

# How did Idaho students perform in the NCLB years when compared with their peers nationwide?

All Students – White Students - Hispanic Students

NAEP Reading and Mathematics  
Percentile Ranks, 2003-2015  
Grades 4 and 8



## NOTES:

[1] **Percentile Rank.** Idaho fourth graders, for example, had a percentile rank of 57 on the NAEP 2007 reading test. This means that the average Idaho fourth grade student in 2007 scored higher in reading than 57 percent of his peers in the national norm group. The fourth grade reading norm group included all of the fourth graders in the nation's public schools participating in the NAEP 2003 reading test.

[2] **National Norms.** In 2003, national norms were computed for three demographic groups: all students, White students and Hispanic students. The "norm group" in each of the demographic group's subject/grade graphs is represented by the black diamond with a percentile rank of 50.

[3] **Apparent differences** in percentile ranks may not be statistically significant. No statistical testing was performed.

[4] **Simpson's Paradox** suggests the whole does not necessarily look like the sum of its parts. When "all students" results are reported, Idaho typically scores near the middle of the nation or slightly above. When results from White or Hispanic students are reported, Idaho students typically trail their national peers. This paradox is clearly observed in Idaho's NAEP results through the NCLB years.

**Idaho vs. National Public  
NAEP 2003-2015**

**ALL STUDENTS**

**Percentile Ranks for All Students**

**Grade 4 Reading**

**Grade 8 Reading**

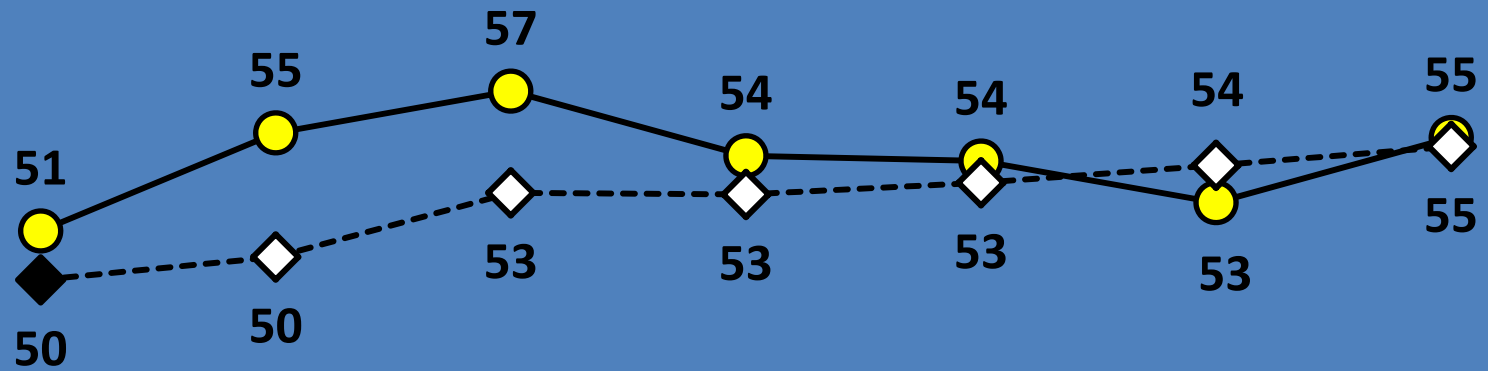
**Grade 4 Mathematics**

**Grade 8 Mathematics**

# NAEP Reading, Grade 4, 2003-2015

Percentile Ranks (Norm 2003)

All Students



● Idaho

◆ National Public

2003

2005

2007

2009

2011

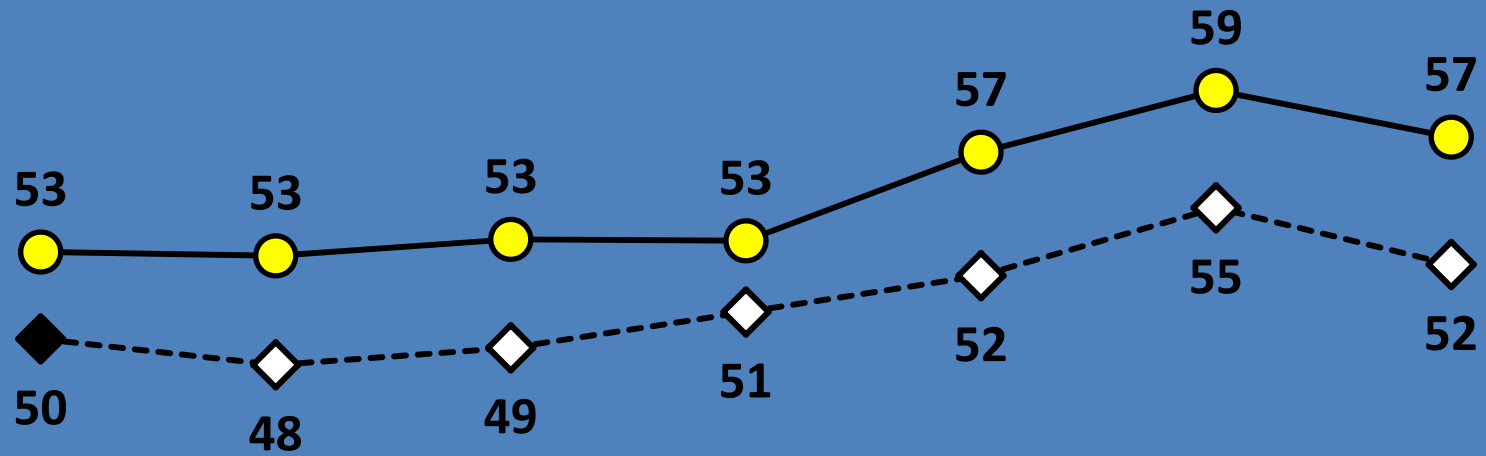
2013

2015

# NAEP Reading, Grade 8, 2003-2015

Percentile Ranks (Norm 2003)

