



THE STATE EDUCATION DEPARTMENT
 THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234

Calculating Participation, Performance, and Graduation Rates for 2008–09 Accountability Using 2007–08 Elementary/Middle-Level And High School Accountability Verification Reports

Elementary/Middle-Level Accountability

Calculating Participation Rates for Elementary/Middle-Level ELA, Math, and Science

The following equation is used to determine the participation rate for ELA, math, and science at the elementary/middle level:

$$\text{Participation Rate} = 100 \times (\text{Count of Participation Rate Enroll Students with Valid Test Scores} \div \text{Count of Participation Rate Enroll Students})$$

Step 1: Open the District/School Summary Report (Report A) of the Elementary/Middle-Level Accountability Verification Report and click on the Participation Rate Enroll number in the All Grades column.

The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G	H	I	J
1	Report Viewer - AVR A District									
2										
3	SAMPLE CENTRAL SCHOOL DISTRICT									
4	000000000000									
5										
6										
7	School Year	2007-08	Report Run On	September 3, 2008 15:05:57						
8	Subject Area	ELA								
9										
10			All Grades		03		04		05	
11	District		Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll
12	000000000000	Sample CSD	177	164	27	25	33	30	32	32
13										
14			All Grades		03		04		05	
15	Schools in District		Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll
16	000000000001	Sample School	177	164	27	25	33	30	32	32
17										
18										
19										

Step 2: In the District/School Subgroup Report (Report B), click on the Participation Rate Enroll number in the All Grades column in the appropriate row for the subgroup for which you want to determine the participation rate. The diagram below points to the number for the All Students subgroup.

The screenshot shows an Excel spreadsheet titled "Microsoft Excel - em ela avr report b.xls". The spreadsheet displays data for "SAMPLE SCHOOL ACCOUNTABILITY SUBGROUP" for the school year 2007-08, run on September 3, 2008. The data is organized into columns for "All Grades" (3, 4, 5) and rows for various subgroups. A box labeled "Step 2" points to the "Participation Rate Enroll" value of 177 for the "All Students" subgroup in the "All Grades" column.

	All Grades		3		4		5	
	Participation Rate Enroll	Performance Index Enroll						
All Students	177	164	27	25	33	30	32	32
Disability Status								
Students with Disabilities	31	30	9	8	10	10	12	12
Ethnicity								
American Indian or Alaska Native	2	2	0	0	1	1	1	1
Black or African American	40	37	6	6	8	8	4	4
Hispanic or Latino	38	35	8	8	8	8	7	7
Asian or Pacific Islander	11	10	2	1	5	5	4	4
White	86	50	11	10	11	8	16	16
English Proficiency								

Step 3: The resulting Student Detail Report (Report C) lists all students in the **Count of Participation Rate Enroll Students** (177 in the sample below) for that subgroup. To determine which of these students are included in the Count of Participation Rate Enroll Students with Valid Test Scores, identify the “Accountable Assmt” in the purple shaded area to the far right of the student’s name (Grade 3 ELA in the sample). If that assessment is also listed under “Assessment” in the green shaded area to the far right of the student’s district with a “Performance Level” of Level 1, Level 2, Level 3, or Level 4, the student is part of the **Count of Participation Rate Enroll Students with Valid Test Scores**.

The screenshot displays a Microsoft Excel spreadsheet titled "em_ela_avr_report_c_partic.xls". The main content is a "SAMPLE SCHOOL ACCOUNTABILITY STUDENT DETAIL REPORT".

Summary Statistics:

- Report Run On: September 3, 2008 15:26:27
- Total Students Count: 177

Student Record (Row 13-19):

Student:	Last Name, First Name	LEP:	Accountable Assmt: Grade 3 ELA
District ID:	000000000	LEP Duration:	Part Rate District: Y
NYSSIS ID:	000000000	Former LEP:	Part Rate School: Y
Assessed Grade:	03	NYSESLAT Eligible:	Perf Index Enroll District: Y
Date of Birth:	03/18/1999	Disability:	Perf Index Enroll School: Y
Gender:	Male	NYSAA Eligible:	
Ethnicity:	White	Econ Disad: Yes	

Assessment and Performance Level (Row 21-23):

District	School	Grade	Entry Date	Exit Date	Exit Reason	Assessment	Score	Performance Level
District Name	School Name	03	09/06/2007	06/30/2008	End of School Year	Grade 3 ELA	669	Level 3
						Grade 3 Math	687	Level 3

The student in the sample above earned a Performance Level of 3 on Grade 3 ELA, which was the assessment for which he was accountable at the elementary/middle level in ELA. As such, this student will be included in the Count of Participation Rate Enroll Students with Valid Test Scores for the All Students subgroup.

