



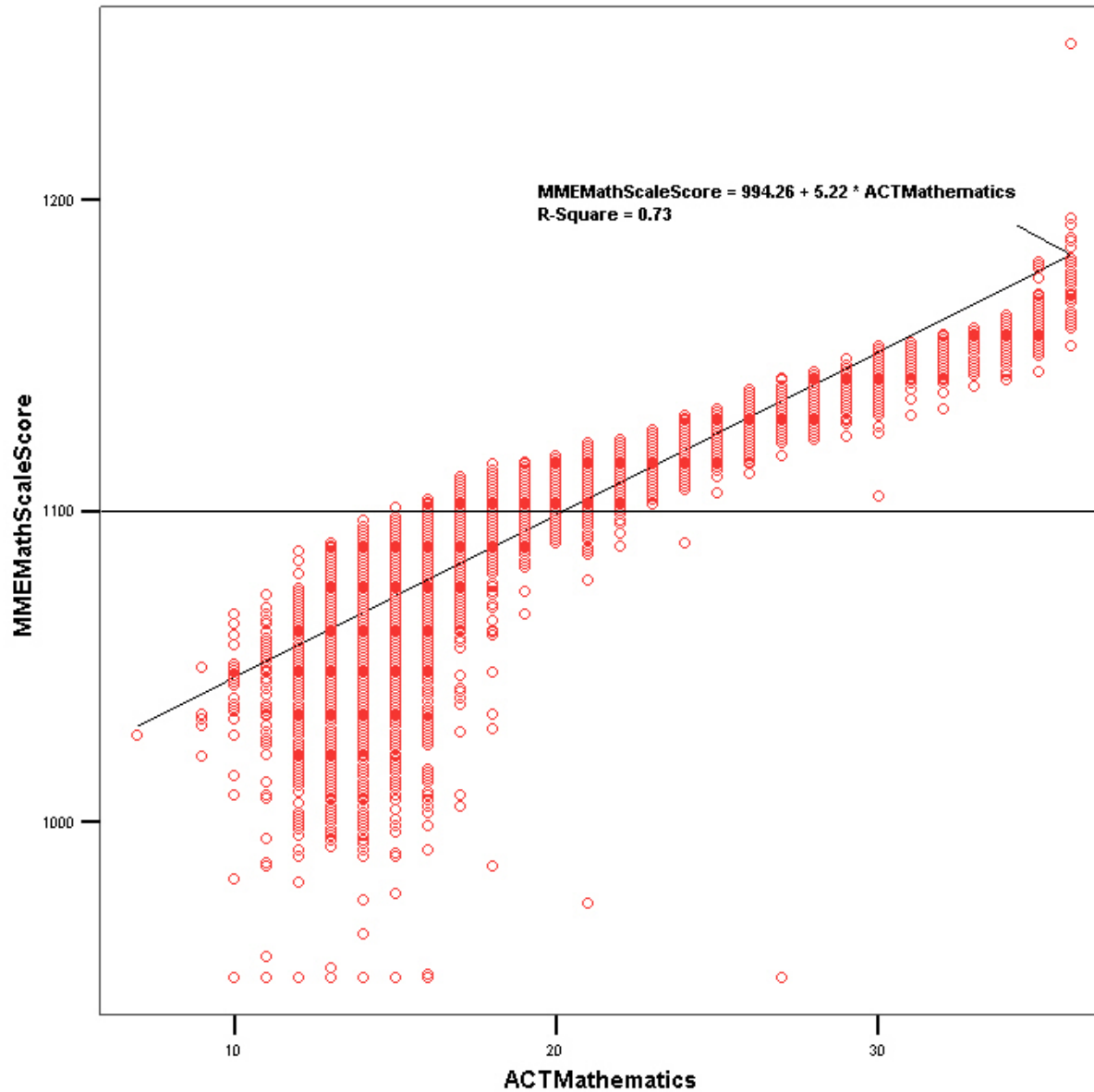
Banging on the MME

Ernie Bauer & Dave Treder

Michigan Educational Research
Association Inc.