All Students



● Idaho

◆ National Public

2003

2005

2007

2009

2011

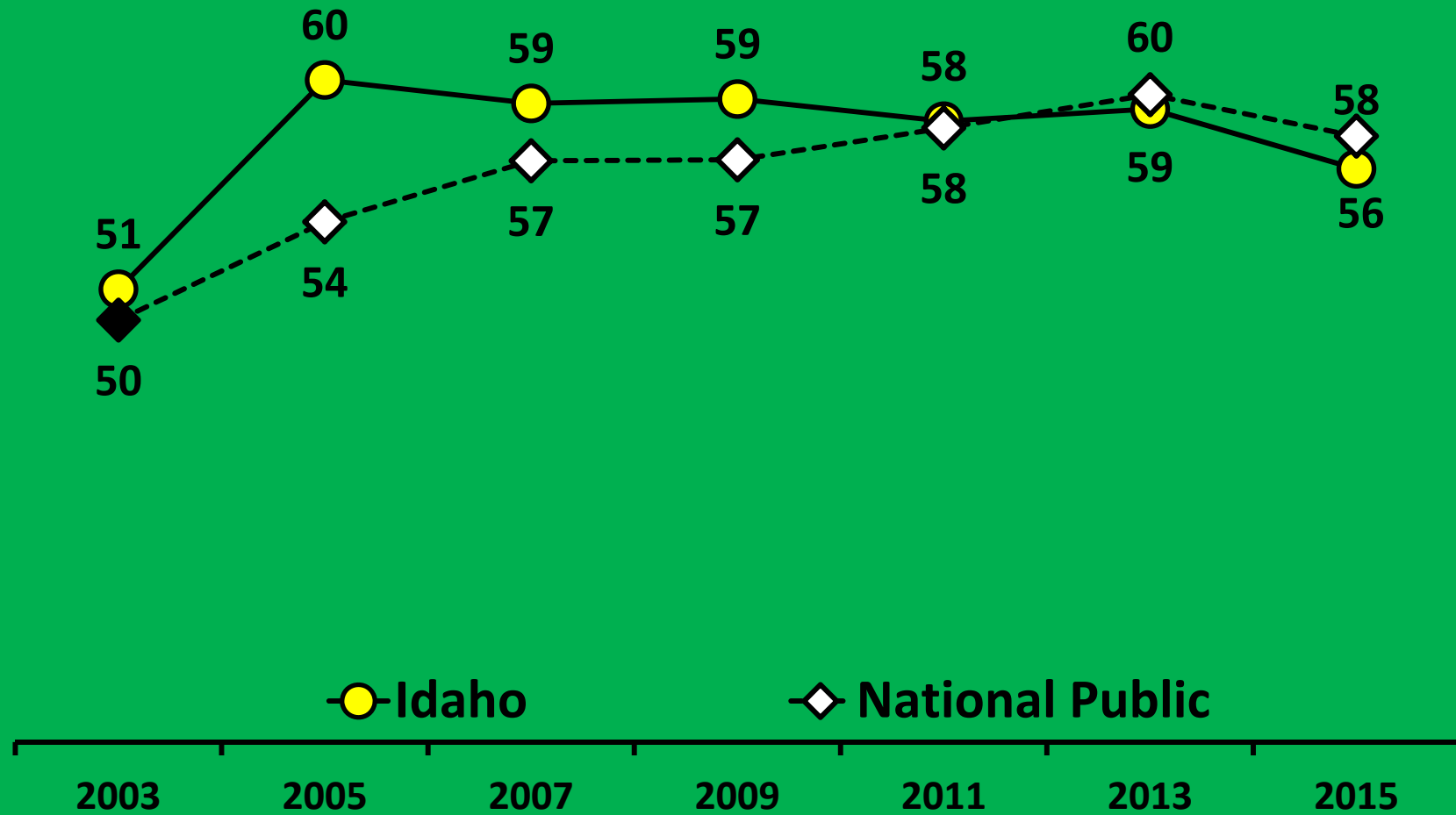
2013

2015

# NAEP Mathematics, Grade 4, 2003-2015

Percentile Ranks (Norm 2003)

