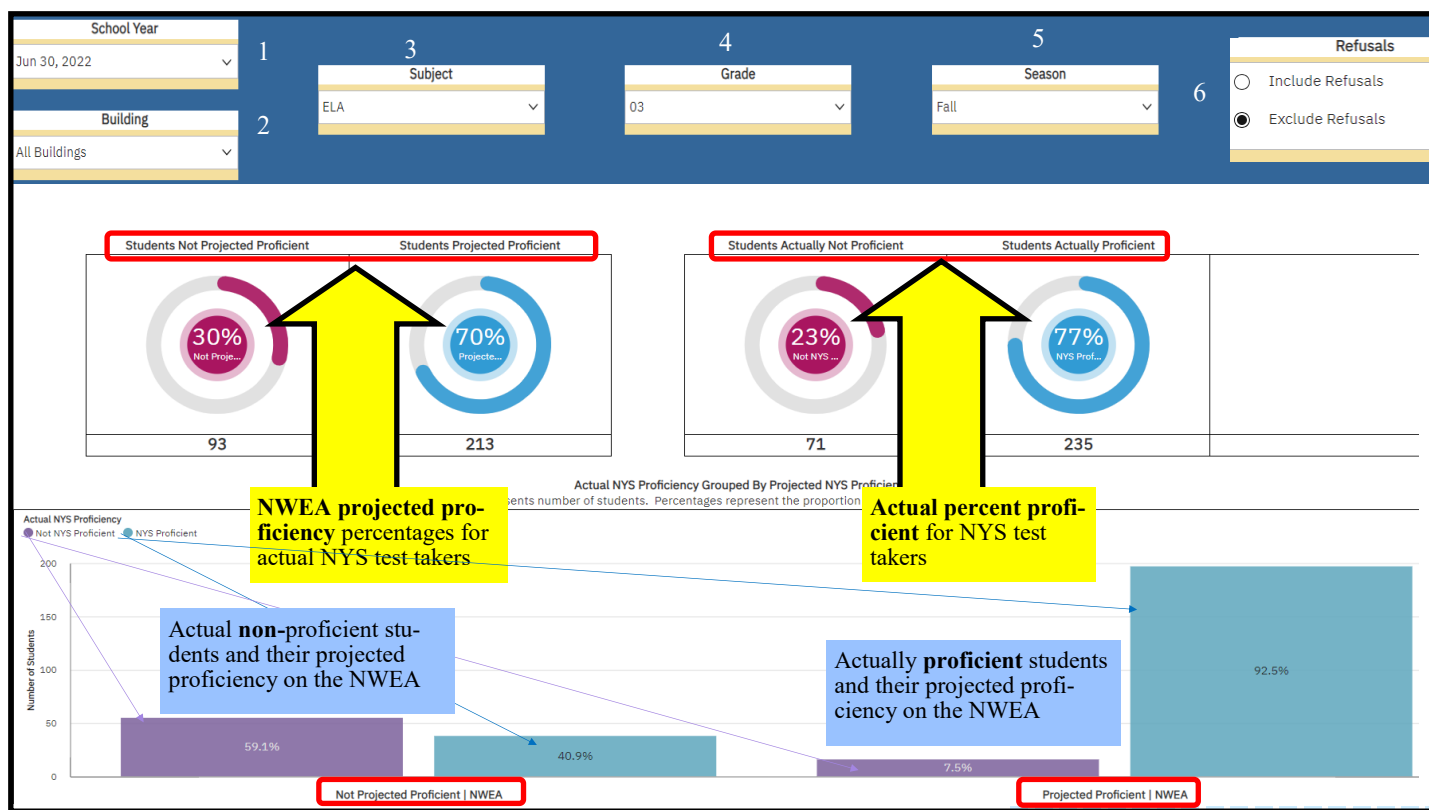
Scheduled Nassau BOCES IDW Trainings:

Teacher Interface November 29

Achieving Equitable Outcomes December 6

To book an in-district training, please call Stephanie Witt 516-608-6623

Department of Curriculum, Instruction and Technology
Questions? Contact: Stephanie Witt, Supervisor II, Instructional Data Warehouse
Phone: 516-608-6623 • Email: switt1@nasboces.org

