



Education Trends & Future Public Policy

*Hardin County Presentation
November 8, 2007*

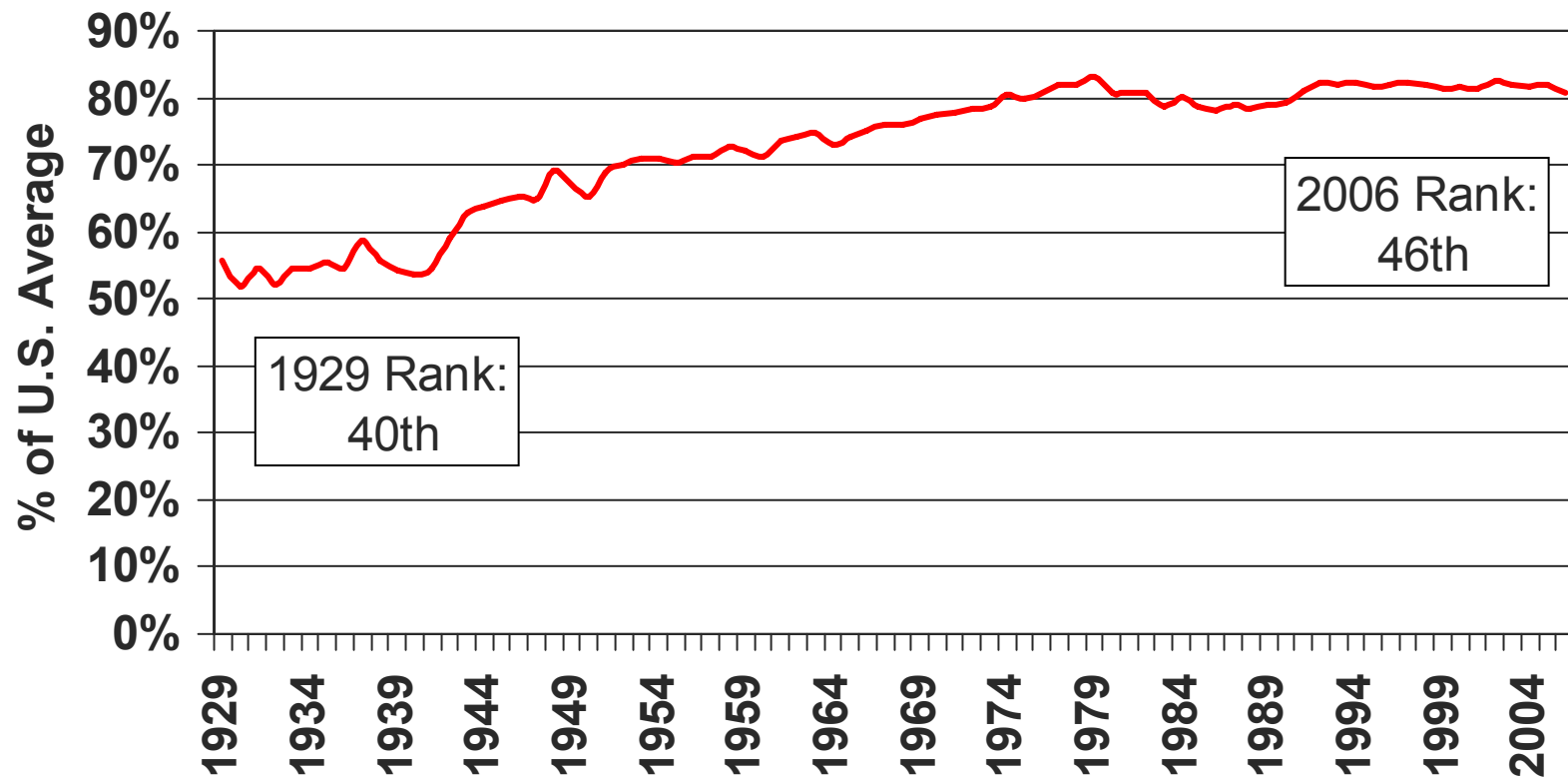
[Background on the Center]

- Purpose
 - Focus attention on future public policy issues
- Created in 1992 by the General Assembly
 - non-partisan
- Governed by a 21-member Board
 - 6 legislators, 4 executive branch personnel, and 11 at-large

[The Context]

- Global labor market
 - Not just low-skill low-wage jobs
 - Increasingly, its high-skill, high-wage jobs
 - Rising numbers of highly skilled workers in developing world willing to work for a fraction of the cost
- US students are middle of the pack
 - High school students perform at or below the OECD median on PISA and TIMSS (2003)
 - KY students trail US students in math assessments (NAEP, 2007)
- Future standard of living could be affected

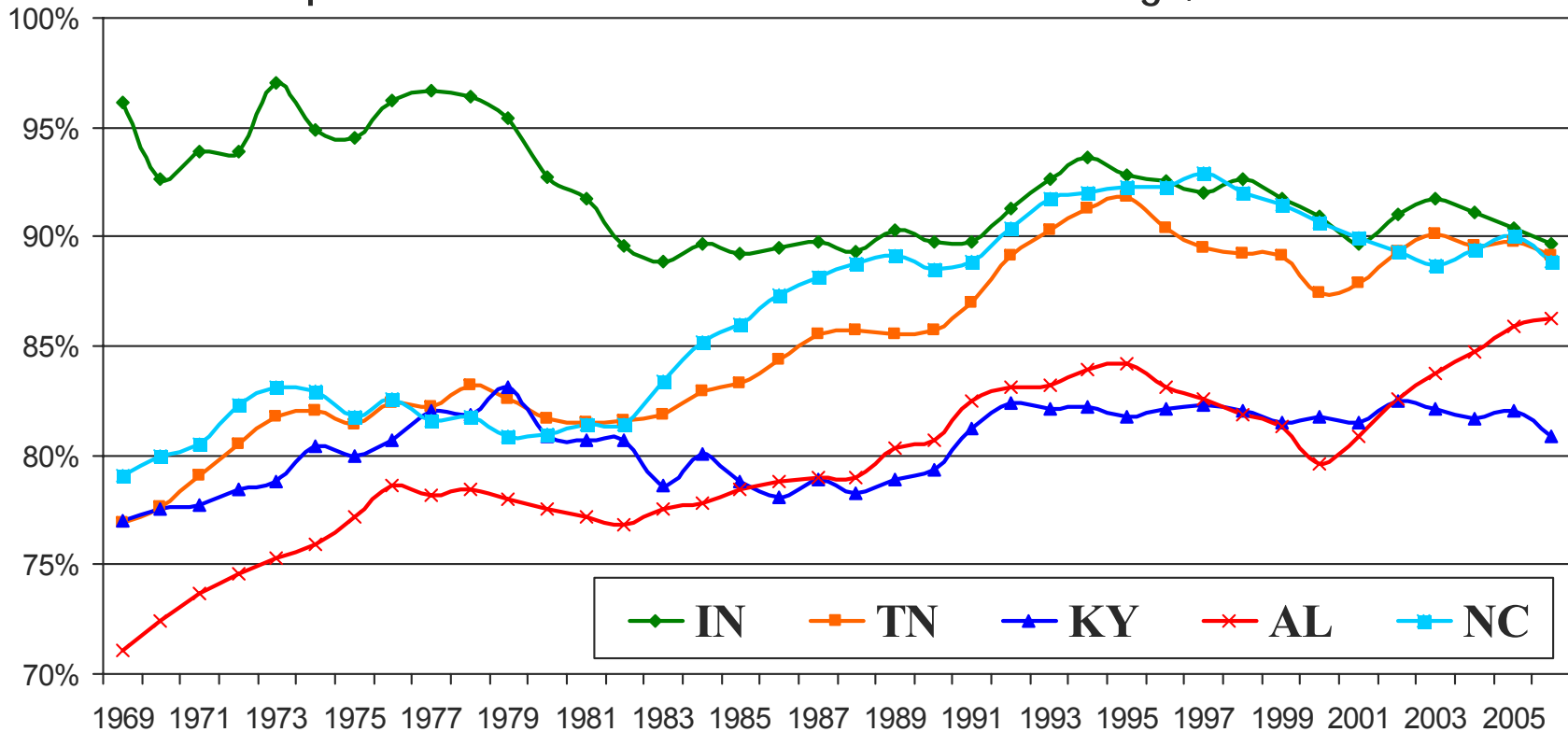
Kentucky Per Capita Income, 1929-2006



Source: BEA

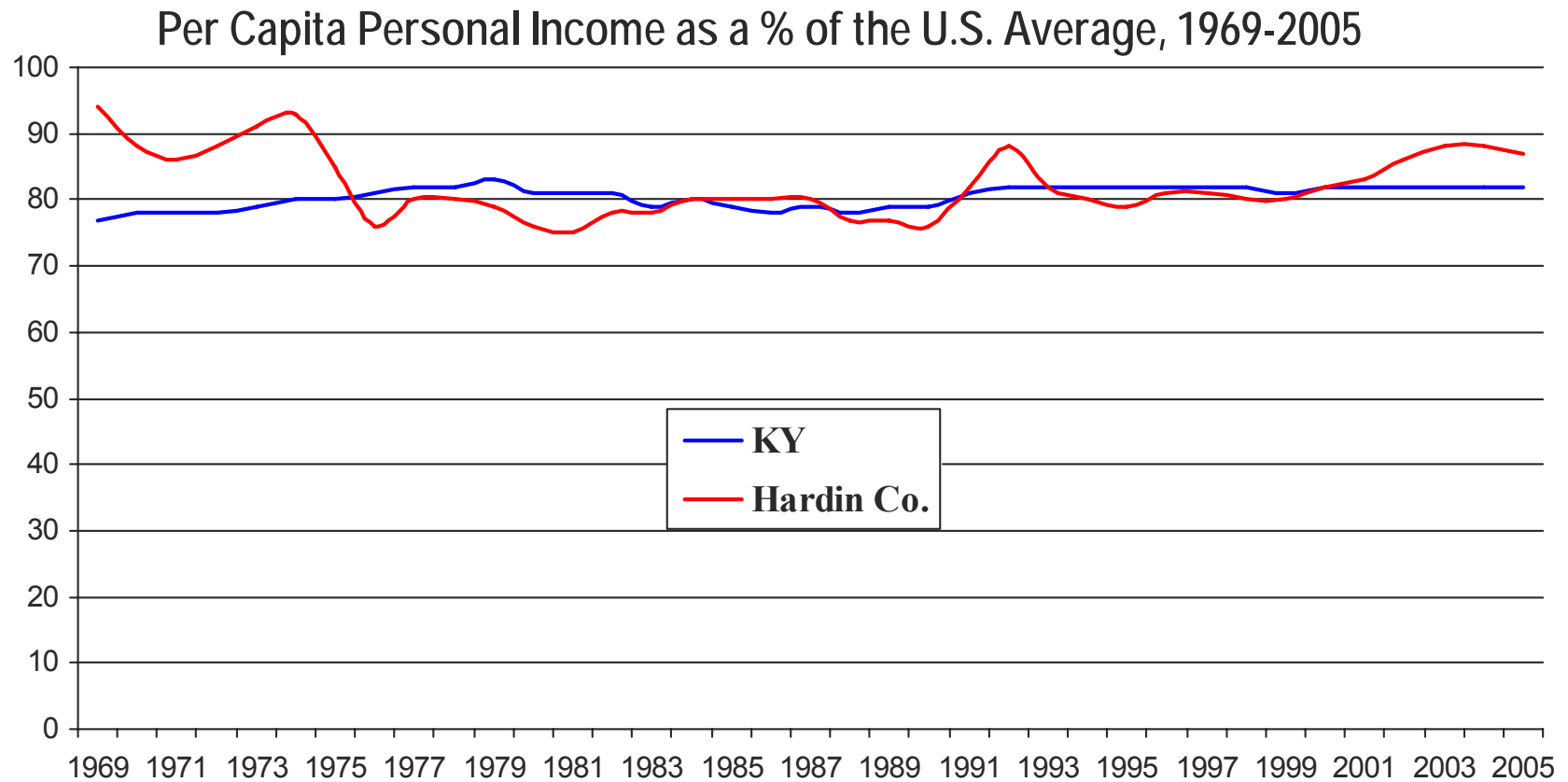
Neighboring States Have Caught or Passed Kentucky