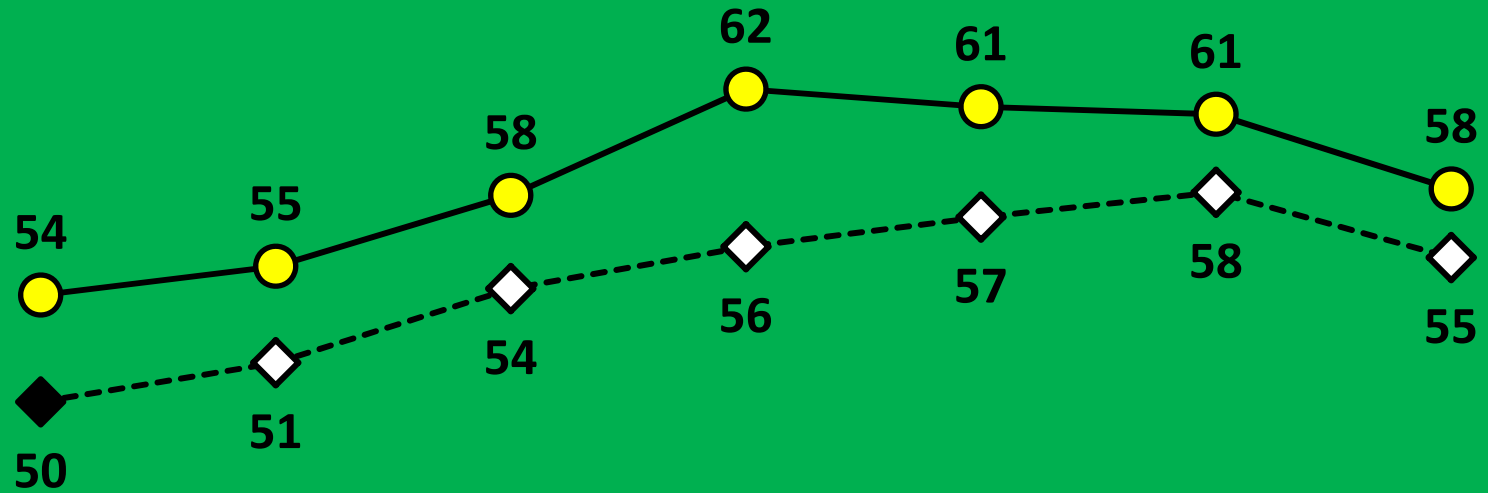
All Students



# NAEP Mathematics, Grade 8, 2003-2015

Percentile Ranks (Norm 2003)

All Students



● Idaho

◆ National Public

2003

2005

2007

2009

2011

2013

2015



**Idaho vs. National Public  
NAEP 2003-2015**

**WHITE STUDENTS**

**Percentile Ranks for White Students Only**

**Grade 4 Reading**

**Grade 8 Reading**

**Grade 4 Mathematics**

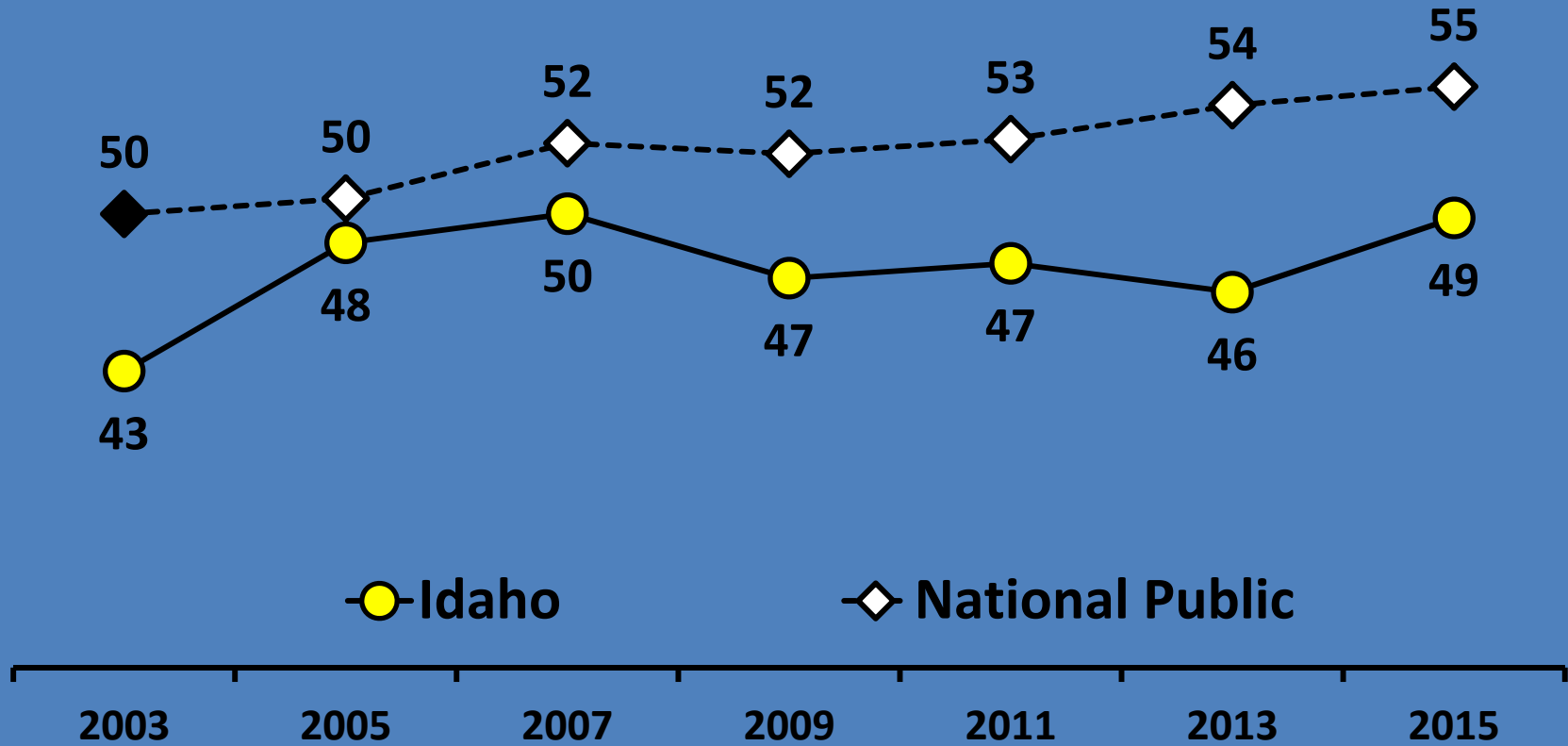
**Grade 8 Mathematics**



# NAEP Reading, Grade 4, 2003-2015

Percentile Ranks (Norm 2003)

