

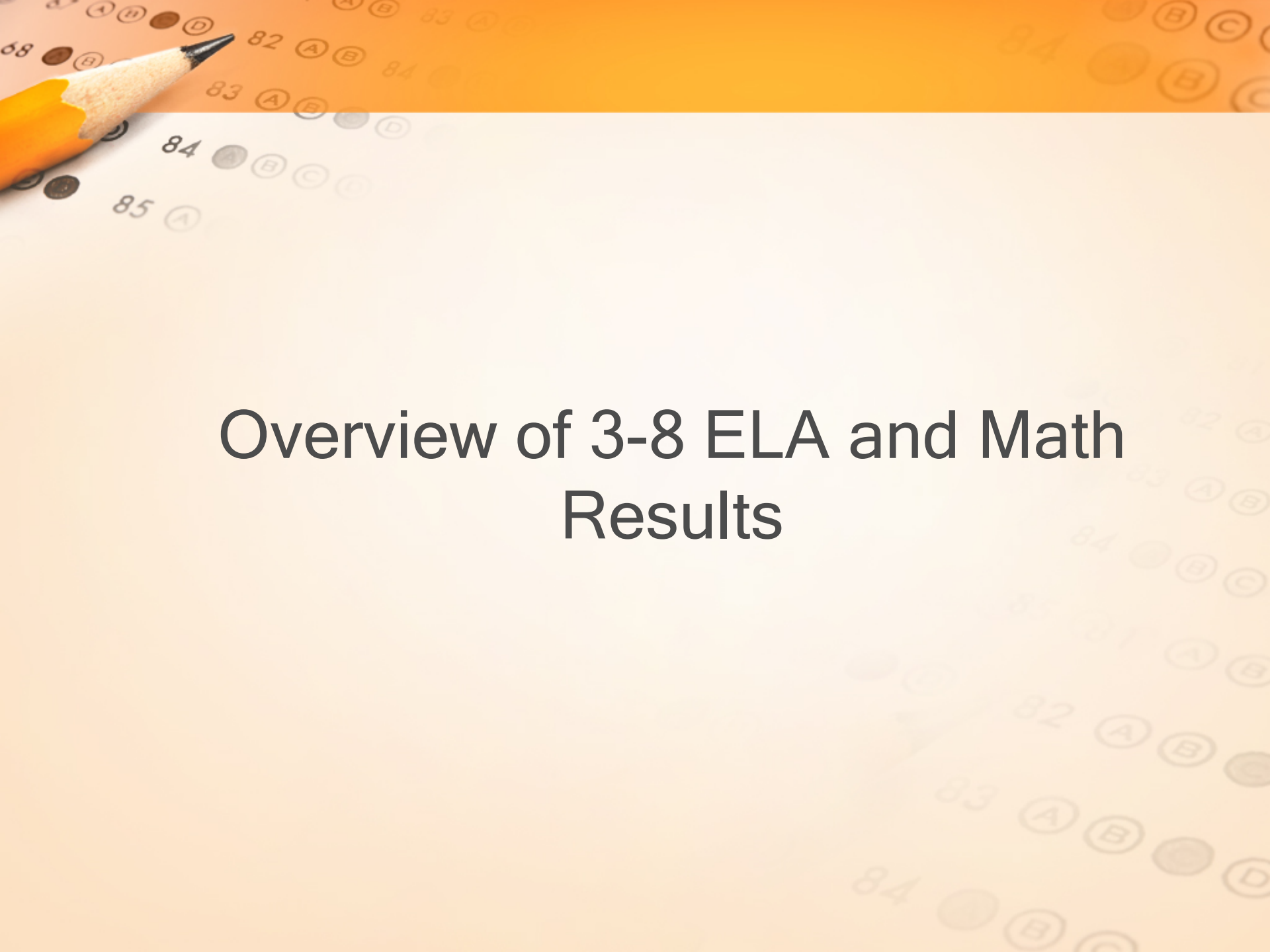
A close-up photograph of a yellow pencil with a sharpened lead tip, resting on a piece of paper. The paper has a grid of numbers and letters, including '68', '82', '85', and 'A'. The pencil is positioned diagonally across the frame. An orange semi-transparent banner is overlaid on the right side of the image, containing the title text.

# Measuring Student Growth

Presentation to the Board of Education, September 2013  
Todd Winch, Assistant Superintendent for C & I

# Changes to the 3-8 ELA and Math Assessment Program 2013

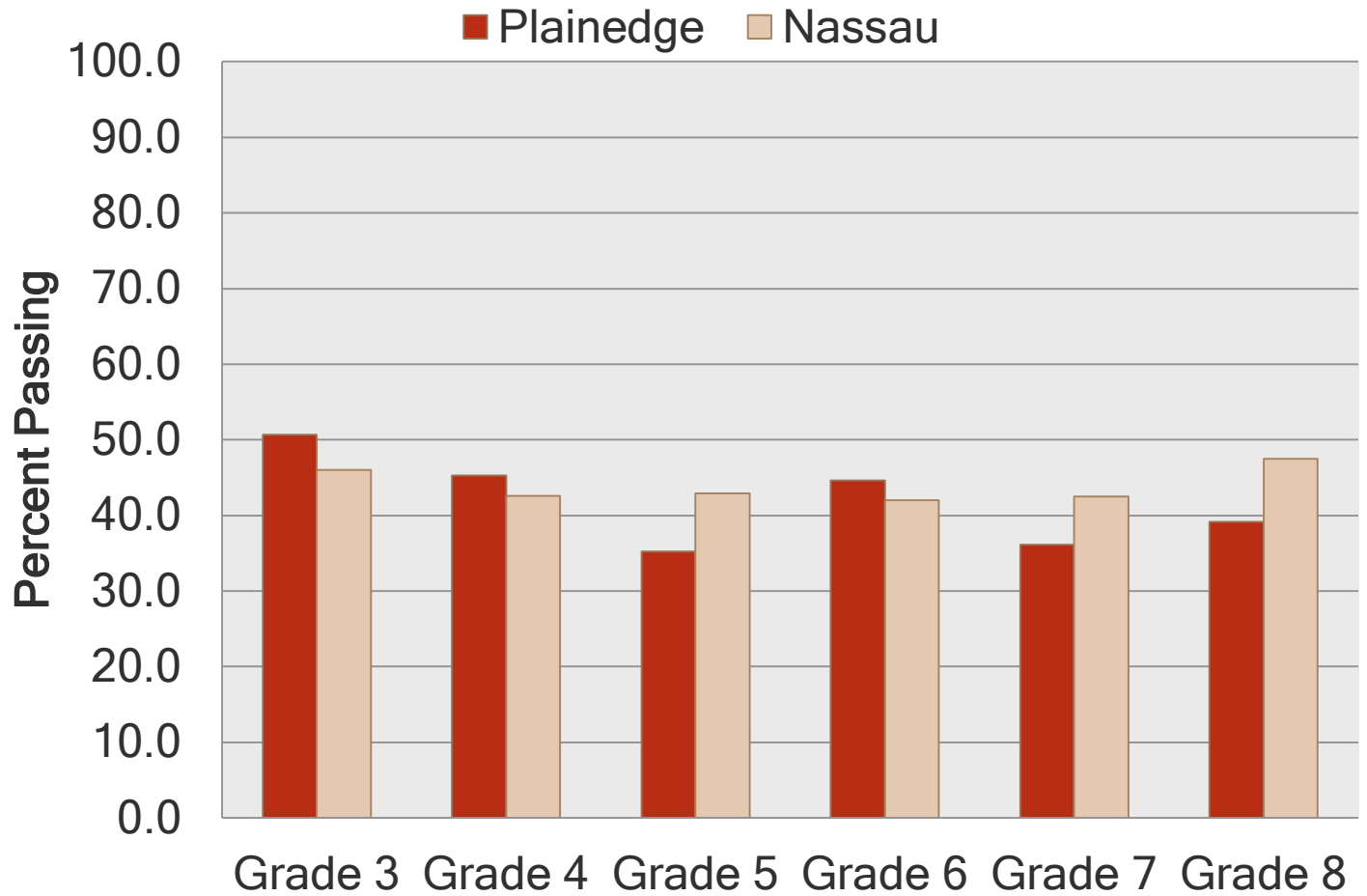
- New Common Core assessments
- Assessments tied more closely to NAEP
- Measures College and Career Ready Skills
- NYSED had predicted significant drops in proficiency scores as early as the beginning of the school year



# Overview of 3-8 ELA and Math Results



# 2013 3-8 ELA Passing Rates

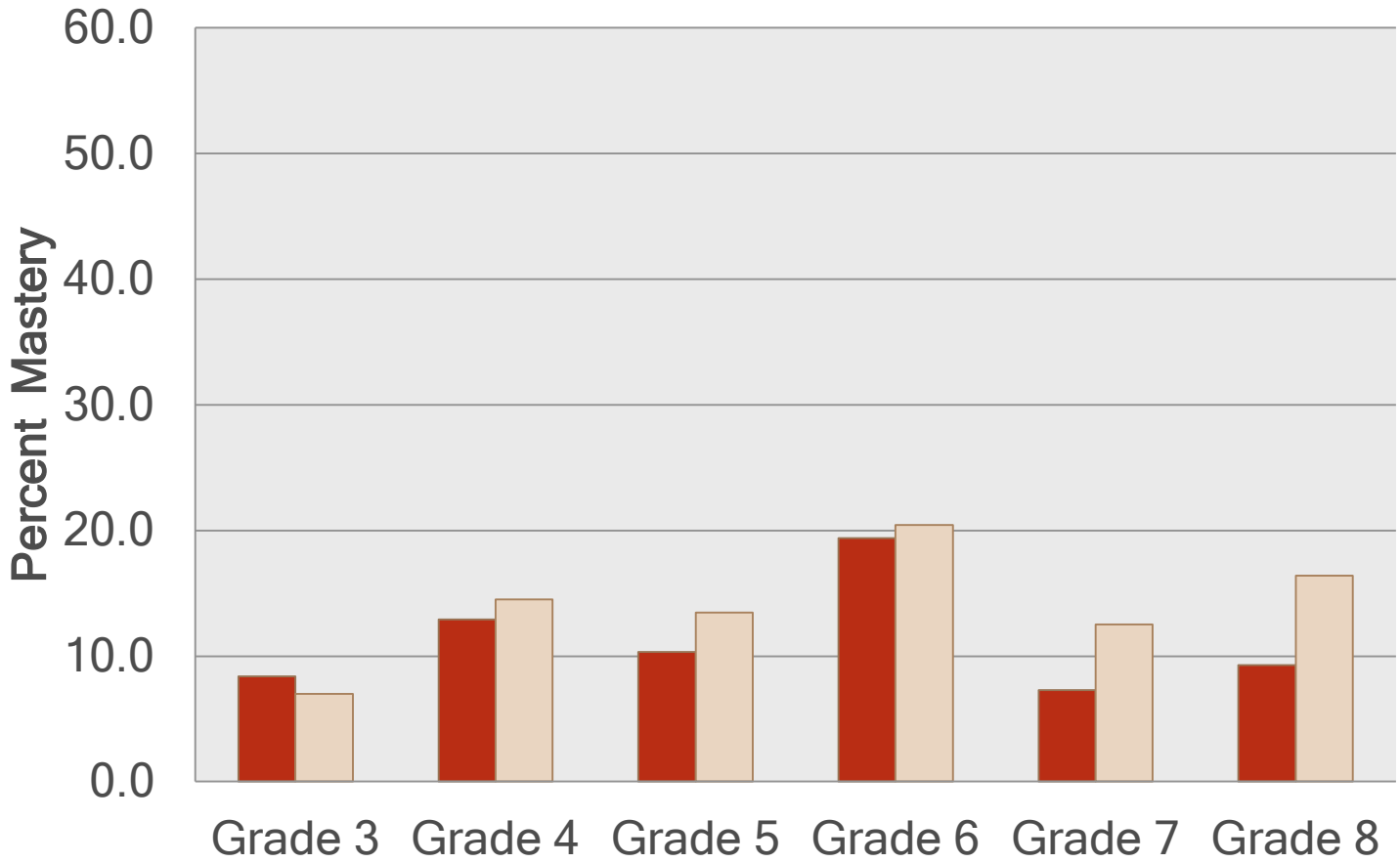


	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Plainedge	50.4	45.1	35.2	45.2	36.2	39.1
Nassau	46.0	42.6	42.9	42.0	42.5	47.5
Rank	24/53	25/53	39/53	24/53	32/45	33/45