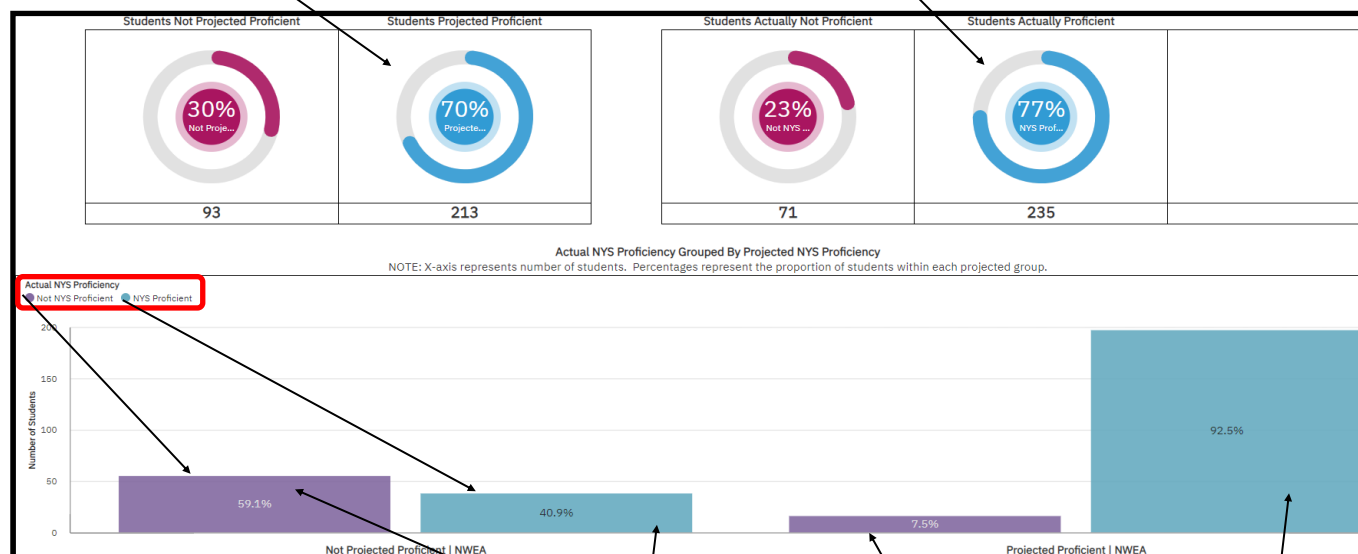*~ Proudly Serving the Nassau County School Community ~*

As can be seen on the Page 1 tables, **ELA proficiency scores for 2021-22** ranged from a low of **50% in Grade 5** to a high of **71% proficient in Grade 6**, a **range of 21%**. In Math, the range was **13%, from a low of 52% in Grade 7 to a high of 65% in Grade 3**. In 2022-23, however, for the "Next Generation Learning Standards," SED created assessments that were more vertically aligned for Nassau County test takers with a **range in proficiency of just 7% in ELA and only 3% in Math.** Two test vendors (NWEA and STAR) offered proficiency projections for 2023 knowing that the new learning standards were being created for 2023. A third vendor (iReady) elected not to make projections for 2022-23.