Frankenmuth
December 13, 2007

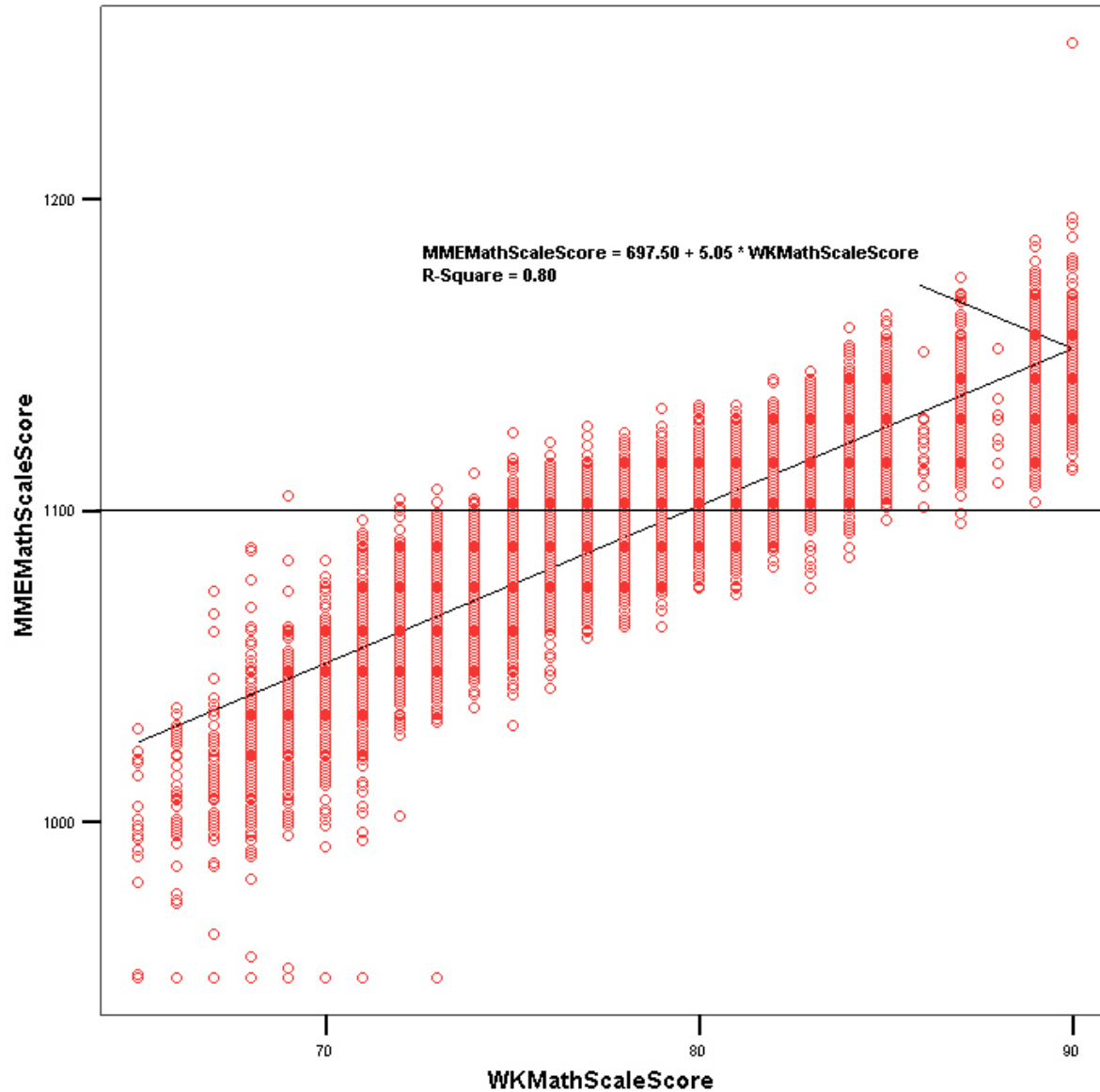
ACT Math vs. MME Math



MME Math	ACT Math	r_{xy}
All		0.85
Met		0.95
Not Met		0.59

ACT Math 60
 WorkKeys 33
 ACT Science ~ 8
 MI Math ~ 15
 MME Total = 122

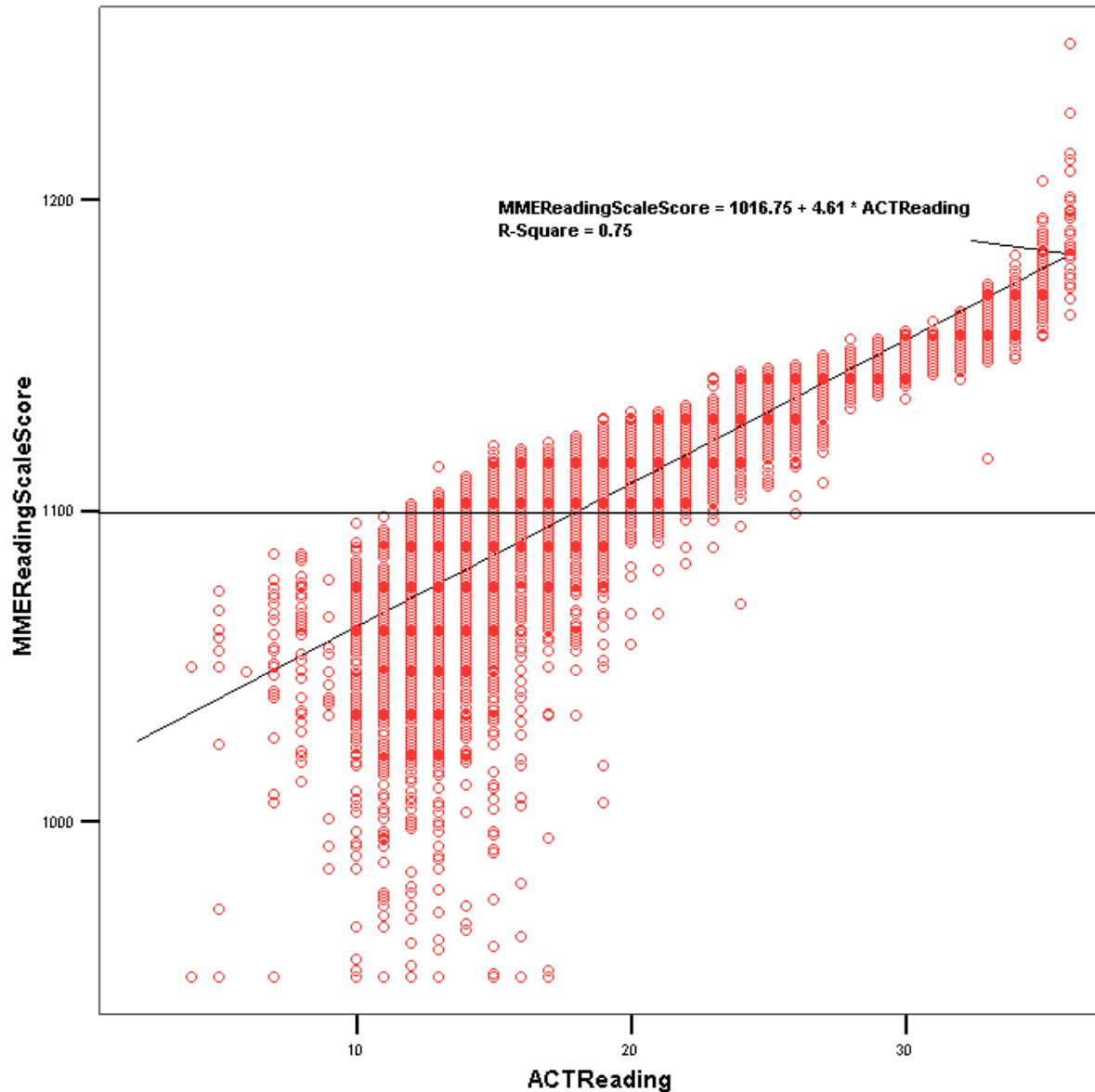
WorkKeys Math vs. MME Math



MME Math	r_{xy}
All	0.89
Met	0.77
Not Met	0.80

ACT Math 60
 WorkKeys 33
 ACT Science ~ 8
 MI Math ~ 15
 MME Total = 122

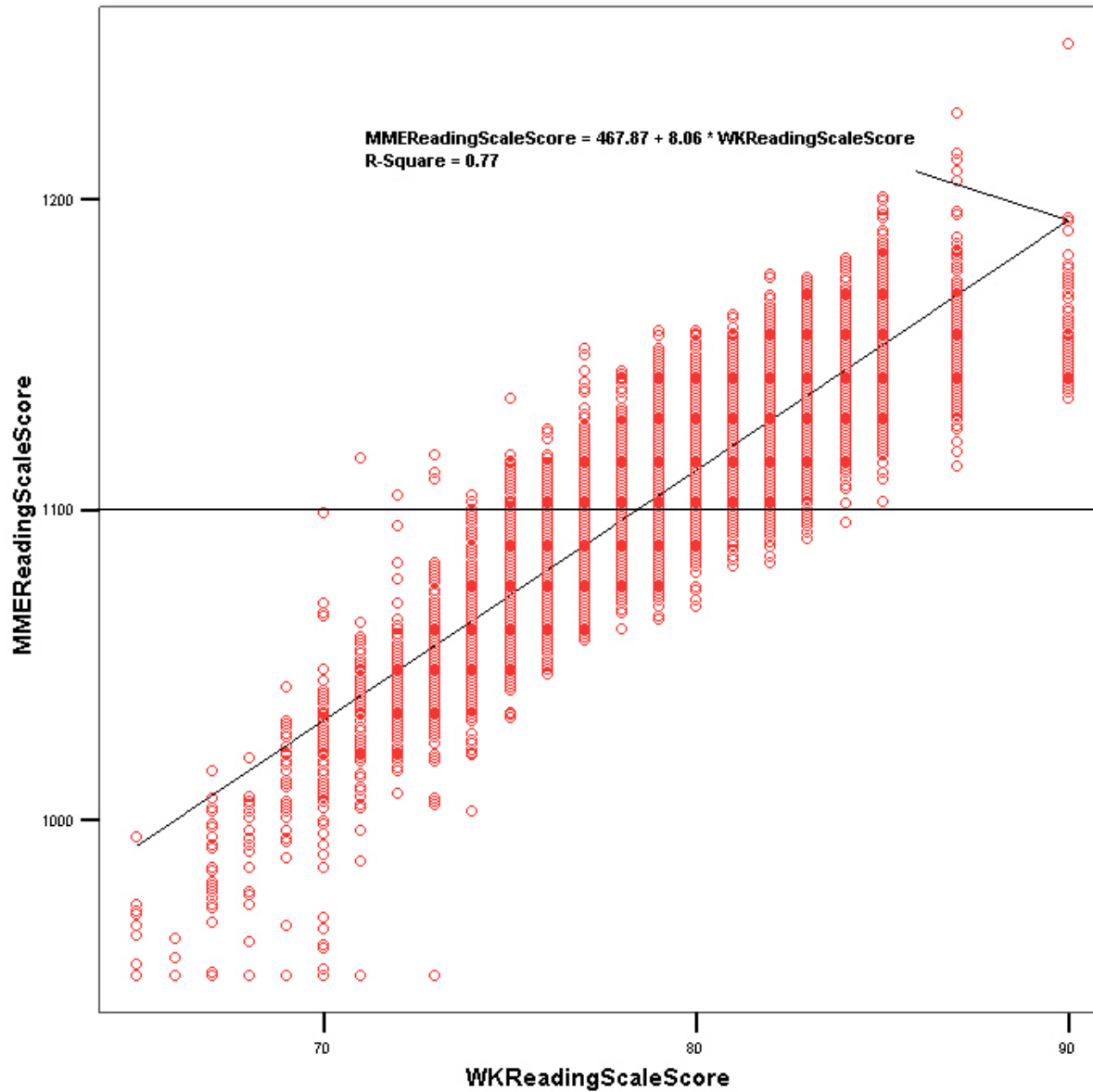
ACT Reading vs. MME Reading



MME Reading	ACT Reading	r_{xy}
All		0.86
Met		0.86
Not Met		0.45

ACT Reading 40
 WorkKeys ~ 33
 MME Total = 84

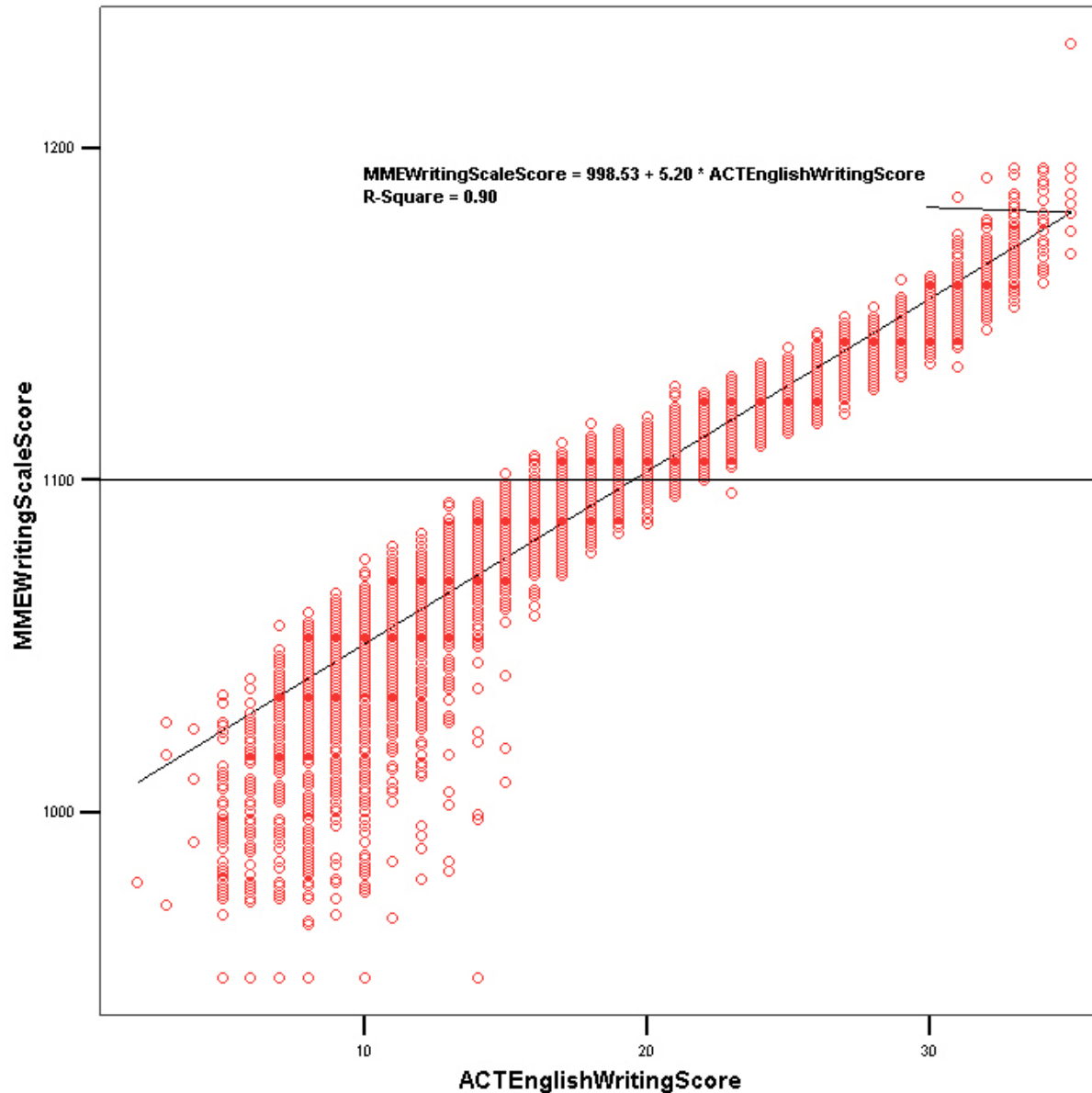
WorkKeys Reading vs. MME Reading



WorkKeys Reading	
MME Reading	r_{xy}
All	0.88
Met	0.66
Not Met	0.71

ACT Reading 40
 WorkKeys ~ 33
 Total = 84

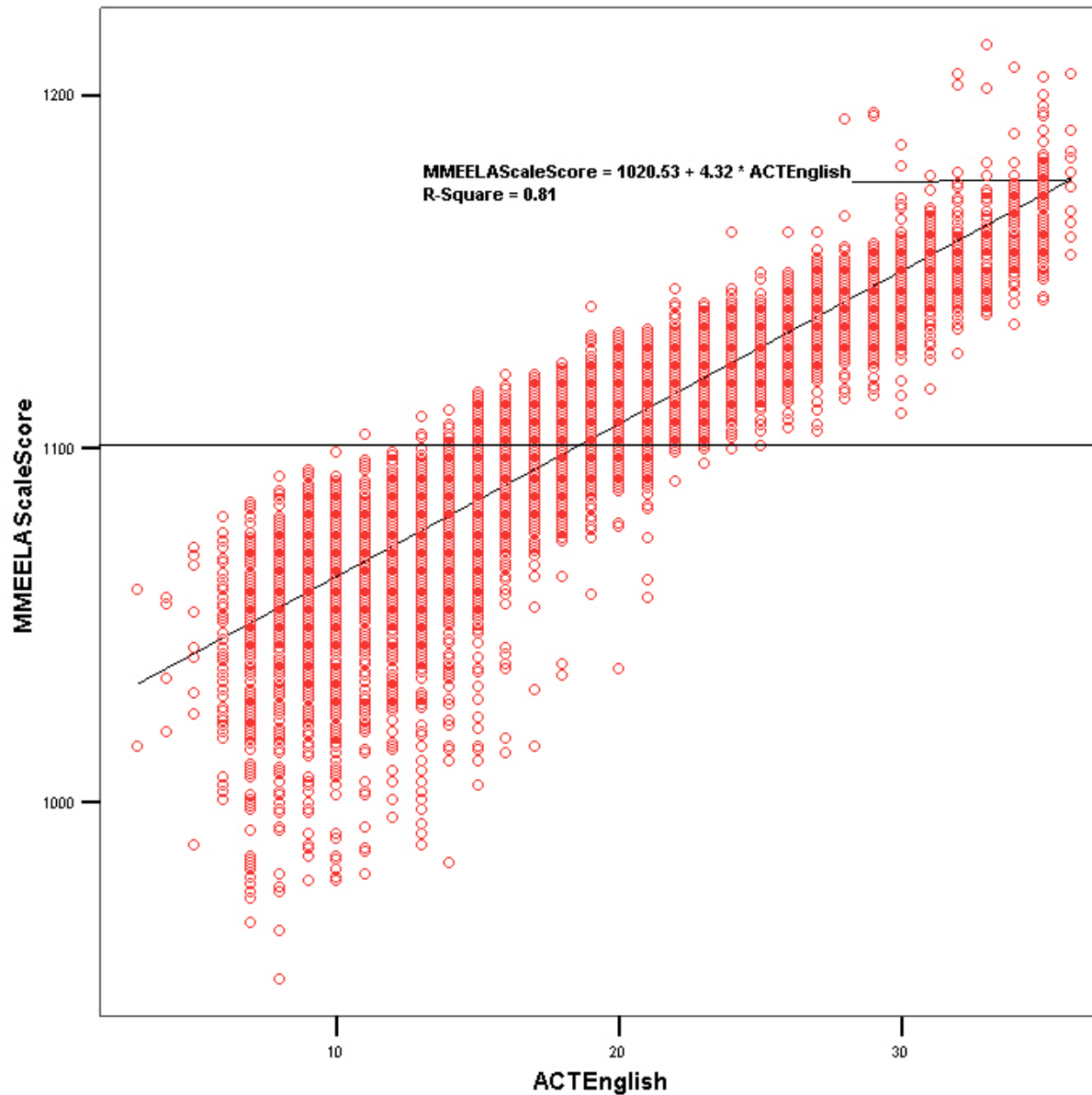
ACT English Writing vs. MME Writing



ACT English Writing	
MME Writing	r_{xy}
All	0.95
Met	0.95
Not Met	0.87

ACT English 75
 ACT Writing 12
 MI Writing 12
 MME Total = 99

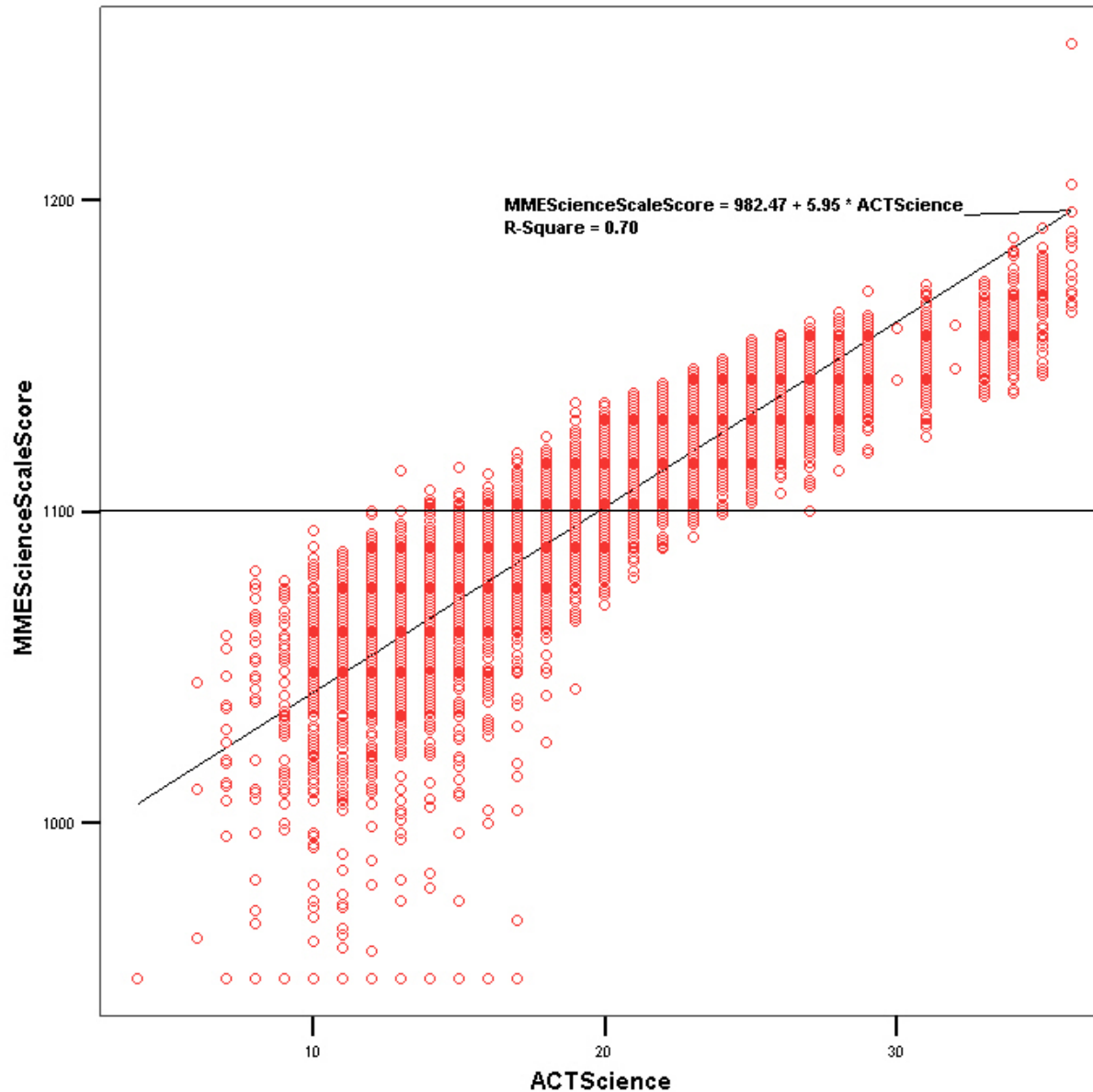
ACT English vs. MME ELA



MME ELA	ACT English r_{xy}
All	0.90
Met	0.97
Not Met	0.74

ACT English 75
 ACT Writing 12
 MI Writing 12
 ACT Reading 40
 WorkKeys 33
 MME Total ~ 183

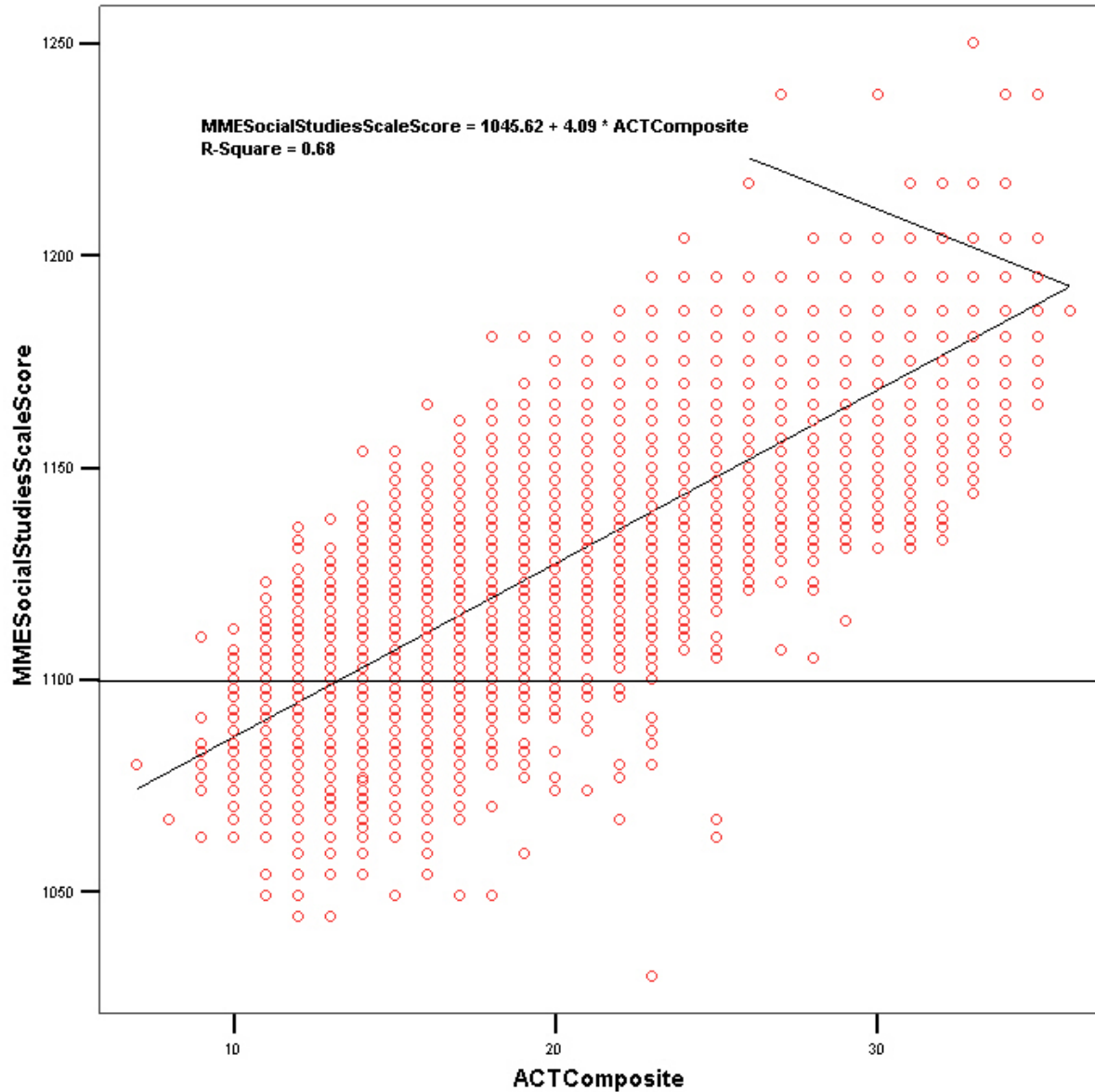
ACT Science vs. MME Science



MME Science	ACT Science r_{xy}
All	0.84
Met	0.85
Not Met	0.60

ACT Sci. ~ 31 of 40
 MI Science ~ 53
 MME Total = 84

ACT Composite vs. MME Social Studies



ACT
Composite

**MME Social
Studies**

r_{xy}

All	0.83
Met	0.79
Not Met	0.22

MI Soc.Study 66
(Const. Resp. 10)

ACT & WorkKeys vs. MME

MME Subject Performance Level							
	ACT Math	WorkKeys Math					
Math	r_{xy}	r_{xy}	n				
All	0.85	0.89	13600				
Met	0.95	0.77	7339				
Not Met	0.59	0.80	6261				
	ACT Reading	WorkKeys Reading					
Reading	r_{xy}	r_{xy}	n				
All	0.86	0.88	13606				
Met	0.86	0.66	8863				
Not Met	0.45	0.71	4743				
	ACT English	ACT English Writing	ACT Writing Subscore				
Writing	r_{xy}	r_{xy}	r_{xy}	n			
All	0.92	0.95	0.72	13315			
Met	0.97	0.95	0.40	6835			
Not Met	0.77	0.87	0.66	6480			
	ACT English	ACT English Writing	ACT Writing Subscore	ACT Reading	WorkKey s Reading		
ELA	r_{xy}	r_{xy}	r_{xy}	r_{xy}	r_{xy}	n	
All	0.90	0.92	0.67	0.86	0.84	13270	
Met	0.97	0.96	0.45	0.86	0.65	7900	
Not Met	0.74	0.86	0.68	0.52	0.72	5370	
	ACT Science						
Science	r_{xy}	n					
All	0.84	13580					
Met	0.85	8388					
Not Met	0.60	5192					
	ACT Reading	ACT English	ACT Math	ACT Composite			
Social Studies	r_{xy}	r_{xy}	r_{xy}	r_{xy}	n		
All	0.76	0.77	0.73	0.83	13367		
Met	0.72	0.71	0.70	0.79	11473		
Not Met	0.13	0.18	0.12	0.22	1894		

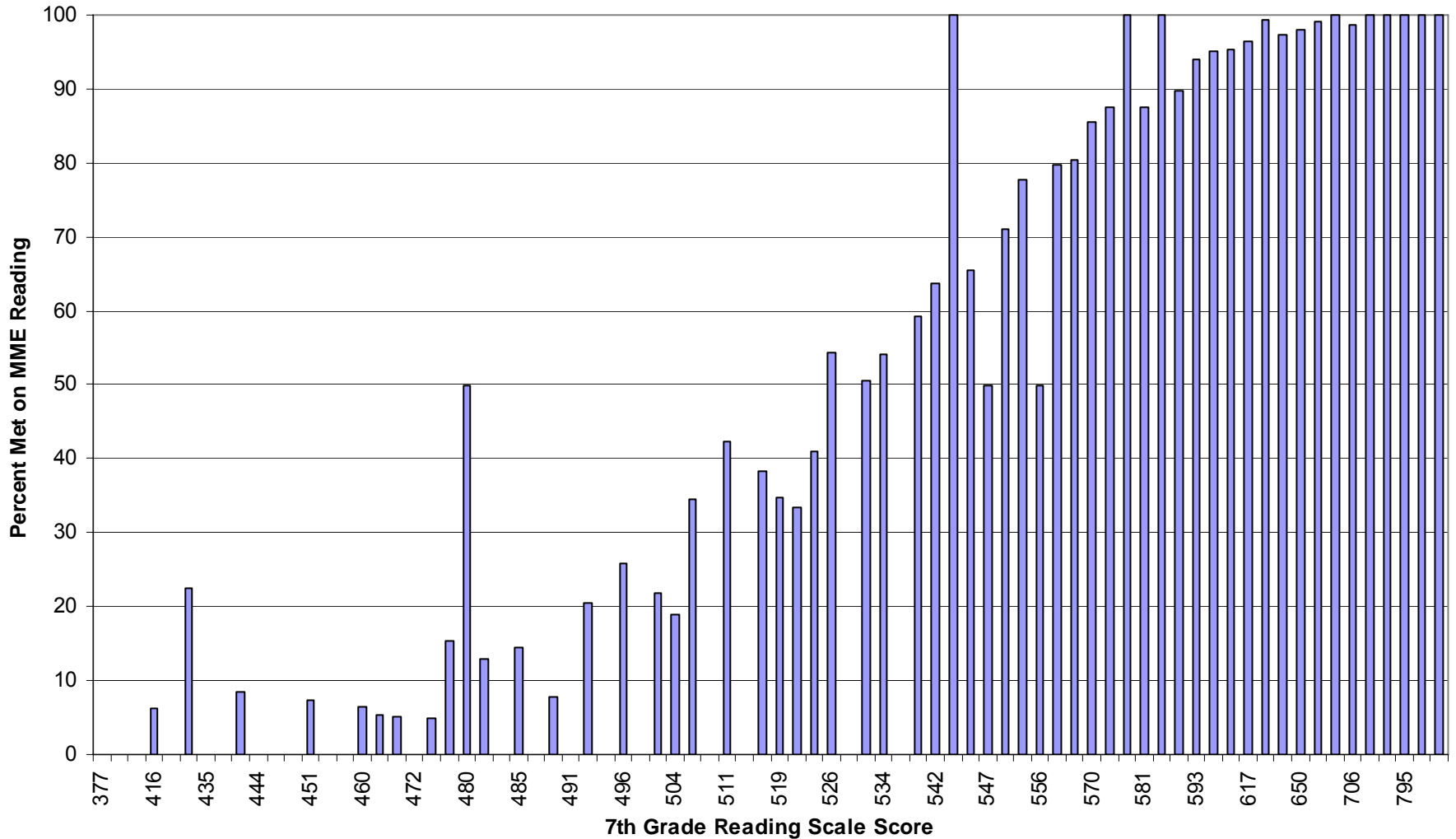
MEAP 7/8 to MME 11

2002-03 7th Grade Reading, Writing & ELA

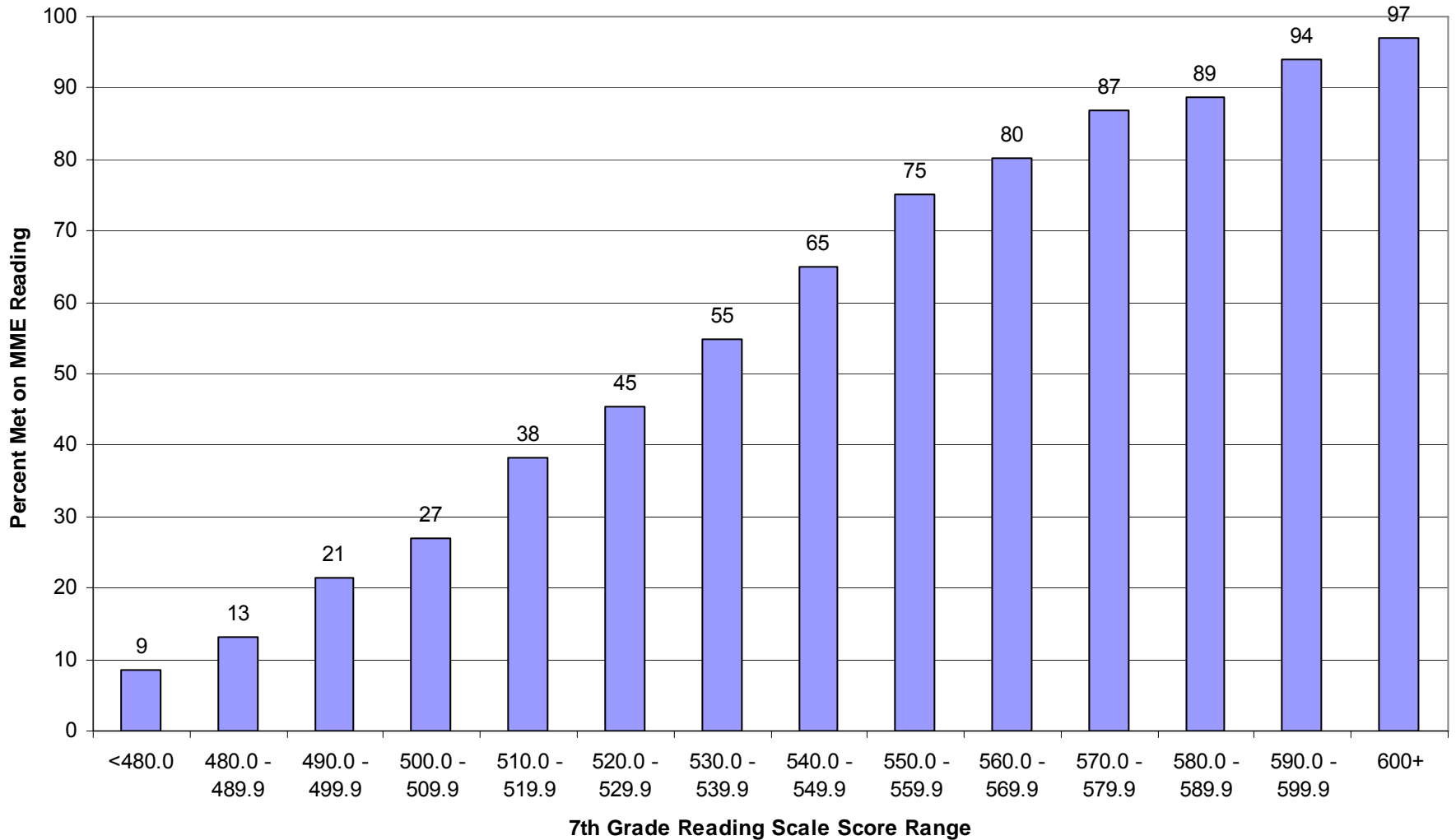
2003-04 8th Grade Math, Science, Social Studies