# 2013 3-8 ELA Mastery Rates

■ Plainedge ■ Nassau

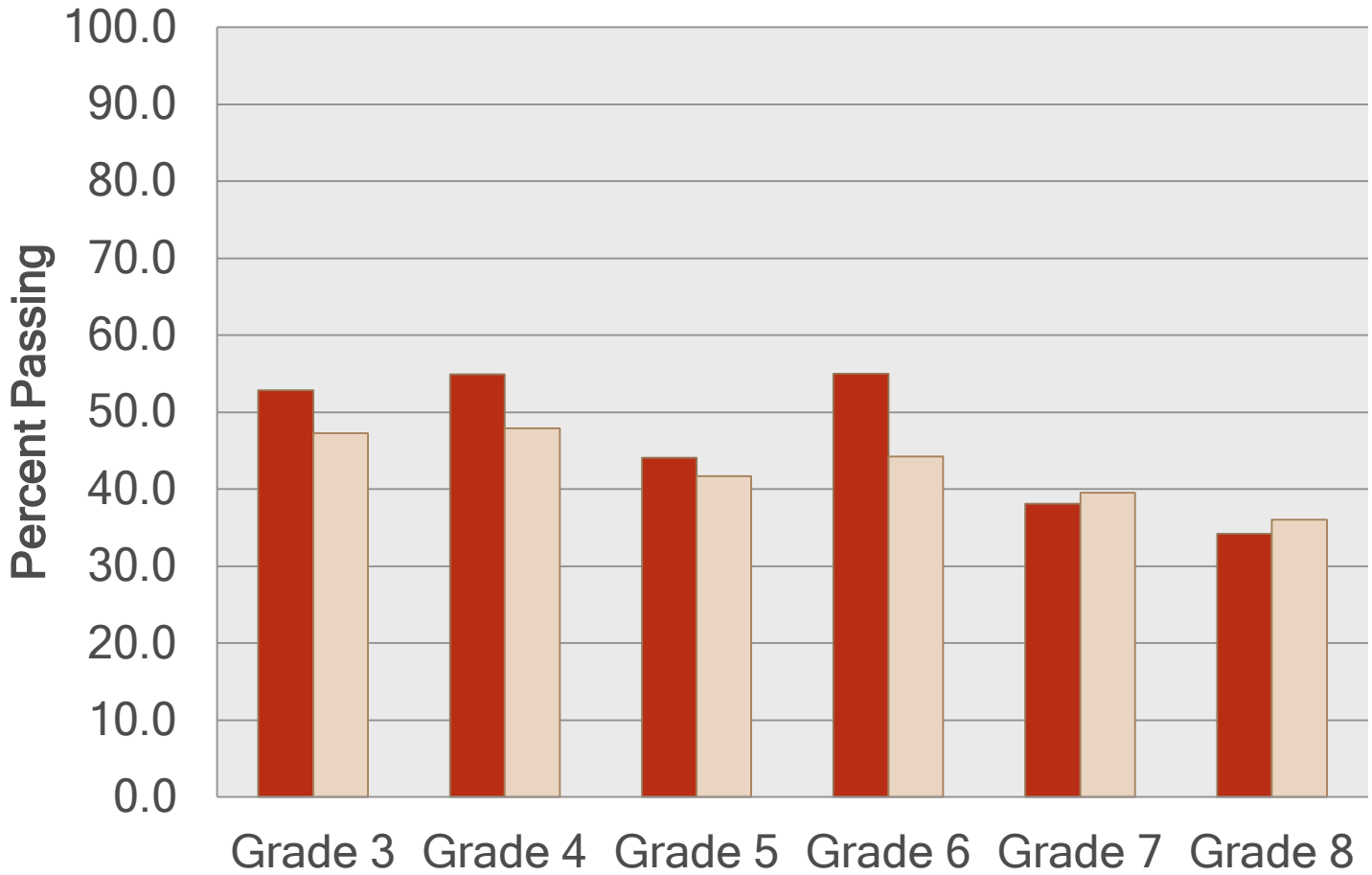


	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Plainedge	8.3	12.9	10.3	19.6	7.3	9.3
Nassau	7.0	14.5	13.4	20.4	12.5	16.4
Rank	20/53	28/53	40/53	28/53	34/45	33/45



# 2013 3-8 Math Passing Rates

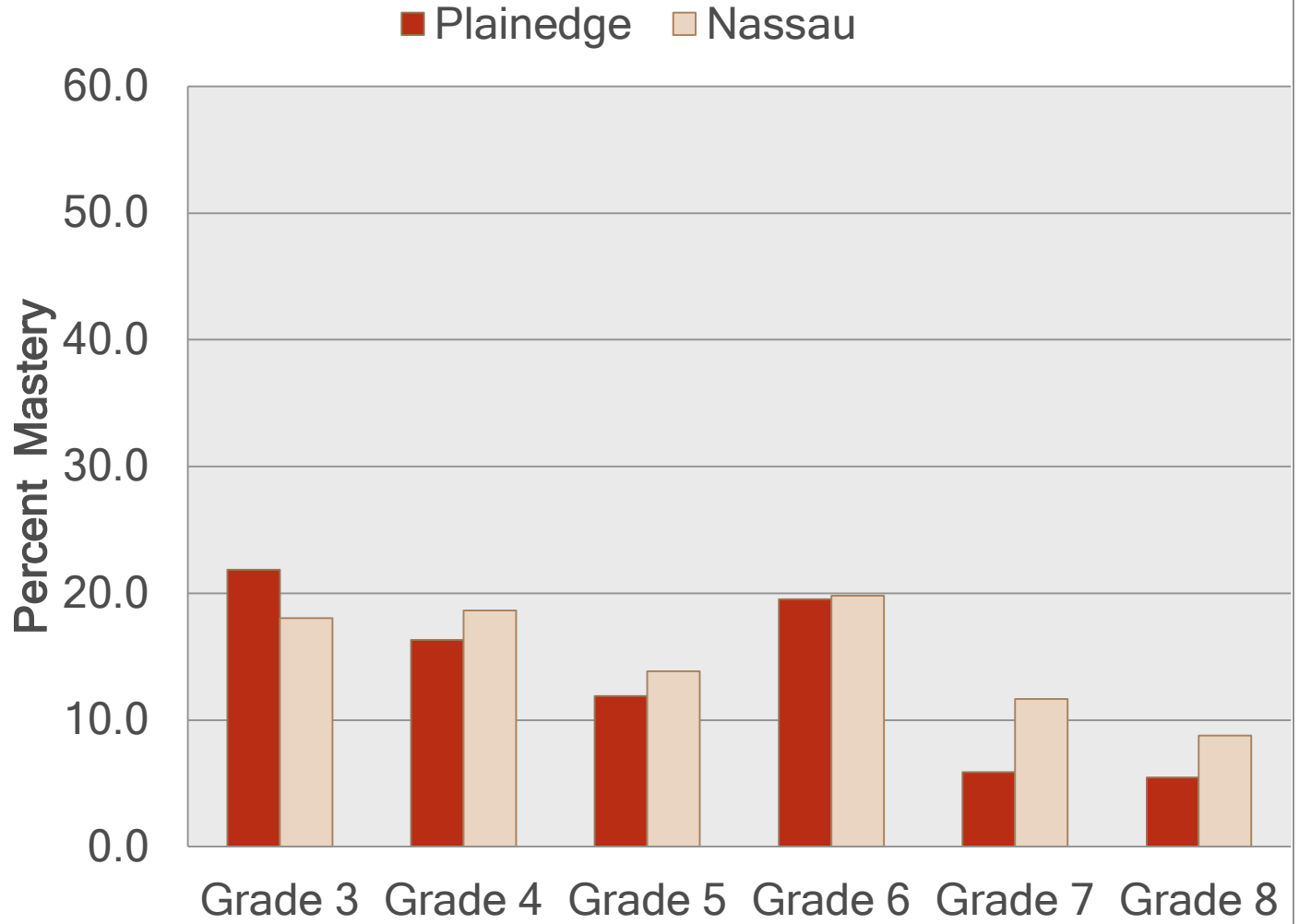
■ Plainedge ■ Nassau



	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Plainedge	52.6	54.7	44.1	55.4	38.3	34.2
Nassau	47.3	47.9	41.7	44.2	39.5	36.0
Rank	22/53	20/53	25/53	19/53	23/45	26/45



## 2013 3-8 Math Mastery Rates

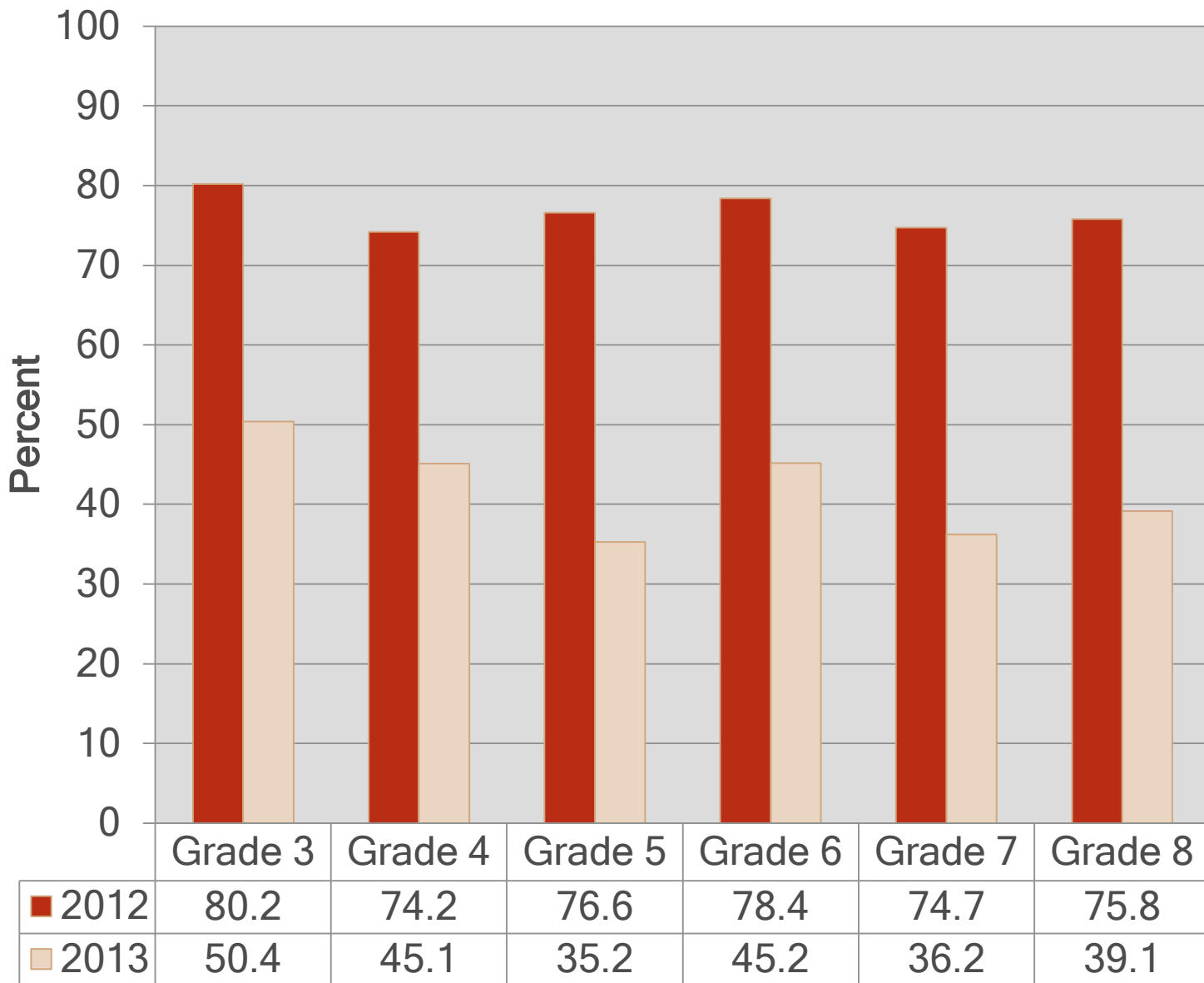


	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Plainedge	21.7	16.2	11.9	19.7	5.9	5.4
Nassau	18.0	18.6	13.8	19.8	11.6	8.8
Rank	19/53	32/53	27/53	25/53	28/45	28/45