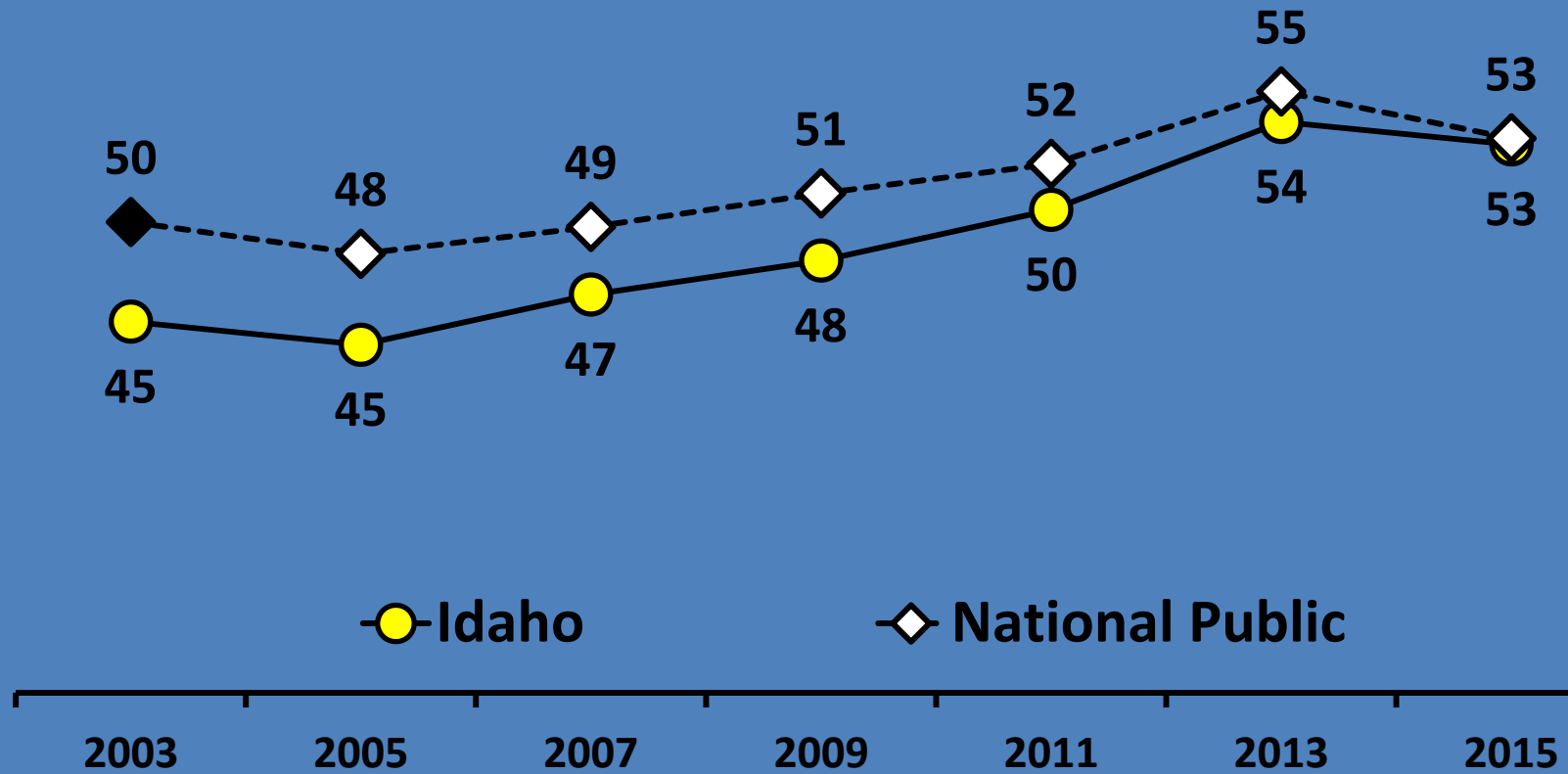
White Students



# NAEP Reading, Grade 8, 2003-2015

Percentile Ranks (Norm 2003)