The Instructional Data Warehouse (IDW) therefore created two new dashboards to assist IDW users in interpreting and analyzing these projections. The illustrations below are for NWEA assessments, but these dashboards are available for STAR assessments as well. We trust that these dashboards will add great insight when comparing third party score projections to actual NYS scores for this year and for the future. The first dashboard is labeled **"NYS Projection Dashboard – Individual Level Summary"** and is suited to analyze scores by **all four performance levels**. A sample is not shown here.
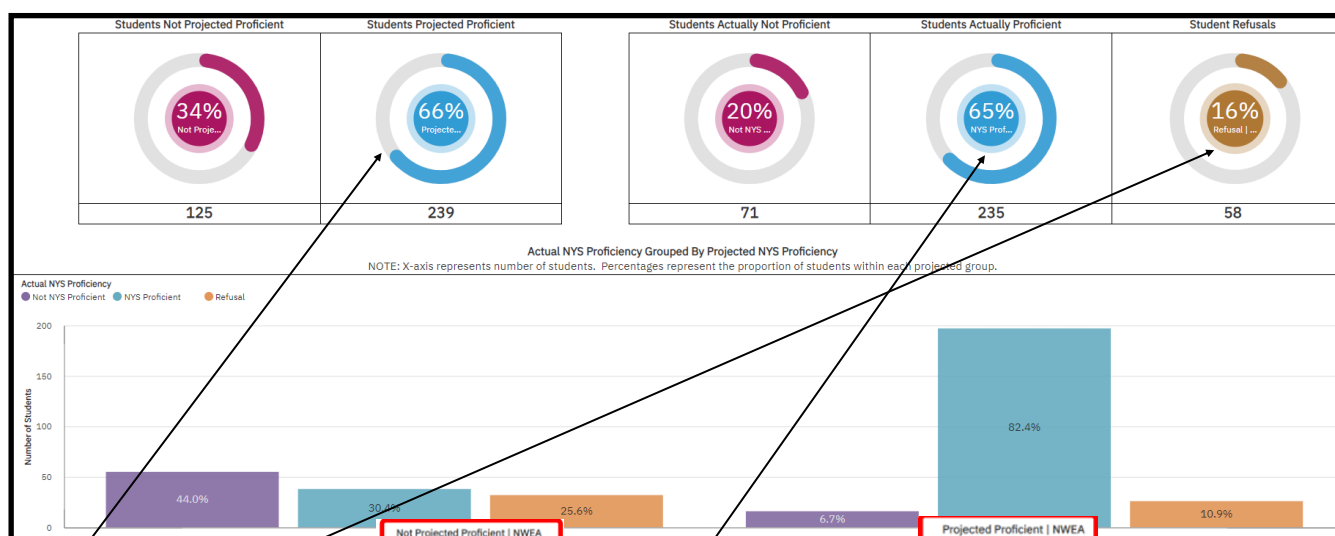
The dashboard shown below, the **"NYS Projection Dashboard – Overall Proficiency Summary"** is designed to analyze just **proficiency**. It is important to understand how the user selects the information to be displayed on the dashboard. There are six choices or selections the user must make. To frame those six choices, I have added white numbers (one through six) to the dashboard. For example, the "School Year" is labeled number one, and the choice to include or exclude "Refusals" is number six. Each time the user changes the default displayed, the dashboard produces a new dashboard (sample dashboard below). When the user wants to select a different school year, the dashboard will change within a second or two. To change the school year **and the grade level** will require two steps because the dashboard recalculates after each selection is made. To change all six defaults will require six changes.

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The dashboard on the previous page (duplicated below without the added explanatory notes) shows the break-down of NWEA projected proficiency scores on the Fall Grade 3 ELA assessment for **students who actually took the State test.** It **excludes data for students who refused the State test**. The top left half of the chart tells us that 70% of the students who took the State test were projected to be proficient based on their NWEA Fall Test. The chart on the right shows that on the actual State test, 77% were indeed proficient.

Students Not Projected Proficient	Students Projected Proficient	Students Actually Not Proficient	Students Actually Proficient	
30% Not Proje...	70% Projecte...	23% Not NYS ...	77% NYS Prof...	
93	213	71	235	

Actual NYS Proficiency Grouped By Projected NYS Proficiency
NOTE: X-axis represents number of students. Percentages represent the proportion of students within each projected group.