Spring 2007 11th Grade MME

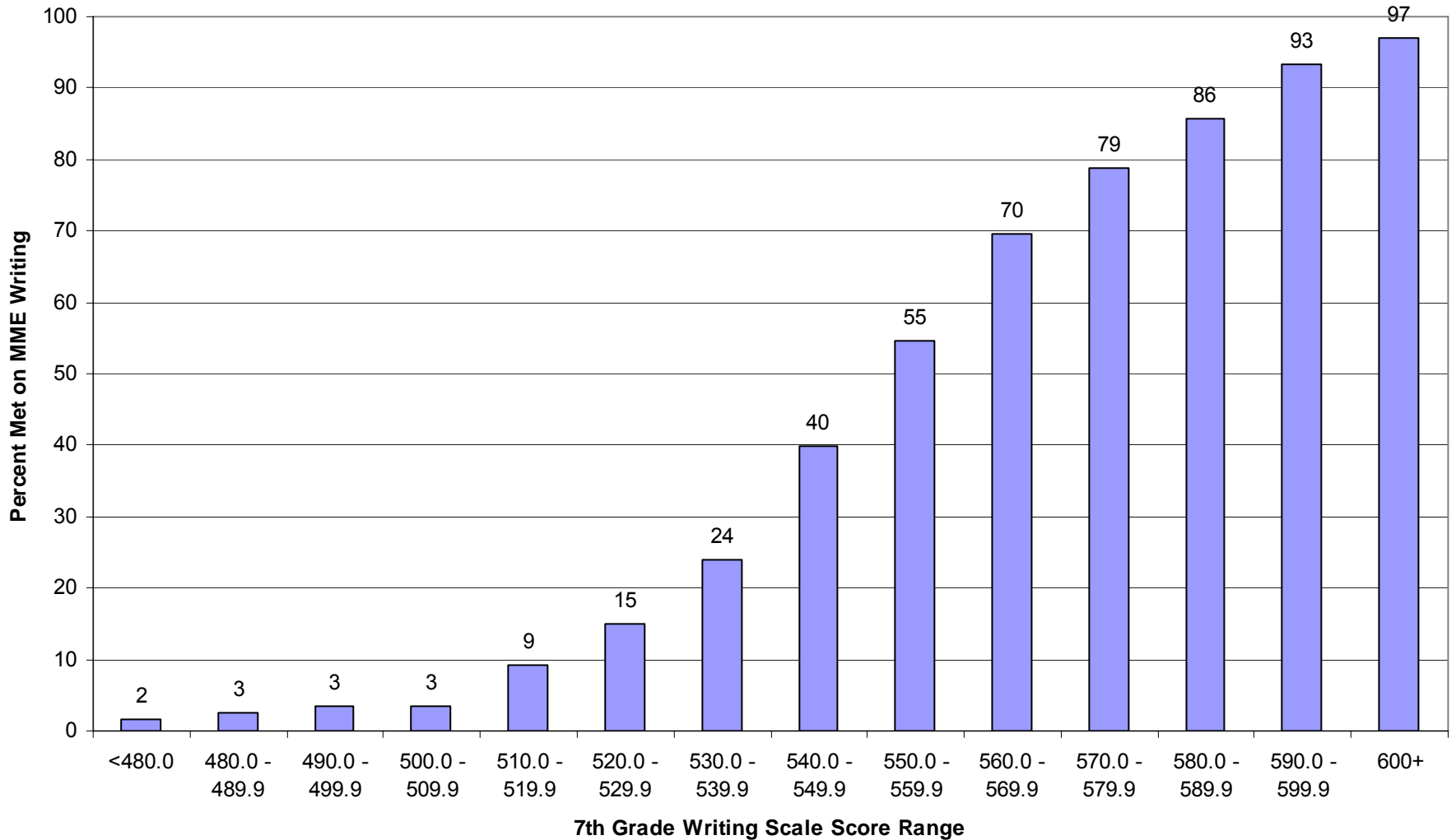
**Probability of Meeting Spring 2007 11th Grade MME Reading Expectations
by Range of 2002-03 7th Grade MEAP Reading Scale Score**



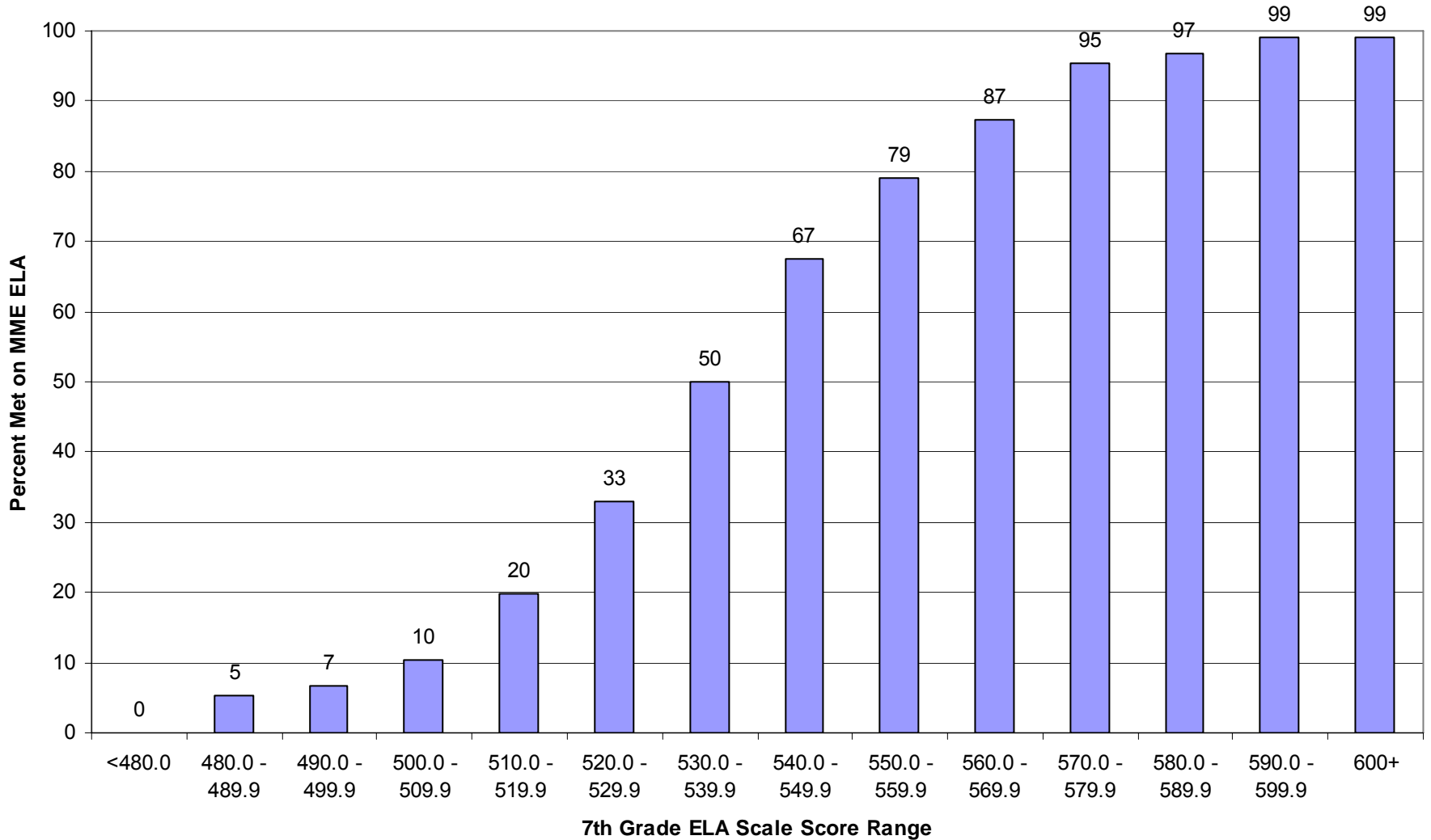
**Probability of Meeting Spring 2007 11th Grade MME Reading Expectations
by Range of 2002-03 7th Grade MEAP Reading Scale Score**



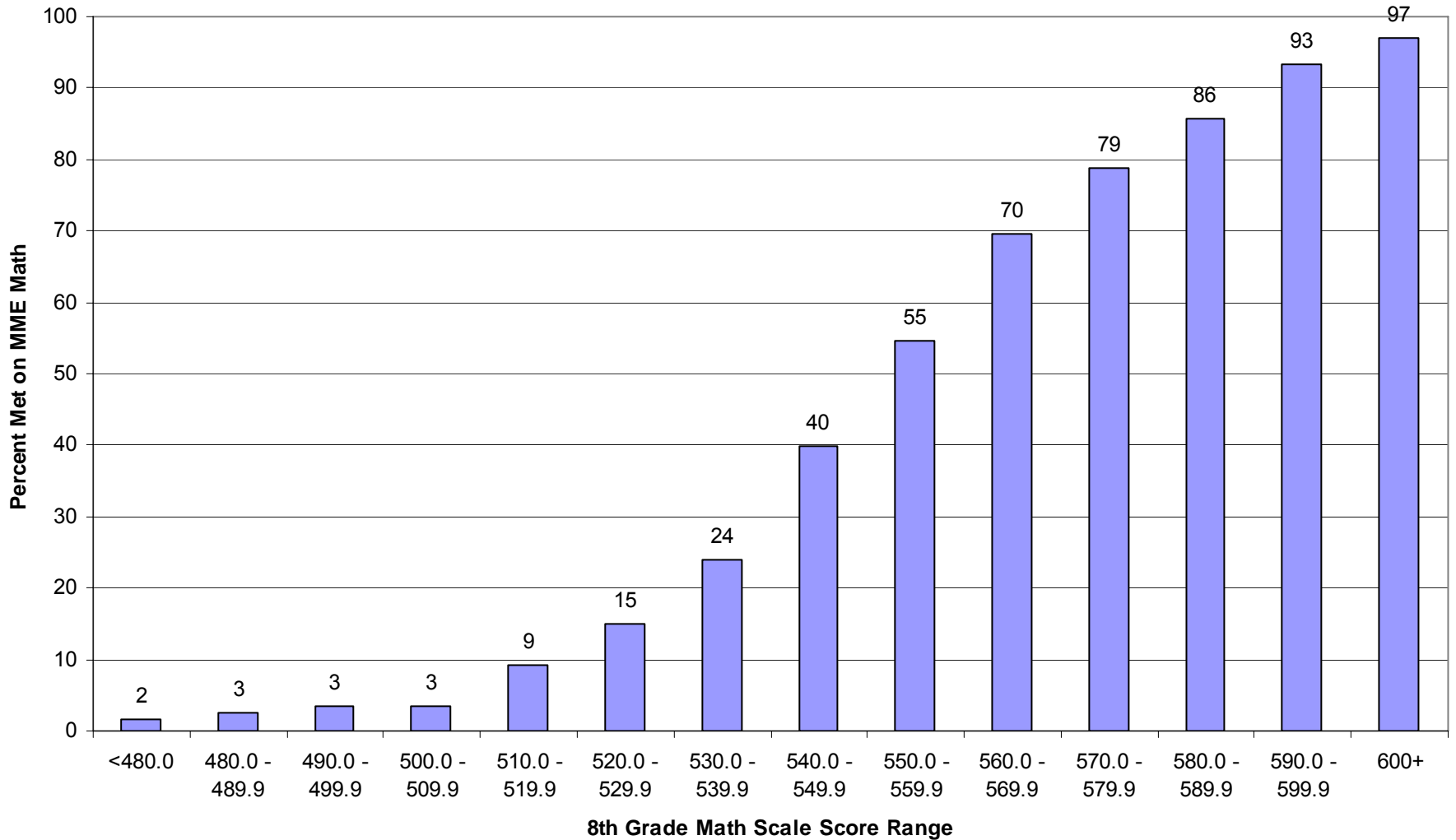
**Probability of Meeting Spring 2007 11th Grade MME Writing Expectations
by Range of 2002-03 7th Grade MEAP Writing Scale Score**



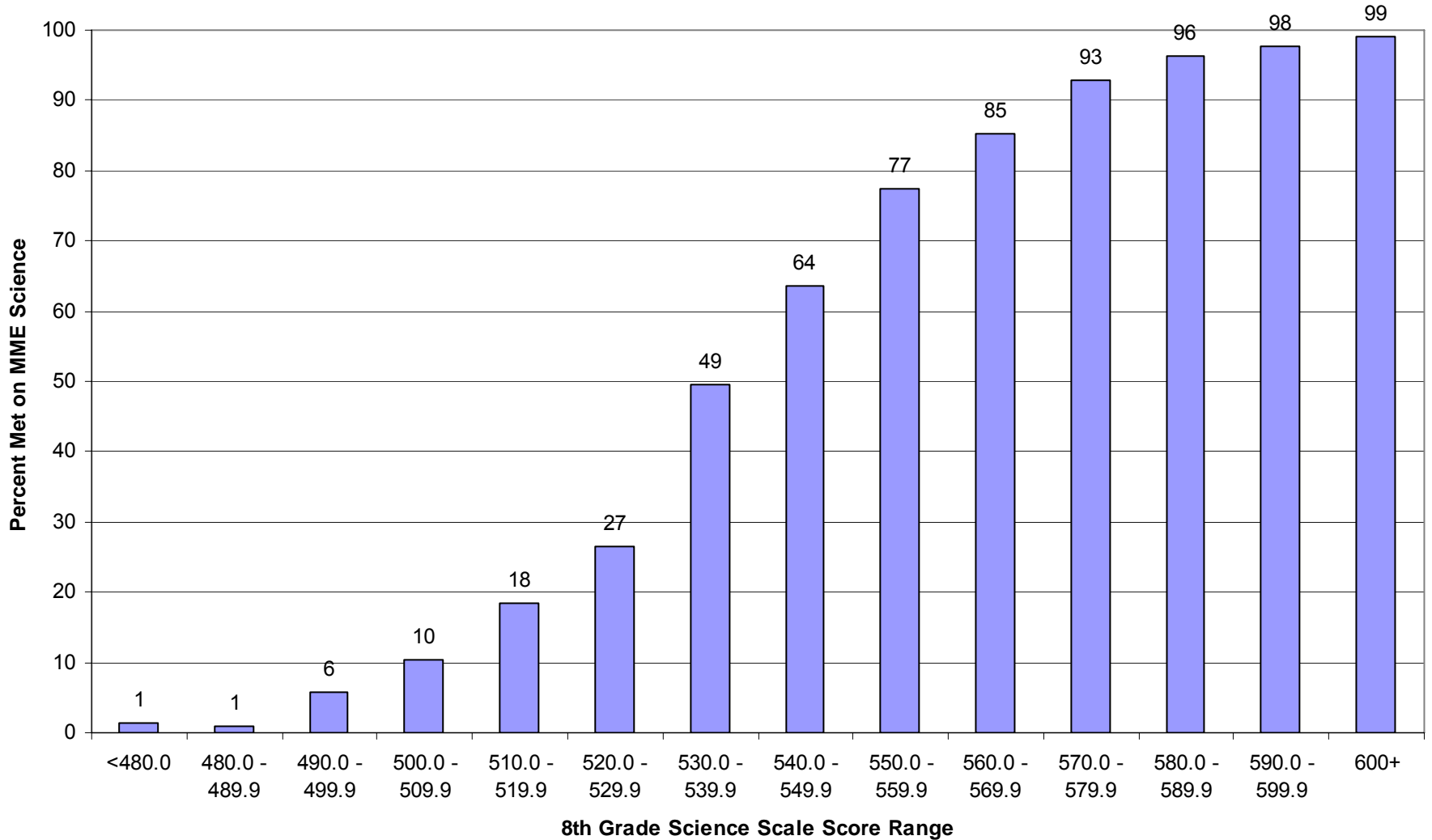
Probability of Meeting Spring 2007 11th Grade MME ELA Expectations by Range of 2002-03 7th Grade MEAP ELA Scale Score



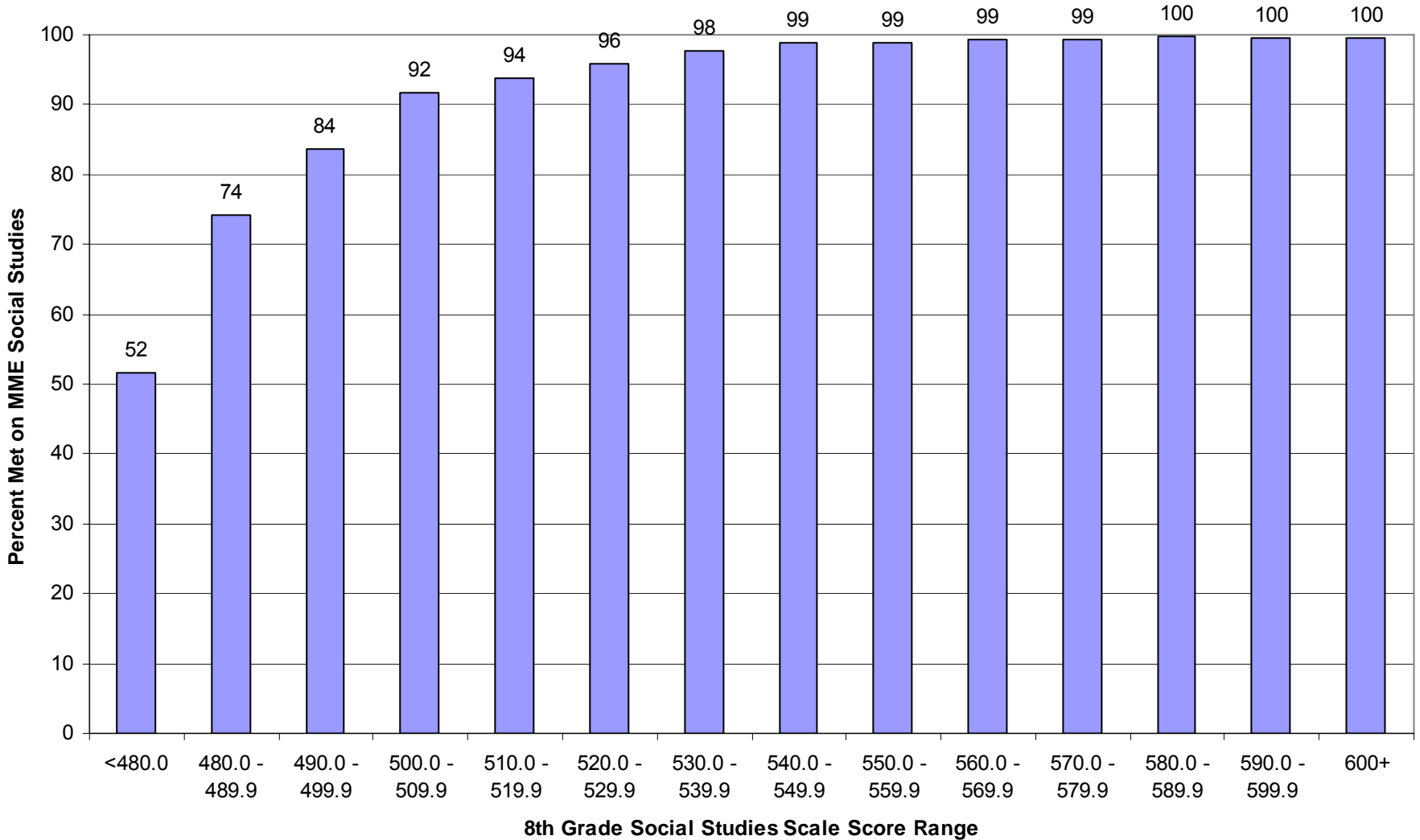
**Probability of Meeting Spring 2007 11th Grade MME Math Expectations
by Range of 2003-04 8th Grade MEAP Math Scale Score**