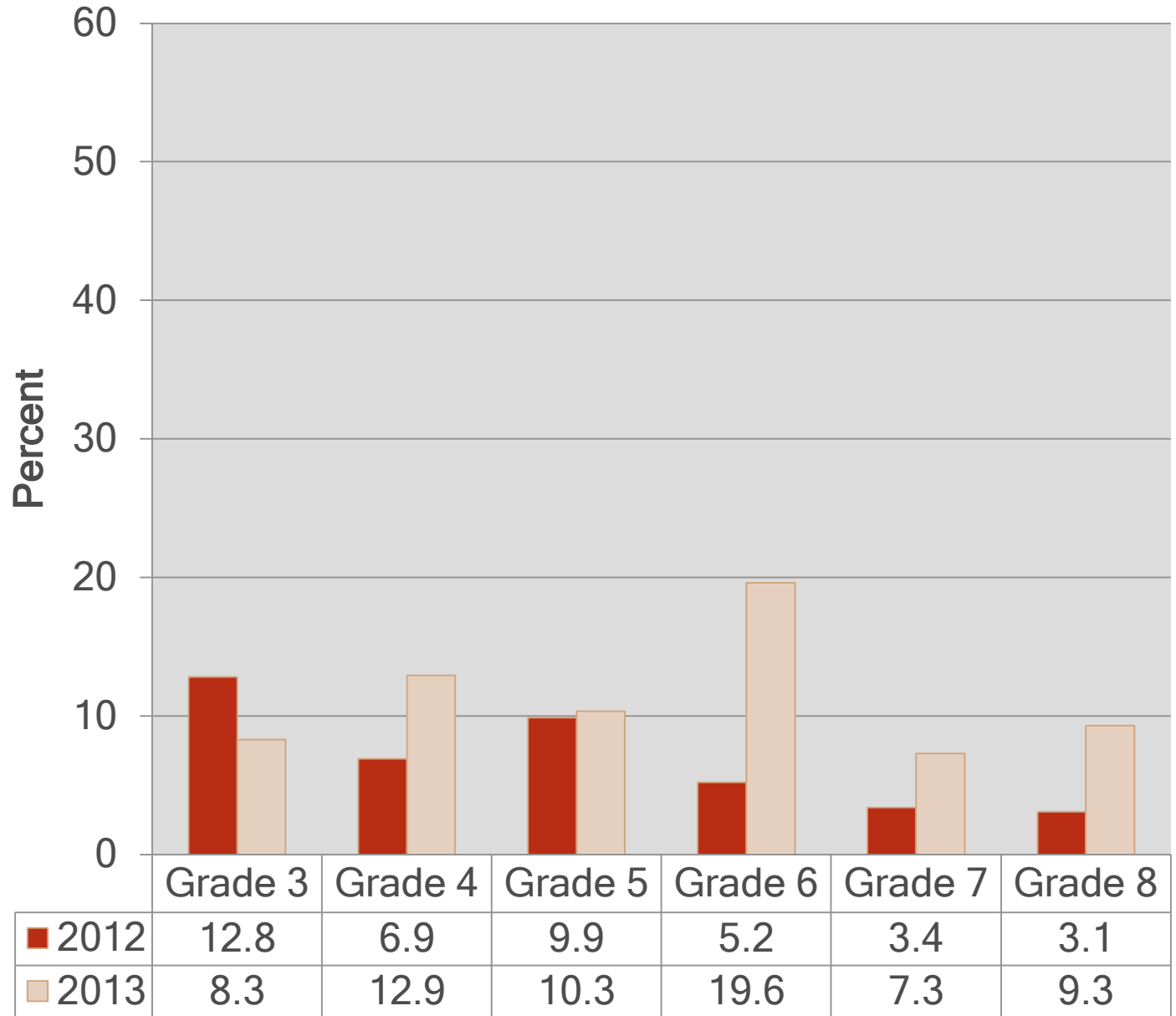
## Change in ELA Passing Rates 11/12 and 12/13





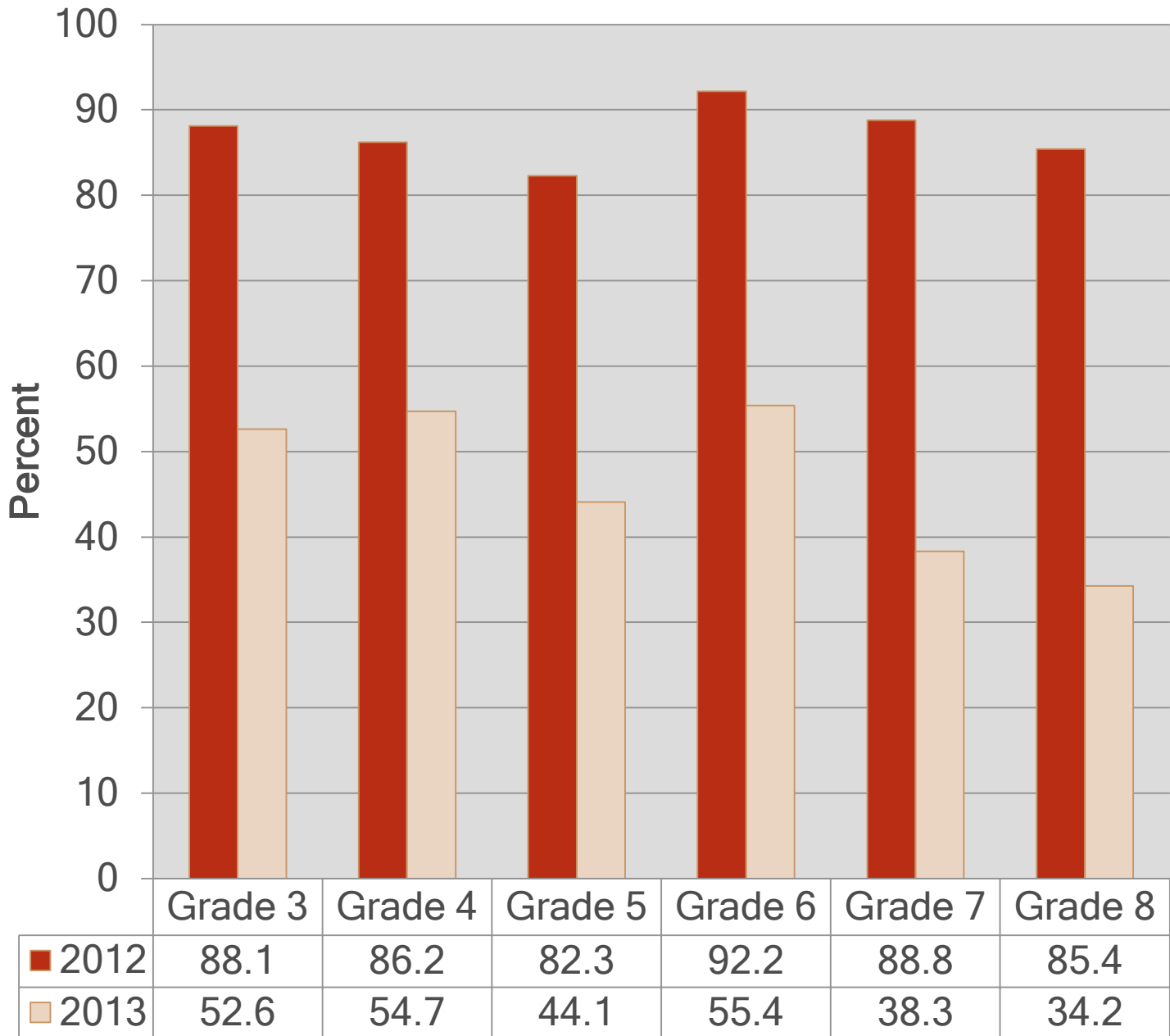


## Change in ELA Mastery Rates 11/12 and 12/13



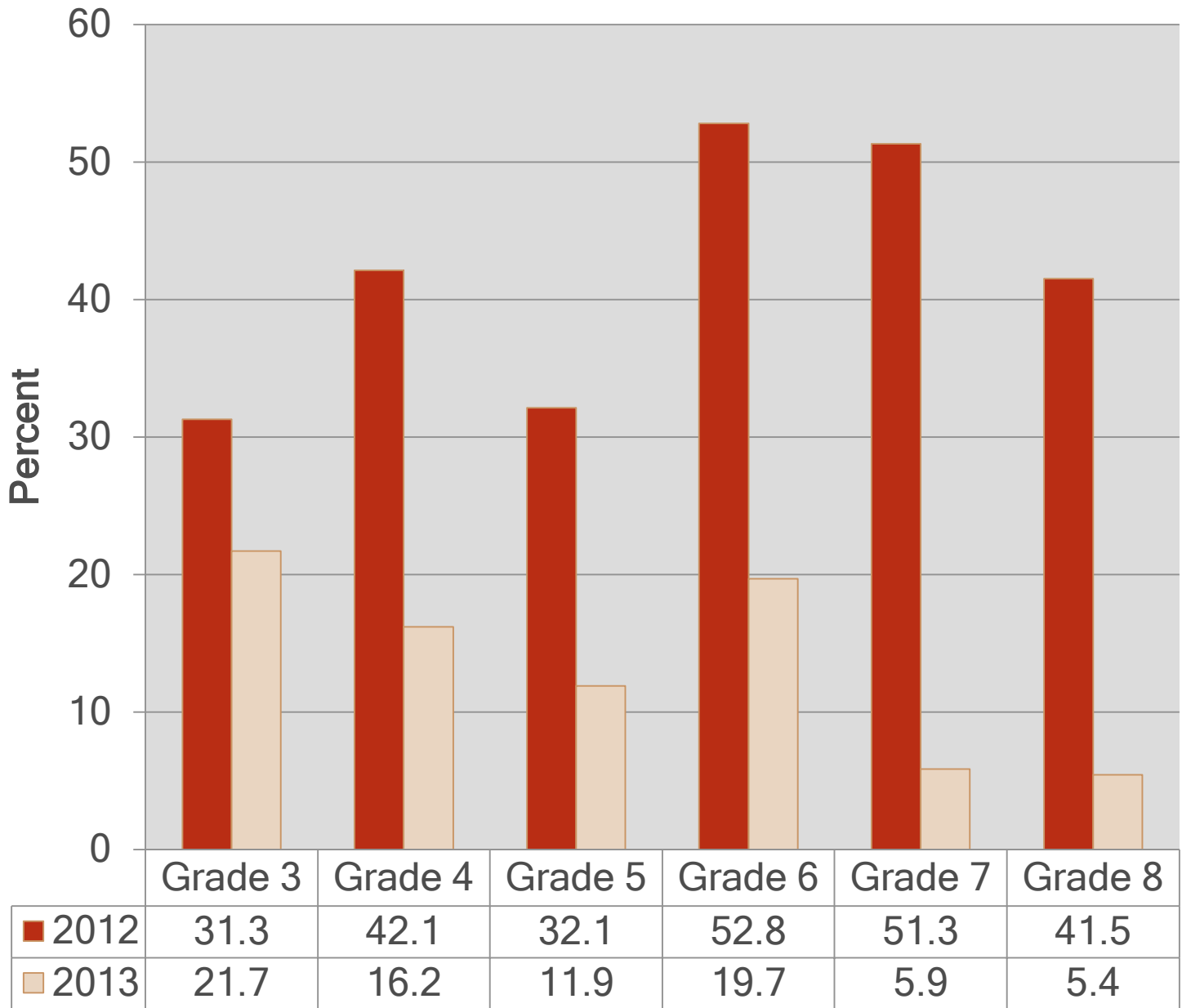


## Change in Math Passing Rates 11/12 and 12/13





## Change in Math Mastery Rates 11/12 and 12/13



A yellow pencil with a black eraser and a black ferrule is positioned diagonally in the upper left corner. The background is a light beige surface with a pattern of faint, repeating multiple-choice questions. Each question consists of a number (82, 83, 84, 85) followed by four options in circles (A, B, C, D). The text is centered in the middle of the page.