Per Capita Personal Income as a % of the U.S. Average, 1969-2006



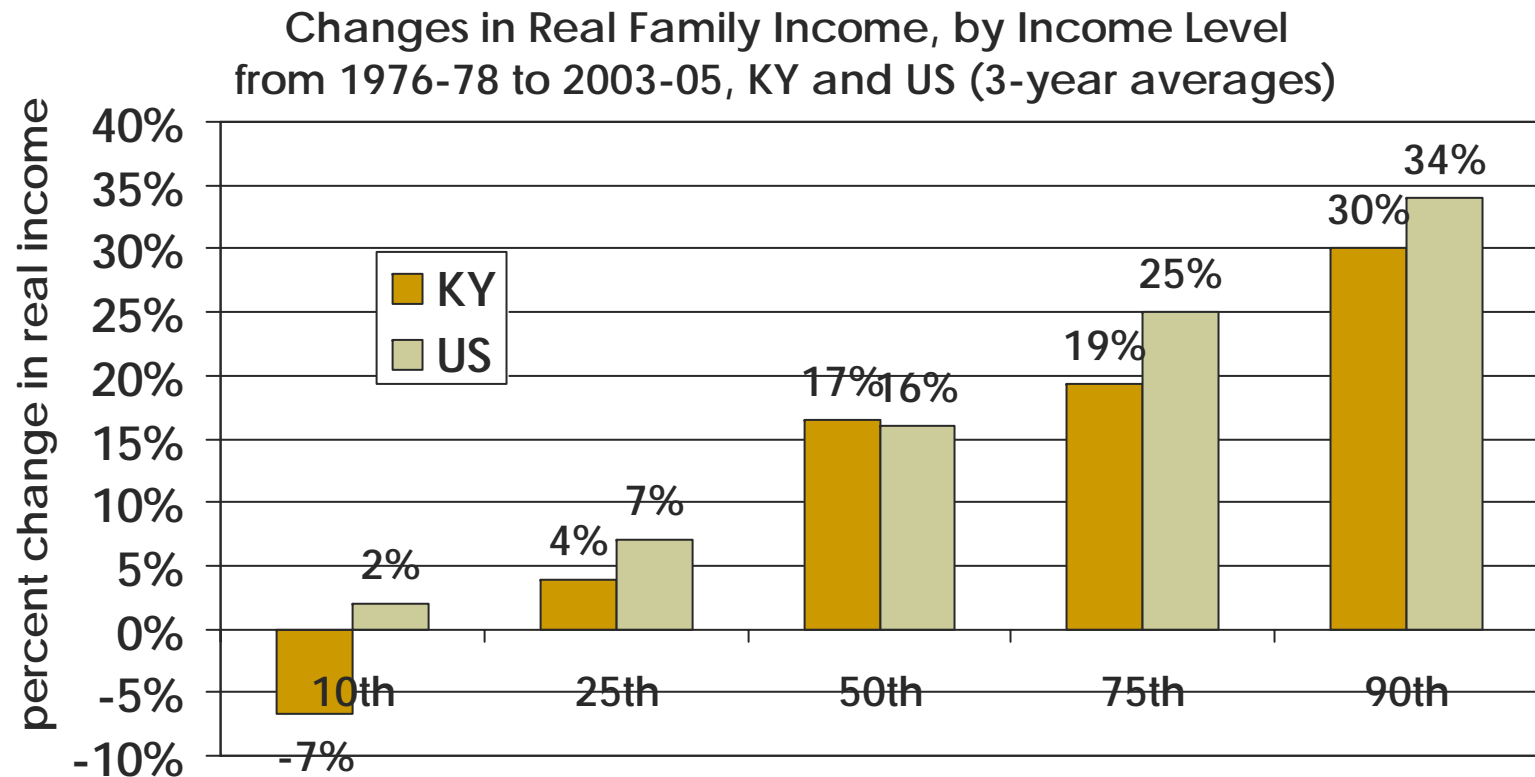
Source: BEA

How does Hardin County compare?