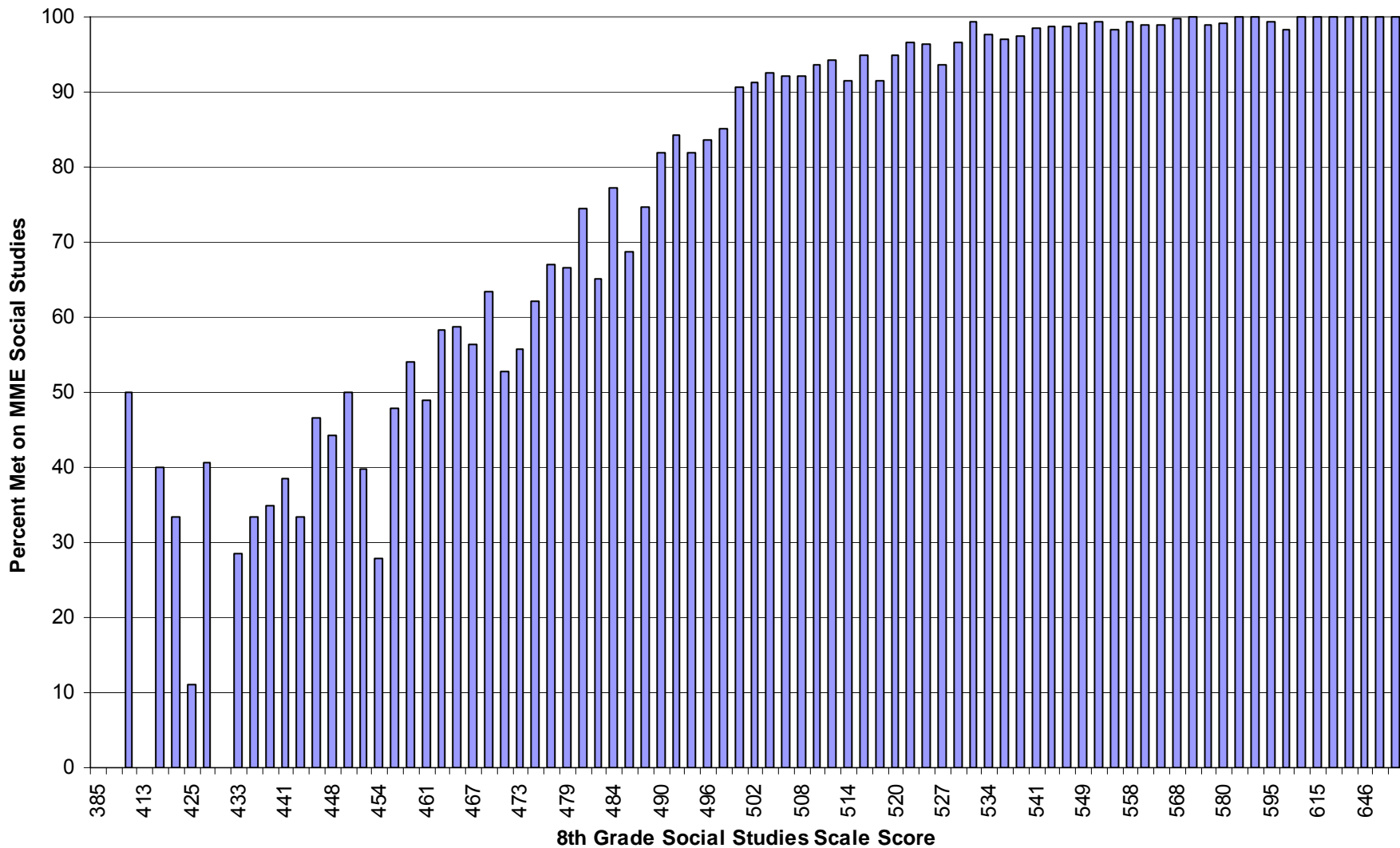
**Probability of Meeting Spring 2007 11th Grade MME Science Expectations
by Range of 2003-04 8th Grade MEAP Science Scale Score**



**Probability of Meeting Spring 2007 11th Grade MME Social Studies Expectations
by Range of 2003-04 8th Grade MEAP Social Studies Scale Score**



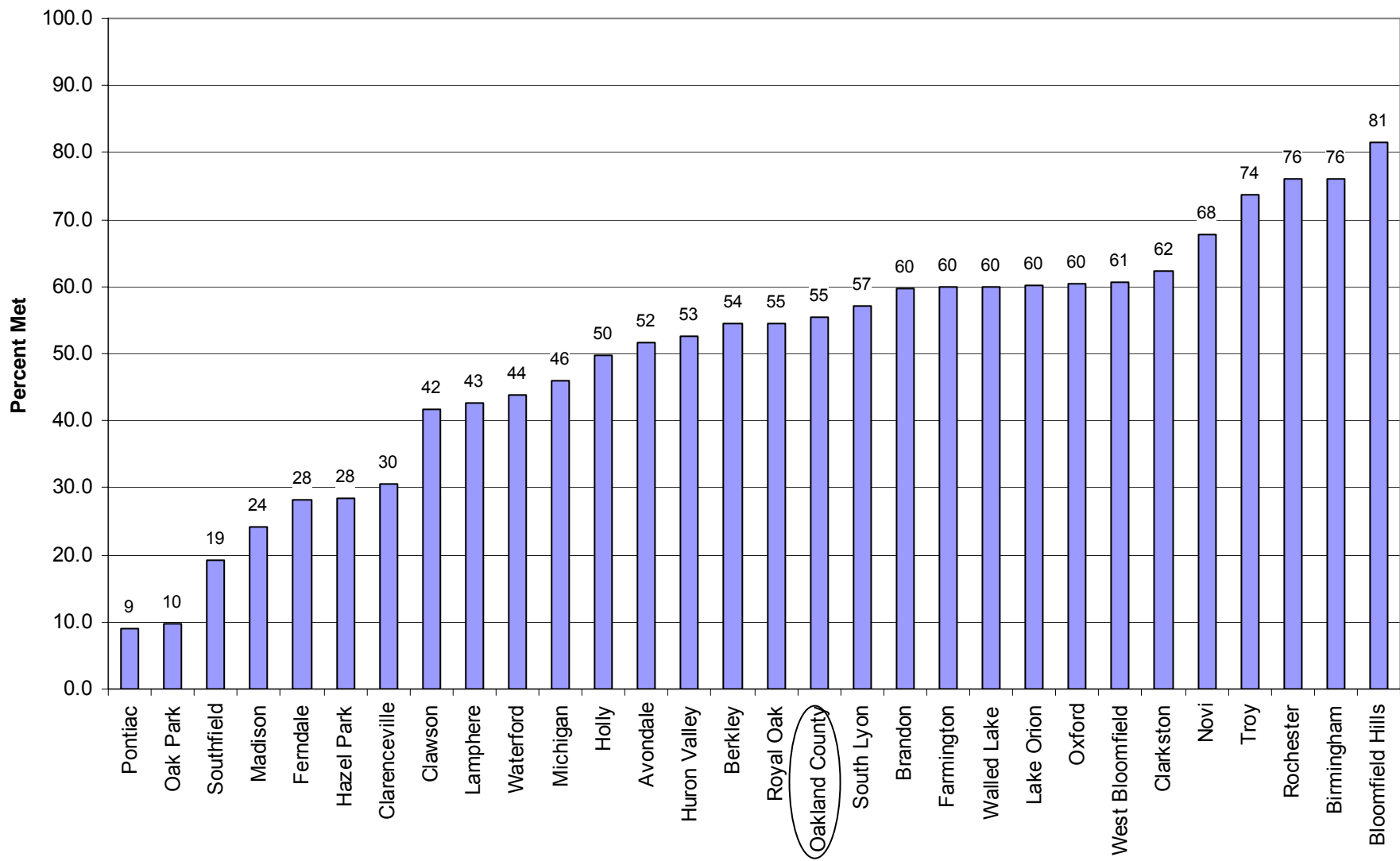
Social Studies



Let's use that big curved mirror in
our boat to see
if those hands we can see waving
in our wake are giving us
the thumbs up or thumbs down.

How did we do on MME math compared to other Oakland districts?

MME Math Spring 07 Grade 11

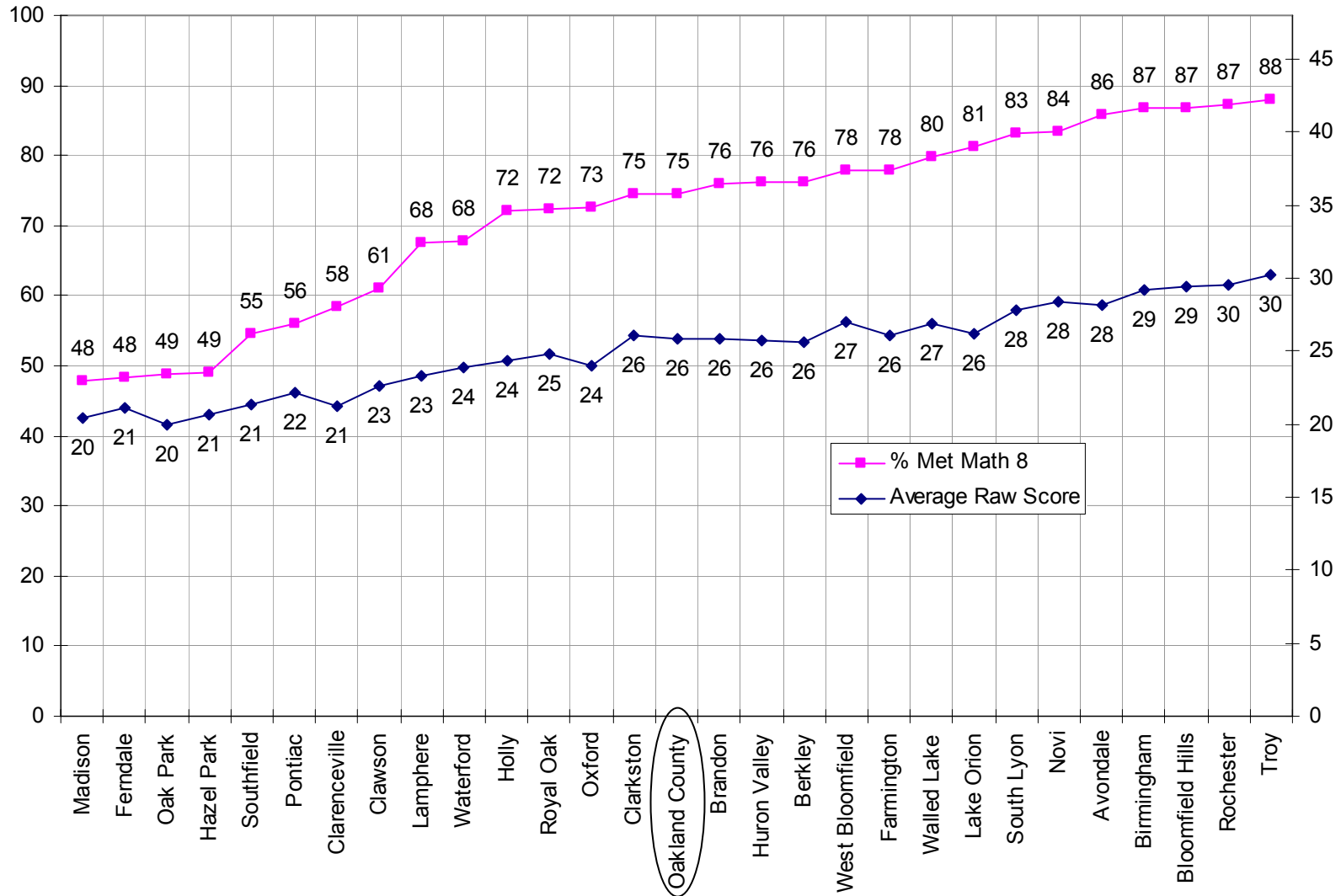


2003-04 8th Grade Math

Exceeds = 25.5 of 48 (53%)
 Meets = 20 (42%)
 Basic = 15 (31%)

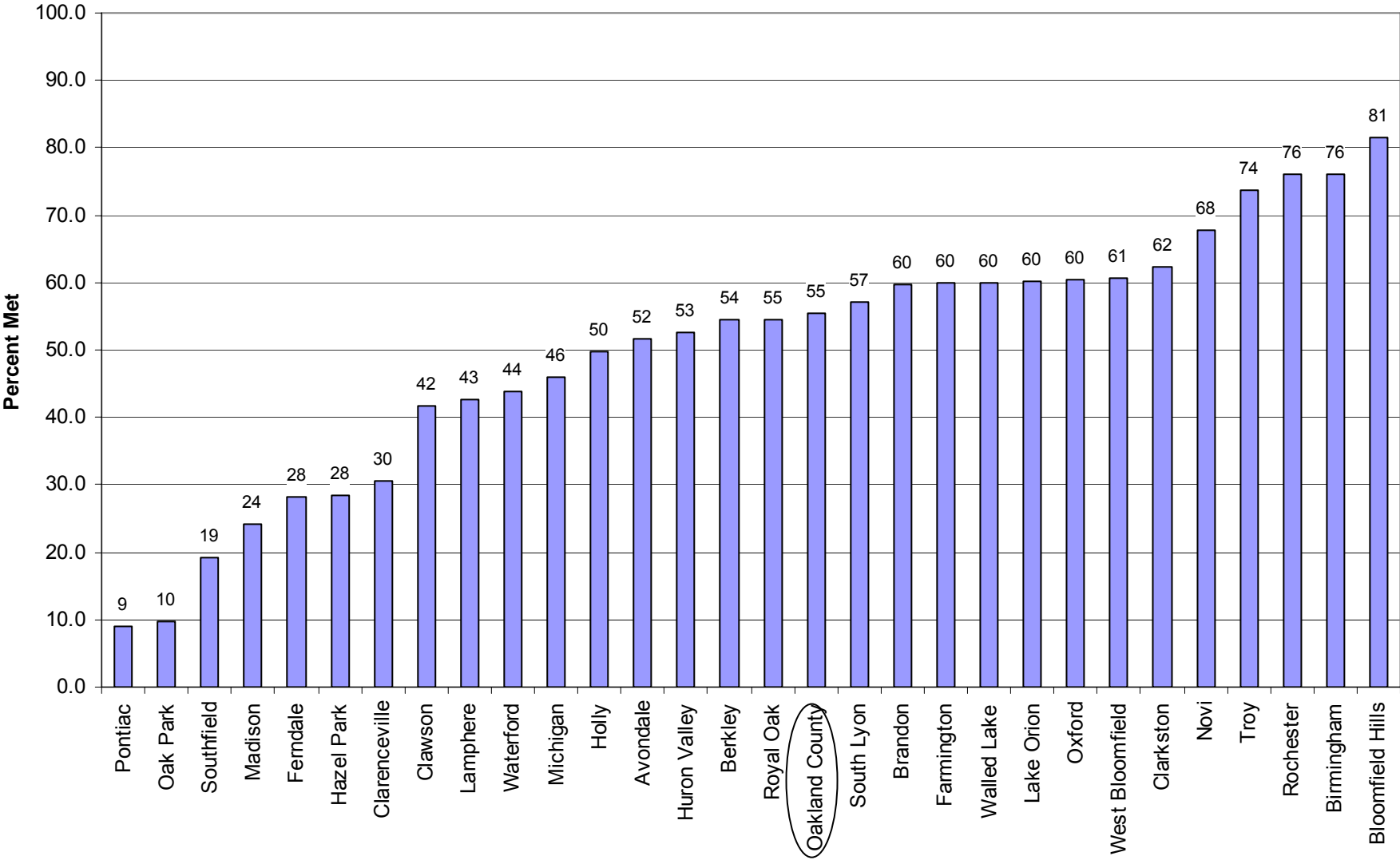
Percent Met

Average Raw Score



How did we do on MME math compared to other Oakland districts?

MME Math Spring 07 Grade 11

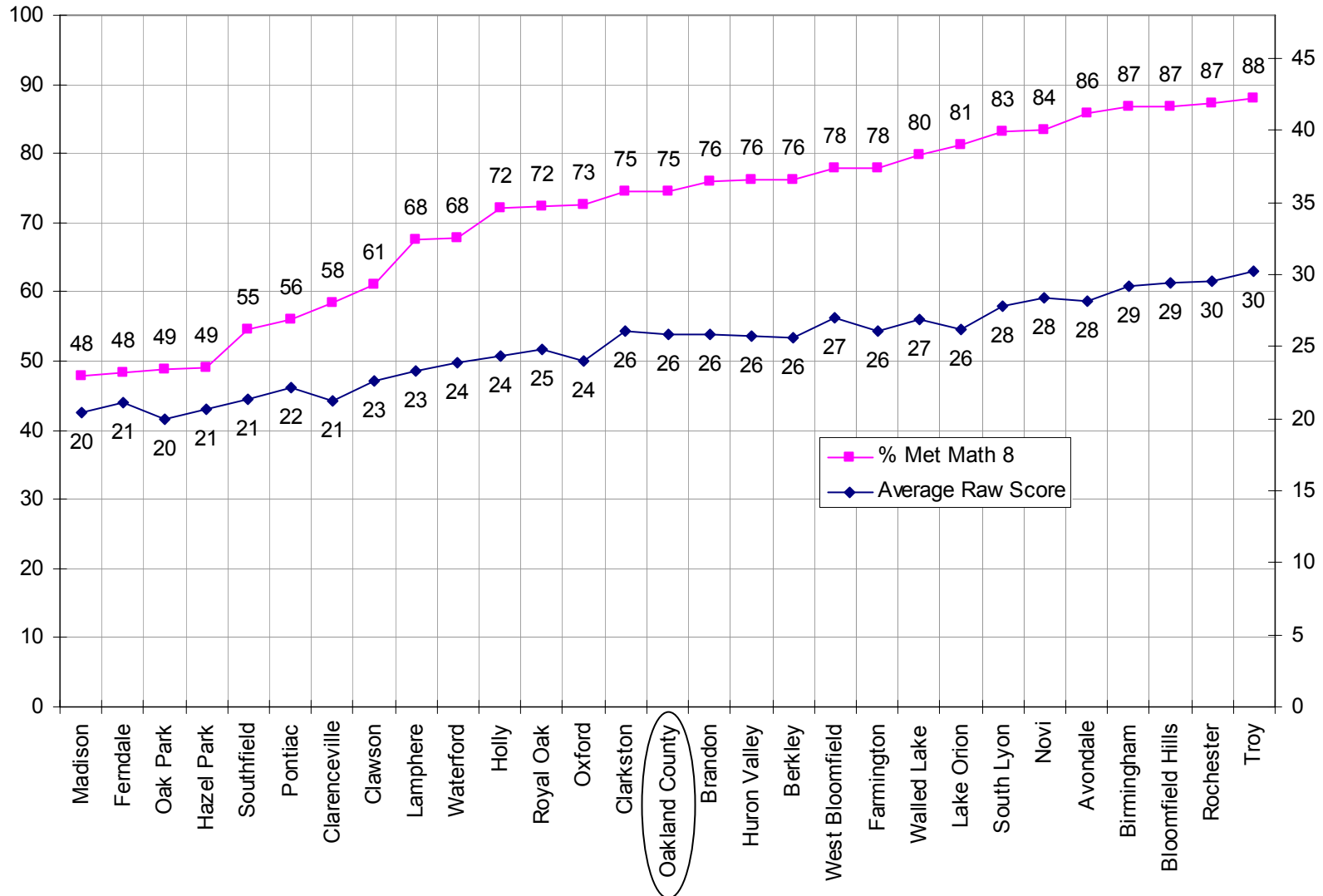


2003-04 8th Grade Math

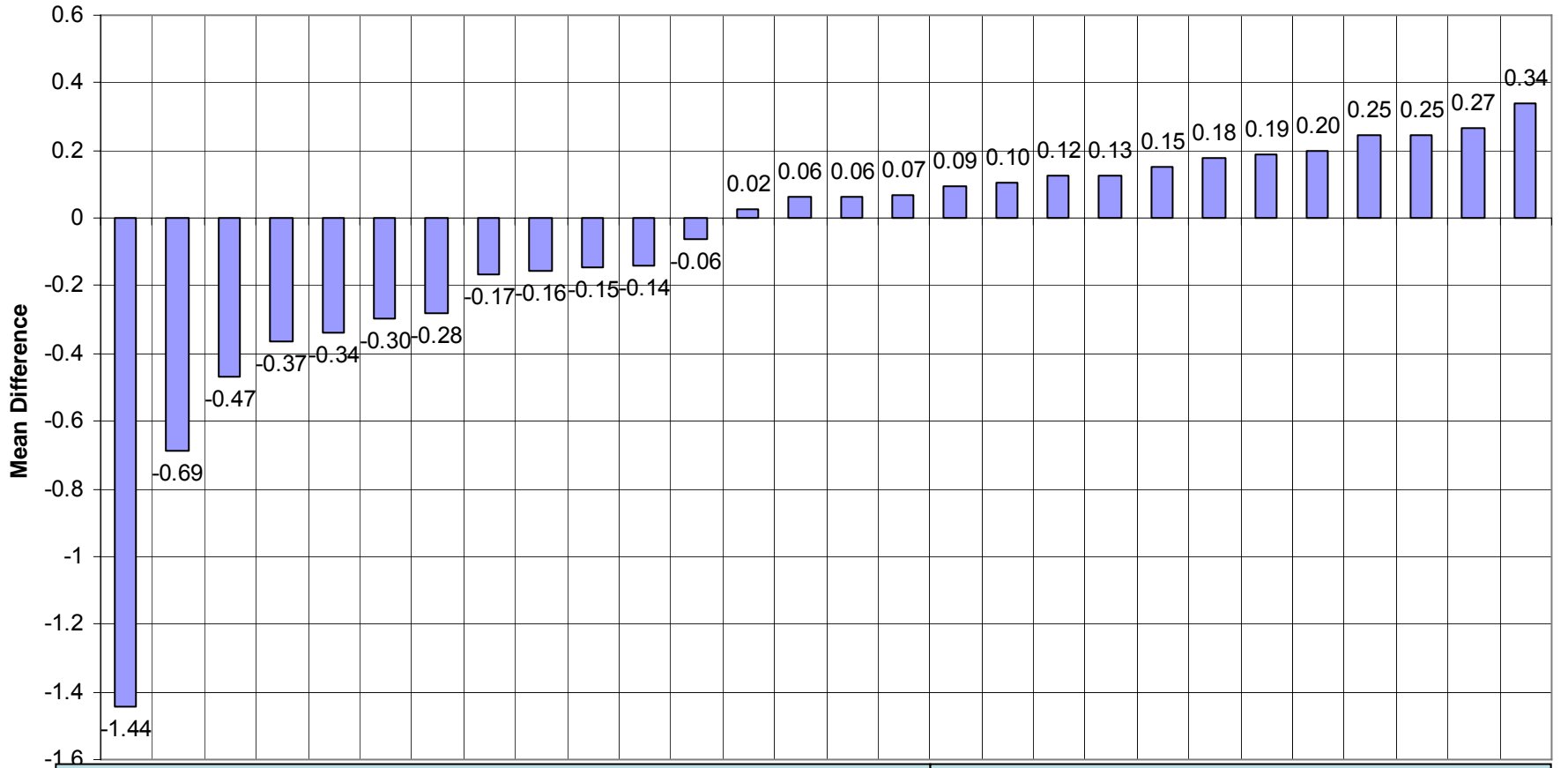
Exceeds = 25.5 of 48 (53%)
 Meets = 20 (42%)
 Basic = 15 (31%)