# ELA and Math Results by Grade Level

# Grade 3 ELA

	2012	2013
County Rank-Passing (53)	20	24
County Rank-Mastery (53)	27	20

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
BETHPAGE	Grade 3 ELA	64.1	-22.3	9.9	-12.2
PLAINEDGE	Grade 3 ELA	50.4	-29.8	8.3	-4.5
MASSAPEQUA	Grade 3 ELA	50	-32.6	7.2	-10.6
LEVITTOWN	Grade 3 ELA	49	-26	7.1	-1.5
ISLAND TREES	Grade 3 ELA	48.8	-35.5	6.2	-18.3
SEAFORD	Grade 3 ELA	33.4	-42.7	3.3	-8.4
FARMINGDALE	Grade 3 ELA	27.6	-36.2	1.4	-7.5
<i>NASSAU COUNTY</i>	<i>Grade 3 ELA</i>	<i>46</i>	<i>-26.5</i>	<i>7</i>	<i>-6.2</i>

# Grade 3 Math

	2012	2013
County Rank-Passing (53)	7	22
County Rank-Mastery (53)	7	19

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
MASSAPEQUA	Grade 3 Math	54.8	-30.8	20.4	-4.4
BETHPAGE	Grade 3 Math	53.1	-33.7	22.4	-7
PLAINEDGE	Grade 3 Math	52.6	-35.5	21.7	-9.6
ISLAND TREES	Grade 3 Math	50.6	-33.7	16.5	-14.3
LEVITTOWN	Grade 3 Math	50.4	-25.7	17.7	-1.1
SEAFORD	Grade 3 Math	36.6	-44.1	8.7	-10.5
FARMINGDALE	Grade 3 Math	34.1	-28.8	10.4	0.2
<i>NASSAU COUNTY</i>	<i>Grade 3 Math</i>	<i>47.3</i>	<i>-28.9</i>	<i>18</i>	<i>-2.8</i>

# Grade 4 ELA

	2012	2013
County Rank-Passing (53)	36	25
County Rank-Mastery (53)	33	28

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
MASSAPEQUA	Grade 4 ELA	54.5	-29.2	19.5	11.2
BETHPAGE	Grade 4 ELA	53.8	-38.2	19.3	-1.1
PLAINEDGE	Grade 4 ELA	45.1	-29.1	12.9	6
LEVITTOWN	Grade 4 ELA	42	-33.4	10.7	7.3
ISLAND TREES	Grade 4 ELA	41.2	-36.3	12.1	5.1
SEAFORD	Grade 4 ELA	36.7	-41.1	10	2.9
FARMINGDALE	Grade 4 ELA	33.9	-37.4	9.8	2.6
<i>NASSAU COUNTY</i>	<i>Grade 4 ELA</i>	<i>42.6</i>	<i>-32.2</i>	<i>14.5</i>	<i>6.4</i>



# Grade 4 Math

	2012	2013
County Rank-Passing (53)	26	20
County Rank-Mastery (53)	32	32

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
BETHPAGE	Grade 4 Math	61.1	-32.3	29.3	-26.2
PLAINEDGE	Grade 4 Math	54.7	-31.5	16.2	-25.9
MASSAPEQUA	Grade 4 Math	51.3	-39.7	16.5	-32.3
ISLAND TREES	Grade 4 Math	48.1	-19.9	16.4	-9.7
LEVITTOWN	Grade 4 Math	48	-33.8	17	-22.5
SEAFORD	Grade 4 Math	47.2	-34.1	16.1	-22.3
FARMINGDALE	Grade 4 Math	35.3	-41.6	12.2	-23
<i>NASSAU COUNTY</i>	<i>Grade 4 Math</i>	<i>47.9</i>	<i>-34.8</i>	<i>18.6</i>	<i>-24.1</i>

# Grade 5 ELA

	2012	2013
County Rank-Passing (53)	25	39
County Rank-Mastery (53)	24	40

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
MASSAPEQUA	Grade 5 ELA	55.9	-30.6	19.7	3.2
BETHPAGE	Grade 5 ELA	54.5	-19.4	20.4	13.3
ISLAND TREES	Grade 5 ELA	44	-38.6	11	-5.3
LEVITTOWN	Grade 5 ELA	39.3	-34.6	11.3	4.6
PLAINEDGE	Grade 5 ELA	35.2	-41.4	10.3	0.4
SEAFORD	Grade 5 ELA	31.4	-34.5	6.3	2.7
FARMINGDALE	Grade 5 ELA	27.9	-44.3	3.8	-4.5
<i>NASSAU COUNTY</i>	<i>Grade 5 ELA</i>	<i>42.9</i>	<i>-30.2</i>	<i>13.4</i>	<i>4.6</i>

# Grade 5 Math

	2012	2013
County Rank-Passing (53)	27	25
County Rank-Mastery (53)	40	27

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
MASSAPEQUA	Grade 5 Math	51.5	-38.8	13.9	-37.8
BETHPAGE	Grade 5 Math	48.1	-35.7	21.2	-24.9
PLAINEDGE	Grade 5 Math	44.1	-38.2	11.9	-20.2
LEVITTOWN	Grade 5 Math	41.7	-36.6	11	-22.3
FARMINGDALE	Grade 5 Math	29.3	-48.2	7.2	-31.1
SEAFORD	Grade 5 Math	27.7	-50.7	5.9	-24
ISLAND TREES	Grade 5 Math	23.5	-56.5	6.5	-31.6
<i>NASSAU COUNTY</i>	<i>Grade 5 Math</i>	<i>41.7</i>	<i>-38.8</i>	<i>13.8</i>	<i>-27.2</i>

# Grade 6 ELA

	2012	2013
County Rank-Passing (53)	21	24
County Rank-Mastery (53)	18	28

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
MASSAPEQUA	Grade 6 ELA	52.5	-30.2	25.6	21.7
BETHPAGE	Grade 6 ELA	51.3	-25.1	25.9	24.2
PLAINEDGE	Grade 6 ELA	45.2	-33.2	19.6	14.4
ISLAND TREES	Grade 6 ELA	41.6	-30.6	24.7	23.6
SEAFORD	Grade 6 ELA	39.1	-33.1	14.7	12.6
LEVITTOWN	Grade 6 ELA	35	-38.4	14.6	10.3
FARMINGDALE	Grade 6 ELA	27	-38.8	7.6	2.5
<i>NASSAU COUNTY</i>	<i>Grade 6 ELA</i>	<i>42</i>	<i>-28.8</i>	<i>20.4</i>	<i>15.8</i>

# Grade 6 Math

	2012	2013
County Rank-Passing (53)	8	19
County Rank-Mastery (53)	22	25

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
MASSAPEQUA	Grade 6 Math	61.8	-31.3	28.6	-29.7
BETHPAGE	Grade 6 Math	58.8	-26.1	25.5	-28.8
PLAINEDGE	Grade 6 Math	55.4	-36.8	19.7	-33.1
ISLAND TREES	Grade 6 Math	47.8	-37.5	19.4	-24.8
FARMINGDALE	Grade 6 Math	31.9	-42.8	13.2	-21.7
LEVITTOWN	Grade 6 Math	30.9	-48.1	11	-22.9
SEAFORD	Grade 6 Math	27.9	-56.6	5.8	-33.8
<i>NASSAU COUNTY</i>	<i>Grade 6 Math</i>	<i>44.2</i>	<i>-35.2</i>	<i>19.8</i>	<i>-25.7</i>

# Grade 7 ELA

	2012	2013
County Rank-Passing (45)	19	32
County Rank-Mastery (45)	32	34

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
MASSAPEQUA	Grade 7 ELA	56.7	-26.3	20.5	7.5
BETHPAGE	Grade 7 ELA	48.5	-22.9	14.5	4.9
SEAFORD	Grade 7 ELA	46.1	-28.2	13.1	8.8
ISLAND TREES	Grade 7 ELA	41.8	-30.8	11.1	4.6
LEVITTOWN	Grade 7 ELA	36.6	-25.6	7.7	5.1
PLAINEDGE	Grade 7 ELA	36.2	-38.5	7.3	3.9
FARMINGDALE	Grade 7 ELA	26.1	-33.5	5.5	2.8
<i>NASSAU COUNTY</i>	<i>Grade 7 ELA</i>	<i>42.5</i>	<i>-24.9</i>	<i>12.5</i>	<i>7</i>

# Grade 7 Math

	2012	2013
County Rank-Passing (45)	15	23
County Rank-Mastery (45)	16	28

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
MASSAPEQUA	Grade 7 Math	48.6	-43.6	12.2	-44.7
PLAINEDGE	Grade 7 Math	38.3	-50.5	5.9	-45.4
BETHPAGE	Grade 7 Math	36.3	-43.7	3.8	-41.8
LEVITTOWN	Grade 7 Math	35.3	-44.5	9	-26.8
ISLAND TREES	Grade 7 Math	30.7	-54.9	3.2	-41.2
SEAFORD	Grade 7 Math	30.3	-55.2	2.9	-45.2
FARMINGDALE	Grade 7 Math	24.8	-49.1	3.6	-29.5
<i>NASSAU COUNTY</i>	<i>Grade 7 Math</i>	<i>39.5</i>	<i>-39.4</i>	<i>11.6</i>	<i>-32.1</i>



# Grade 8 ELA


	2012	2013
County Rank-Passing (45)	17	33
County Rank-Mastery (45)	24	33

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
MASSAPEQUA	Grade 8 ELA	60.1	-15.9	23.9	21.1
SEAFORD	Grade 8 ELA	57.3	-19.7	17.6	15.1
BETHPAGE	Grade 8 ELA	57	-22.8	22.7	17.3
ISLAND TREES	Grade 8 ELA	52.7	-7	21.3	18.2
LEVITTOWN	Grade 8 ELA	41.3	-21.2	11.2	9.1
PLAINEDGE	Grade 8 ELA	39.1	-36.7	9.3	6.2
FARMINGDALE	Grade 8 ELA	32.9	-23.9	5.9	3.8
<i>NASSAU COUNTY</i>	<i>Grade 8 ELA</i>	<i>47.5</i>	<i>-18</i>	<i>16.4</i>	<i>13.2</i>

# Grade 8 Math

	2012	2013
County Rank-Passing (45)	15	26
County Rank-Mastery (45)	13	28

District	Test	Passing Rate	Passing Difference	Mastery Rate	Mastery Difference
ISLAND TREES	Grade 8 Math	49.2	-23.9	7.4	-16.5
SEAFORD	Grade 8 Math	48.2	-41.3	4.7	-27.8
BETHPAGE	Grade 8 Math	42.1	-44.3	11.1	-29.8
MASSAPEQUA	Grade 8 Math	41.4	-46	7.1	-23.7
PLAINEDGE	Grade 8 Math	34.2	-51.2	5.4	-36.1
LEVITTOWN	Grade 8 Math	30.3	-38.5	7	-6.2
FARMINGDALE	Grade 8 Math	14.7	-50.7	1.1	-18.5
<i>NASSAU COUNTY</i>	<i>Grade 8 Math</i>	<i>36</i>	<i>-39.2</i>	<i>8.8</i>	<i>-20.4</i>



# Concerns Related to Longitudinal Use of NYS Assessments

“As I have said in a recent memo to each of you, these new proficiency rates do not mean that teachers are teaching less or that students are learning less.”

Commissioner King, August 7, 2013, letter to superintendents

“I want to make it very clear that the change in test scores (including, possibly, one in your child's score) does not mean that students are learning less or that teachers and schools are performing worse than last year. Proficiency rates – the percentage of students meeting or exceeding the standards – on the new Common Core assessments cannot be compared with last year’s proficiency results since the old scores are from an old test based on the former standards.”

Commissioner King, August 7, 2013, letter to parents

There are those who will use the change in students' proficiency rates to attack teachers and principals. That's just plain wrong. I've said over and over again: the change in proficiency rates does not mean teachers are teaching less or that students are learning less than last year.

Commissioner King, August 7, 2013, letter to parents

A yellow pencil with a black eraser and a black ferrule is positioned diagonally in the upper left corner. The background is a multiple-choice test paper with an orange header and a white body. The test paper contains several rows of questions, each with a number and four options labeled A, B, C, and D. The text "Other Measures of Progress" is centered on the white background in a large, black, sans-serif font.

# Other Measures of Progress



# NWEA - Measures of Academic Progress

- Created in 1977 as a non-profit organization
- Administering computer adapted assessments for nearly 30 years
- Assessments are Common Core aligned
- Millions of students across the county are assessed using the MAP test annually
- Nearly 50% of Nassau County districts use NWEA



# Benefits of Using NWEA

- Stability and reliability of the assessment
- Grade independent
- Descartes rubric for instructional recommendations
- Easy to understand parent reports
- Growth can be measured from Kindergarten through Grade 8
- Structure prepares students for PARCC assessments