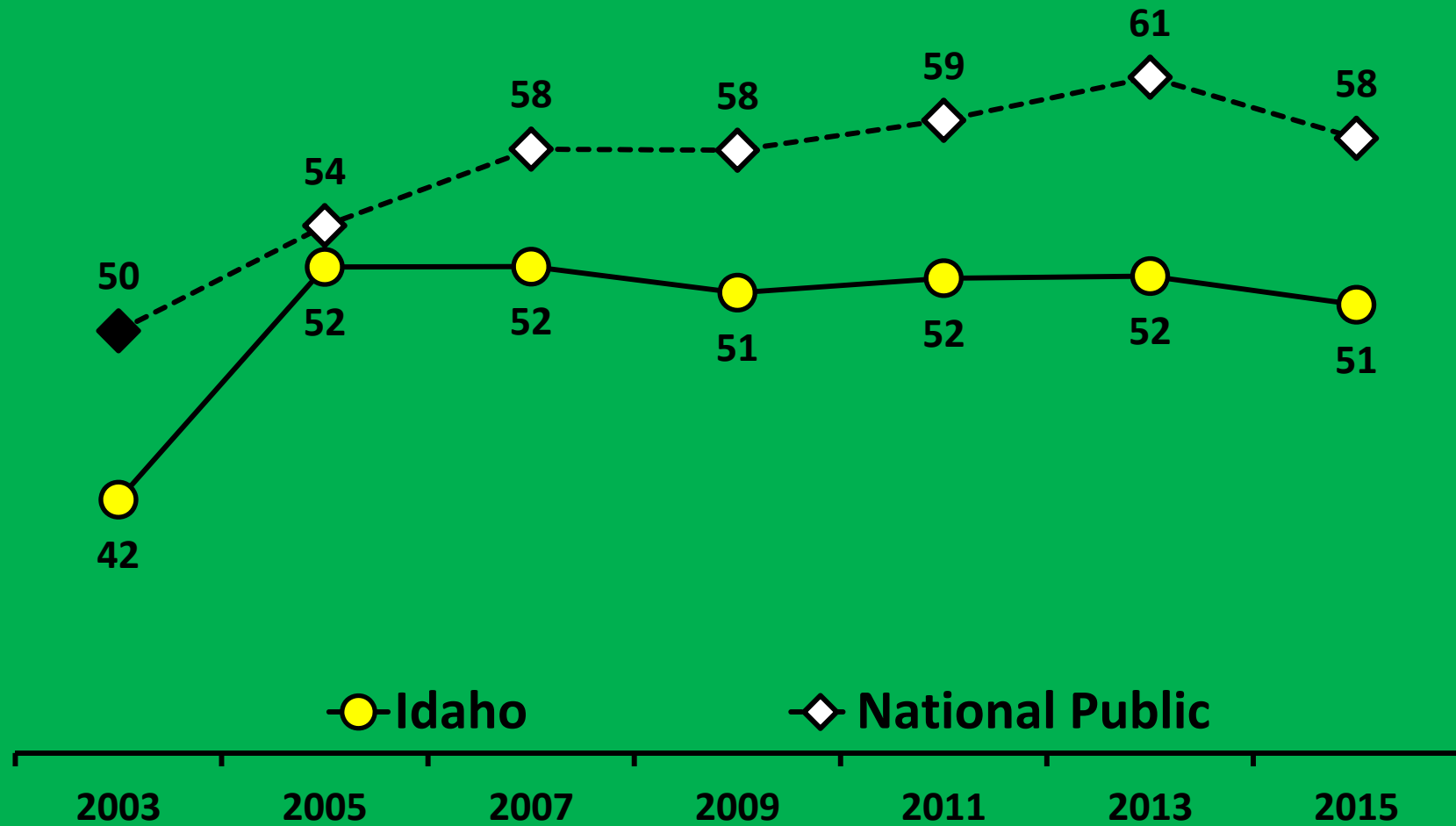
White Students



# NAEP Mathematics, Grade 4, 2003-2015

Percentile Ranks (Norm 2003)

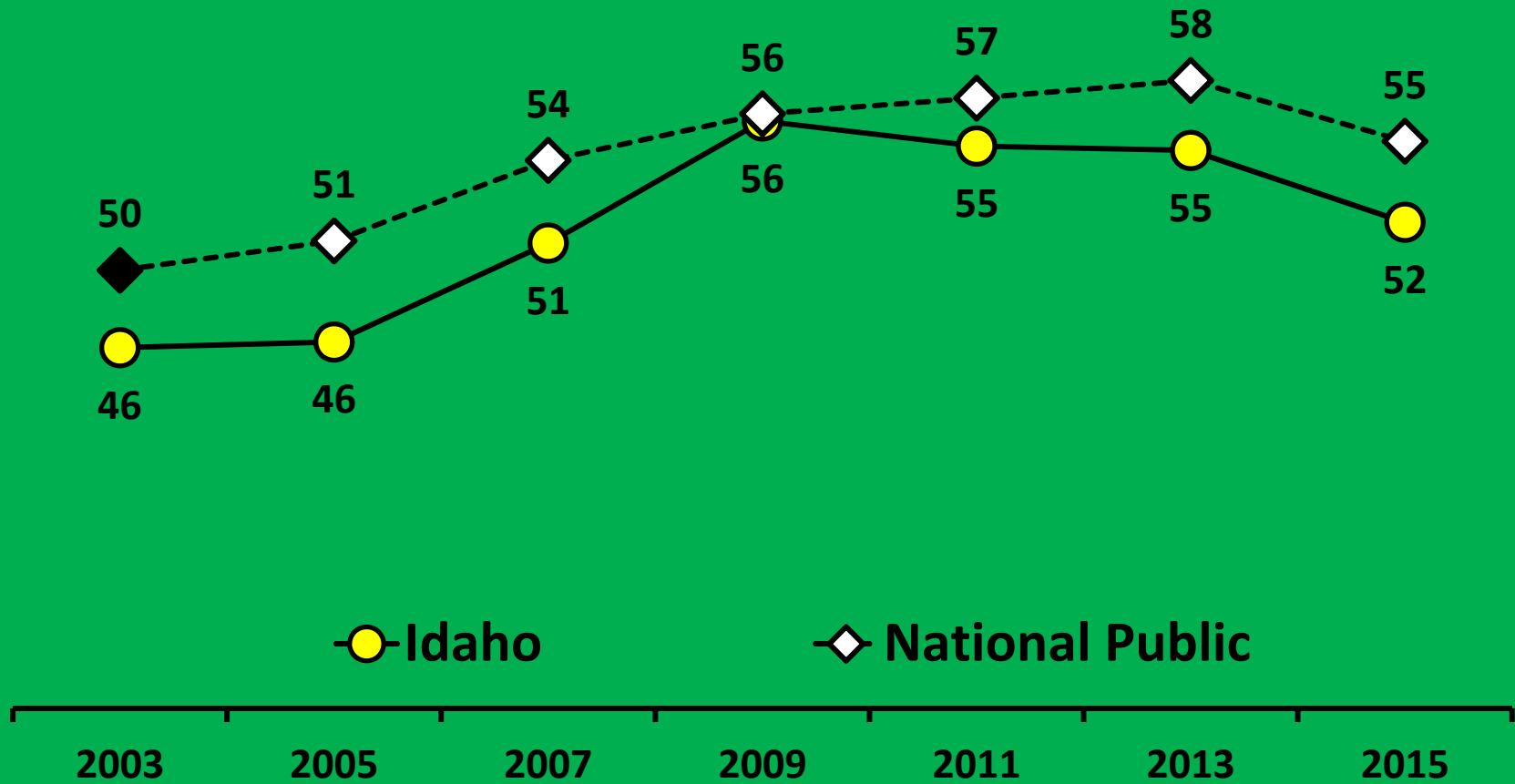
White Students



# NAEP Mathematics, Grade 8, 2003-2015

Percentile Ranks (Norm 2003)