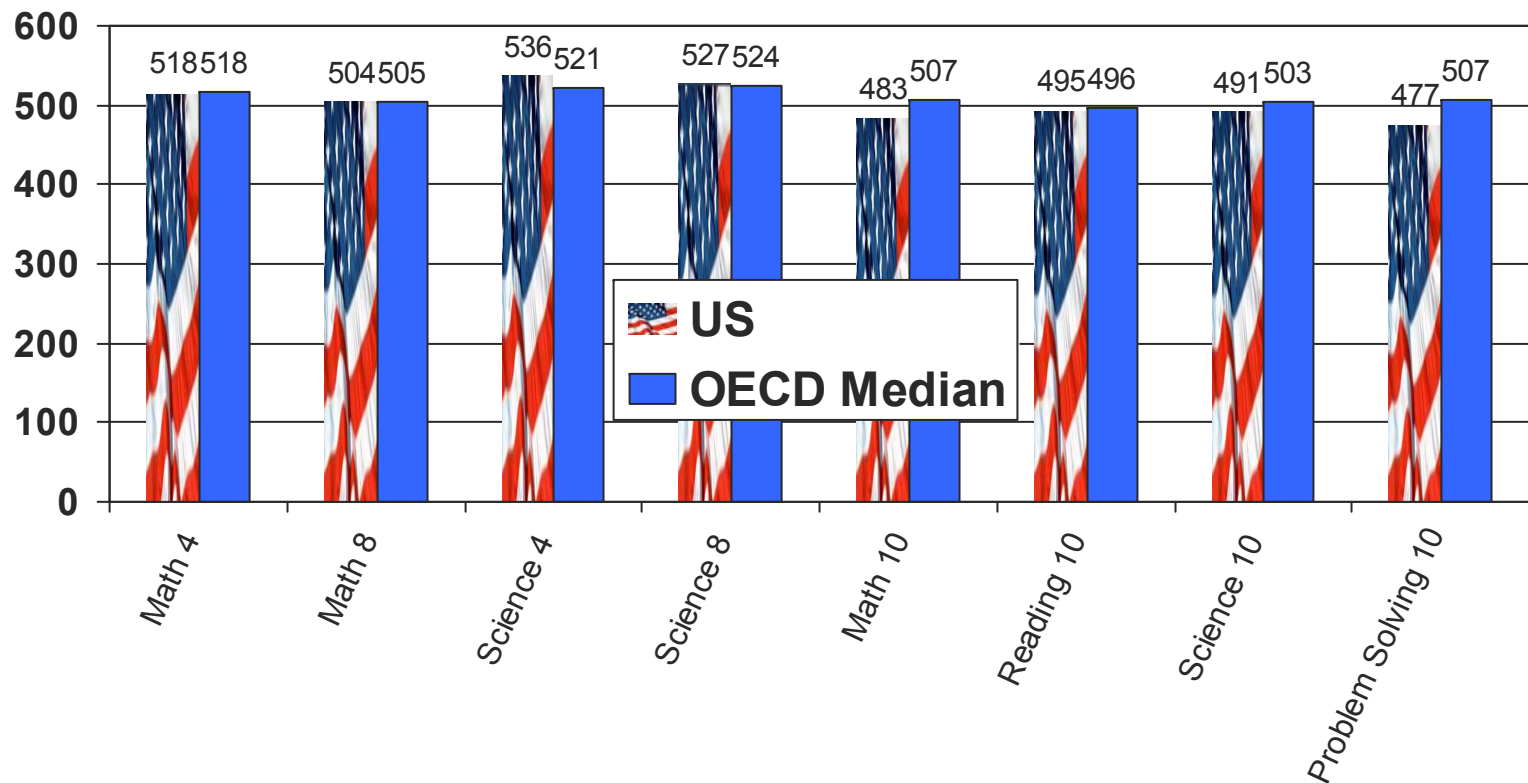


Source: BEA

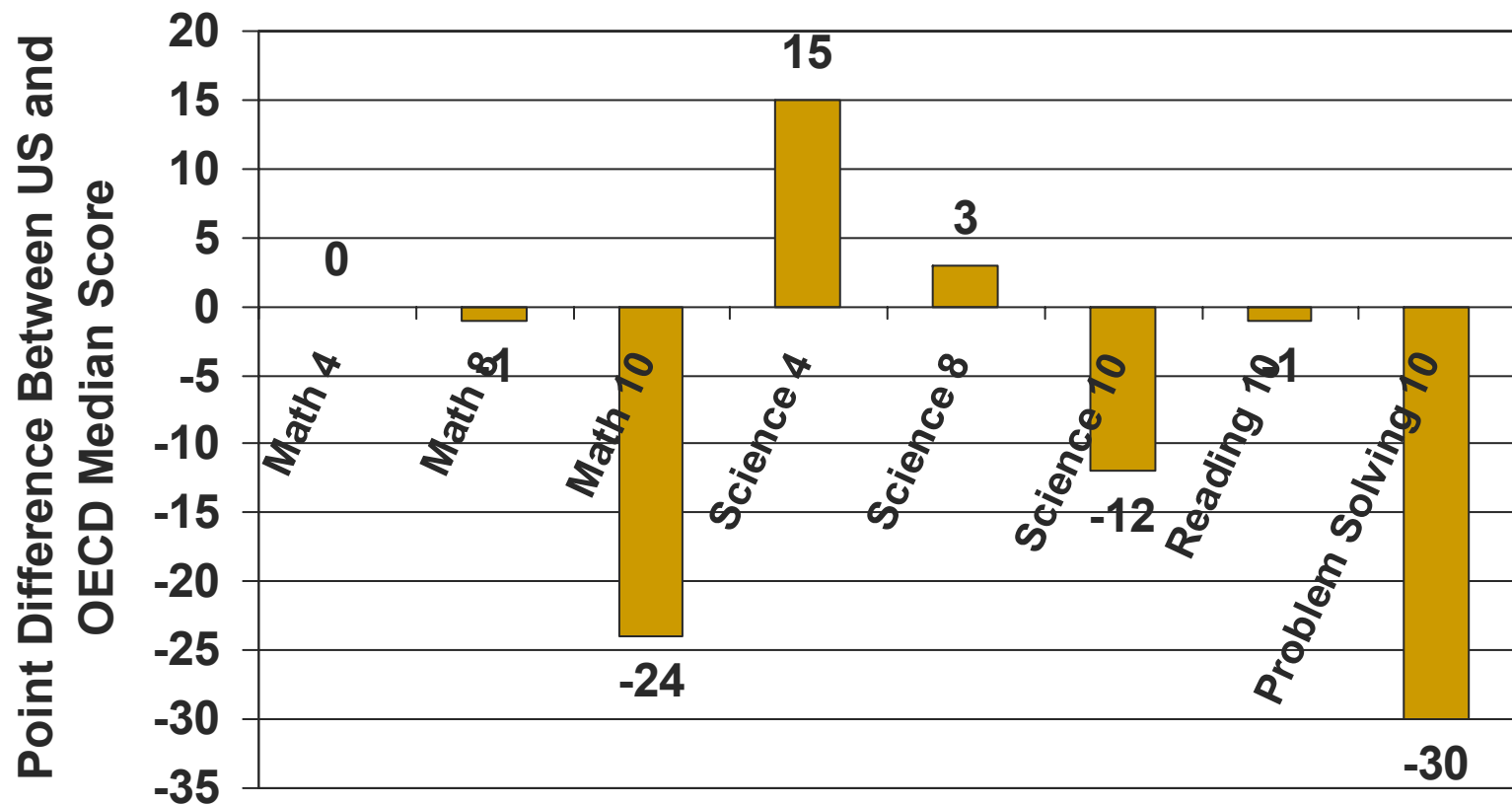
Stagnant Incomes at the Lower Levels



Comparing the US to the OECD Countries on TIMSS and PISA, 2003

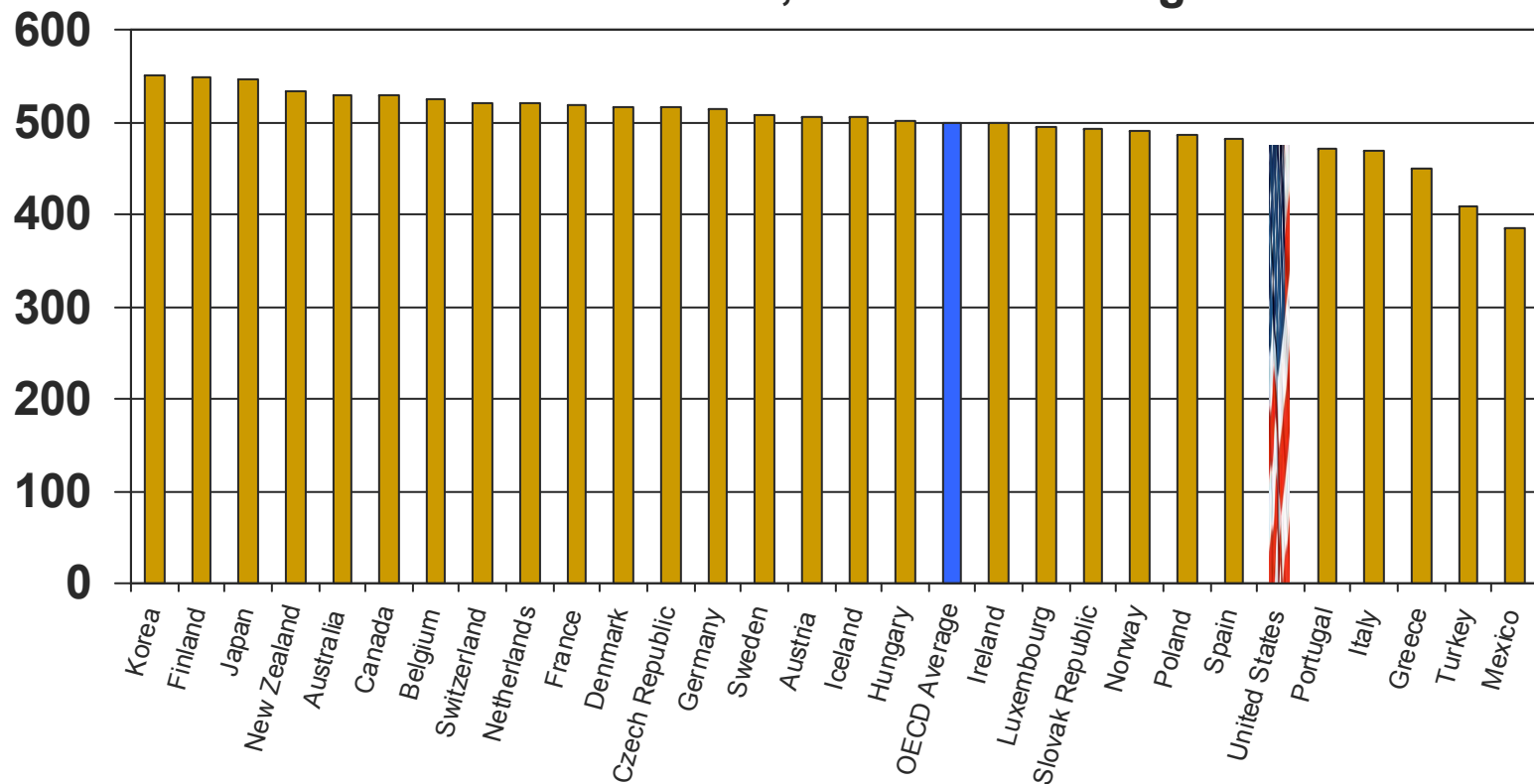


As US Students Advance in Grade, They Fall Behind the OECD Median



US Ranks 24 Out of 29 OECD Countries

2003 PISA Results, Problem Solving

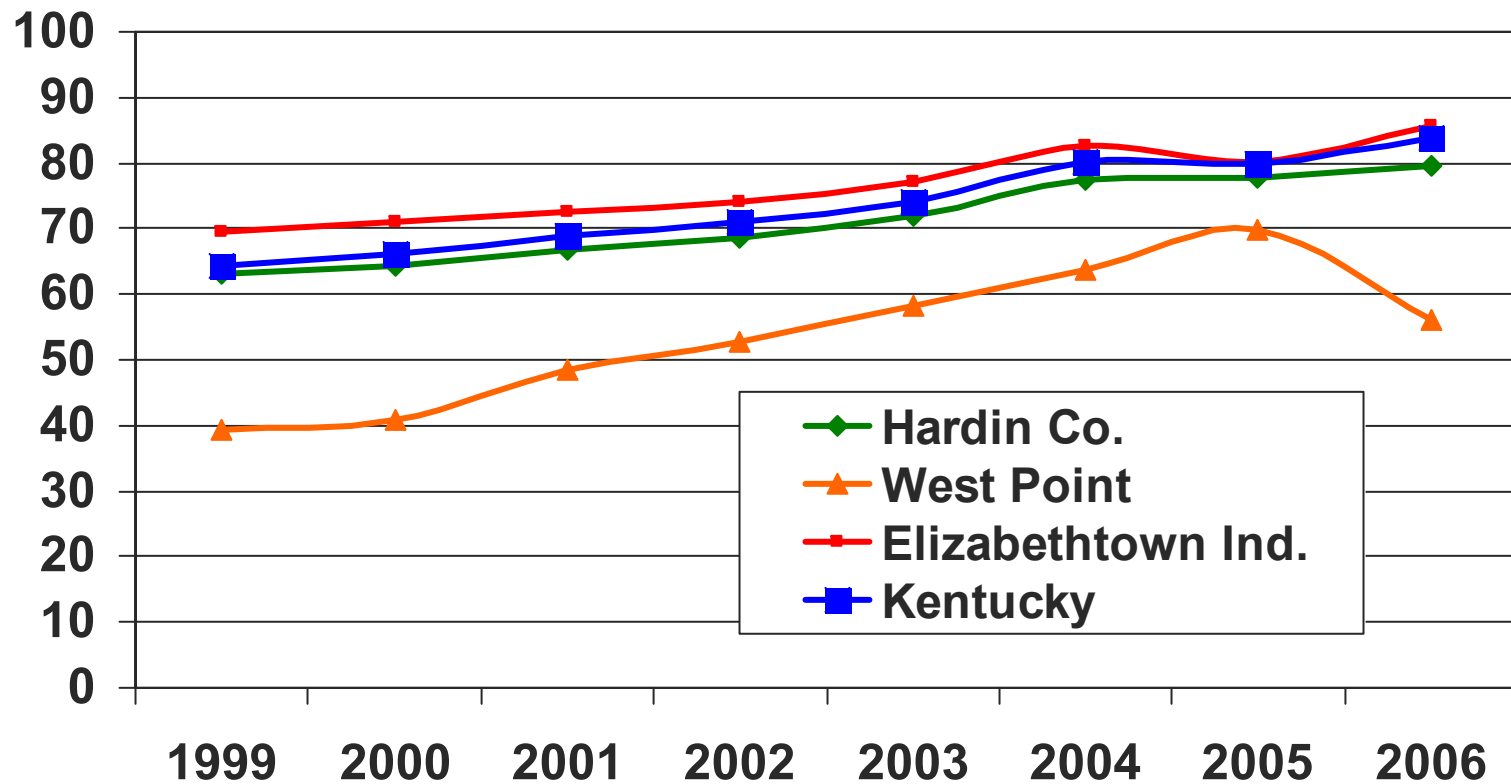


Source: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2003

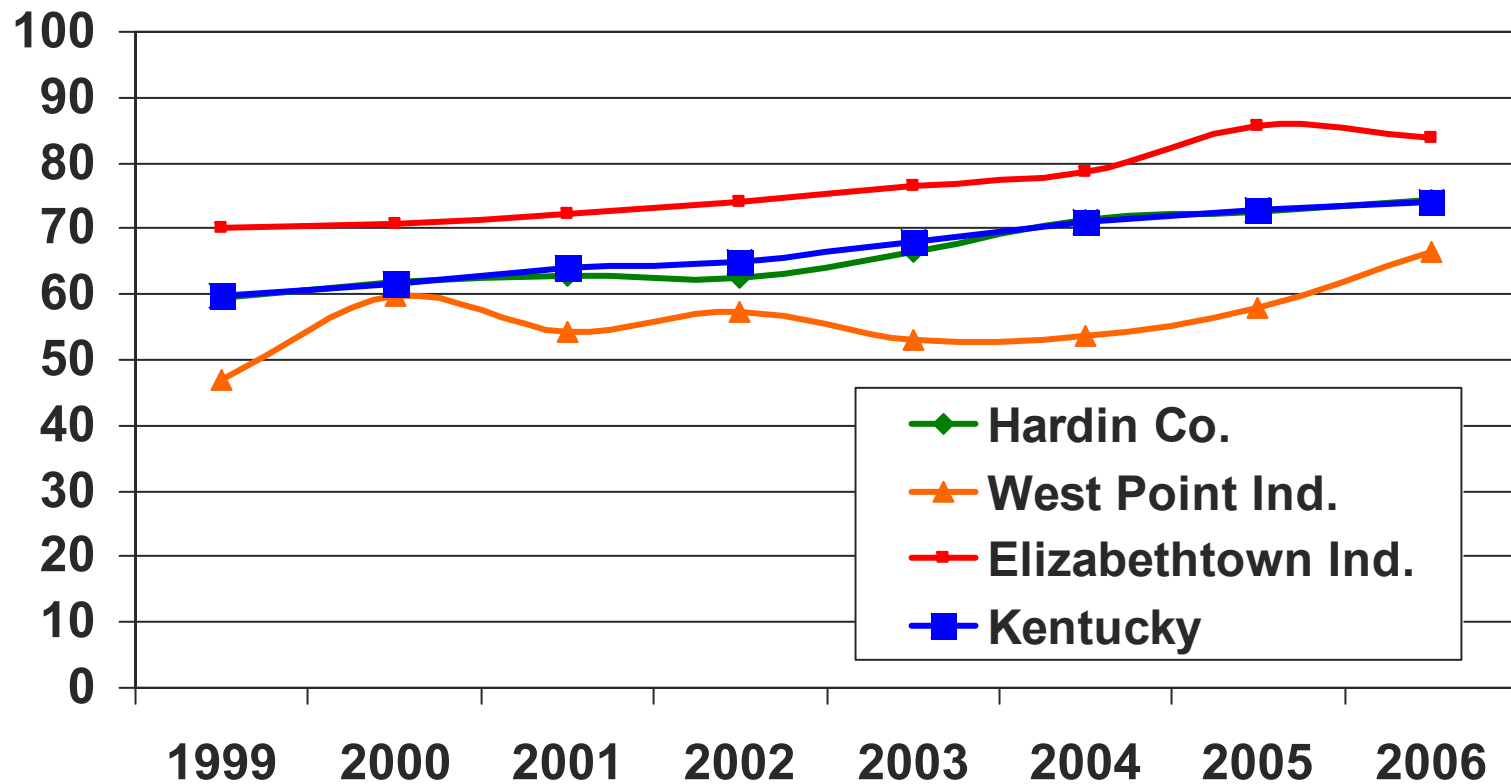
Student Achievement: How are we doing in Kentucky?

- CATS
- National Assessment of Educational Progress (NAEP)
 - Sample of about 2,500 public students
 - 4th and 8th grades
 - Reading, math, and science
 - Proficient and above
- ACT