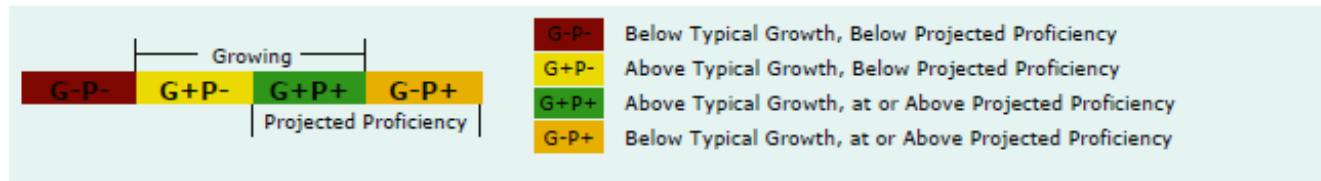
Skills and concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
Reason with Shapes, Attributes, & Coordinate Plane <ul style="list-style-type: none"> <li>• Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)</li> <li>• Identifies lines</li> <li>• Identifies parallel lines</li> <li>• Uses models to compare angles relative to right angles</li> <li>• Identifies right angles</li> <li>• Identifies and names a pentagon</li> <li>• Identifies corners (vertices) of cubes</li> <li>• Identifies the number of faces on rectangular prisms</li> <li>• Identifies and names a cylinder</li> <li>• Identifies and names a sphere</li> <li>• Sorts 2-D shapes and objects according to their attributes</li> <li>• Creates a new shape by combining different shapes, or identifies the different shapes that were used to make the original shape</li> <li>• Identifies plane figures with line symmetry</li> <li>• Identifies the number of lines of symmetry in plane figures</li> </ul>	Reason with Shapes, Attributes, & Coordinate Plane <ul style="list-style-type: none"> <li>• Graphs ordered pairs in the first quadrant</li> <li>• Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph)</li> <li>• Determines the distance between horizontal and vertical lines in the first quadrant of a rectangular coordinate system</li> <li>• Determines the distance between points, following grid lines, in the first quadrant on a coordinate graph (as in city blocks)</li> <li>• Locates the origin on a coordinate grid</li> <li>• Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents</li> <li>• Identifies parallel lines</li> <li>• Uses models to compare angles relative to right angles</li> <li>• Identifies and names a parallelogram</li> <li>• Identifies and names a trapezoid</li> <li>• Identifies and names a hexagon</li> <li>• Classifies polygons by number of sides</li> <li>• Classifies polygons by sides and angles</li> <li>• Identifies corners (vertices) of cubes</li> <li>• Classifies cubes by their properties (e.g., edges with equal lengths, faces with equal areas and congruent shapes, right angle corners)</li> <li>• Identifies and names a cylinder</li> <li>• Classifies plane figures by the number of lines of symmetry</li> </ul>	Reason with Shapes, Attributes, & Coordinate Plane <ul style="list-style-type: none"> <li>• Determines the distance between horizontal and vertical lines in the first quadrant of a rectangular coordinate system</li> <li>• Locates the origin on a coordinate grid</li> <li>• Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents</li> <li>• Identifies rays</li> <li>• Identifies perpendicular lines</li> <li>• Identifies acute angles</li> <li>• Identifies obtuse angles</li> <li>• Identifies and names a trapezoid</li> <li>• Identifies and names a rhombus</li> <li>• Identifies and names a quadrilateral</li> <li>• Classifies polygons by type of angle</li> <li>• Identifies corners (vertices) of cubes</li> <li>• Identifies the number of edges on rectangular prisms</li> <li>• Predicts and verifies the effects of combining or subdividing basic shapes</li> </ul>
<i>New Vocabulary:</i> face, grid, intersect, large, parallel, vertical line	<i>New Vocabulary:</i> coordinate point, edge, origin, parallel line, regular polygon, trapezoid	<i>New Vocabulary:</i> acute angle, congruent angle, obtuse angle, straight angle
<i>New Signs and Symbols:</i> ( ) ordered pair, • point	<i>New Signs and Symbols:</i> ° degrees	<i>New Signs and Symbols:</i> ∠ angle, angle marker (arc)

# SAMPLE DESCARTES RUBRIC

#### Explanatory Notes

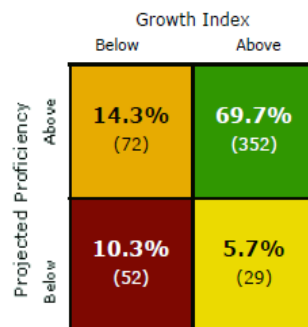
\* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.



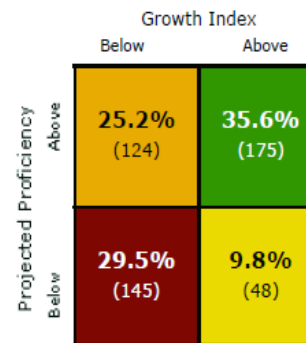


		Projected Performance and Growth Distribution				Growth		Projected Performance		Median
		Percent				Fall 12 - Spring 13		Spring 2013		Percent
						Count/Percent		Count/Percent		
<b>Reading</b>		29.5	9.8	35.6	25.2	492	45.3	505	60.6	62.4
Plainedge Middle Sch		29.5	9.8	35.6	25.2	492	45.3	505	60.6	62.4
<b>Mathematics</b>		10.3	5.7	69.7	14.3	505	75.4	517	83.8	73.1
Plainedge Middle Sch		10.3	5.7	69.7	14.3	505	75.4	517	83.8	73.1

MATH



READING





# Moving Forward

- Continue to work to implement Common Core Standards in grades K-12:
  - NYSED ELA Consultant working with Middle and High School teachers once per quarter this year
  - Middle School implementing use of State created ELA Teaching Modules
  - Implementing Pacing Guides in Elementary classes to support *Journeys* and *GoMath* programs
  - Common Core ELA Curriculum Writing is ongoing in grades 9-10

# Moving Forward

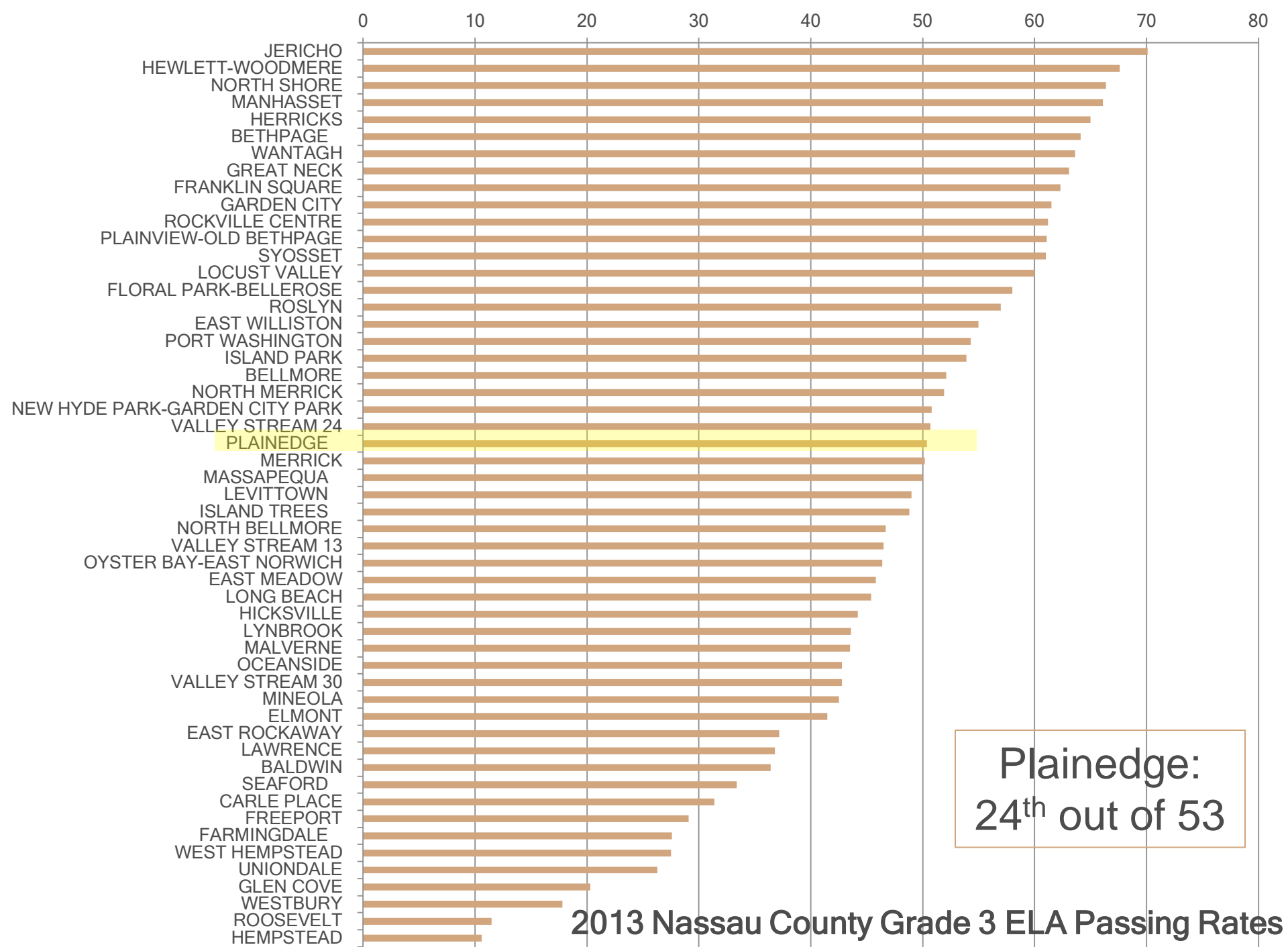
- Expanded use of NWEA in grades K-8 to create a continuum of stable growth for determining student needs as well as program review
- Expanded use of eSpark for students in grades 5 & 6, as well as for remedial students in grade 4
- Once NYSED releases more in-depth information related to the 3-8 assessments, we will review the data to determine focus areas, which could include additional materials, technology and/or instructional time



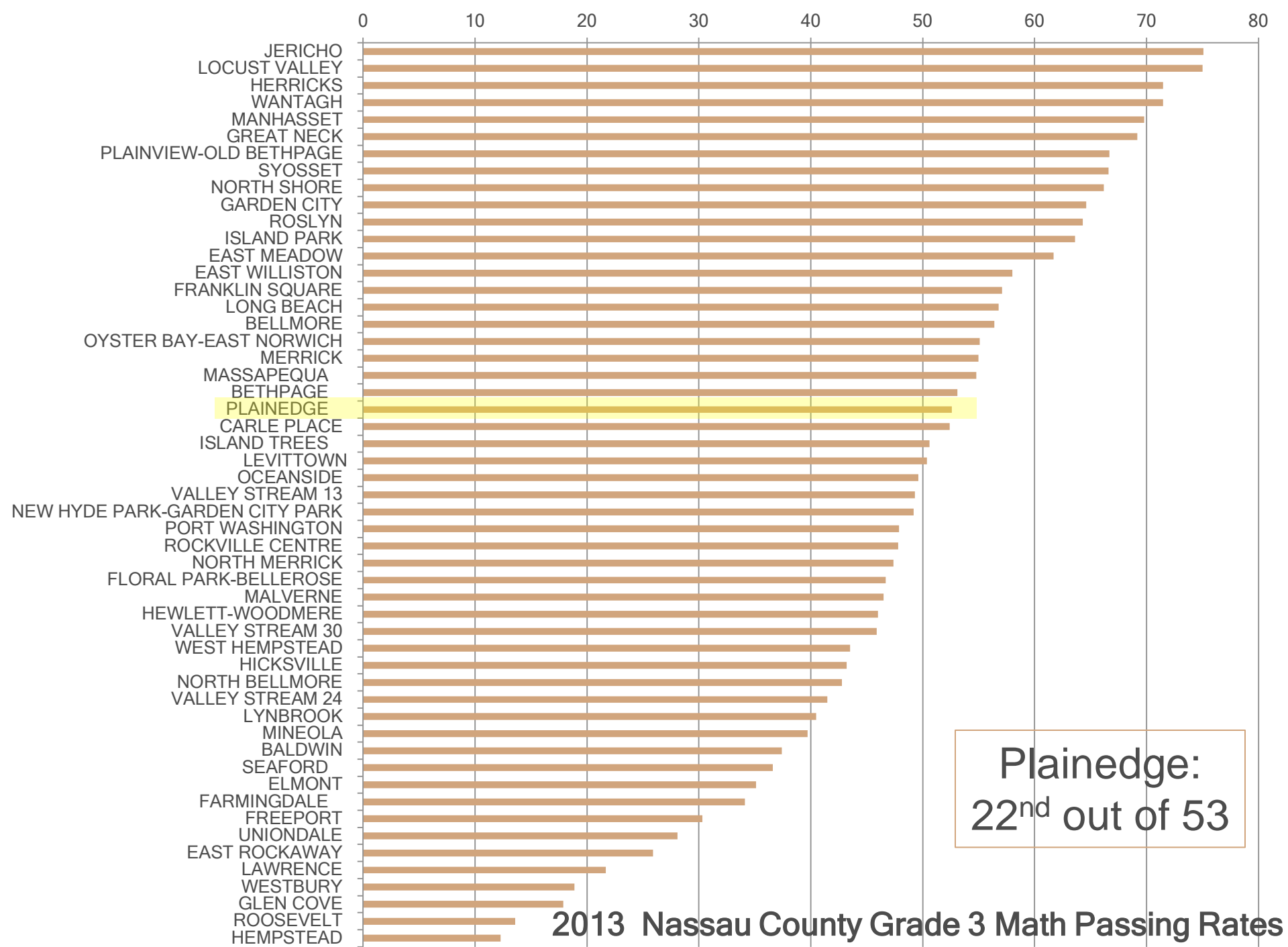
# Appendix

Ancillary Materials for the Board of Education Only:

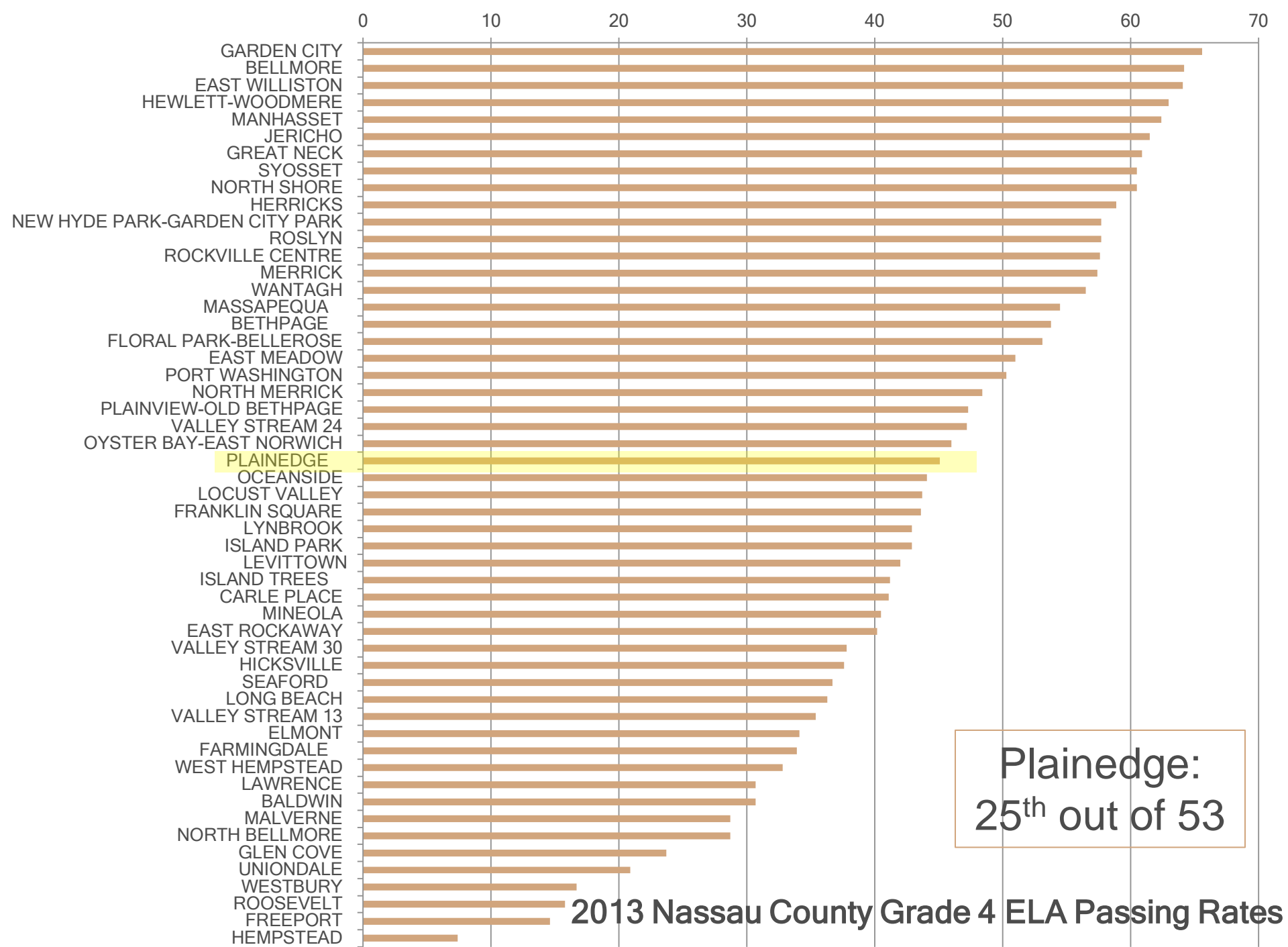
*ELA and Math Results by Grade Level- Nassau  
County Rank Graphs*