White Students



**Idaho vs. National Public  
NAEP 2003-2015**

**HISPANIC STUDENTS**

**Percentile Ranks for Hispanic Students Only**

**Grade 4 Reading**

**Grade 8 Reading**

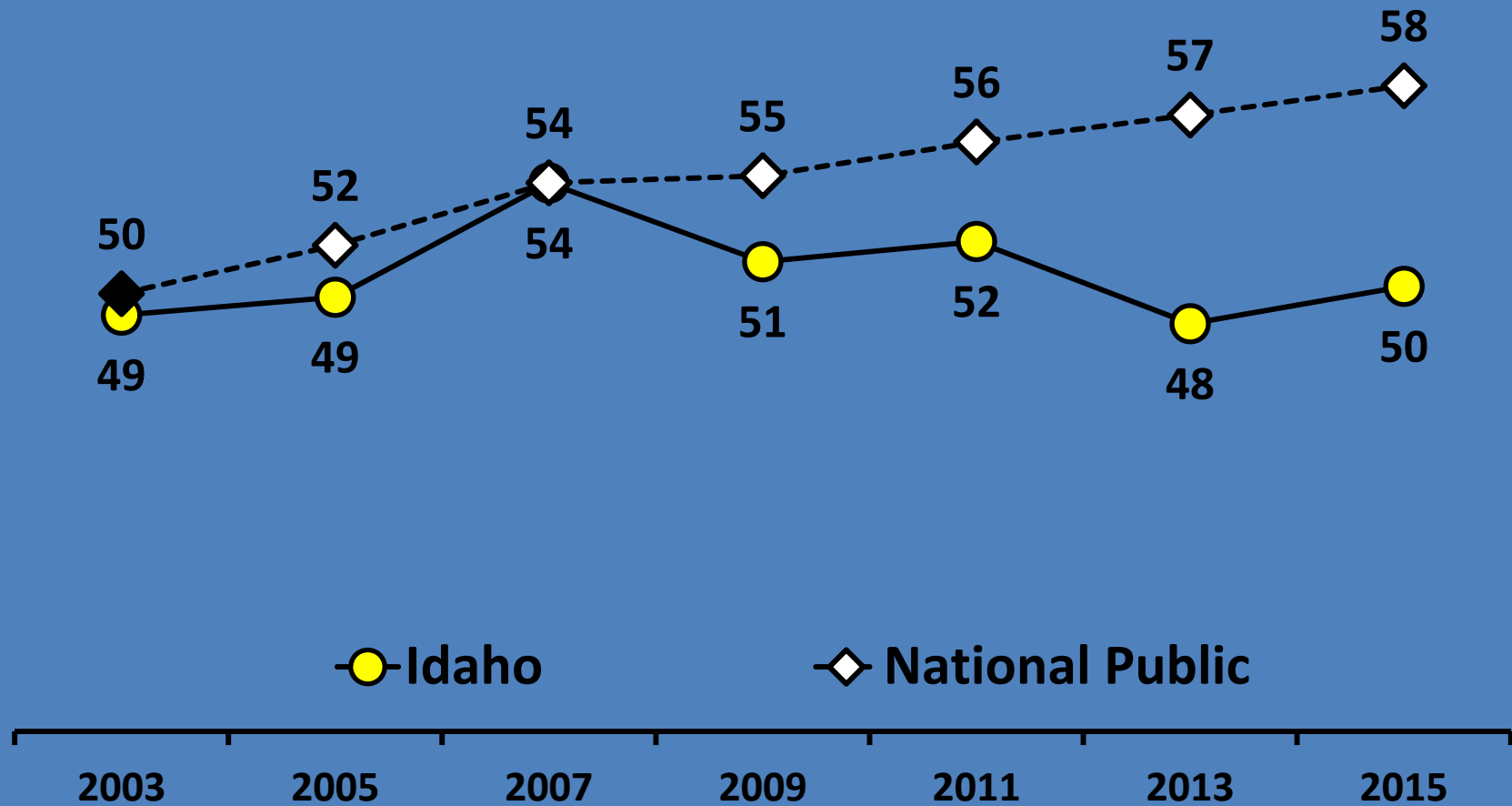
**Grade 4 Mathematics**

**Grade 8 Mathematics**

# NAEP Reading, Grade 4, 2003-2015

Percentile Ranks (Norm 2003)