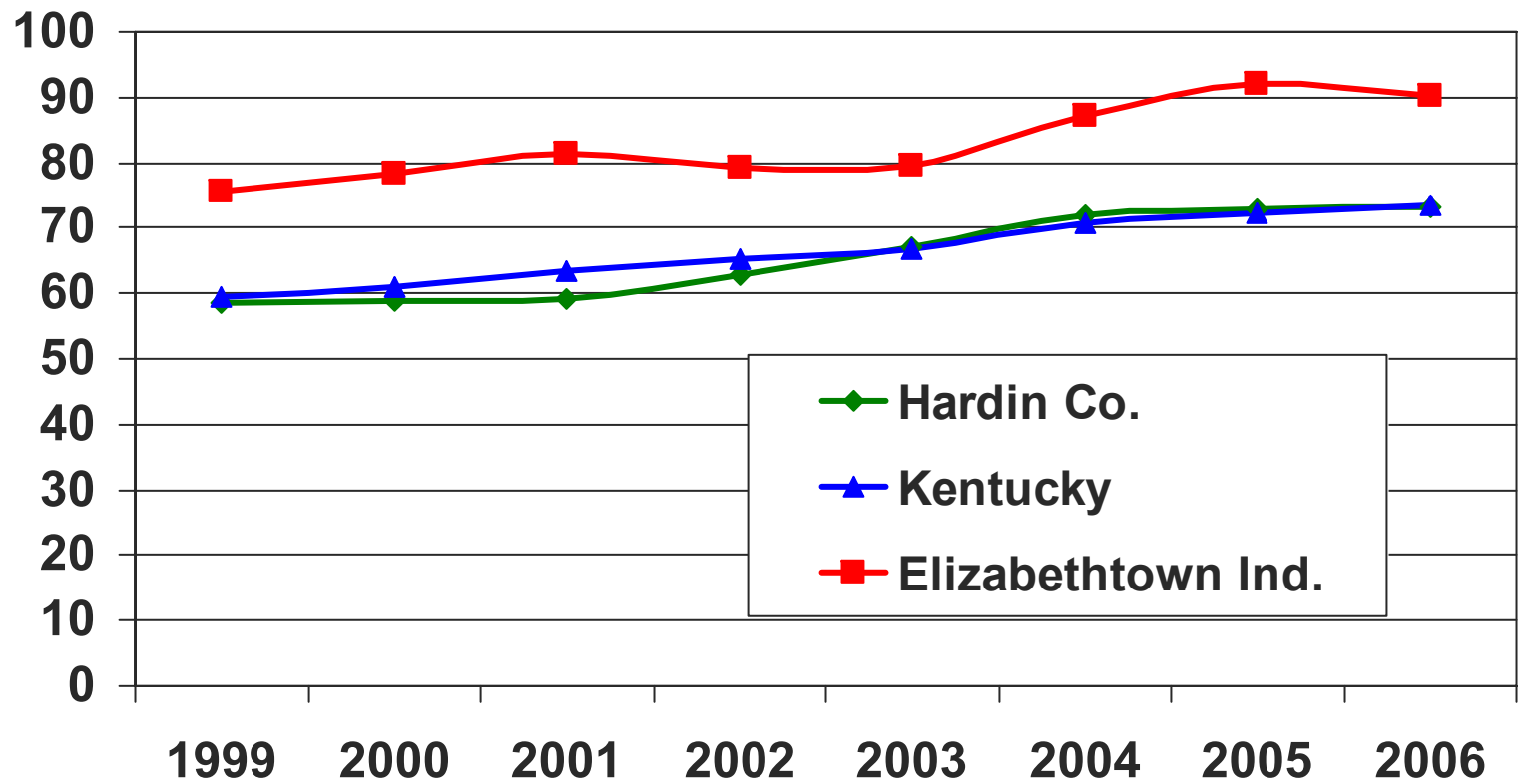
Total Academic Index, Elementary



Total Academic Index, Middle School

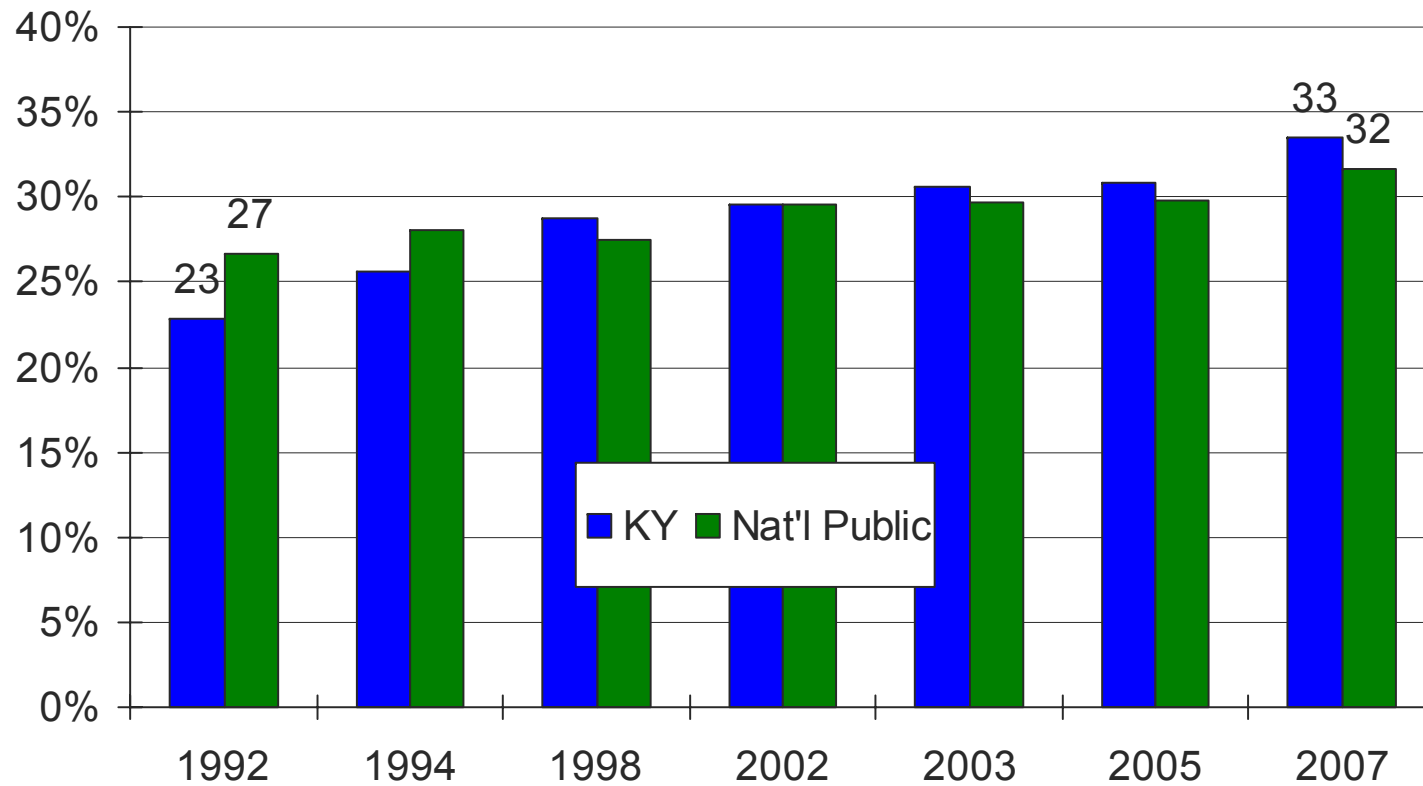


Total Academic Index, High School



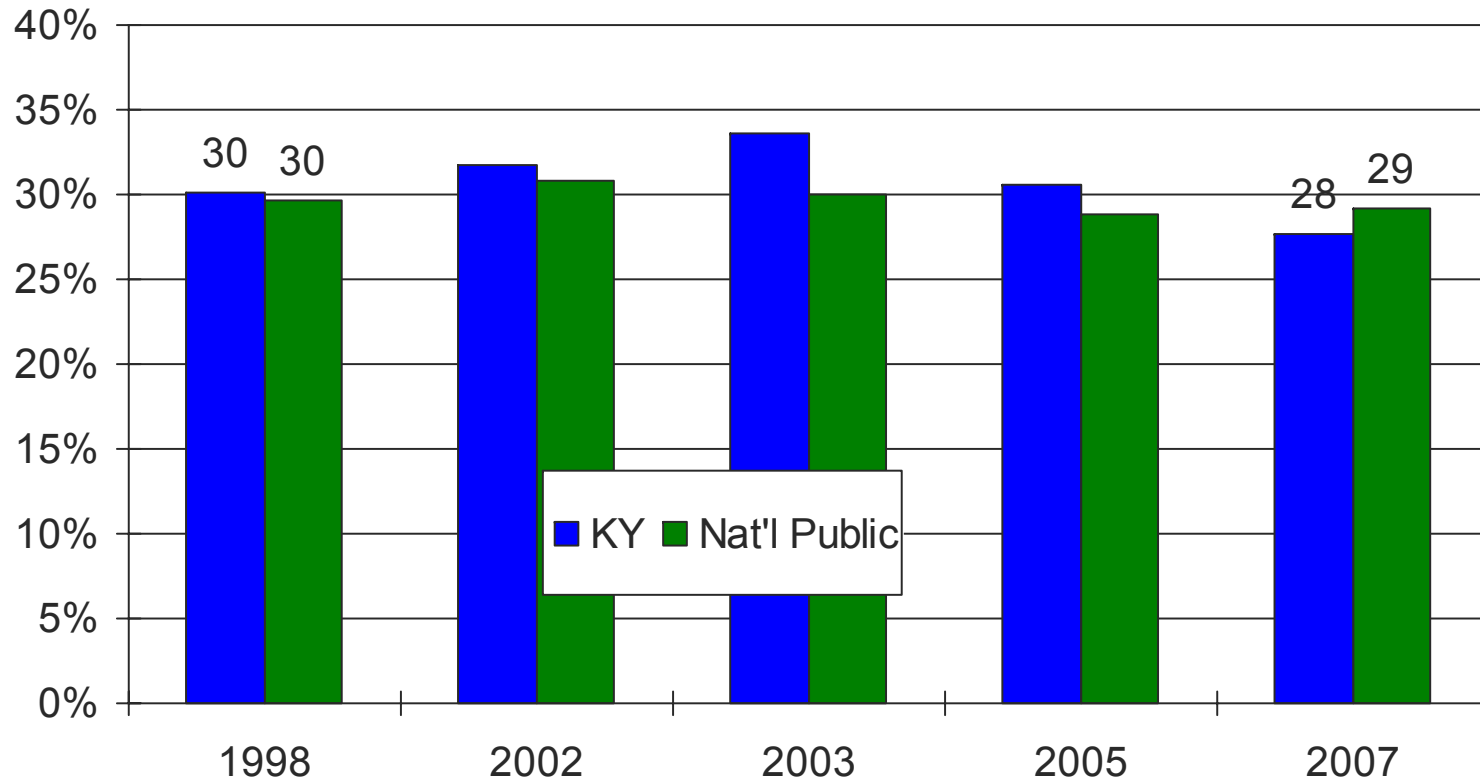
[4th Grade Reading (NAEP)]

Percentage Scoring At or Above Proficient

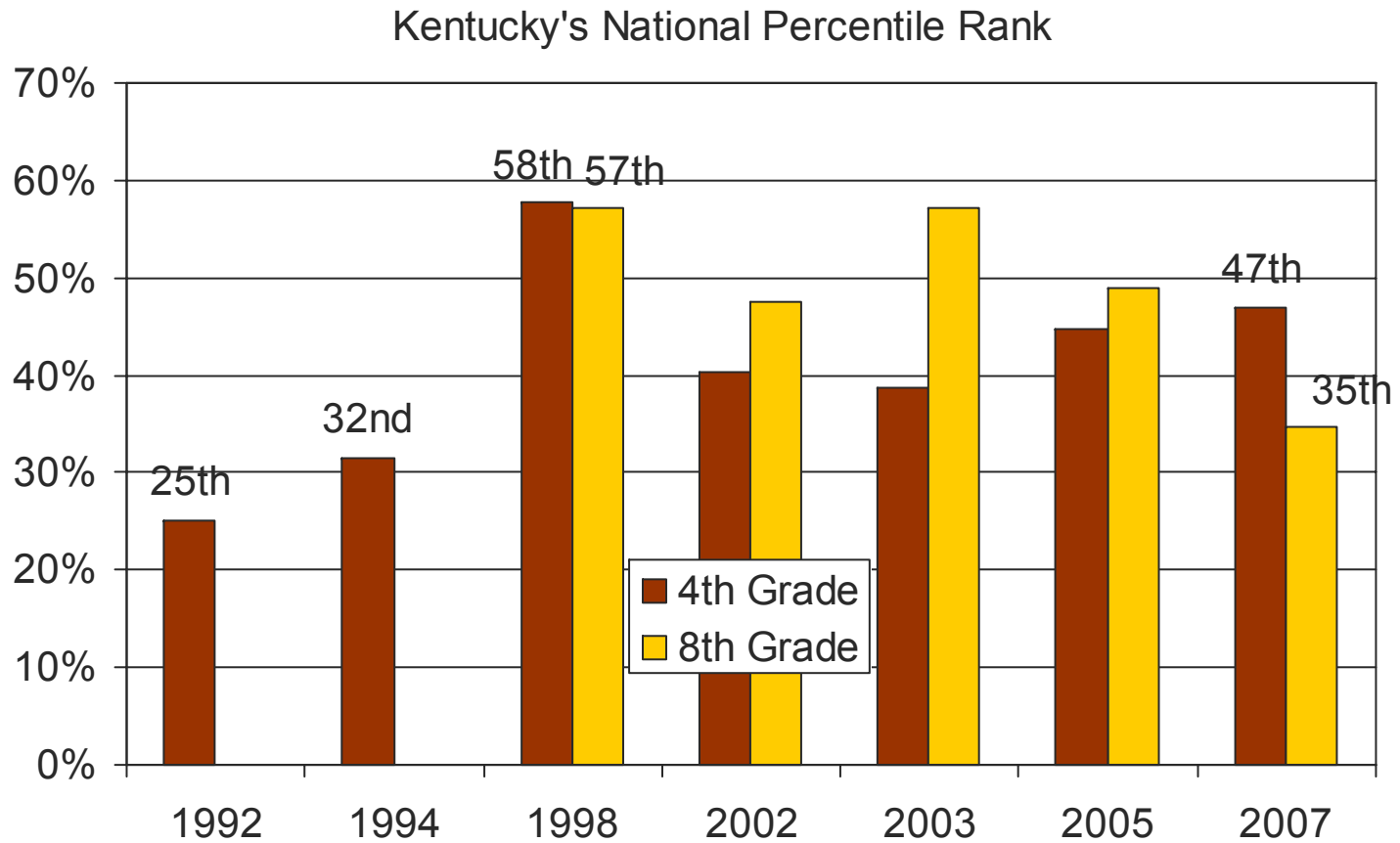


8th Grade Reading (NAEP)