If the Assessment in the green shaded area does not match the Accountable Assmt *exactly* (e.g., the grade is different) or the Performance Level is Administrative Error, the student will not be included in the Count of Participation Rate Enroll Students with Valid Test Scores but will be included in the Count of Participation Rate Enroll Students (excluded from the numerator but included in the denominator).

Step 4: Sum the number of students identified as included in the Count of Participation Rate Enroll Students with Valid Test Scores.

Step 5: Using the equation above, calculate the Participation Rate. Districts/schools meet the participation-rate criterion for elementary/middle-level ELA and math for a subgroup if the participation rate is equal to or greater than 95. Districts/schools meet the participation-rate criterion for science for a subgroup if the participation rate is equal to or greater than 80.

For more information on meeting the participation criterion, see the *SIRS Policy Manual* at <http://www.emsc.nysed.gov/irts/SIRS/home.shtml> .

Calculating Performance Indices for Elementary/Middle-Level ELA, Math, and Science

The following equation is used to determine the Performance Index for ELA, math, and science at the elementary/middle level:

$$\text{Performance Index} = 100 \times [(\text{Count of Performance Index Enroll Performing at Levels 2, 3, and 4} + \text{the Count at Levels 3 and 4}) \div \text{Count of Performance Index Enroll}]$$

Step 1: Open the District/School Summary Report (Report A) of the Elementary/Middle-Level Accountability Verification Report and click on the Performance Index Enroll number in the All Grades column.

The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G	H	I	J
1	Report Viewer - AVR A District									
2										
3	SAMPLE CENTRAL SCHOOL DISTRICT									
4										
5	00000000000									
6										
7	School Year	2007-08	Report Run On	September 3, 2008 15:05:57						
8	Subject Area	ELA								
9										
10			All Grades		03		04		05	
11	District		Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll
12	00000000000	Sample CSD	177	164	27	25	33	30	32	32
13										
14			All Grades		03		04		05	
15	Schools in District		Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll	Participation Rate Enroll	Performance Index Enroll
16	00000000001	Sample School	177	164	27	25	33	30	32	32
17										
18										
19										

Step 2: In the District/School Subgroup Report (Report B), click on the Performance Index Enroll number in the All Grades column in the appropriate row for the subgroup for which you want to determine the Performance Index. The diagram below points to the number for the All Students subgroup.

The screenshot shows an Excel spreadsheet with the following data:

	All Grades		3		4		5	
	Participation Rate	Enroll	Performance Index	Enroll	Participation Rate	Enroll	Performance Index	Enroll
All Students	177	164	27	25	33	30	32	32
Disability Status								
Students with Disabilities	31	30	9	8	10	10	12	12
Ethnicity								
American Indian or Alaska Native	2	2	0	0	1	1	1	1
Black or African American	40	37	6	6	8	8	4	4
Hispanic or Latino	38	35	8	8	8	8	7	7
Asian or Pacific Islander	11	10	2	1	5	5	4	4
White	86	50	11	10	11	8	16	16
English Proficiency								

A box labeled "Step 2" points to the "Performance Index Enroll" value of 164 in the "All Students" row.

Step 3: The resulting Student Detail Report (Report C) lists all students in the **Count of Performance Index Enroll Students** (164 in the sample below) for the All Students subgroup. To determine which of these students are included in the Count of Performance Index Enroll Performing at Levels 2, 3, and 4, identify the Accountable Assmt in the purple shaded area to the far right of the student's name (Grade 3 ELA in the sample) and the Performance Level associated with that Assessment in the green shaded area to the far right of the student's district.