Percent Met

Average Raw Score



MEAP Math 8 2003-04 to MME Math 11 2006-07



Last Name	First Name	Math SS 8	MME Math Scale Score	Difference
DA	JA	495	1009	-3.01
DIV	MI	535	1067	-1.04
ELI	PH	551	1057	-2.00
FA	SA	541	1111	1.10
FE	W	590	1137	1.15
LO	MA	530	1110	1.35
LO	CH	495	1090	1.24
MA	JO	535	1106	1.00
MA	JA	541	1011	-4.14
PE	JIL	619	1153	1.21
RE	BF	495	1034	-1.69
RE	TH	452	1068	1.25
RE	CH	581	1087	-1.23
SA	DA	535	1110	1.21
STI	MA	556	1117	1.02
STI	RY	541	1111	1.10
TAY	DA	475	1021	-1.84
TO	SH	535	1060	-1.41
TO	SI	501	1048	-1.12

Starter Questions about Students With Unusual Cohort Difference Scores

Does anyone in your group know this student?

In what classes is she currently enrolled?

Does anyone in your group have him in class now?

How is she doing in her current classes?

Is the student engaged?

Does homework?

Participates in class?

Are you surprised to see some of the names on the list?

Are you surprised other names are not on the list?

Starter Questions (continued)

Do you believe the MS results were accurate?

Does this student suffer from “test anxiety?”

Does this student have discipline/conduct “issues?”

Does this student attend classes regularly?

Are there home environment issues that might help/hurt this student’s progress?

Is this student’s peer group helping them achieve?

Is this student’s personality likely to be a factor in this apparent academic success or failure?

Is this student receiving special help?

To what demographic groups do these students belong?

Are there patterns to what you are finding?

What is one thing that you can do to help?

MME 06-07 11th Grade

What “ACT Score” do you need
pass the MME?

Early Indicators of College Readiness

•EXPLORE and PLAN

College Readiness Benchmark Scores

•The EXPLORE and PLAN College Readiness Benchmark Scores are based on the ACT College Readiness Benchmark Scores. They reflect students' expected growth from EXPLORE to PLAN to the ACT and assume sustained academic effort throughout high school.

ACT Subject Area Test	College Course(s)	College Readiness Benchmark Score		
		EXPLORE	PLAN	ACT
English	English Composition	13	15	18
Math	Algebra	17	19	22
Reading	Social Sciences	15	17	21
Science	Biology	20	21	24

Students who meet a Benchmark on the ACT have \approx 50% chance of earning a B or better and \approx 75% chance of earning a C or better in the corresponding college course or courses.

Students who meet a Benchmark on EXPLORE or PLAN are likely to have approximately this same chance of earning such a grade in the corresponding college course(s) by the time they graduate high school.

Explore/PLAN & ACT

College Readiness Benchmark Scores

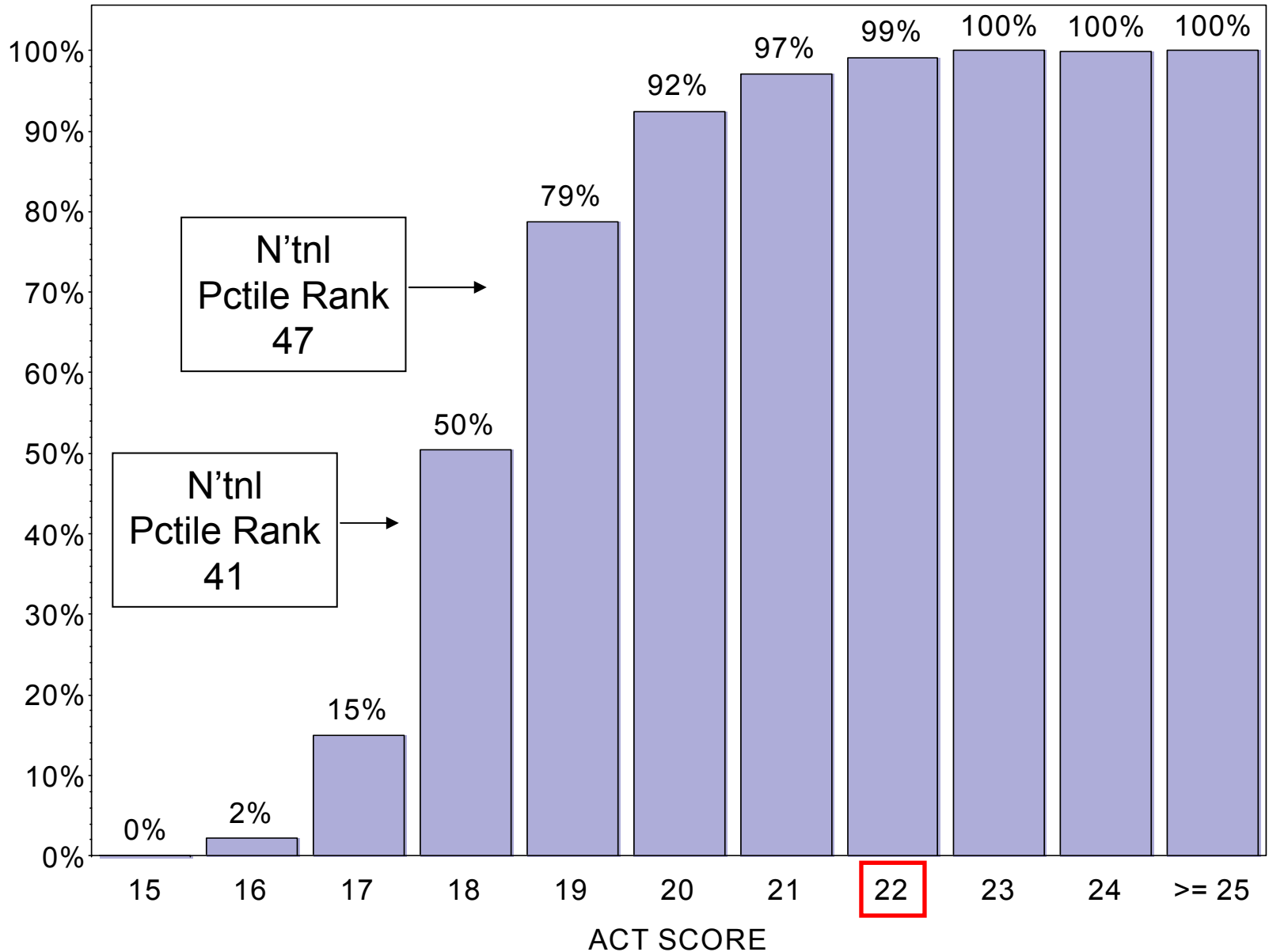
College Course/ Area	Test	Explore*		PLAN**		ACT***	
		Score	Pctile	Score	Pctile	Score	Pctile
Algebra	Math	17	69th	19	70th	22	63rd
Soc. Sciences	Reading	15	65th	17	65th	21	53rd
Biology	Science	20	91st	21	91st	24	80th
Eng. Comp.	English	13	43rd	15	43rd	18	37th

Percentile Ranks

- * 2005 Spring 8th grade.
- ** 2005 Spring 10th grade.
- *** HS Graduating Class of 2006.

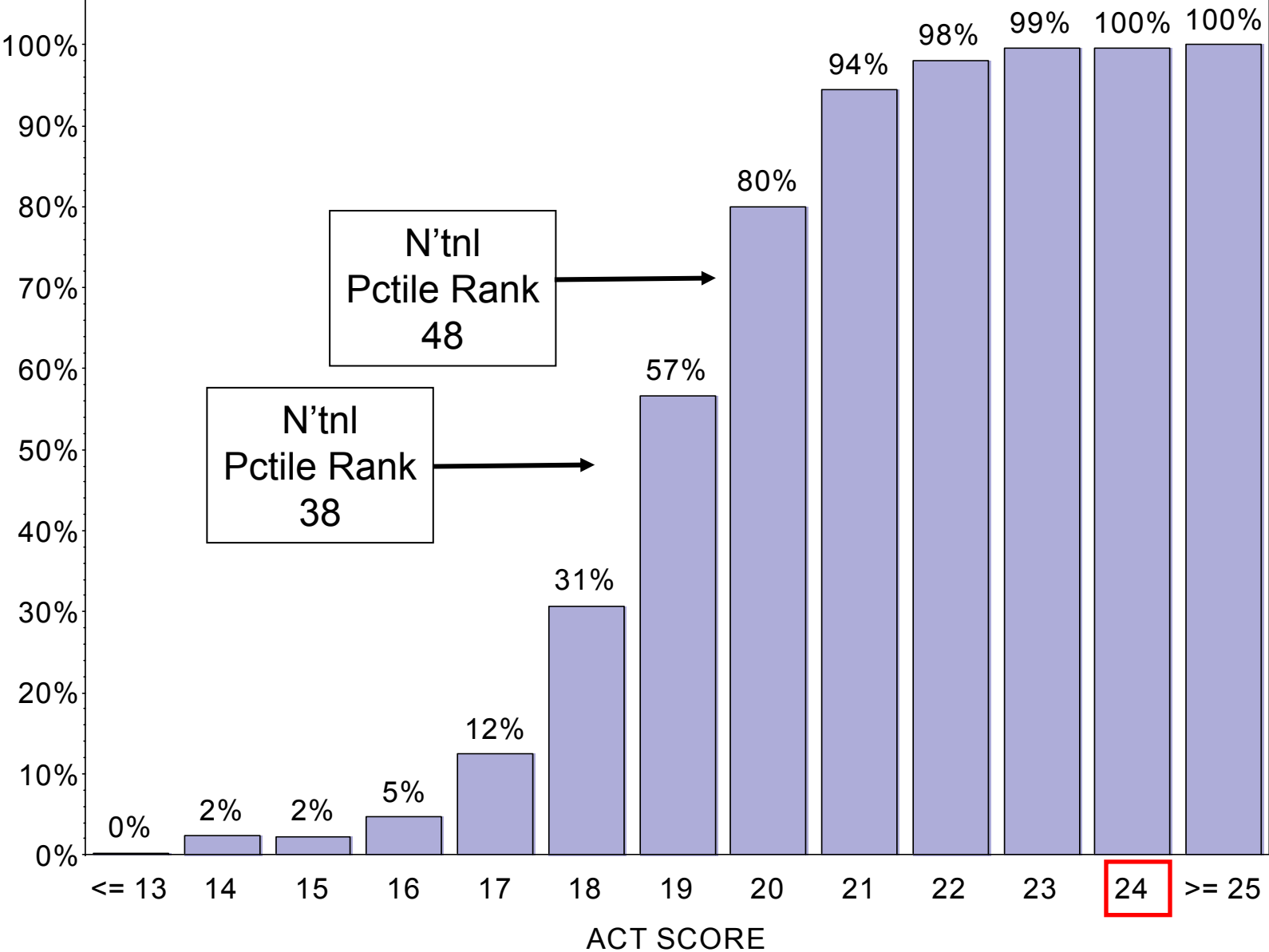
Math – ACT Score, Pct Met/Exceeded Standards on the MME

PCT MET/
EXCEED



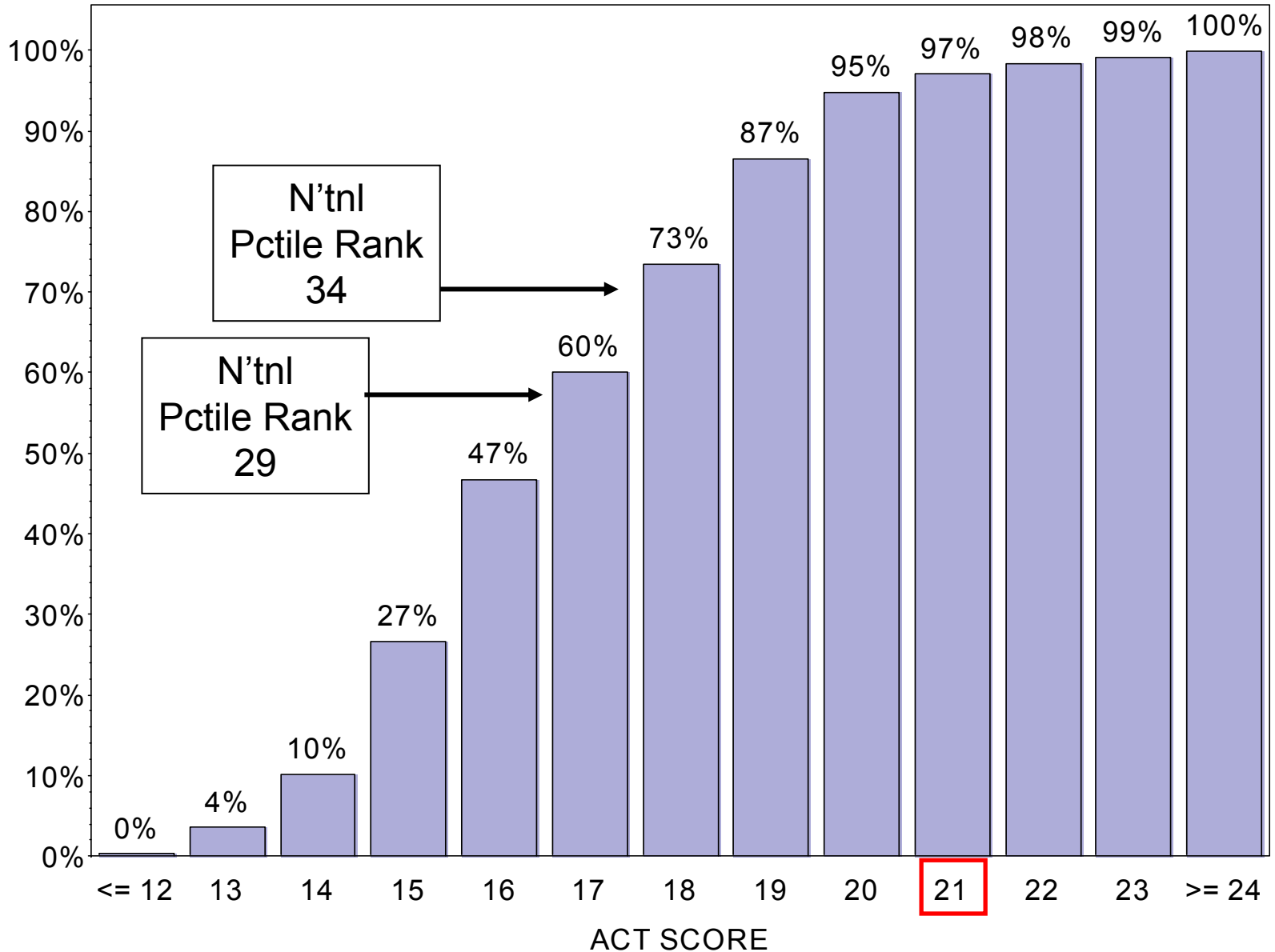
Science – ACT Score, Pct Met/Exceeded Standards on the MME

PCT MET/
EXCEED



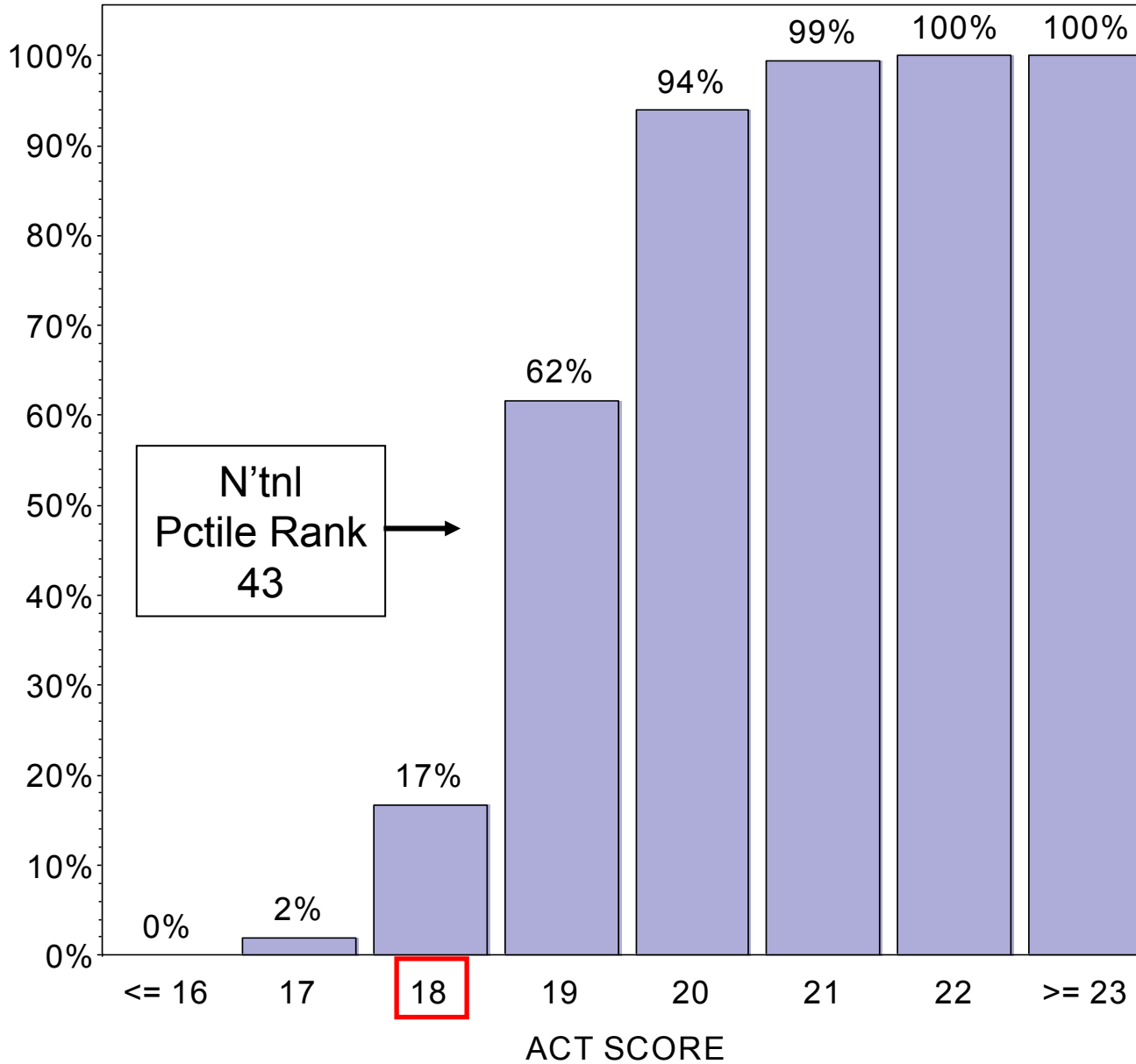
Reading – ACT Score, Pct Met/Exceeded Standards on the MME