**Plainedge:  
24<sup>th</sup> out of 53**

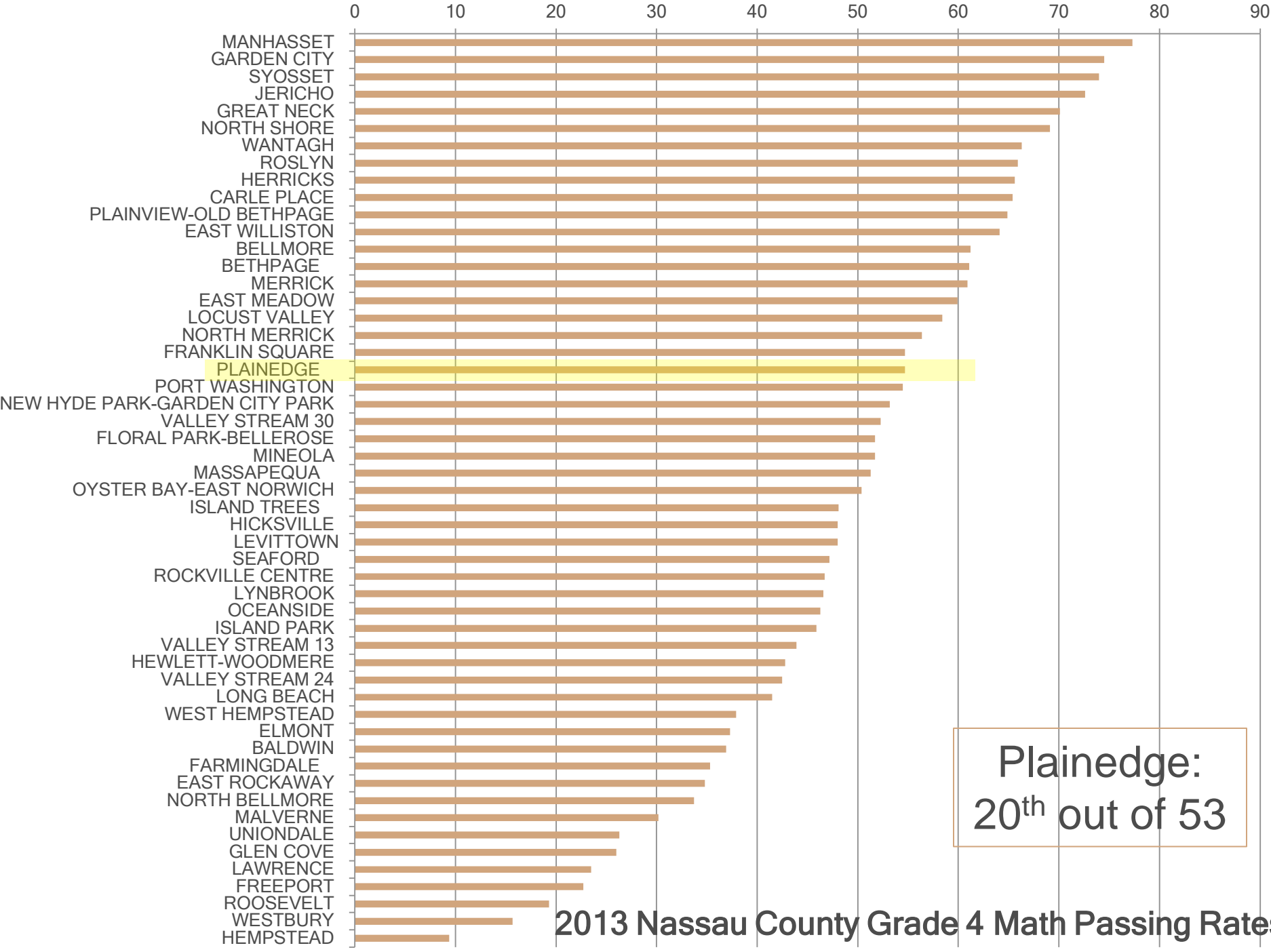


**Plainedge:**  
**22<sup>nd</sup> out of 53**

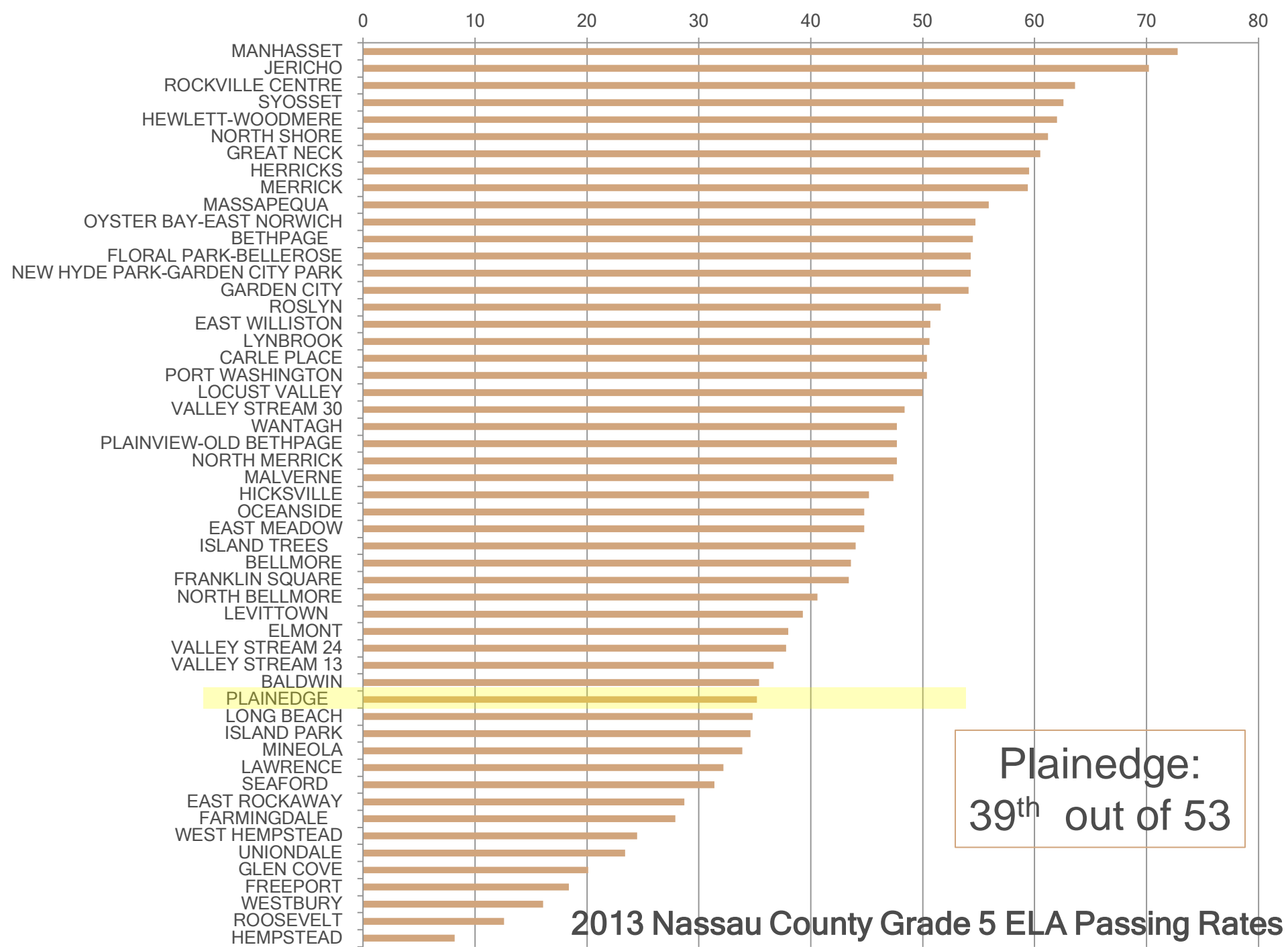


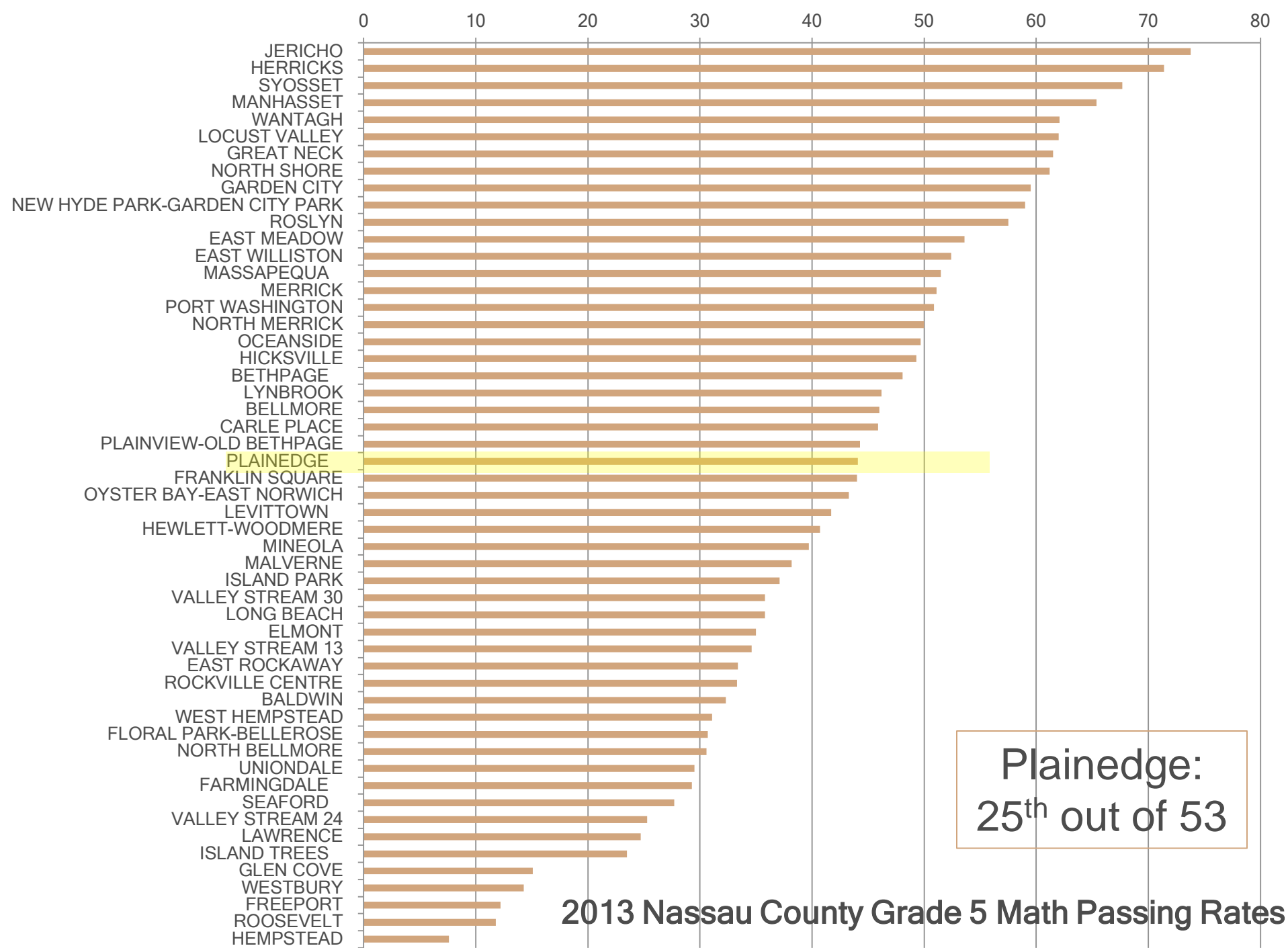
Plainedge:  
25<sup>th</sup> out of 53

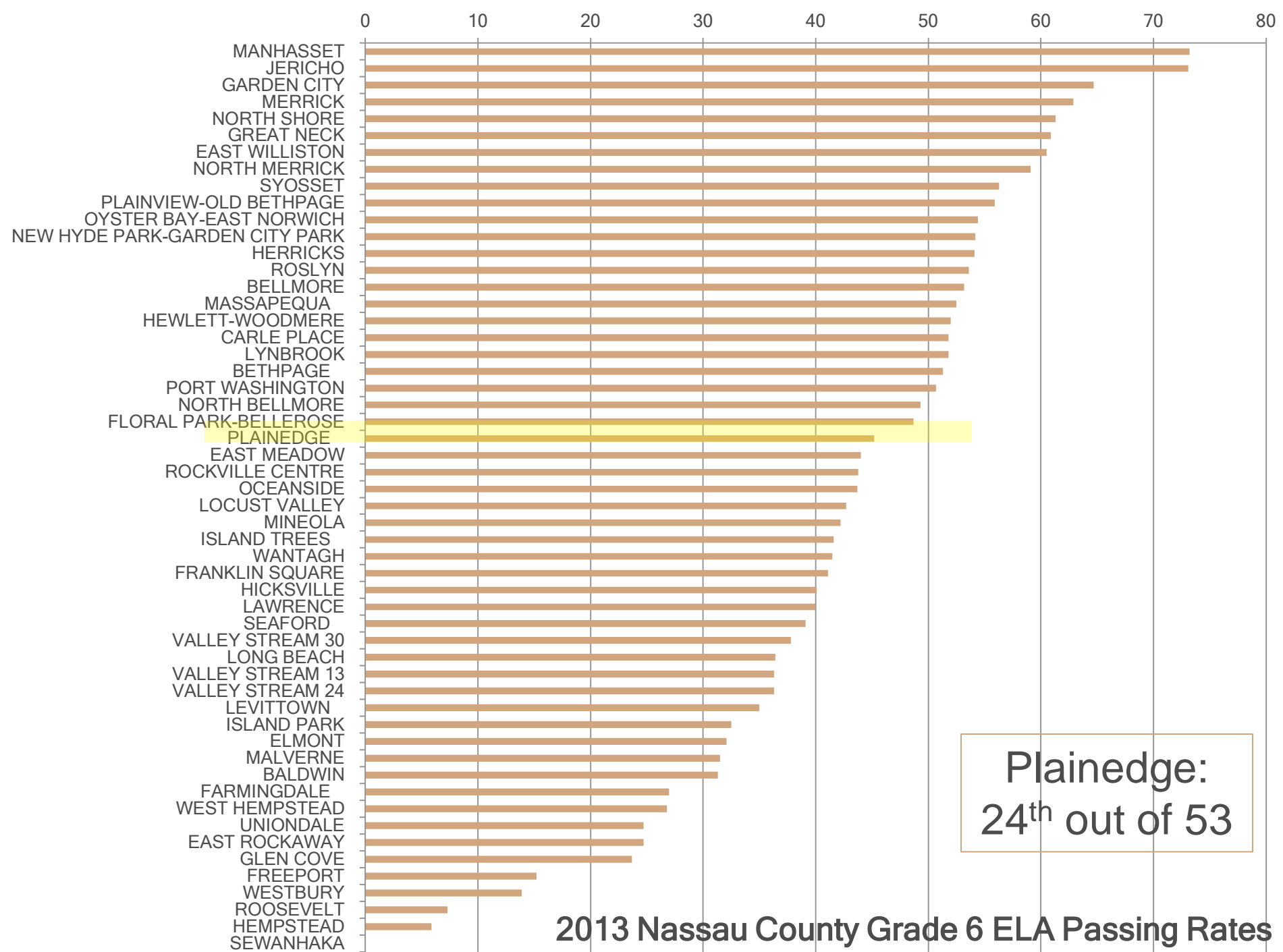




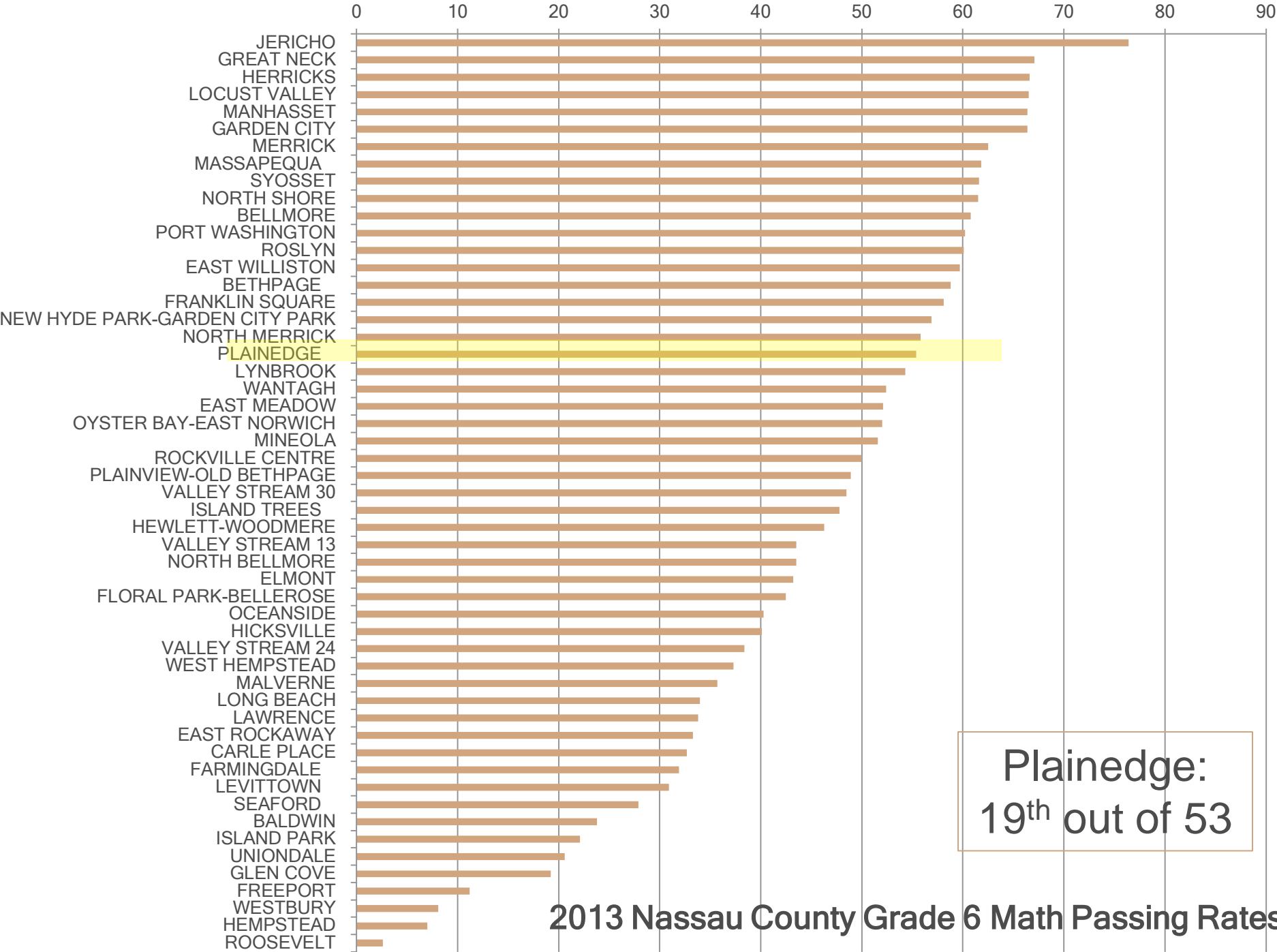
**Plainedge:  
20<sup>th</sup> out of 53**