Percentage Scoring At or Above Proficient

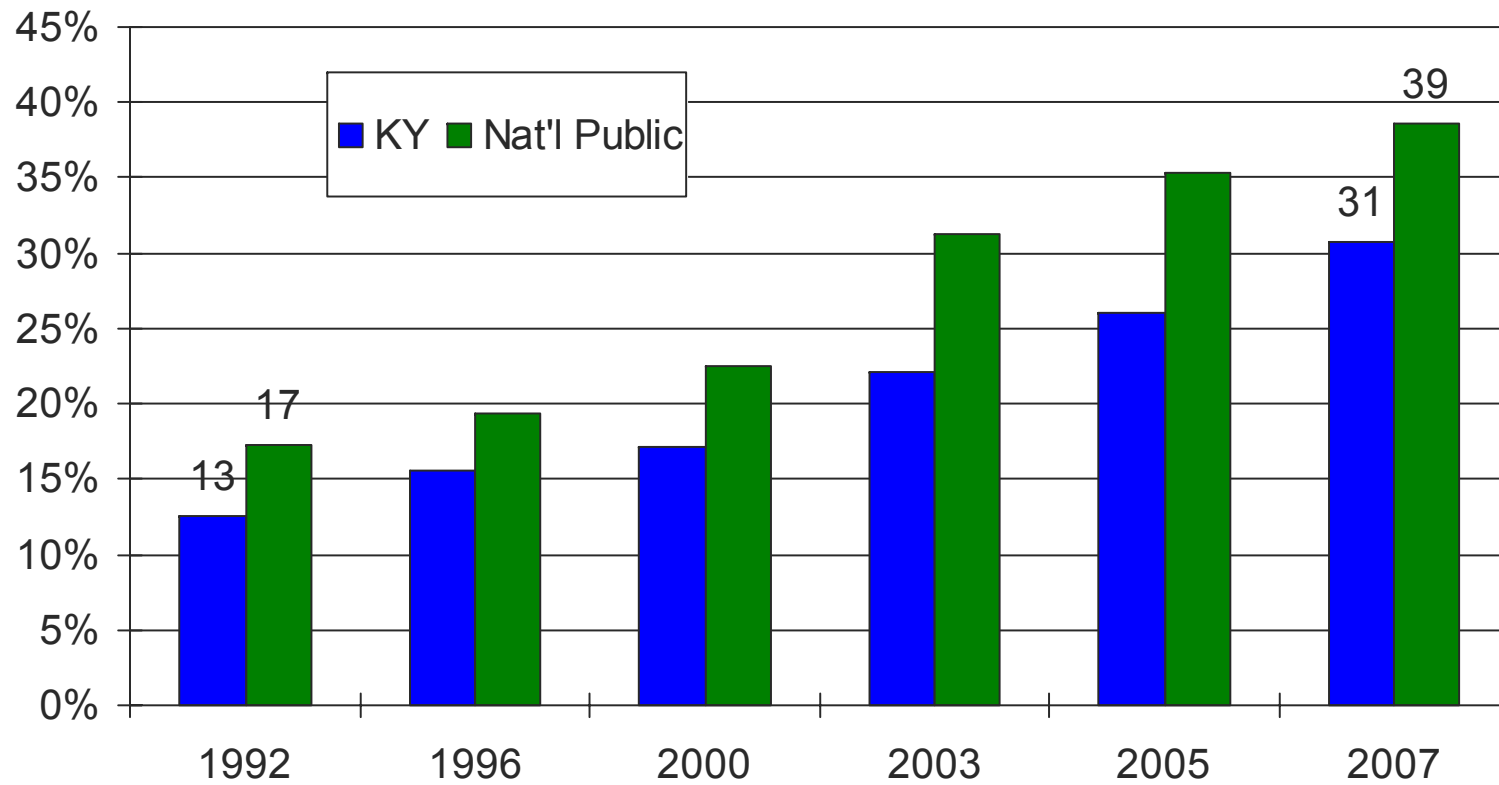


Kentucky's Rankings in Reading



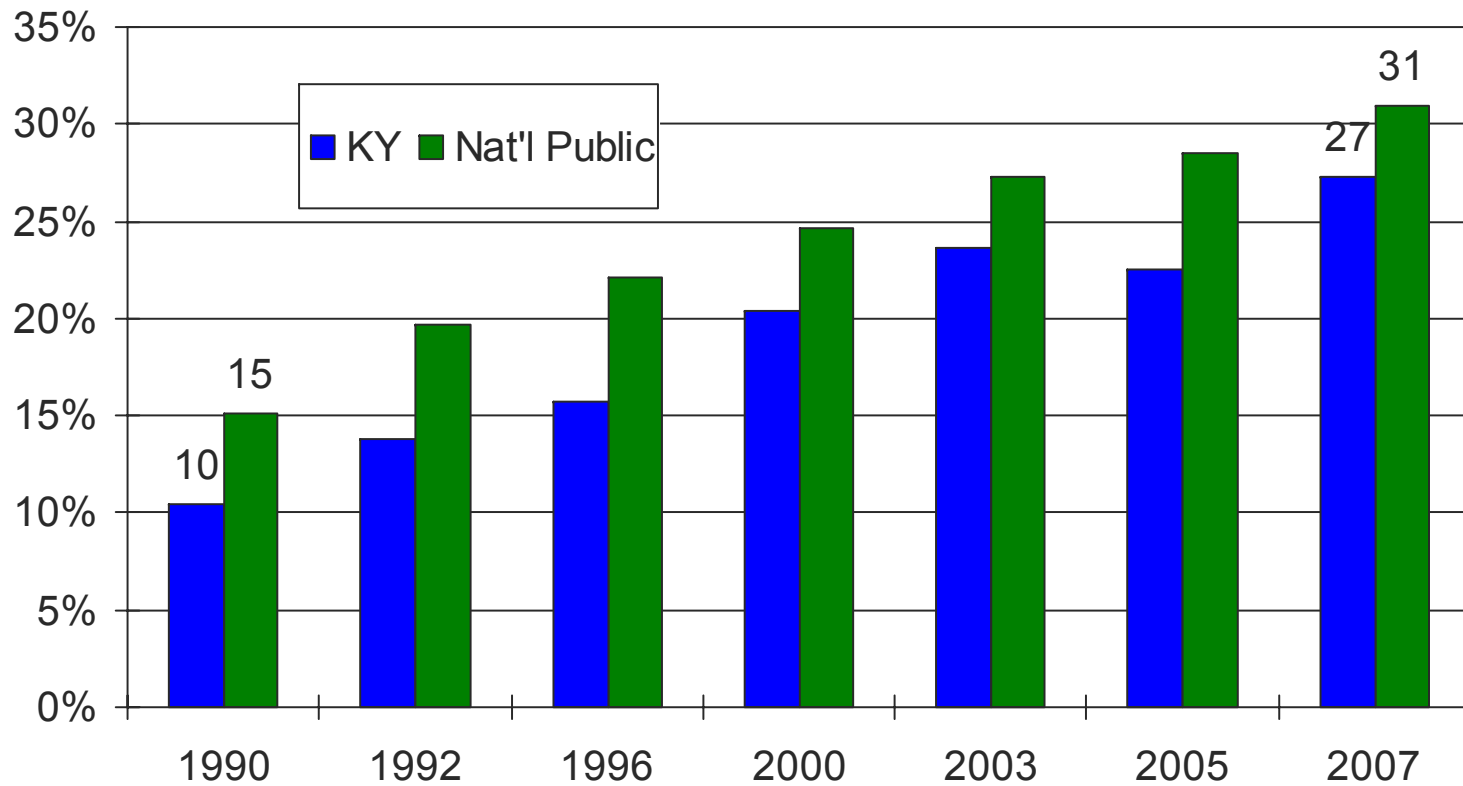
[4th Grade Math (NAEP)]

Percentage Scoring At or Above Proficient

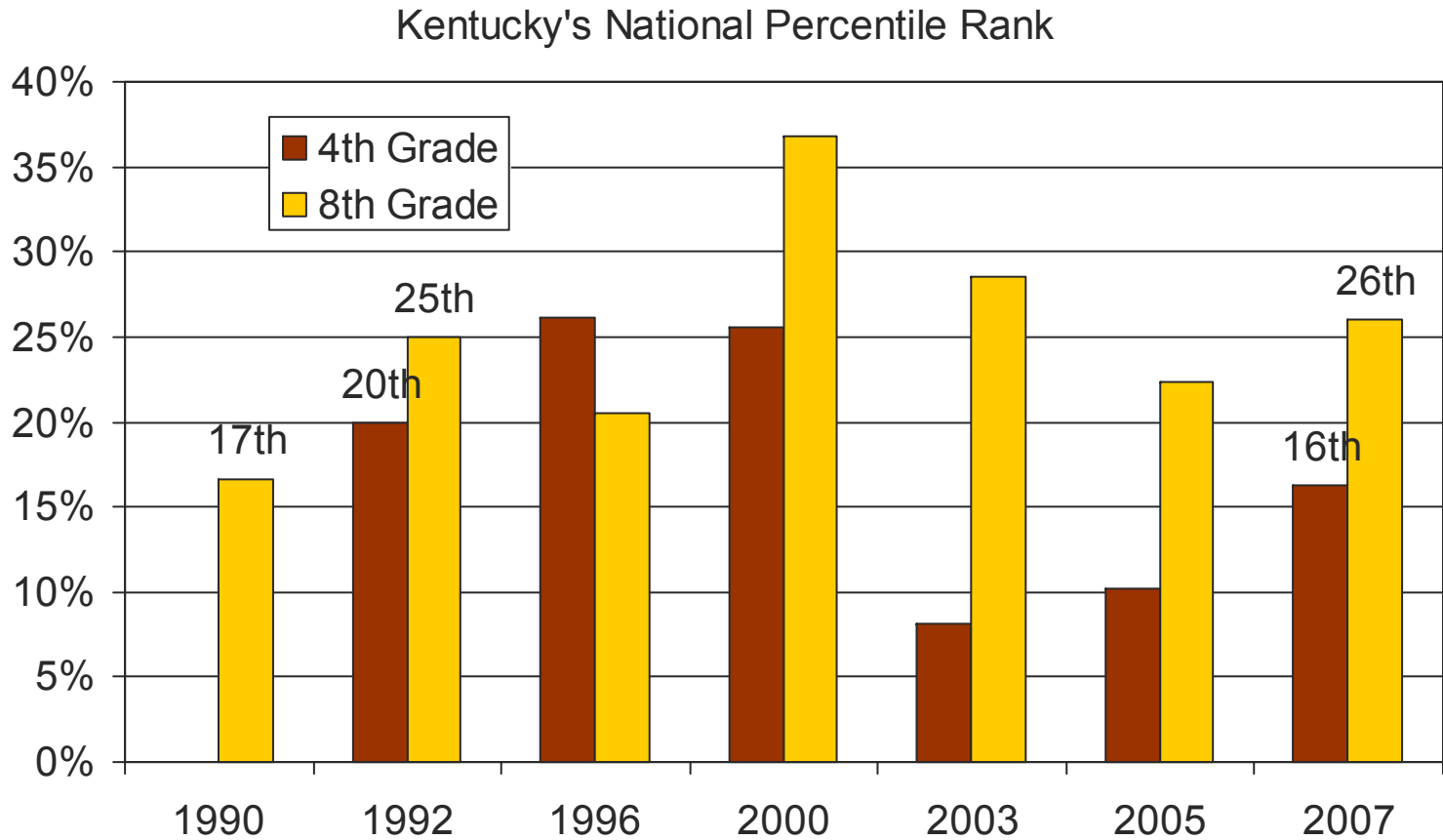


8th Grade Math (NAEP)