Hispanic Students

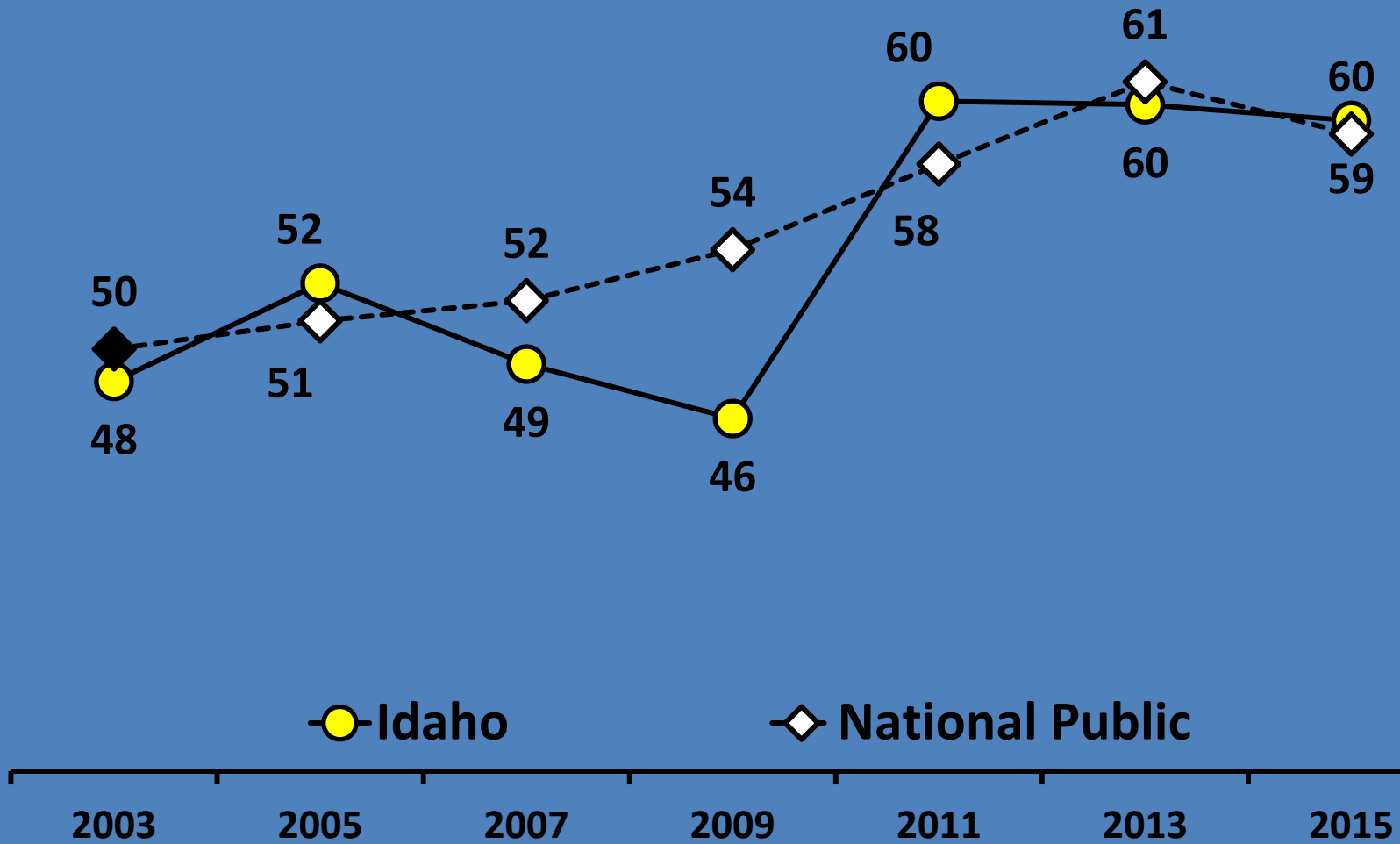




# NAEP Reading, Grade 8, 2003-2015

Percentile Ranks (Norm 2003)