The screenshot shows a Microsoft Excel spreadsheet titled "em ela avr report c perf.xls". The spreadsheet displays a "SAMPLE SCHOOL ACCOUNTABILITY STUDENT DETAIL REPORT" for "AVR C School". Key information includes:

- Report Run On:** September 3, 2008 15:26:27
- Total Students Count:** 164
- Student Information:**
 - Student: Last Name, First Name
 - District ID: 000000000
 - NYSSIS ID: 0000000000
 - Assessed Grade: 03
 - Date of Birth: 03/18/1999
 - Gender: Male
 - Ethnicity: White
- Assessment Information:**
 - Accountable Assmt: Grade 3 ELA
 - Part Rate District: Y
 - Part Rate School: Y
 - Perf Index Enroll District: Y
 - Perf Index Enroll School: Y
- Performance Table:**

District	School	Grade	Entry Date	Exit Date	Exit Reason	Assessment	Score	Performance Level
District Name	School Name	03	09/06/2007	06/30/2008	End of School Year	Grade 3 ELA	669	Level 3
						Grade 3 Math	687	Level 3

The student in the sample above earned a Performance Level of 3 on Grade 3 ELA, which was the assessment for which he was accountable at the elementary/middle level in ELA. As such, this student will be included in the Count of Performance Index Enroll Performing at Level 3.

Step 4: Sum the number of students in the Count of Performance Index Enroll Performing at Level 2. Sum the number performing at Level 3. Sum the number performing at Level 4.

Step 5: Using the equation above, calculate the Performance Index. Districts/schools meet the performance criterion if the Performance Index is equal to or greater than the Effective Annual Measurable Objective (see table below) or Safe Harbor Target for ELA and math, or State Standard (100) or Progress Target for science. (See 2006–07 *Accountability and Overview Reports* on www.nySTART.gov for Safe Harbor Targets and Progress Targets.) For more information on meeting the performance criterion, see the *SIRS Policy Manual* at <http://www.emsc.nysed.gov/irts/SIRS/home.shtml>.

Secondary-Level Accountability

Calculating Participation Rates for Secondary-Level ELA and Math

The following equation is used to determine the participation rate for ELA and math at the secondary level:

$$\text{Participation Rate} = 100 \times (\text{Tested} \div \text{Total Students Counted for Grade 12 Participation})$$

Step 1: Open the District/School Summary Report (Report A) of the High School Accountability Verification Report and click on the district or school for which you want to determine participation rates.

		2008 Grade 12 Participation				2004 Accountability Cohort								2003 Graduation Cohort (through August 2007)				
		ELA		Math		Total Students Counted for Accountability Cohort	ELA				Math				Diploma			
		Not tested	Tested	Not tested	Tested		Level 1	Level 2	Level 3	Level 4	Level 1	Level 2	Level 3	Level 4	Total Students Counted for Graduation Cohort	Diploma	No Diploma	
12	District																	
13	000 Sample District	1,247	33	1,214	34	1,213	1,220	75	62	729	354	54	76	847	243	1,095	952	143
15	Schools in District																	
16	000 Sample School	383	9	374	6	377	376	31	25	221	99	21	28	283	44	344	282	62

Step 2: The Tested and Total Students Counted for Grade 12 Participation needed to calculate the participation rate for each subgroup using the equation above are provided in the resulting District/School Subgroup Report (Report B). The sample below points to the numbers used to calculate the sample school's participation rate for the All Students subgroup for ELA and math.

		2008 Grade 12 Participation				2004 Accountability Cohort								2003 Graduation Cohort (through August 2007)				
		ELA		Math		ELA				Math				Diploma		No Diploma		
		Students Counted for Grade 12 Participation	Not tested	Tested	Not tested	Tested	Students Counted for Accountability Cohort	Level 1	Level 2	Level 3	Level 4	Level 1	Level 2	Level 3	Level 4	Total Students Counted for Graduation Cohort	Diploma	No Diploma
12	All Students	383	9	374	6	377	376	31	25	221	99	21	28	283	44	344	282	62
13	Disability Status																	
14	Students with Disabilities	37	2	35	0	37	44	16	12	15	1	11	10	22	1	17	4	13
15	Ethnicity																	
16	American Indian or Alaska Native	2	0	2	0	2	2	1	0	1	0	0	0	2	0	3	1	2
17	Black or African American	37	0	37	1	36	37	6	2	27	2	6	2	27	2	37	26	11
18	Hispanic or Latino	23	2	21	2	21	22	2	1	19	0	1	7	13	1	8	6	2
19	Asian or Pacific Islander	9	1	8	0	9	11	2	2	5	2	1	5	4	1	8	7	1
20	White	312	6	306	3	309	304	20	20	169	95	13	14	237	40	288	242	46
21	English Proficiency																	

Step 3: Using the equation above, calculate the Participation Rate.