Percentage Scoring At or Above Proficient

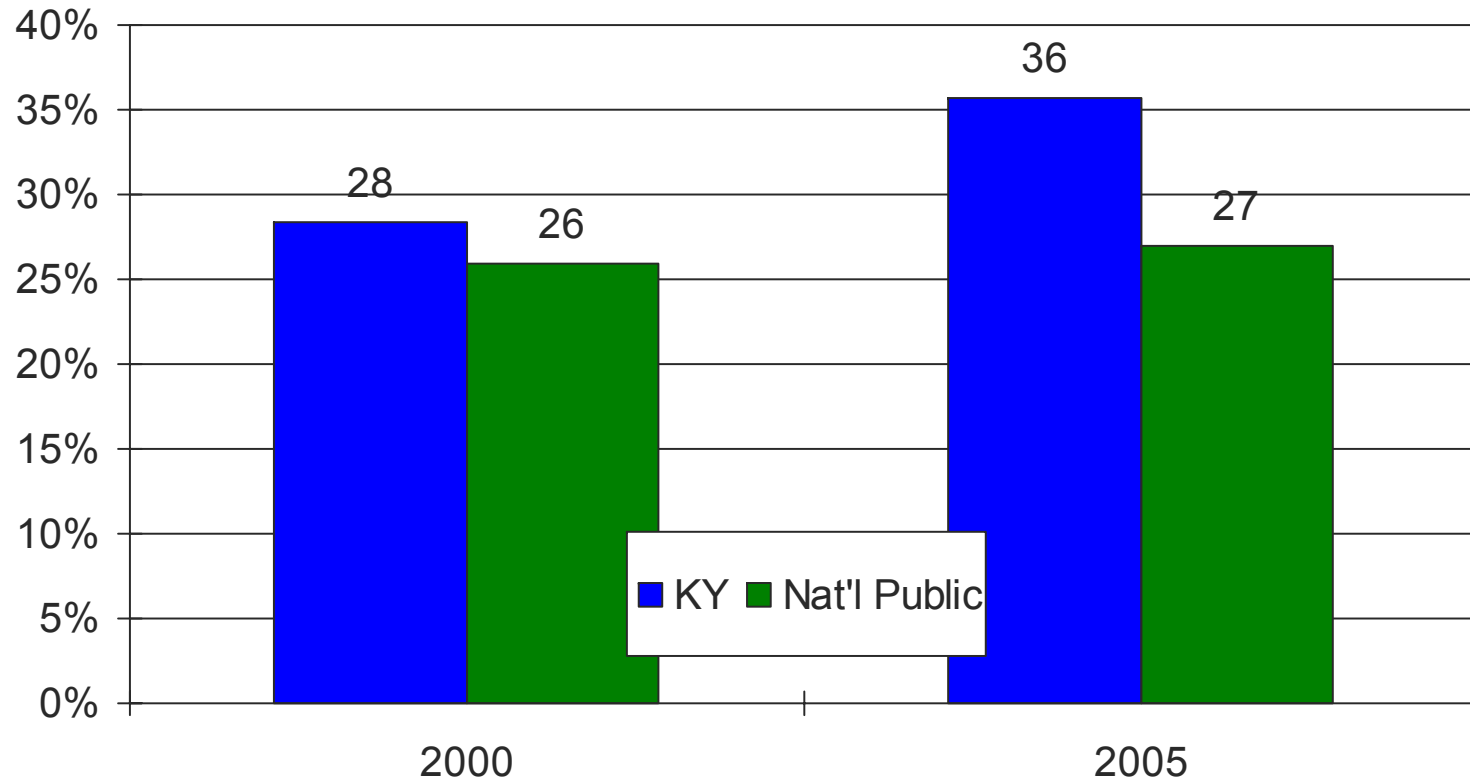


Kentucky's Math Ranking



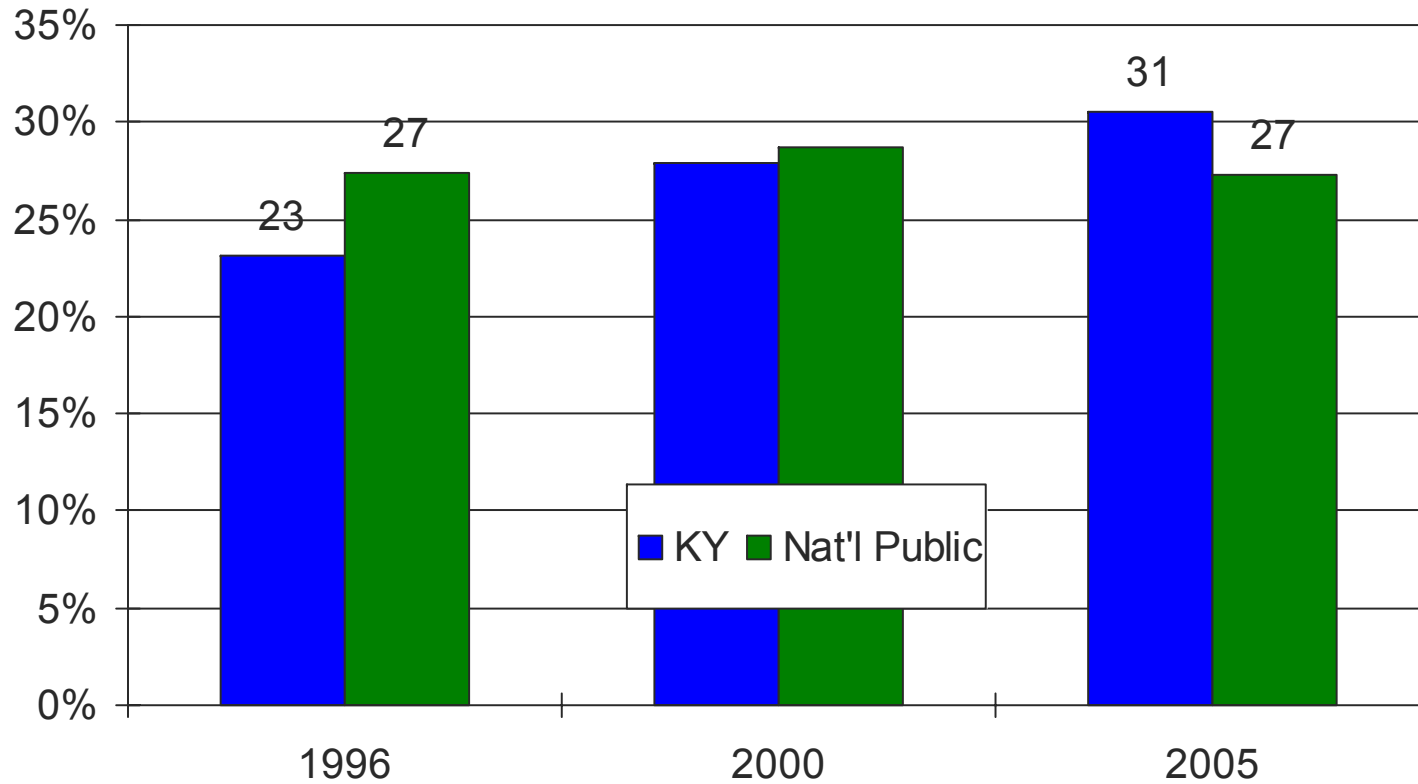
[4th Grade Science (NAEP)]

Percentage Scoring At or Above Proficient



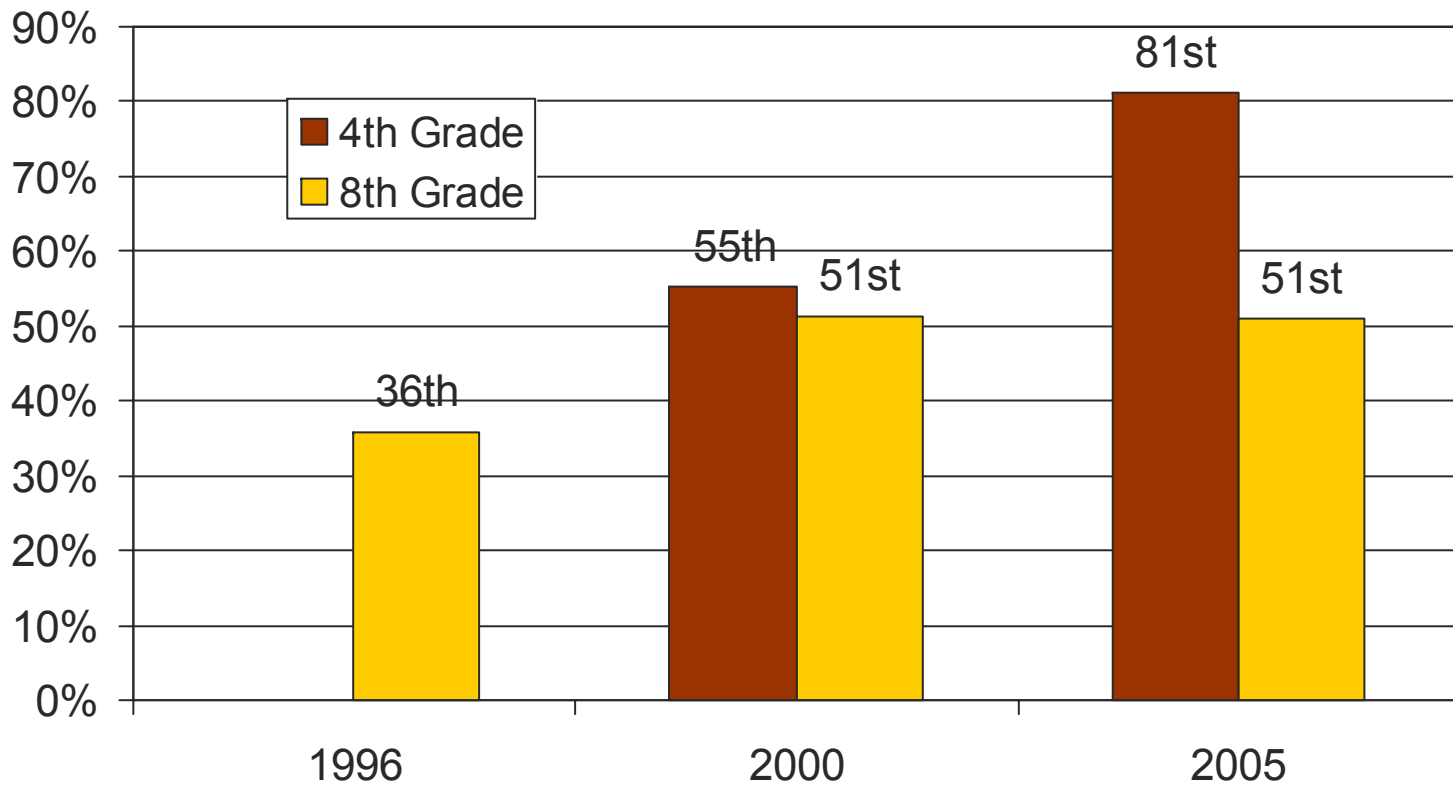
8th Grade Science (NAEP)