PCT MET/
EXCEED



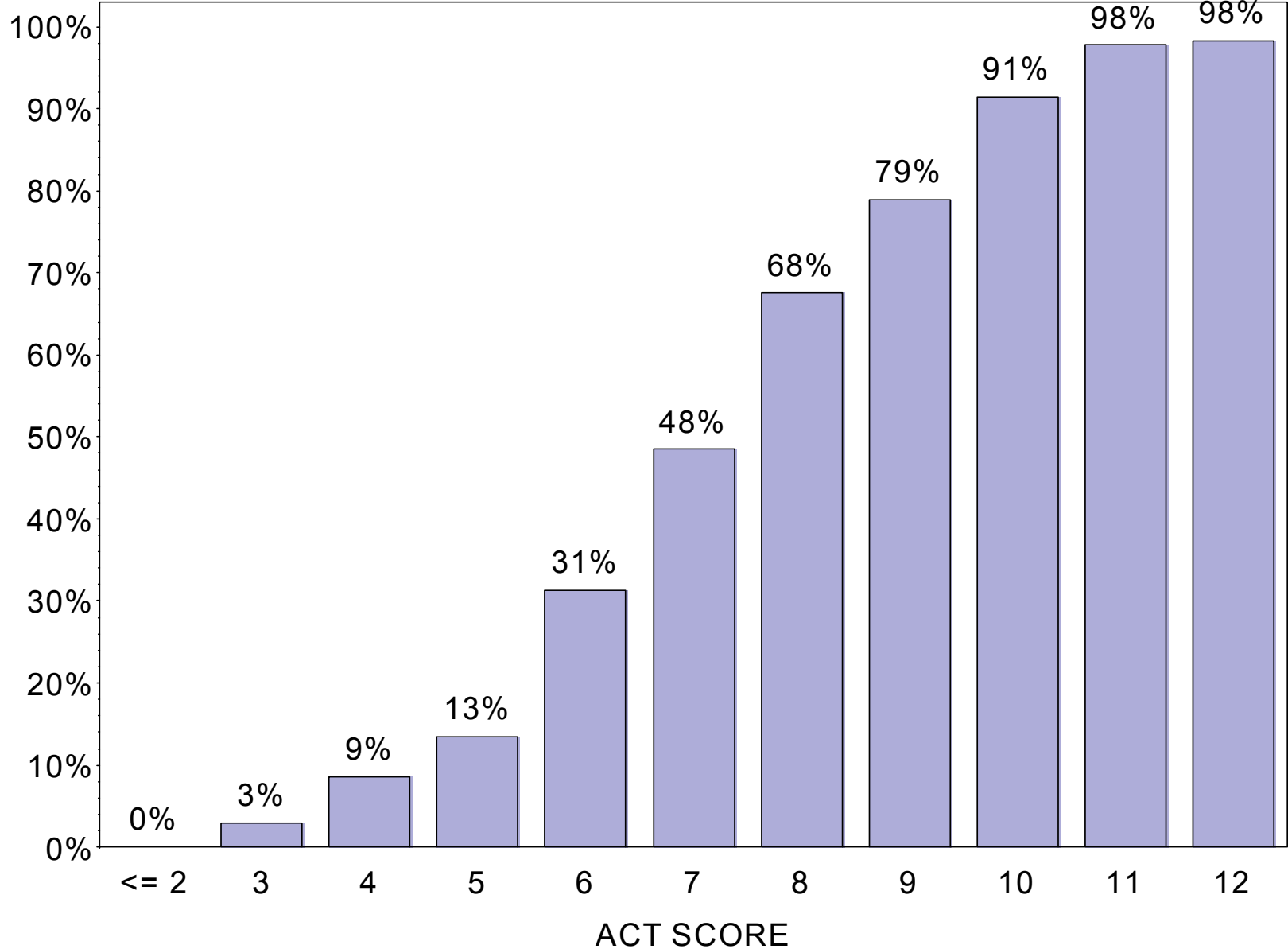
Writing – ACT English, Pct Met/Exceeded Standards on the MME

PCT MET/
EXCEED



Writing – ACT Writing SubScore, Pct Met/Exceeded Standards on the MME

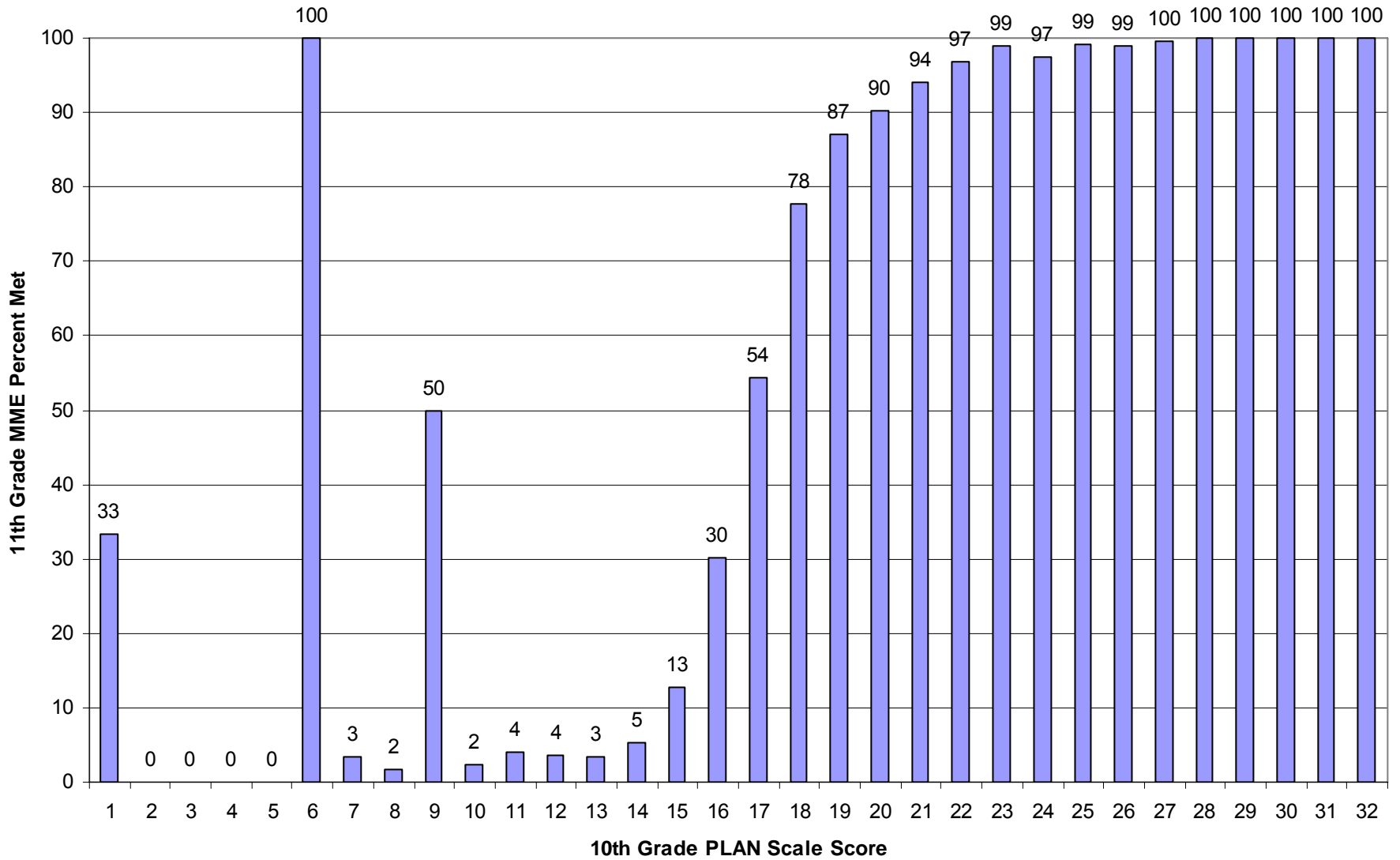
PCT MET/
EXCEED



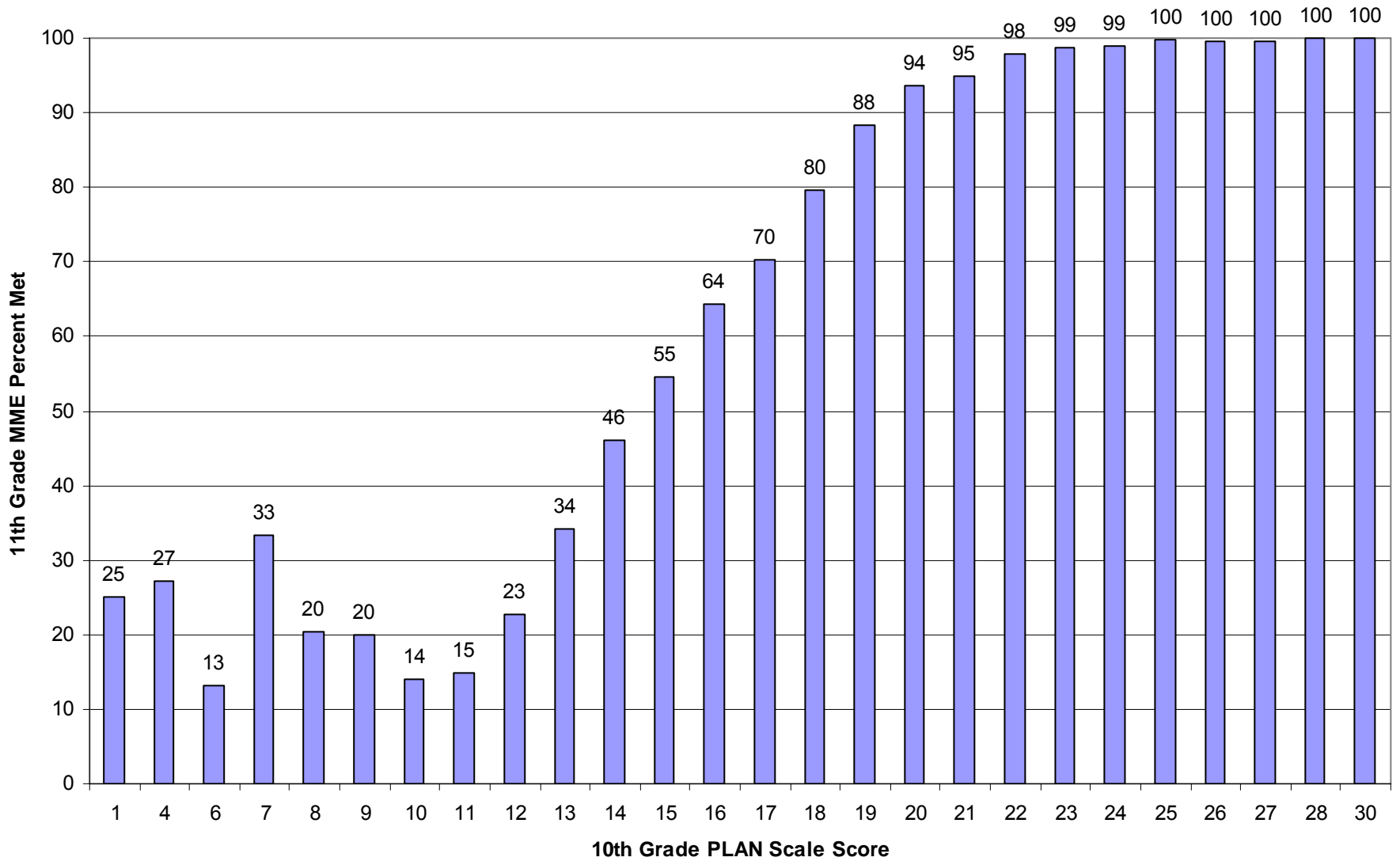
PLAN 05-06 10th Grade
with
MME 06-07 11th Grade

People said, “Can we get lists
of our current 11th graders who need
some help BEFORE they take the
MME?”

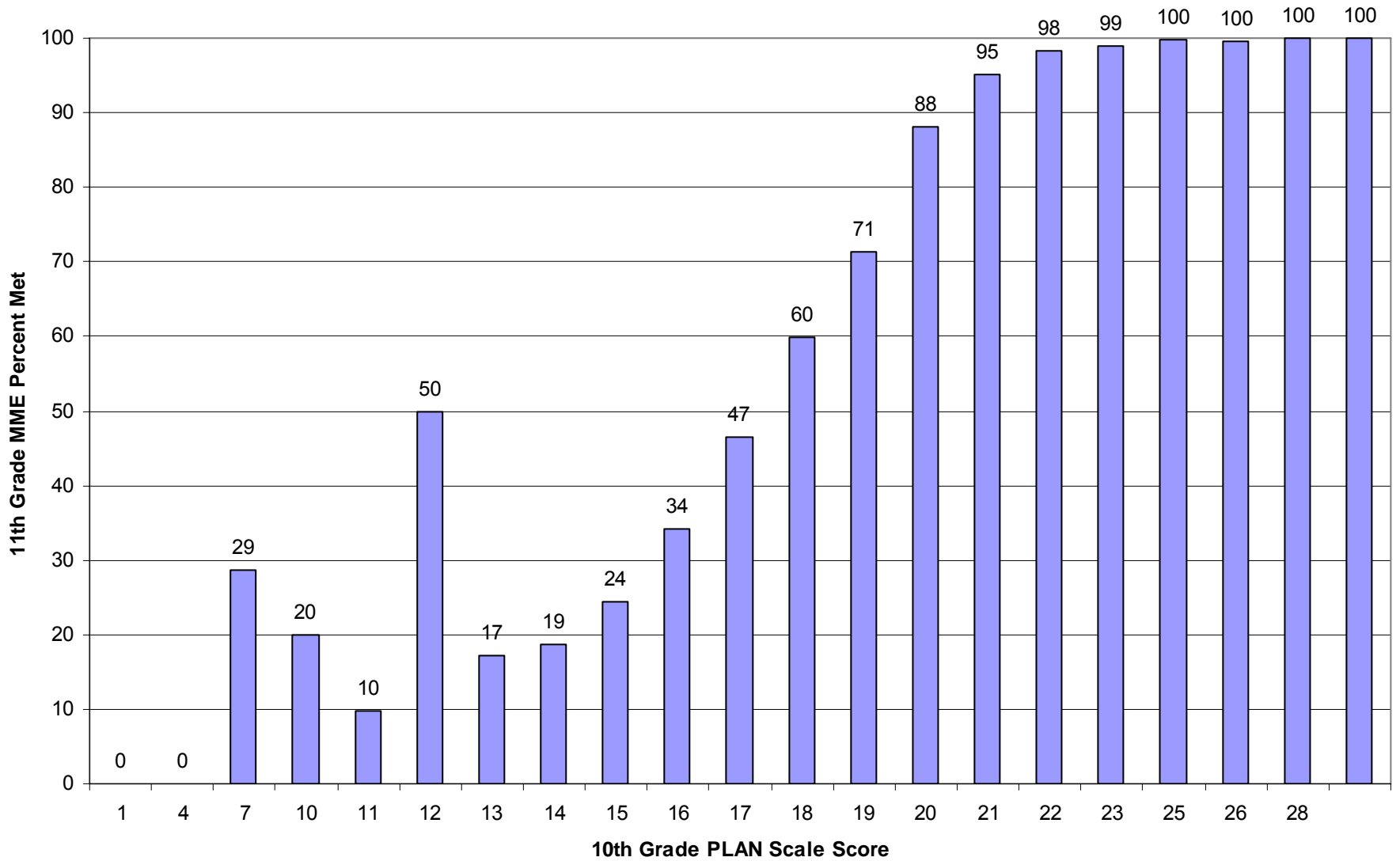
05-06 PLAN Math with 06-07 MME -- Math



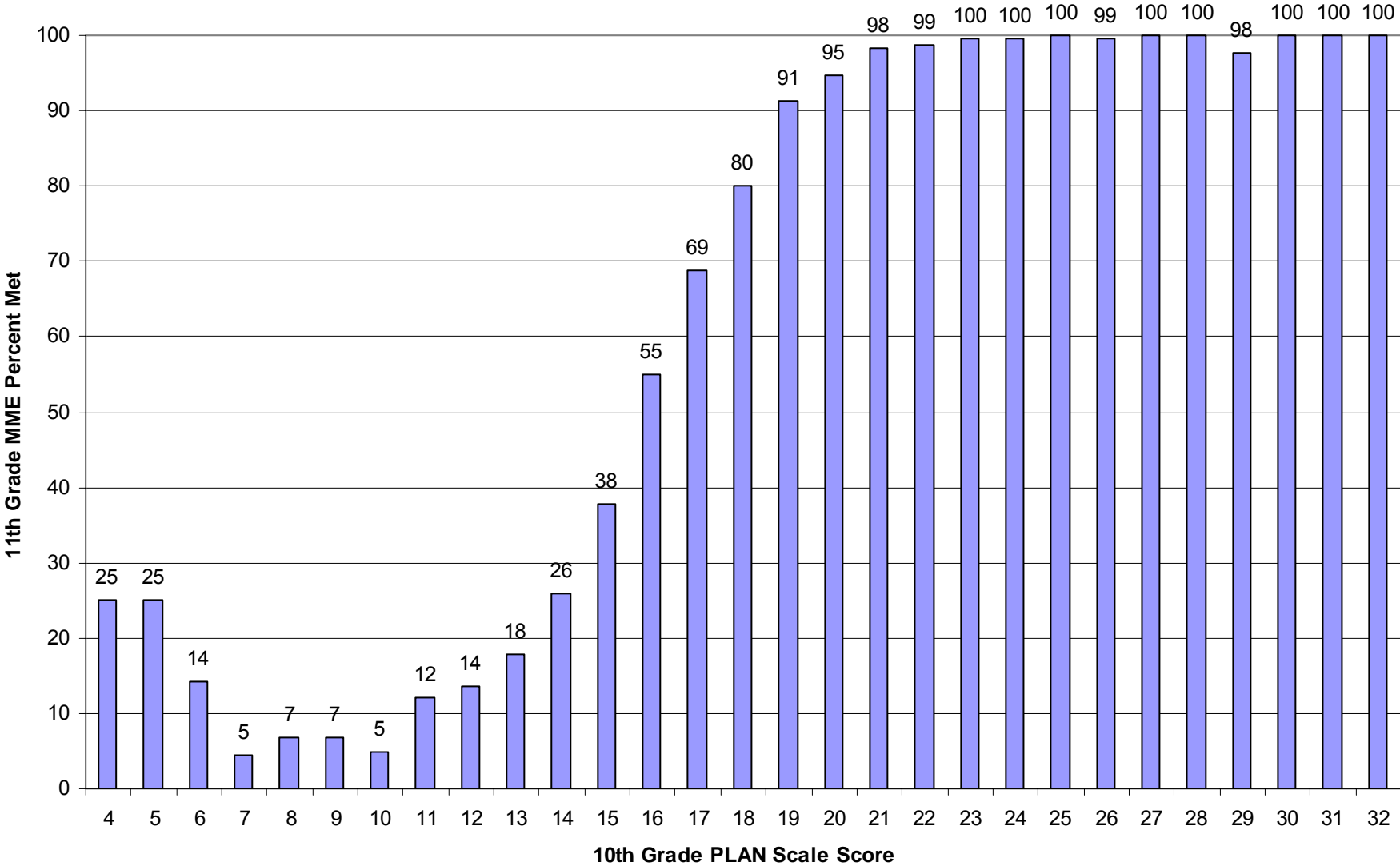
05-06 PLAN Reading with 06-07 MME -- Reading