Actual NYS Proficiency
● Not NYS Proficient ● NYS Proficient

Not Projected Proficient | NWEA: 59.1% / 40.9%
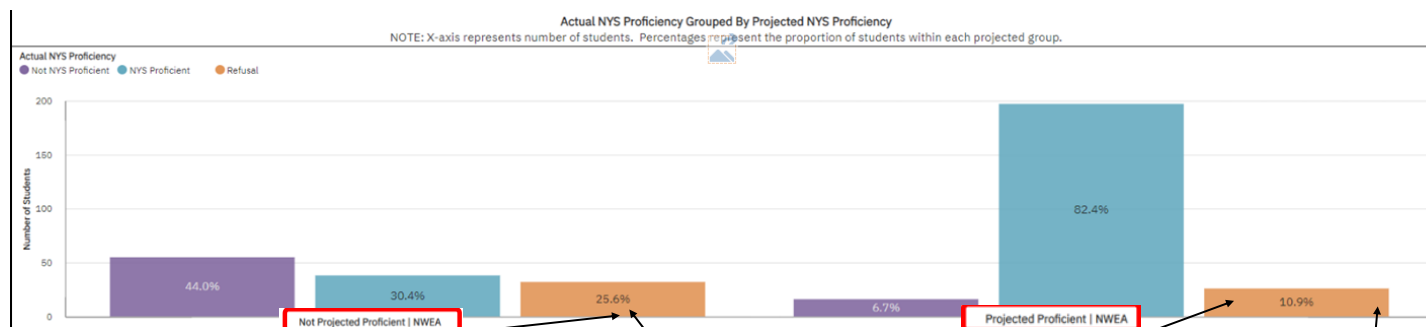Projected Proficient | NWEA: 7.5% / 92.5%

The bottom left half of the chart shows that 59.1% of the actual test takers who were projected to be not proficient actually were indeed not proficient, but 40.9% were proficient. The bottom right shows that 92% of the actual test takers projected to be proficient actually were proficient, but 7.5% were not. By then going back and selecting "Include Refusals," a different chart is revealed below.

Students Not Projected Proficient	Students Projected Proficient	Students Actually Not Proficient	Students Actually Proficient	Student Refusals
34% Not Proje...	66% Projecte...	20% Not NYS ...	65% NYS Prof...	16% Refusal	...
125	239	71	235	58

Actual NYS Proficiency Grouped By Projected NYS Proficiency
NOTE: X-axis represents number of students. Percentages represent the proportion of students within each projected group.

Actual NYS Proficiency
● Not NYS Proficient ● NYS Proficient ● Refusal

Not Projected Proficient | NWEA: 44.0% / 30.4% / 25.6%
Projected Proficient | NWEA: 6.7% / 82.4% / 10.9%

One can see that **16% refused the State test**. On the chart at the top of the page (refusers excluded), 70% were projected to be proficient and 77% actually were. But if the refusers above were taken into account, only **66%** would have been projected as proficient and **65%** of the NWEA enrollment would actually be proficient.

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And looking at the bottom part of the "Include Refusals" chart repeated below, we see additional details.

Actual NYS Proficiency Grouped By Projected NYS Proficiency
NOTE: X-axis represents number of students. Percentages represent the proportion of students within each projected group.

25.6% of students **not projected to be proficient** were refusals while only **10.9% of students projected to be proficient were refusals**. By hovering over the columns, one can see the actual numbers and can drill through (double click) to see student names. In this district, the refusals (58 in number) were projected to have a lower proficiency rate than the actual test takers (32 were projected to be not proficient and only 26 were projected to be proficient.) The chart at the top of Page 2 which excluded refusals had a projected proficiency of 70%. The 58 refusals, though, had a projected proficiency rate of only 26/58 or 45%.

Districts have always wondered who opts out of state tests—proficient students or non-proficient students. Use the "Refusers Excluded" chart to find out. Others wonder if third party tests underpredict or over-predict proficiency. Find your district's answers using these charts. We hope they add to the instructional data bank for districts who use third-party tests.

As always, IDW personnel are available to provide telephone assistance as well as virtual and in-district training for any district seeking to learn more about this newsletter, or about other best data practices. To schedule a training session or ask any IDW-related questions, please call Stephanie Witt at (516) 608-6623, Fred Cohen at (516) 608-6640,Tammy Mazza at (516) 608-6633, or Dr. Wanda Toledo at (516) 608-6648.

What's New in the IDW?

- **Check out our new Comparison Reports based on the State Report Card Data Base. New reports create new opportunities for IDW users.**

- **Don't forget to check out our IDW training schedule and schedule a training opportunity for all staff members.**

- **Coming for the new calendar year: Third-Party Navigation Trainings!**

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