Percentage Scoring At or Above Proficient

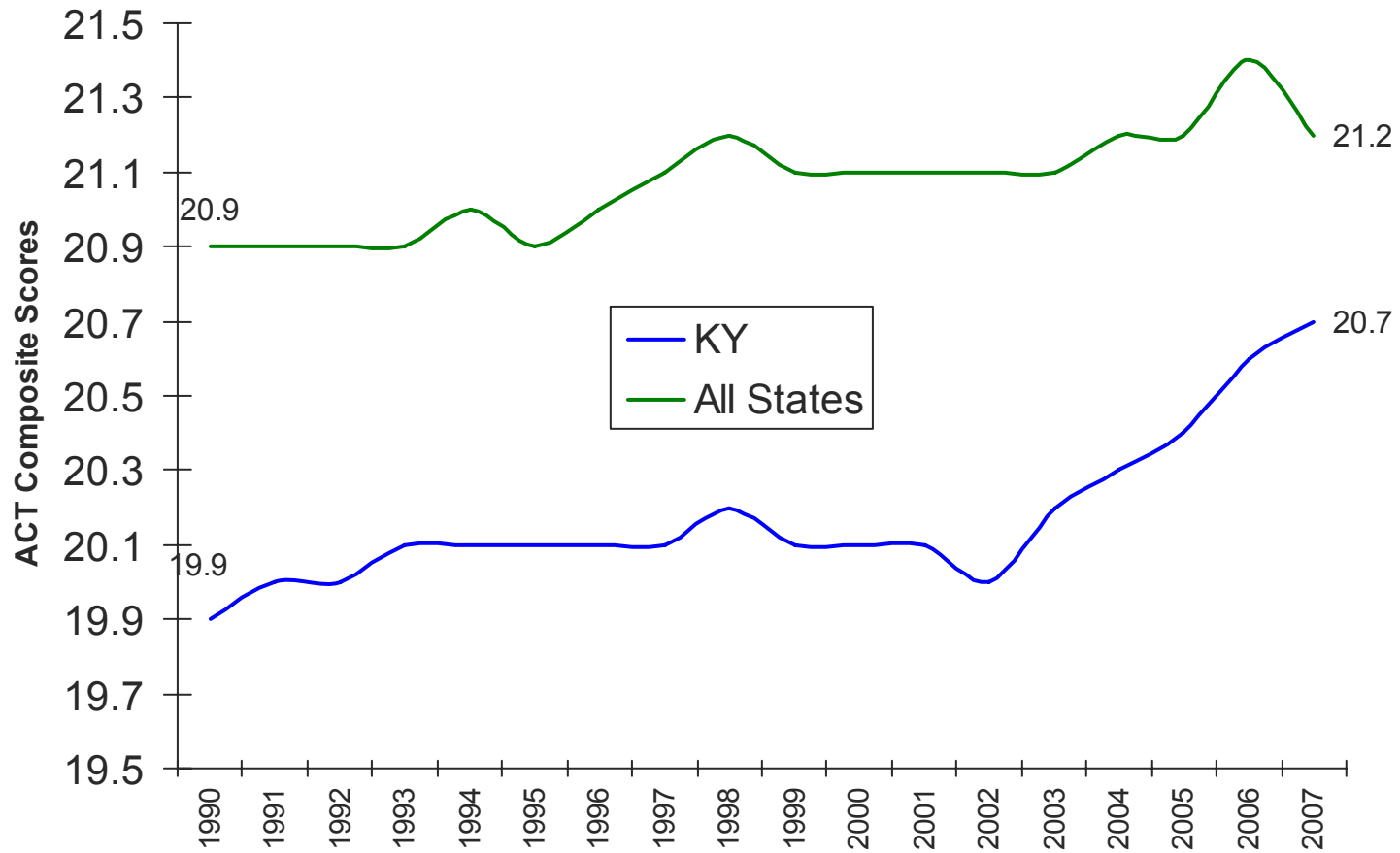


Kentucky's Rankings in Science

Kentucky's National Percentile Rank

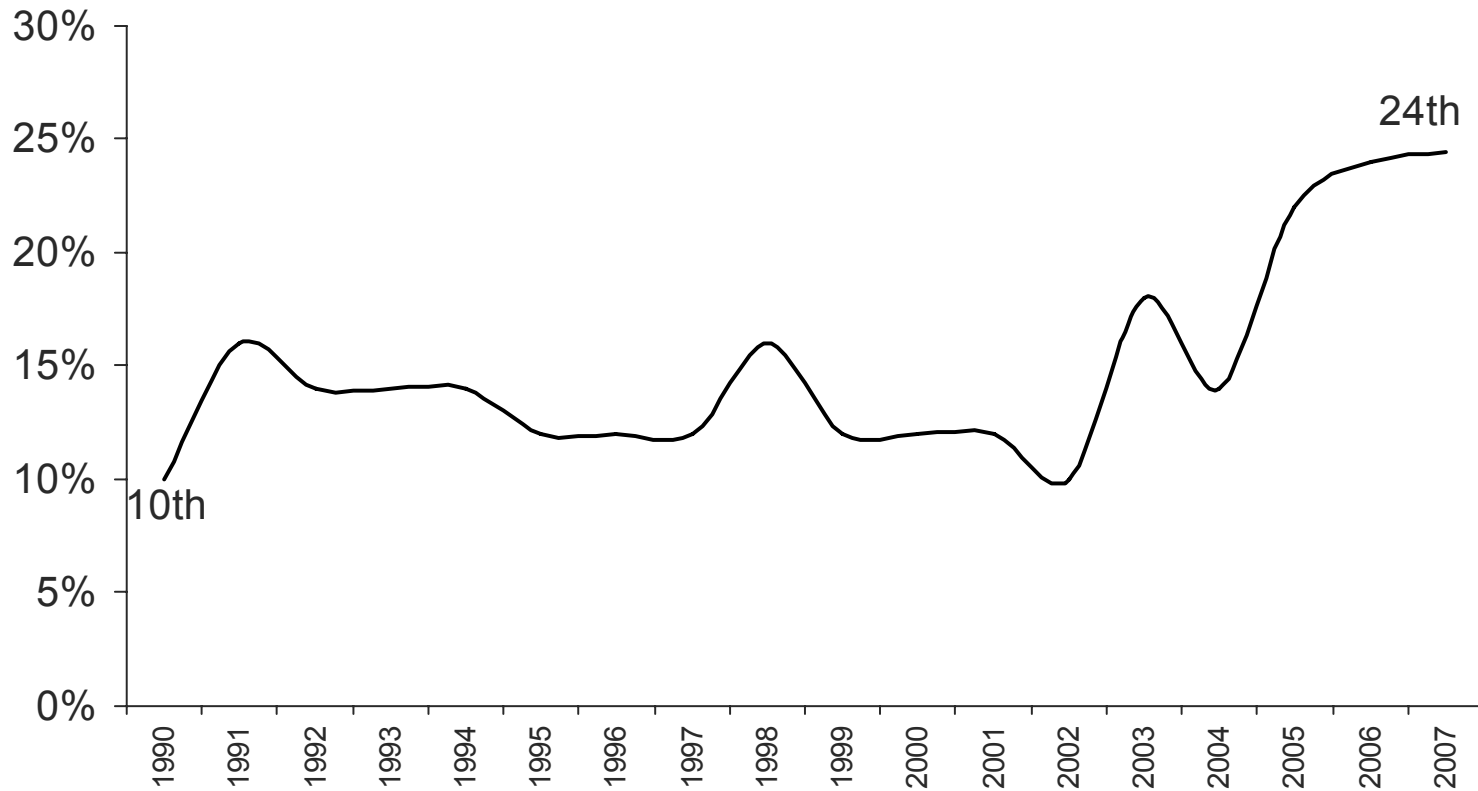


[ACT, Kentucky and the U.S.]



Kentucky 's ACT Percentile Ranking

Kentucky's National Percentile Rank



Have we progressed?

Grade & Subject	More Students Scoring Proficient and Above?	Gaining Ground on the Nation? (percentile rank)
4 th Reading (‘92-‘07)	Yes (23-33%)	Yes (25th-47th)
8 th Reading (‘98-‘07)	No (30-28%)	No (58th-47th)
4 th Math (‘92-‘07)	Yes (13-31%)	No (20th-16th)
8 th Math (‘90-‘07)	Yes (since ‘90)* (10-27%)	Yes (since ‘90)* (17th-26th)
4 th Science (‘00-‘05)	Yes (28-36%)	Yes (55th-81st)
8 th Science (‘96-‘05)	Yes (23-31%)	Yes (36th-51st)
ACT (‘90-‘07)	Yes (19.9-20.7)	Yes (10th-24th)
*Qualified yes due to a downward trend since 2000		

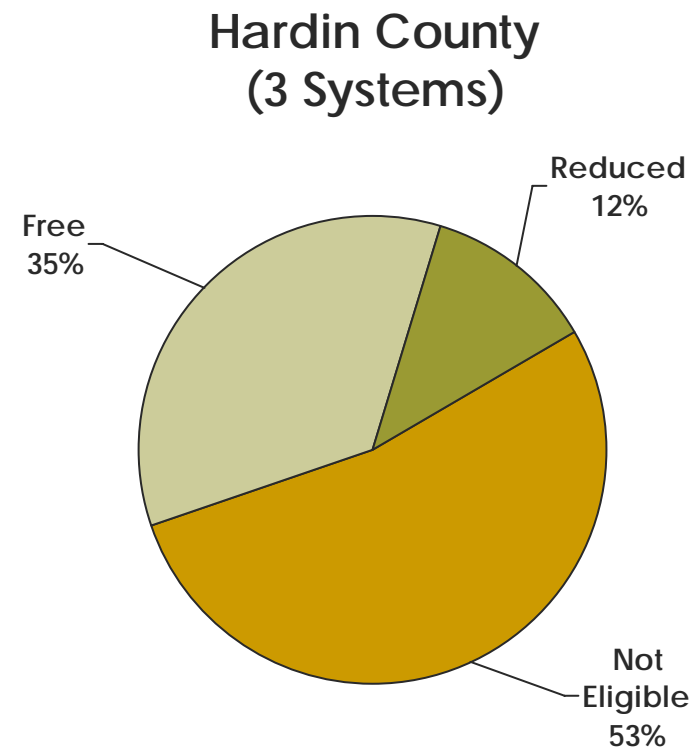
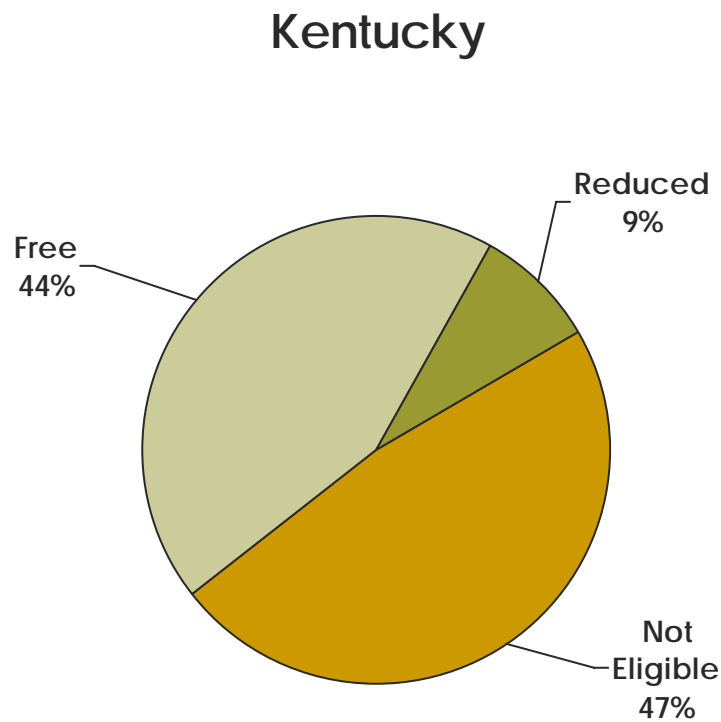
**A lot of progress,
but few national exemplars**

		Steady Progress (proficient %)?		
		No	Flat	Yes
Kentucky's Percentile Rank Above Average?	No			ACT Math 4 Math 8
	AVG		Reading 8	Reading 4 Science 8
	Yes			Science 4

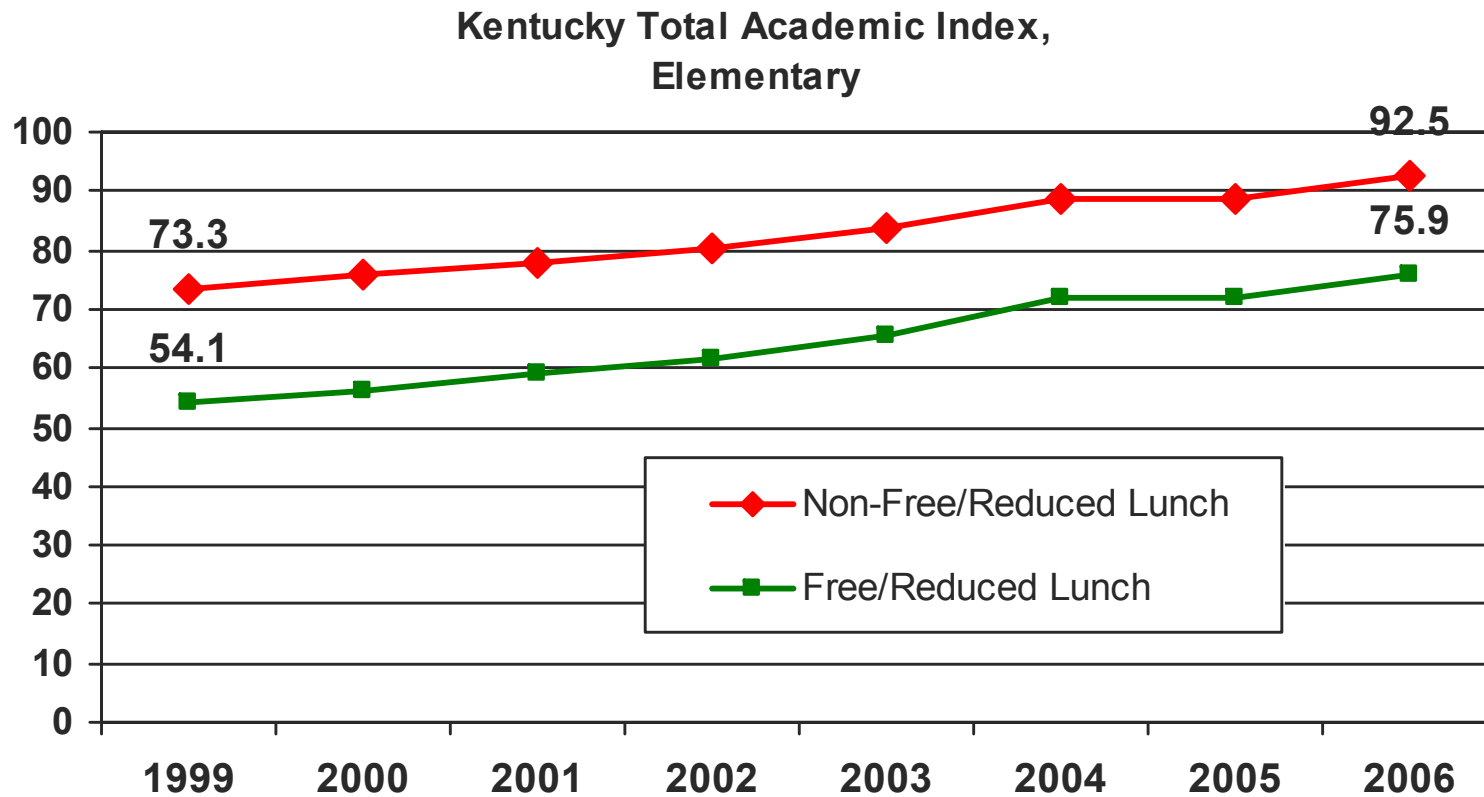
Selected Factors Adversely Affecting Academic Achievement