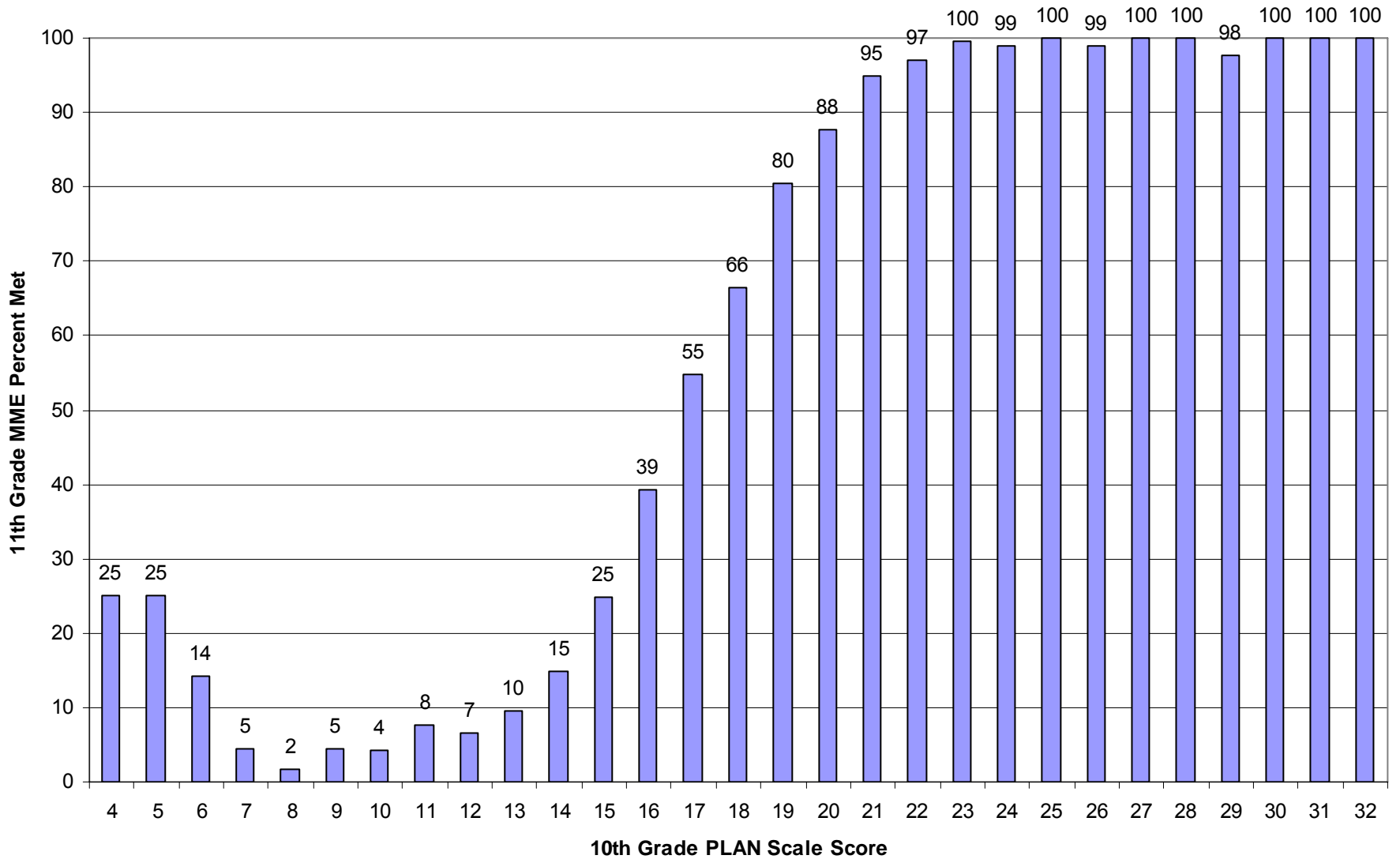
05-06 PLAN Science with 06-07 MME -- Science



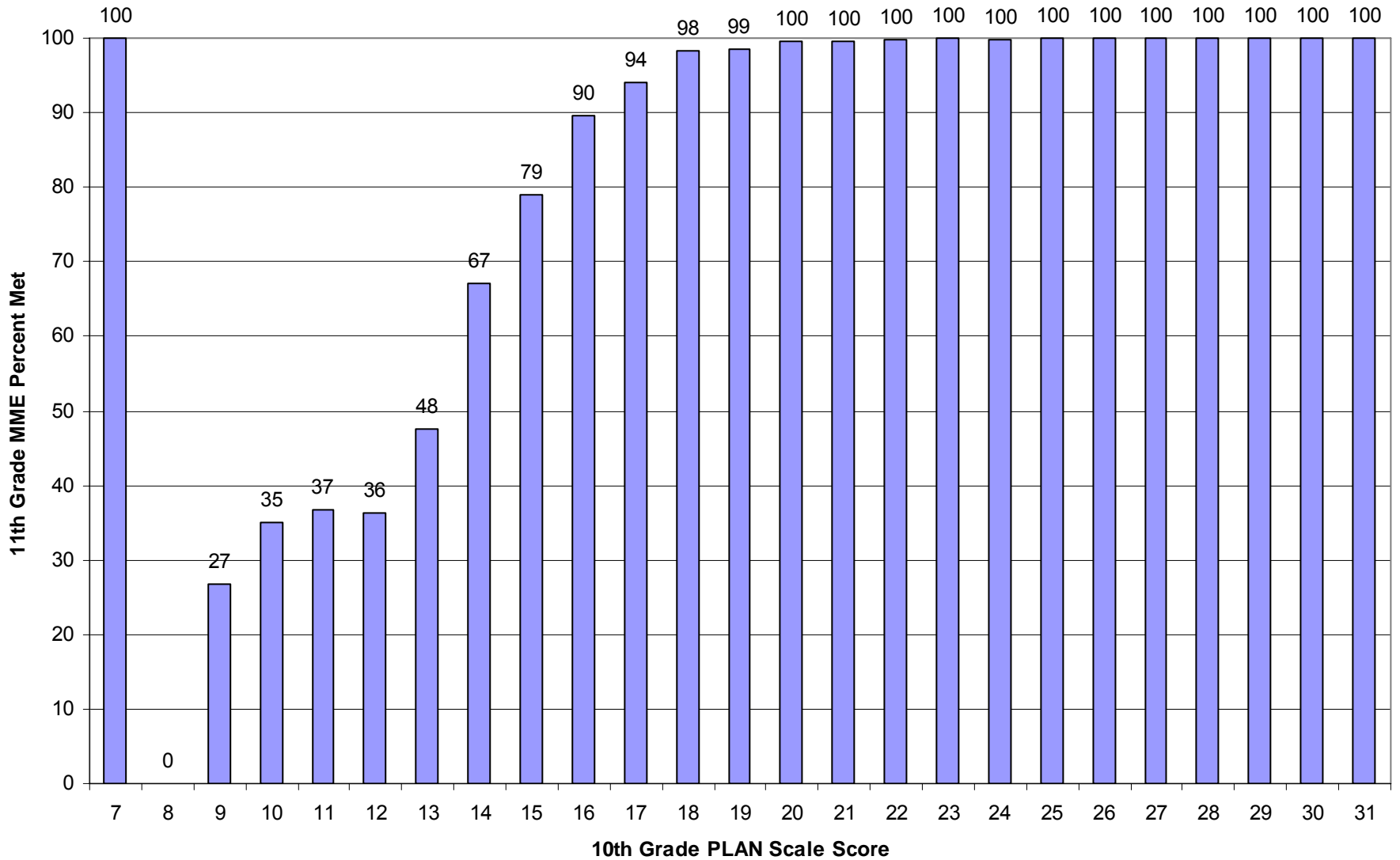
05-06 PLAN English with 06-07 MME -- E.L.A.



05-06 PLAN English with 06-07 MME -- Writing



05-06 PLAN Composite with 06-07 MME -- Social Studies



How are your current 11th grade students probably going to do on the MME?

Percent of Students Who Met or Exceeded MME Standards

	Unlikely	31-69%	Likely	
	0-30%	31-69%	70-100%	PLAN Score
Math	< 16	17	18 +	(Math)
Science	< 15	16-18	19 +	(Science)
Social Studies	< 9	10-14	15 +	(Composite)
Reading	< 12	13-16	17 +	(Reading)
Writing	< 15	16-18	19 +	(English)
ELA	< 14	15-17	18 +	(English)

To read the table: Students who had an 18 or higher on the PLAN math test had at least a 70% chance of meeting standards on the MME math test.

Percent of Students Who Met or Exceeded MME Standards

	0-25%	26-50%	51-75%	76-100%	PLAN Score
Math	< 15	16	17	18 +	(Math)
Science	< 15	16-17	18-19	20 +	(Science)
Social Studies	< 8	9-13	14	15 +	(Composite)
Reading	< 12	13-14	15-17	18 +	(Reading)
Writing	< 15	16	17-18	19 +	(English)
ELA	< 13	14-15	16-17	18 +	(English)

To read the table: 51-75% of students with 10th grade PLAN Math Scale Scores of 17 met state standards on their 11th grade MME math test.

	0-10%	11-25%	26-50%	51-75%	76-89	90-100%	PLAN Score
Math	1-14	15	16	17	18-19	20-32	(Math)
Science	1-11	12-15	16-17	18-19	20	21-32	(Science)
Social Studies		7-8	9-13	14	15	16-31	(Composite)
Reading		1-12	13-14	15-17	18-19	20-30	(Reading)
Writing	1-13	14-15	16	17-18	19-20	21-32	(English)
ELA	1-10	11-13	14-15	16-17	18	19-32	(English)

	0-20%	21-40%	41-60%	61-80%	81-100%	PLAN Score
Math	1-15	16	17	18	19-32	(Math)
Science	1-14	15-16	17-18	19	20-32	(Science)
Social Studies		7-12	13	14-15	16-31	(Composite)
Reading	1-11	12-13	14-15	16-17	18-30	(Reading)
Writing	1-14	15-16	17	18	19-32	(English)
ELA	1-13	14-15	16	17-18	19-32	(English)

Descriptive Statistics

	Mean	Std. Deviation	N
SCR_ENG	17.198	4.7049	13455
SCR_MATH	18.318	5.0319	13445
SCR_READ	17.473	4.6873	13414
SCR_SCI	18.831	3.8350	13401
SCR_COMP	18.115	4.0322	13281
MMEELAScaleScore	1104.51	30.142	14078
MMEWritingScaleScore	1098.15	32.071	14124
MMEMathScaleScore	1098.94	31.862	14413
MMEReadingScaleScore	1109.21	32.693	14419
MMEScienceScaleScore	1103.89	36.132	14394
MMESocialStudiesScale Score	1127.87	25.574	14273

Correlations

		SCR_ENG	SCR_MATH	SCR_READ	SCR_SCI	SCR_COMP	MMEELAScaleScore	MMEWritingScaleScore	MMEMathScaleScore	MMEReadinScaleScore	MMEScienceScaleScore	MMESocialStudiesScaleScore
SCR_ENG	Pearson Correlation	1	.721**	.743**	.723**	.902**	.800**	.781**	.690**	.732**	.663**	.705**
	Sig. (2-tailed)		.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	13455	13385	13354	13333	13281	10427	10451	10560	10564	10559	10510
SCR_MATH	Pearson Correlation	.721**	1	.636**	.751**	.882**	.707**	.690**	.776**	.647**	.674**	.679**
	Sig. (2-tailed)	.000		.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	13385	13445	13368	13354	13281	10413	10438	10545	10549	10546	10497
SCR_READ	Pearson Correlation	.743**	.636**	1	.692**	.867**	.739**	.684**	.599**	.711**	.601**	.667**
	Sig. (2-tailed)	.000	.000		.000	.000	.000	.000	.000	.000	.000	.000
	N	13354	13368	13414	13366	13281	10405	10431	10535	10539	10537	10490
SCR_SCI	Pearson Correlation	.723**	.751**	.692**	1	.881**	.720**	.685**	.704**	.676**	.673**	.688**
	Sig. (2-tailed)	.000	.000	.000		.000	.000	.000	.000	.000	.000	.000
	N	13333	13354	13366	13401	13281	10400	10426	10531	10535	10533	10484
SCR_COMP	Pearson Correlation	.902**	.882**	.867**	.881**	1	.843**	.807**	.787**	.786**	.740**	.778**
	Sig. (2-tailed)	.000	.000	.000	.000		.000	.000	.000	.000	.000	.000
	N	13281	13281	13281	13281	13281	10342	10366	10471	10475	10472	10424
MMEELAScaleScore	Pearson Correlation	.800**	.707**	.739**	.720**	.843**	1	.948**	.818**	.947**	.798**	.826**
	Sig. (2-tailed)	.000	.000	.000	.000	.000		.000	.000	.000	.000	.000
	N	10427	10413	10405	10400	10342	14078	14078	14071	14078	14075	14076
MMEWritingScaleScore	Pearson Correlation	.781**	.690**	.684**	.685**	.807**	.948**	1	.782**	.795**	.760**	.777**
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000		.000	.000	.000	.000
	N	10451	10438	10431	10426	10366	14078	14124	14073	14078	14119	14122
MMEMathScaleScore	Pearson Correlation	.690**	.776**	.599**	.704**	.787**	.818**	.782**	1	.776**	.796**	.768**
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000		.000	.000	.000
	N	10560	10545	10535	10531	10471	14071	14073	14413	14409	14341	14125
MMEReadinScaleScore	Pearson Correlation	.732**	.647**	.711**	.676**	.786**	.947**	.795**	.776**	1	.753**	.789**
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000		.000	.000
	N	10564	10549	10539	10535	10475	14078	14078	14409	14419	14347	14131
MMEScienceScaleScore	Pearson Correlation	.663**	.674**	.601**	.673**	.740**	.798**	.760**	.796**	.753**	1	.766**
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000	.000		.000
	N	10559	10546	10537	10533	10472	14075	14119	14341	14347	14394	14171
MMESocialStudiesScaleScore	Pearson Correlation	.705**	.679**	.667**	.688**	.778**	.826**	.777**	.768**	.789**	.766**	1
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	N	10510	10497	10490	10484	10424	14076	14122	14125	14131	14171	14273

**Correlation is significant at the 0.01 level (2-tailed).

HS AYP Results, 05-06 & 06-07 – What Happened?

AYP and HST/MME Results, 05-06 & 0607

	<u>05-06</u>	<u>06-07</u>
Made AYP	67%	57%
	(806)	(660)
Missed AYP	33%	43%
	(399)	(489)
<hr/>		
	<u>HST - Sp 06</u>	<u>MME - Sp 07</u>
Math	46%	46%
ELA	52%	51%
Reading	61%	60%
Writing	46%	40%

MME 06-07 11th Grade

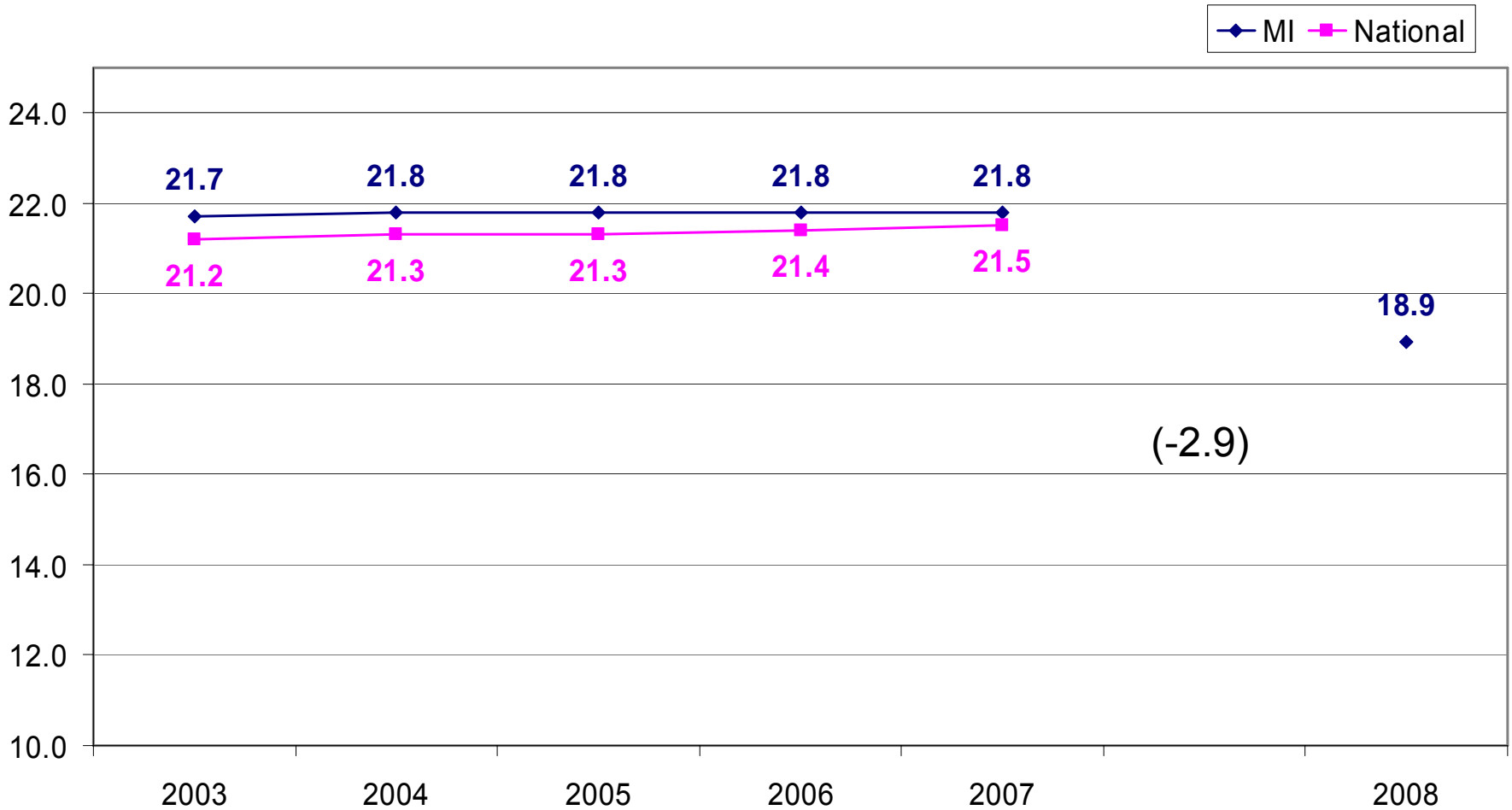
What was the effect of testing
“all” students in Michigan on
ACT the National comparison?

ACT Math



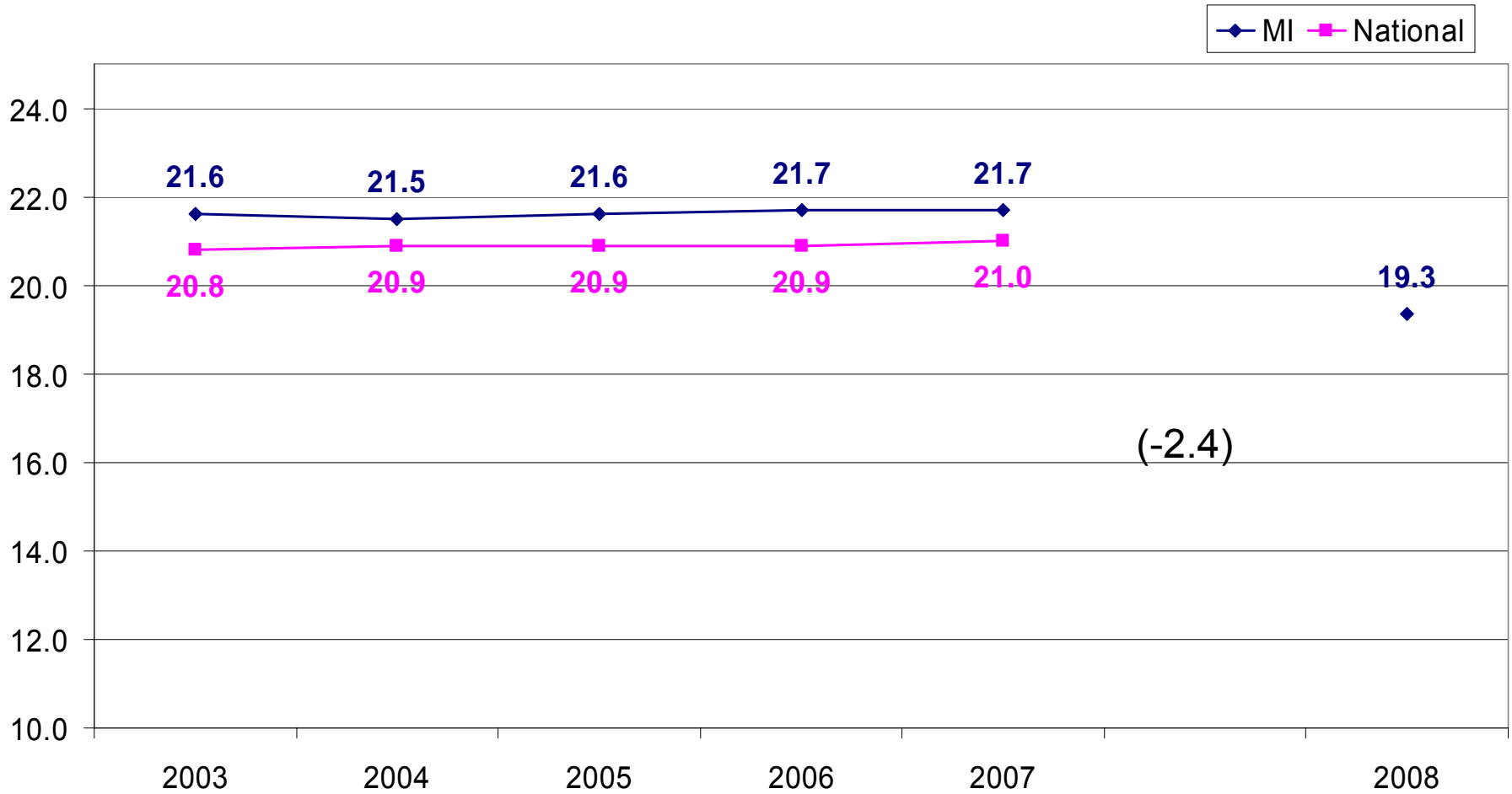
2003-2007 represents Graduating Seniors. 2008 represents 11th grade testers (MME).