For the sample school, the ELA participation rate for All Students would be:

$$100 (383 \div 374) = 100 (0.9765013) = 97.65013 = 98\%$$

For the sample school, the math participation rate for All Students would be:

$$100 (383 \div 377) = 100 (0.9843342) = 98.43342 = 98\%$$

Districts/schools meet the participation-rate criterion for secondary-level ELA and math for a subgroup if the participation rate is equal to or greater than 95.

For more information on meeting the participation criterion, see the *SIRS Policy Manual* at <http://www.emsc.nysed.gov/irts/SIRS/home.shtml>.

Calculating Performance Indices for ELA and Math at the Secondary Level

The following equation is used to determine the Performance Index for ELA and math at the secondary level:

$$\text{Performance Index} = 100 \times \left[\frac{\text{Count of Total Students Counted for 2004 Accountability Cohort Performing at Levels 2, 3, and 4} + \text{the Count at Levels 3 and 4}}{\text{Total Students Counted for 2004 Accountability Cohort}} \right]$$

Step 1: Open the District/School Summary Report (Report A) of the High School Accountability Verification Report and click on the district or school for which you want to determine Performance Indices.

	2008 Grade 12 Participation						2004 Accountability Cohort								2003 Graduation Cohort (through August 2007)				
	ELA			Math			ELA				Math				Diploma				
	Total Students Counted for Grade 12 Participation	Not tested	Tested	Not tested	Tested	Total Students Counted for Accountability Cohort	Level 1	Level 2	Level 3	Level 4	Level 1	Level 2	Level 3	Level 4	Total Students Counted for Graduation Cohort	Diploma	No Diploma		
District	000	Sample District	1,247	33	1,214	34	1,213	1,220	75	62	729	354	54	76	847	243	1,095	952	143
Schools in District	000	Sample School	383	9	374	6	377	376	31	25	221	99	21	28	283	44	344	282	62

Step 2: The Total Students Counted for 2004 Accountability Cohort and the Count Performing at Levels 2, 3, and 4 needed to calculate the Performance Index for each subgroup using the equation above are provided in the resulting District/School Subgroup Report (Report B). The sample below points to the numbers used to calculate the sample school's Performance Index for the All Students subgroup for ELA.

2008 Grade 12 Participation																	2004 Accountability Cohort								2003 Graduation Cohort (through August 2007)		
Students Counted for Grade 12 Participation	ELA				Math				Students Counted for Accountability Cohort	ELA				Math				Total Students Counted for Graduation Cohort	Diploma	No Diploma							
	Not tested	Tested	Not tested	Tested	Level 1	Level 2	Level 3	Level 4		Level 1	Level 2	Level 3	Level 4														
All Students	383	9	374	6	377	376	31	25	221	99	21	28	283	44	344	282	62										
Disability Status																											
Students with Disabilities	37	2	35	0	37	44	16	12	15	1	11	10	22	1	17	4	13										
Ethnicity																											
American Indian or Alaska Native	2	0	2	0	2	2	1	0	1	0	0	0	2	0	3	1	2										
Black or African American	37	0	37	1	36	37	6	2	27	2	6	2	27	2	37	26	11										
Hispanic or Latino	23	2	21	2	21	22	2	1	19	0	1	7	13	1	8	6	2										
Asian or Pacific Islander	9	1	8	0	9	11	2	2	5	2	1	5	4	1	8	7	1										
White	312	6	306	3	309	304	20	20	169	95	13	14	237	40	288	242	46										
English Proficiency																											

Step 3: Using the equation above, calculate the Performance Index.

For the sample school, the ELA Performance Index for All Students would be:

$$100 \times [(25 + 221 + 99 + 221 + 99) \div 376] = 100 \times (665 \div 376) = 176.8617 = 177$$

Subgroups meet the performance criterion if the Performance Index is equal to or greater than the Effective Annual Measurable Objective (see table below) or the Safe Harbor Target (see 2006–07 *Accountability and Overview Report* on www.nySTART.gov). For more information on meeting the performance criterion, see the *SIRS Policy Manual* at <http://www.emsc.nysed.gov/irts/SIRS/home.shtml>.