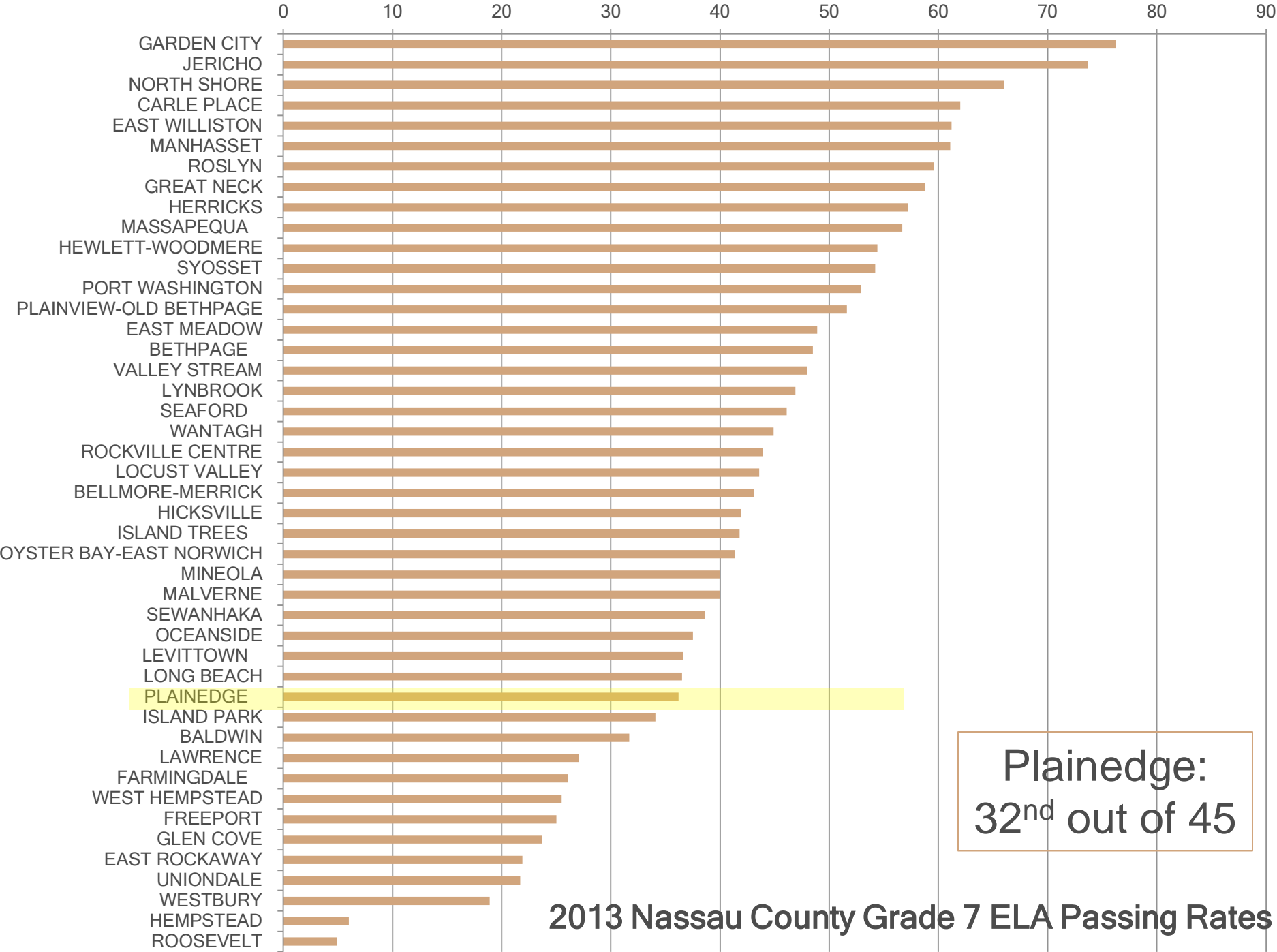


**Plainedge:  
24<sup>th</sup> out of 53**

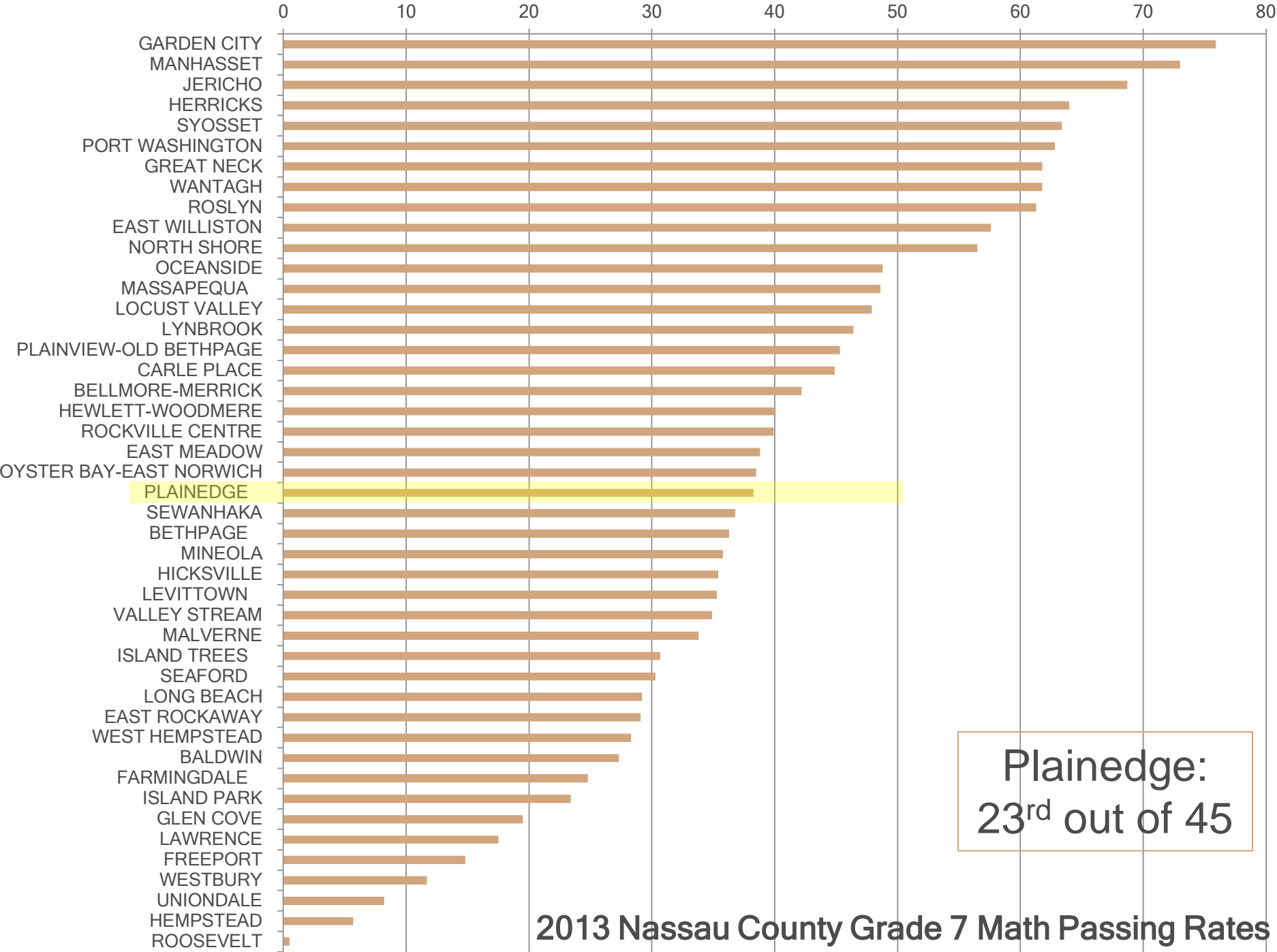


Plainedge:  
19<sup>th</sup> out of 53

2013 Nassau County Grade 6 Math Passing Rates



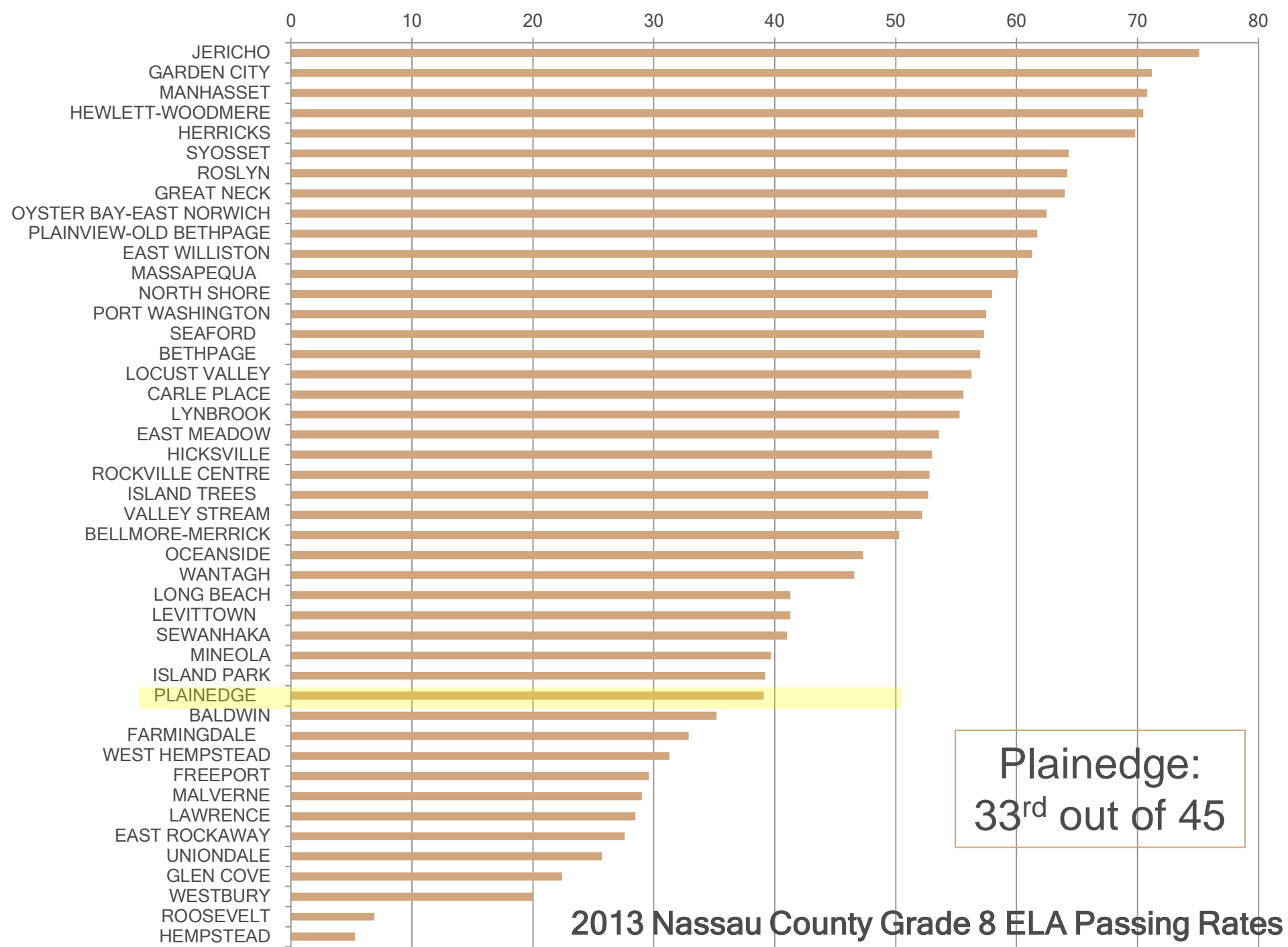
Plainedge:  
32<sup>nd</sup> out of 45



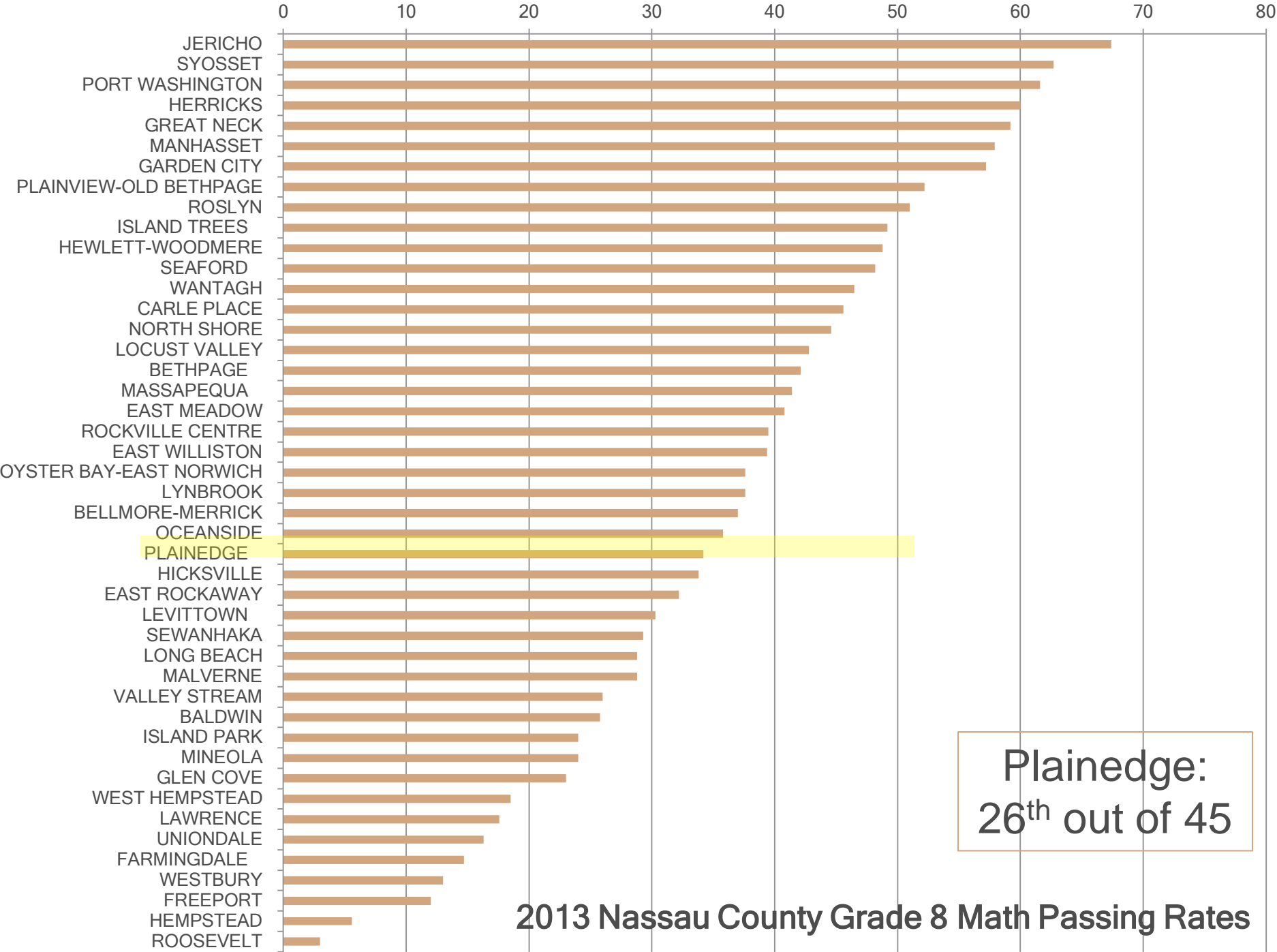
Plainedge:  
23<sup>rd</sup> out of 45

2013 Nassau County Grade 7 Math Passing Rates





Plainedge:  
33<sup>rd</sup> out of 45



Plainedge:  
26<sup>th</sup> out of 45