ACT Reading



2003-2007 represents Graduating Seniors. 2008 represents 11th grade testers (MME).

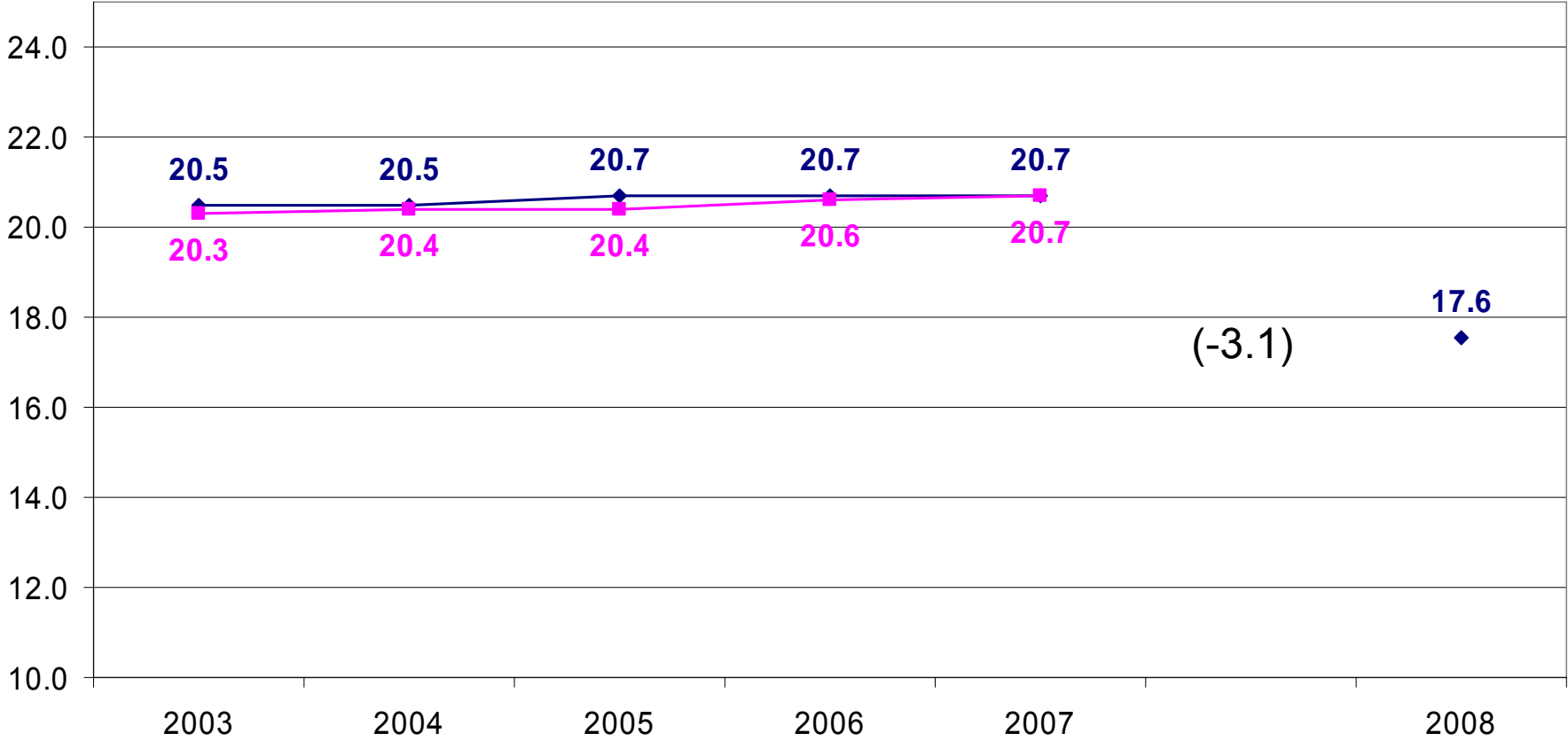
ACT Science



2003-2007 represents Graduating Seniors. 2008 represents 11th grade testers (MME).

ACT English

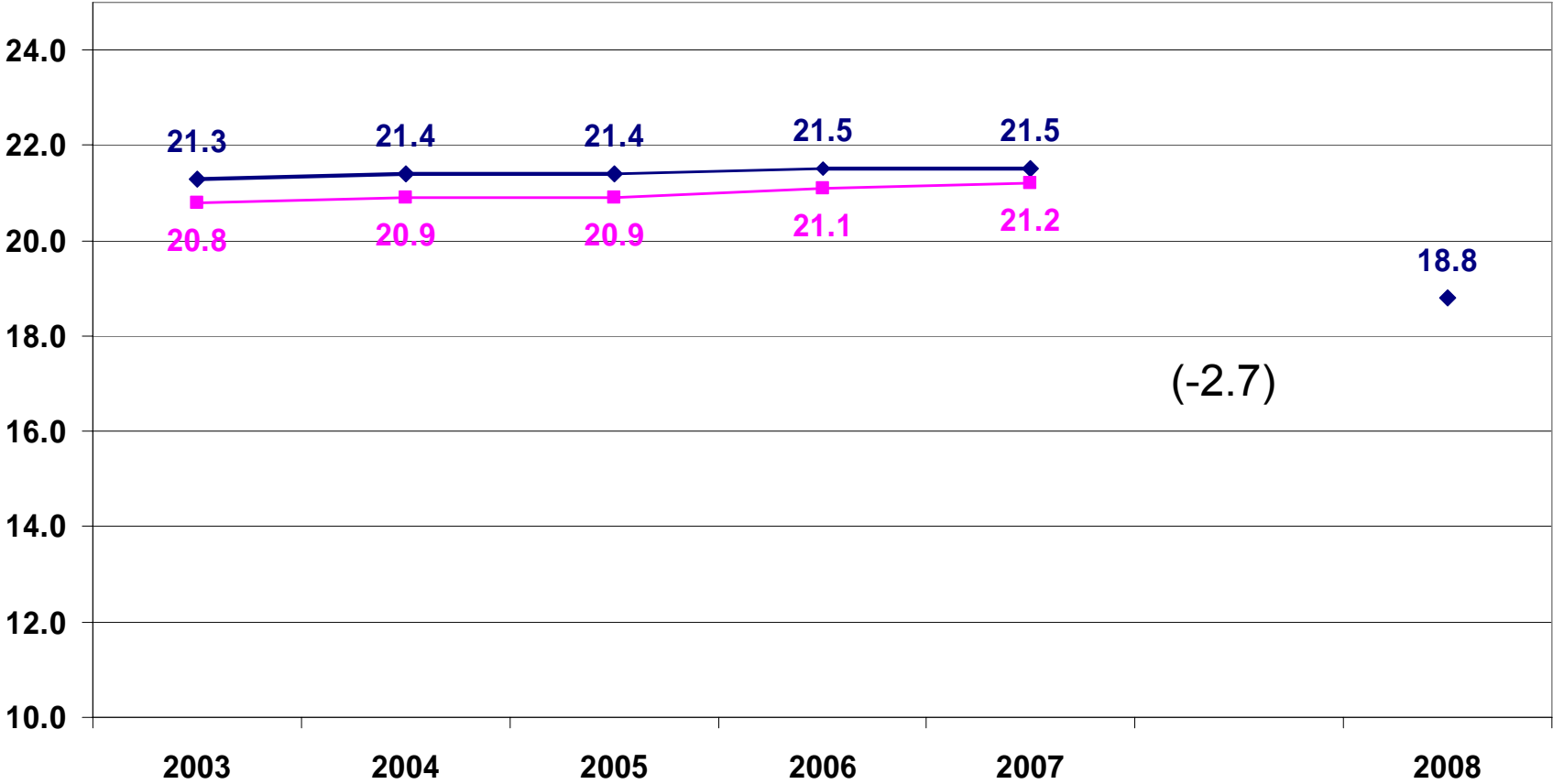
MI National



2003-2007 represents Graduating Seniors. 2008 represents 11th grade testers (MME).

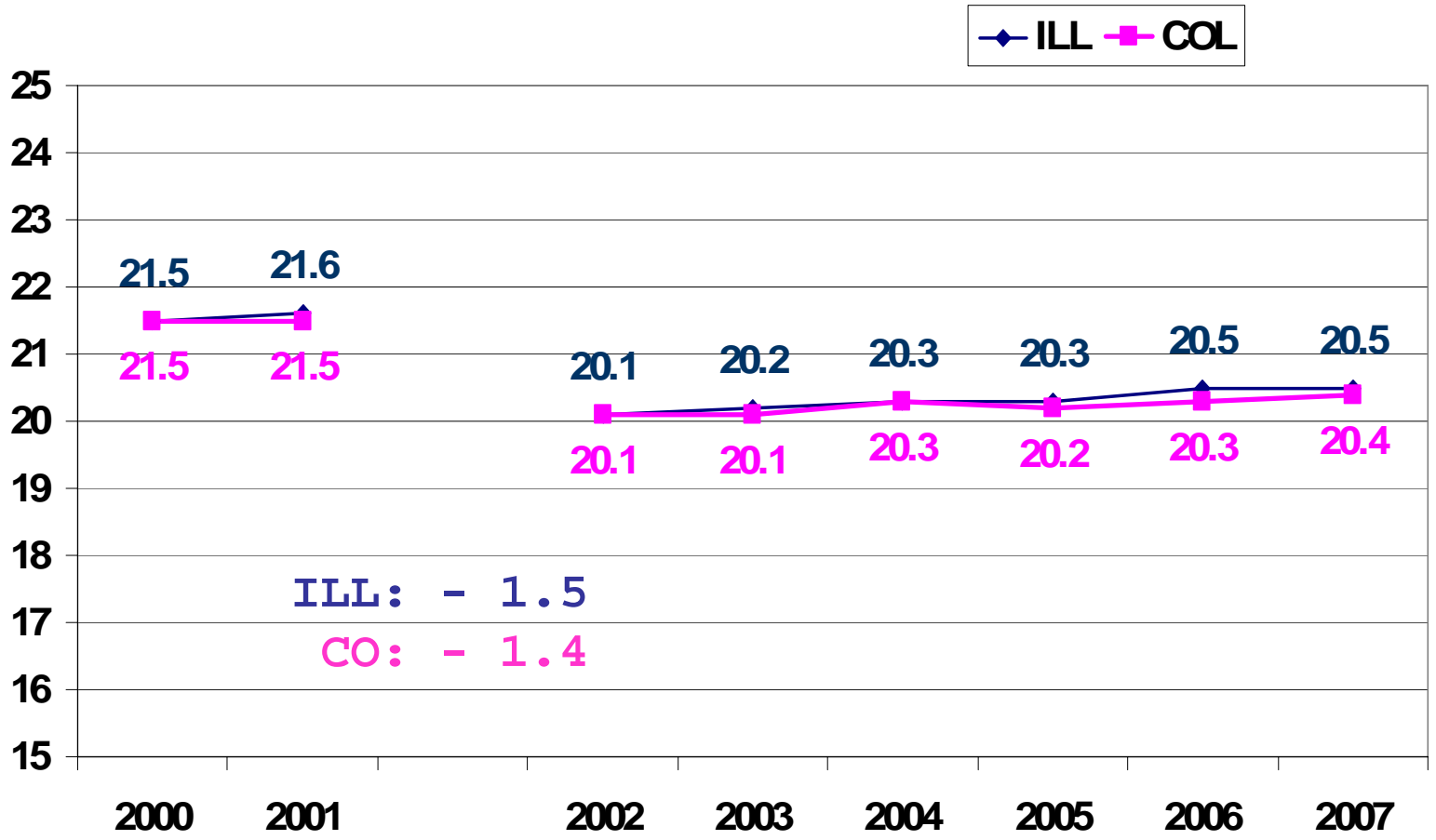
ACT Composite

MI National



2003-2007 represents Graduating Seniors. 2008 represents 11th grade testers (MME).

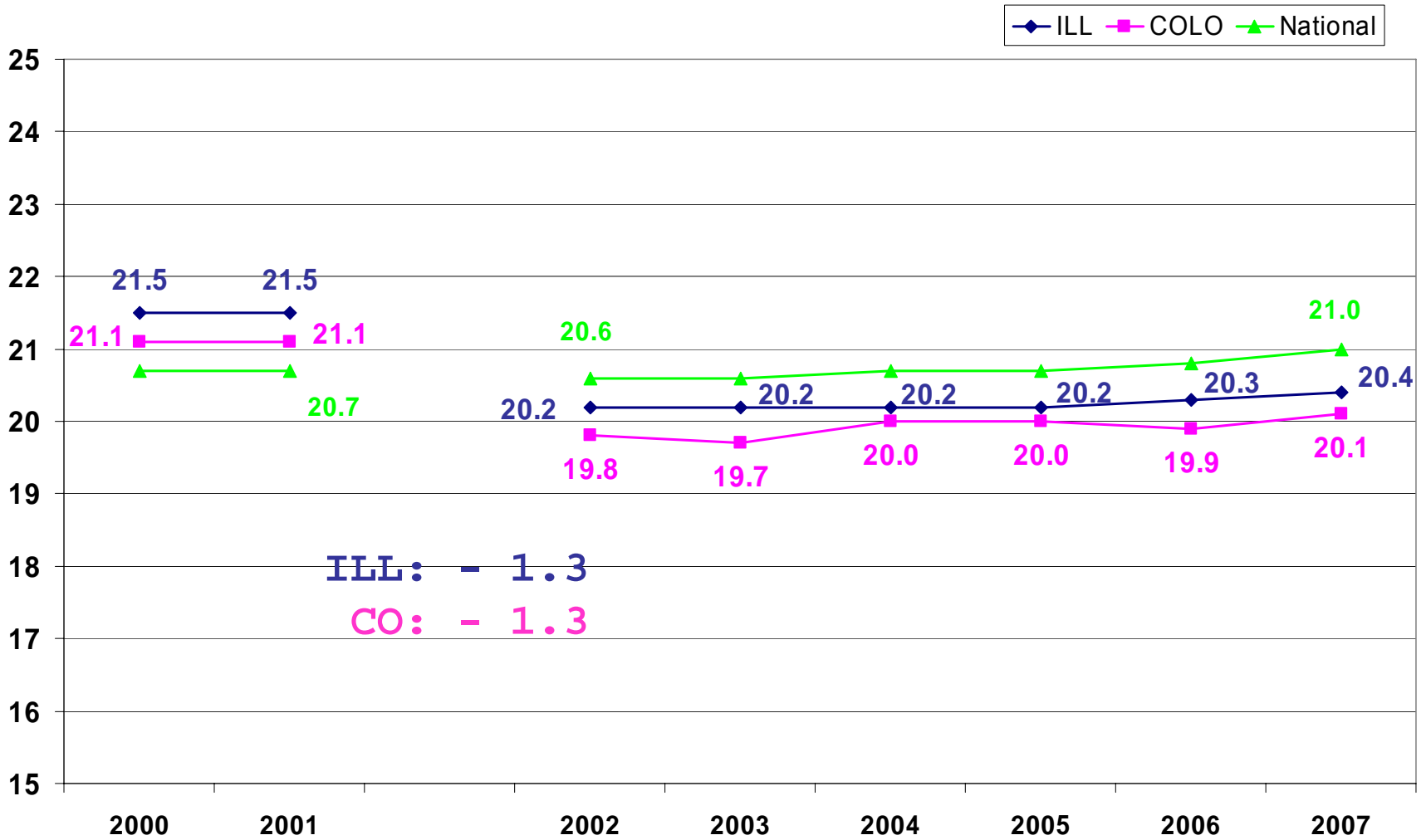
ACT Composite - Illinois & Colorado



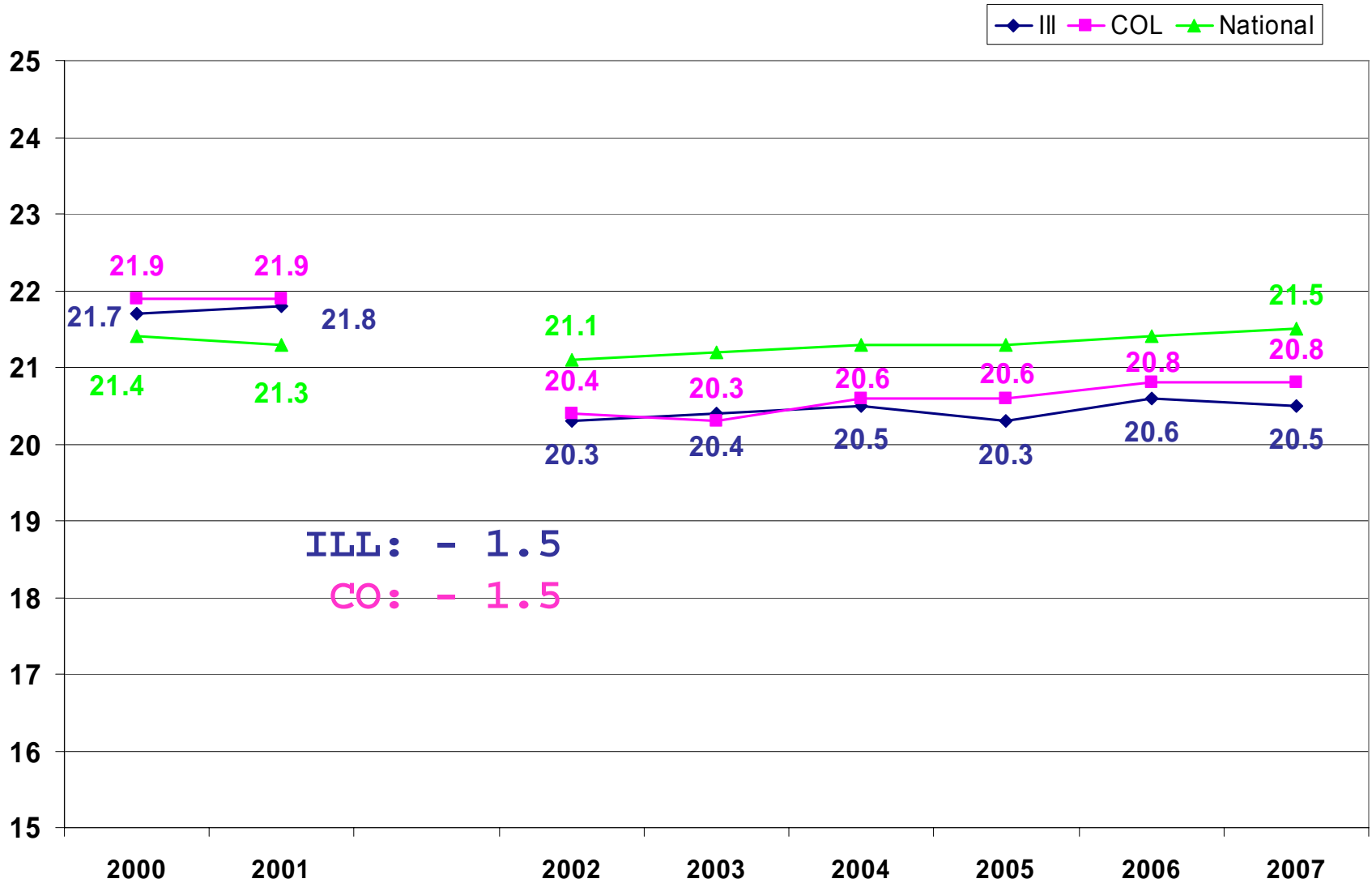
**PCT
TESTED**

ILL	72%	71%	99%	100%	99%	100%	100%	100%
COL	64%	62%	99%	100%	100%	100%	100%	100%
MI	71%	69%	68%	69%	68%	69%	67%	70%

ACT Math - Illinois & Colorado



ACT Reading - Illinois & Colorado



ACT Composite - Illinois & Colorado