Calculating Graduation Rate

The following equation is used to determine the graduation rate at the secondary level:

$$\text{Graduation Rate} = 100 \times (\text{Count of 2003 Graduation Cohort with Diploma} \div \text{Total Students Counted for Graduation Cohort})$$

Step 1: Open the District/School Summary Report (Report A) of the High School Accountability Verification Report and click on the district or school for which you want to determine graduation rates.

2008 Grade 12 Participation		2004 Accountability Cohort												2003 Graduation Cohort (through August 2007)						
		ELA				Math				ELA				Math				Diploma		
Total Students Counted for Grade 12 Participation	Not tested	Tested	Not tested	Tested	Total Students Counted for Accountability Cohort	Level 1	Level 2	Level 3	Level 4	Level 1	Level 2	Level 3	Level 4	Total Students Counted for Graduation Cohort	Diploma	No Diploma				
District																				
000	Sample District	1,247	33	1,214	34	1,213	1,220	75	62	729	354	54	76	847	243	1,095	952	143		
Schools in District																				
000	Sample School	383	9	374	6	377	376	31	25	221	99	21	28	283	44	344	282	62		

Step 2: The 2003 Graduation Cohort with Diplomas and Total Students counted for Graduation Cohort needed to calculate the graduation rate for each subgroup using the equation above are provided in the resulting District/School Subgroup Report (Report B). The sample below points to the numbers used to calculate the sample school's graduation rate for the All Students subgroup.

	2008 Grade 12 Participation					2004 Accountability Cohort								2003 Graduation Cohort (through August 2007)				
	ELA		Math			ELA				Math				Total Students Counted for Graduation Cohort	Diploma			
	Students Counted for Grade 12 Participation	Not tested	Tested	Not tested	Tested	Students Counted for Accountability Cohort	Level 1	Level 2	Level 3	Level 4	Level 1	Level 2	Level 3		Level 4	Diploma	No Diploma	
12	All Students	383	9	374	6	377	376	31	25	221	99	21	28	283	44	344	282	62
13	Disability Status																	
14	Students with Disabilities	37	2	35	0	37	44	16	12	15	1	11	10	22	1	17	4	13
15	Ethnicity																	
16	American Indian or Alaska Native	2	0	2	0	2	2	1	0	1	0	0	0	2	0	3	1	2
17	Black or African American	37	0	37	1	36	37	6	2	27	2	6	2	27	2	37	26	11
18	Hispanic or Latino	23	2	21	2	21	22	2	1	19	0	1	7	13	1	8	6	2
19	Asian or Pacific Islander	9	1	8	0	9	11	2	2	5	2	1	5	4	1	8	7	1
20	White	312	6	306	3	309	304	20	20	169	95	13	14	237	40	288	242	46
21	English Proficiency																	

Step 3: Using the equation above, calculate the graduation rate.

For the sample school, the graduation rate for All Students would be:

$$100 \times (282 \div 344) = 100 \times 0.8197674 = 81.97674 = 82$$

Subgroups meet the graduation-rate criterion if the graduation rate is equal to or greater than 55 or the Progress Target (see 2006–07 *Accountability and Overview Report* on www.nySTART.gov). For more information on meeting the graduation-rate criterion, see the *SIRS Policy Manual* at <http://www.emsc.nysed.gov/irts/SIRS/home.shtml>.

Effective Annual Measurable Objectives for 2008–09 Status Based on 2007–08 Data

An Effective AMO is the lowest Performance Indicator (PI) that an accountability group of a given size can achieve in a subject for the group's PI not to be considered significantly different from the AMO for that subject. If an accountability group's PI equals or exceeds the Effective AMO, the group is considered to have made Annual Yearly Progress (AYP).

Measure /Subject	AMO	Number of Students Participating (Valid Scores)																	
		30-34	35-39	40-44	45-49	50-59	60-69	70-89	90-119	120-149	150-219	220-279	280-399	400-589	590-979	980-1899	1900-5299	5300+	
ELA 3-8	133	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	Effective AMOs
Math 3-8	102	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	
HS ELA	165	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	
HS Math	159	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	