- There are a lot of less-advantaged students in Kentucky
 - About half qualify for free- and reduced-price meals
- Less-advantaged students generally score lower on KCCT and NAEP

Over Half of KY's Students Eligible for Free/Reduced Lunch

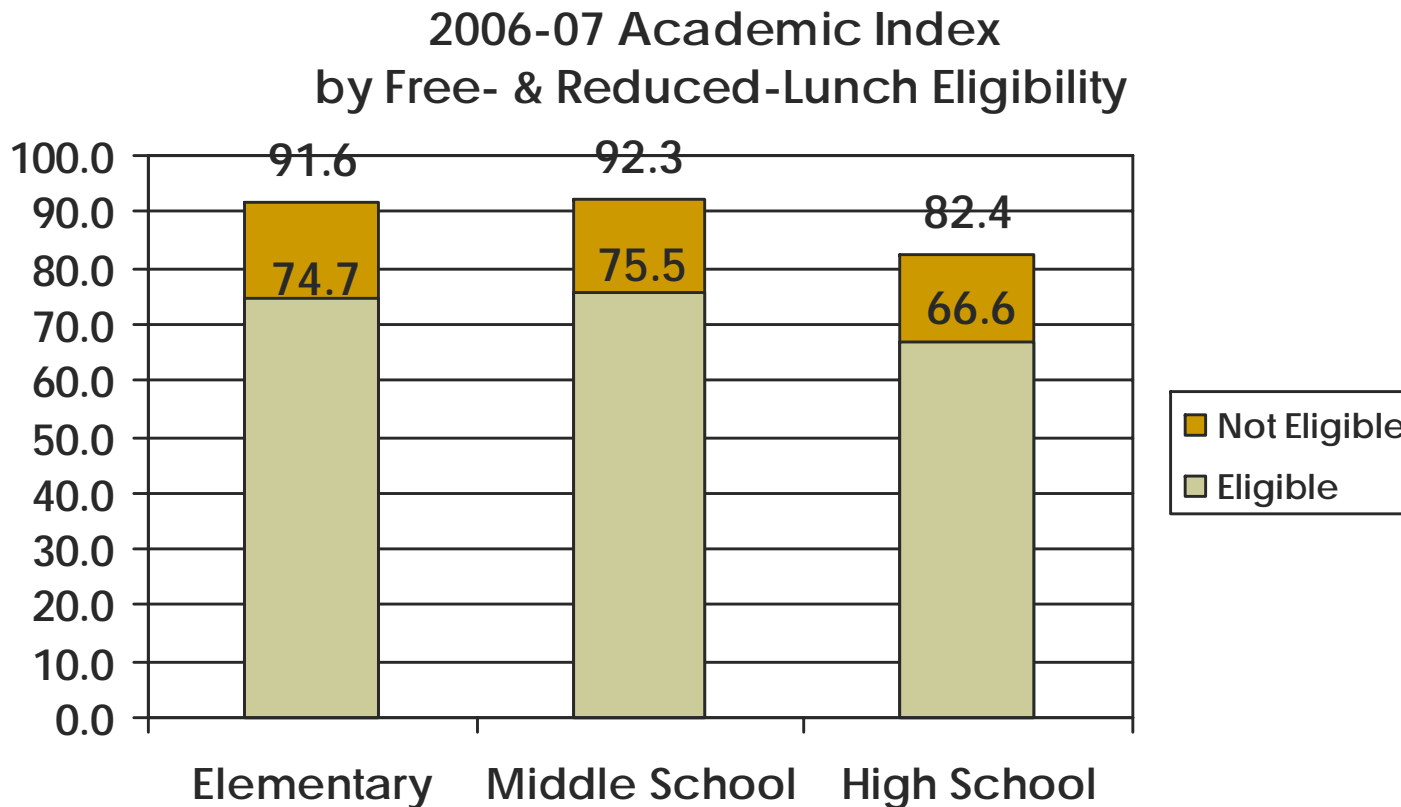


Academic Performance by Free & Reduced Lunch



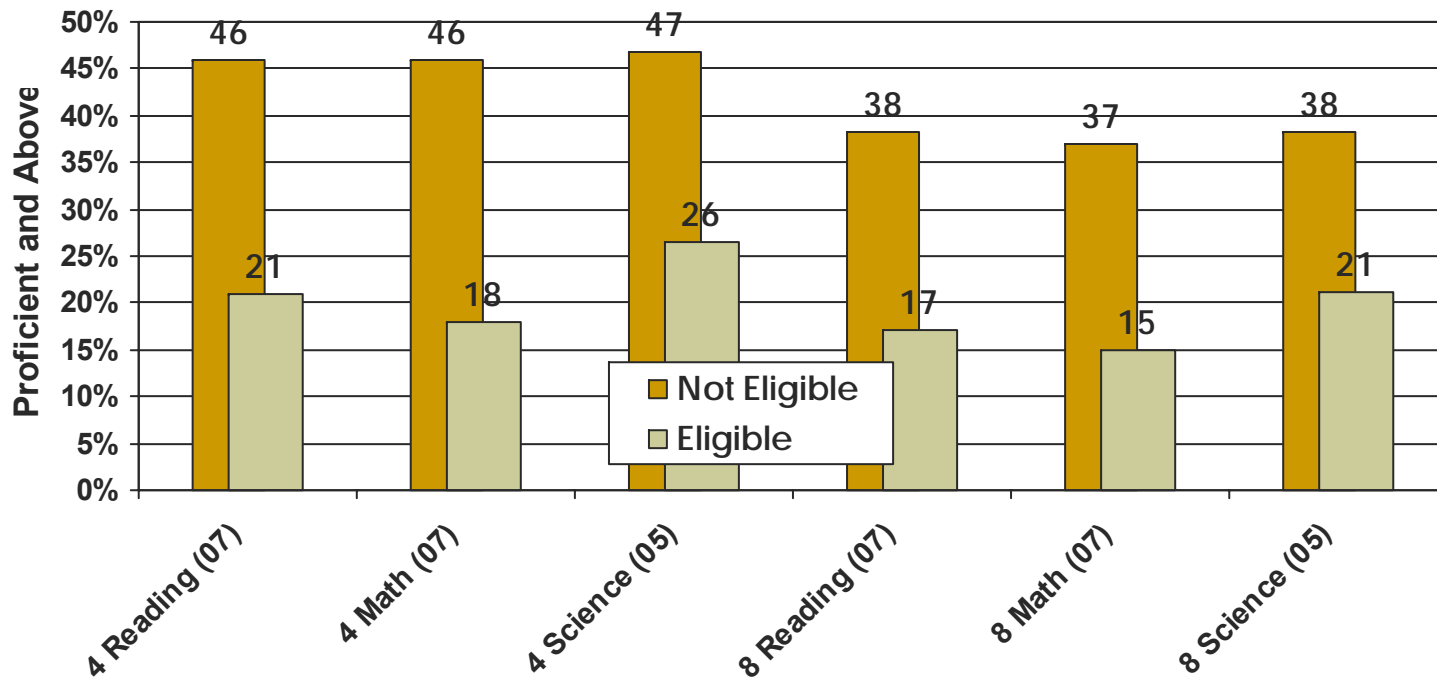
Source: Kentucky Department of Education.

Hardin County Academic Index Achievement Gap



[An Achievement Gap]

Kentucky NAEP Results (2005 & 2007),
by Free- & Reduced-Lunch Eligibility



Kentucky National Ranks

■ What is...

○ Reading

- 4th grade – No. 27
- 8th grade – No. 33

○ Math

- 4th grade – No. 42
- 8th grade – No. 37

○ Science

- 4th grade – No. 9
- 8th grade – No. 22

■ What could be...

○ Reading

- 4th grade – No. 2
- 8th grade – No. 5

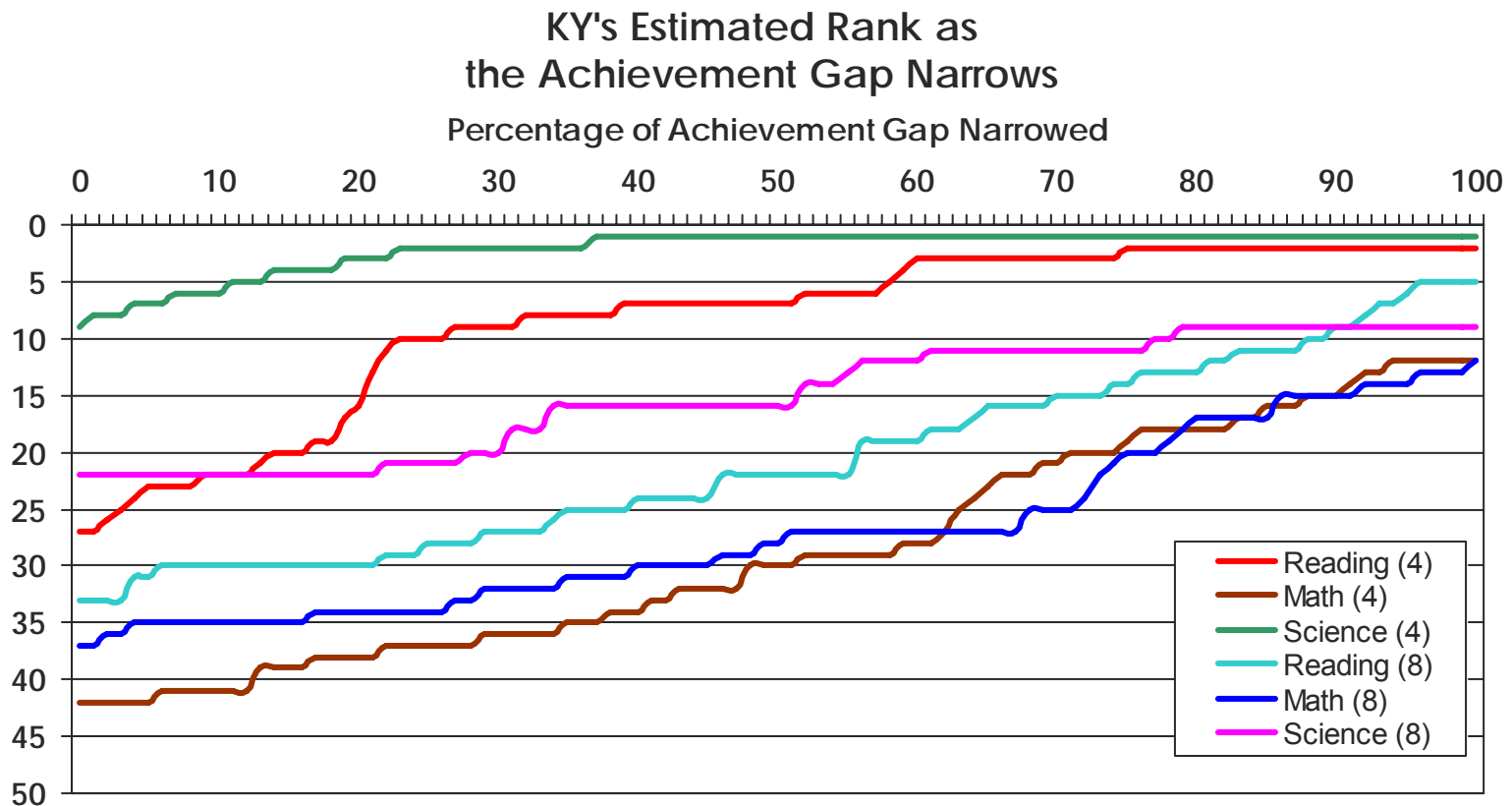
○ Math

- 4th grade – No. 12
- 8th grade – No. 12

○ Science

- 4th grade – No. 1
- 8th grade – No. 9

Narrowing This Achievement Gap Would Bolster Kentucky's Ranking



Note: Reading and Math are based on 2007 results, while Science is based on 2005 results.

Want more information?

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