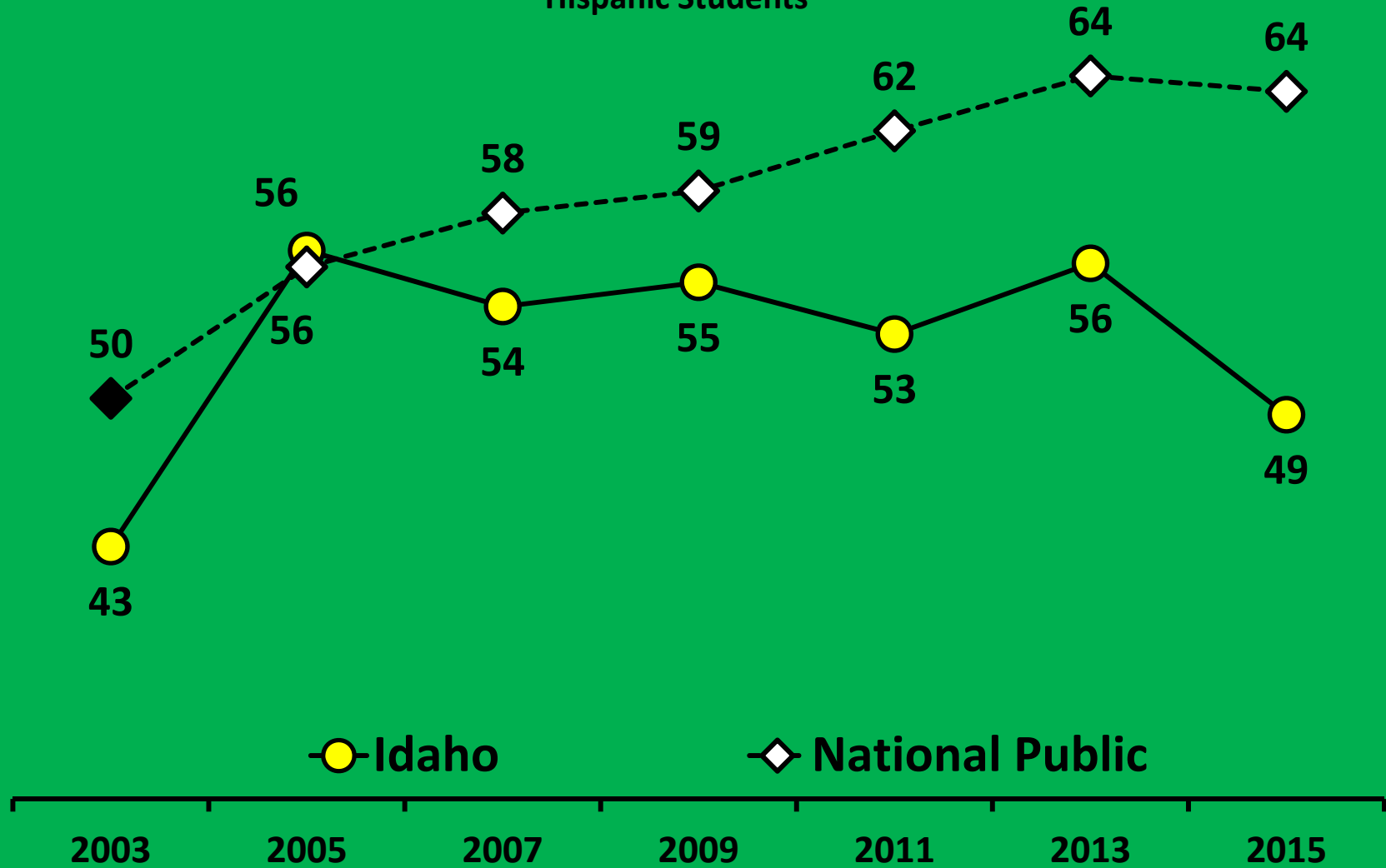
Hispanic Students



# NAEP Mathematics, Grade 4, 2003-2015

Percentile Ranks (Norm 2003)

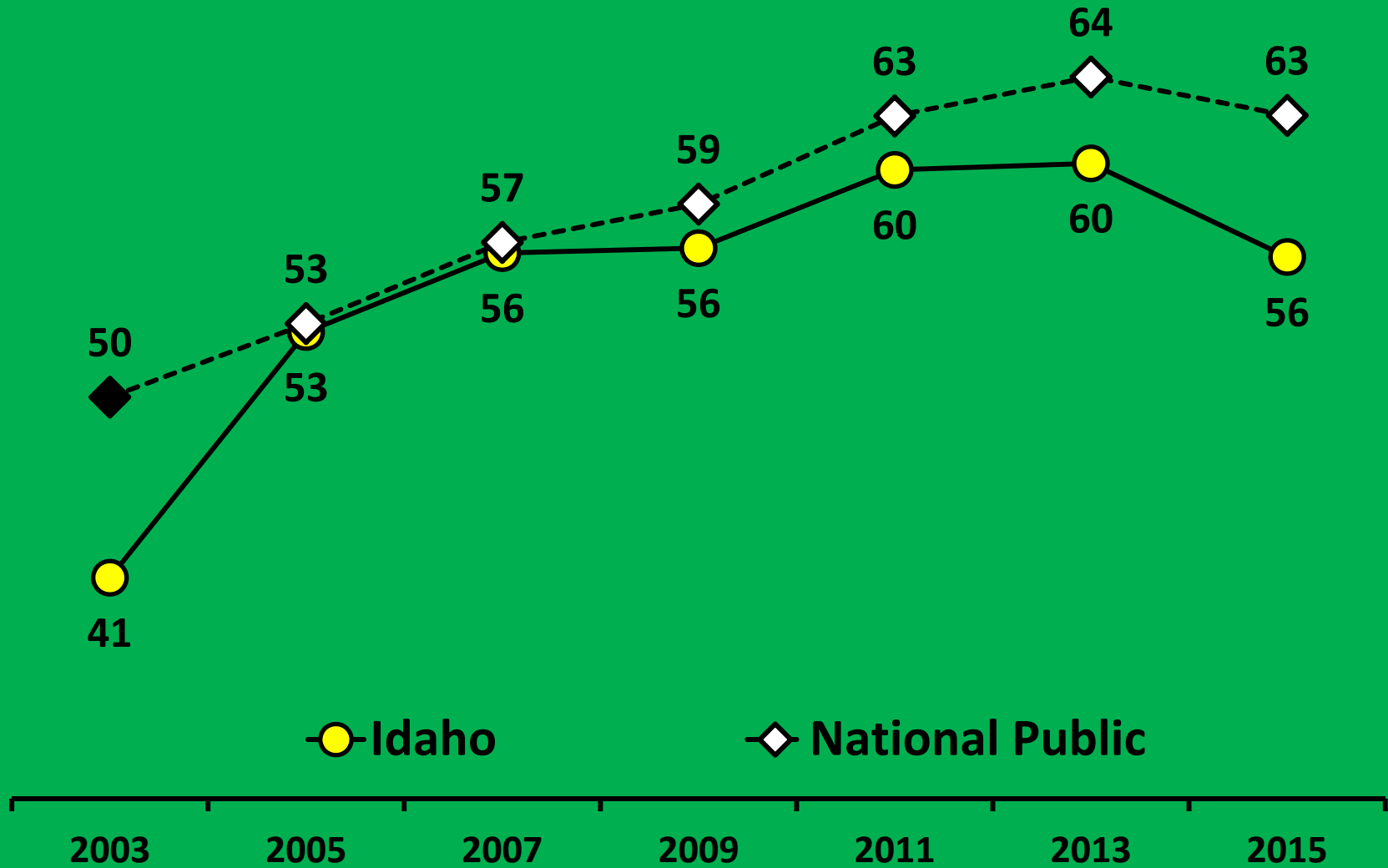
Hispanic Students



# NAEP Mathematics, Grade 8, 2003-2015

Percentile Ranks (Norm 2003)

Hispanic Students



This presentation prepared as a public service for the educators,  
parents and patrons who make public education a reality in Idaho.

**Bert Stoneberg, Ph.D.**  
**K-12 Research Idaho**  
**P.O. Box 5912**  
**Boise, ID 83705**

Visit: <http://k12researchidaho.com>  
Email: [bert@k12researchidaho.com](mailto:bert@k12researchidaho.com)

