

# Office of Student Achievement's Comprehensive 2009 CRCT Analysis



## **Analysis, Results, and Recommendations**

*Prepared for  
State Board of Education*

*February 10, 2010*

# Comprehensive 2009 CRCT Analysis



- Analysis performed by CTB-McGraw Hill
  - Vendor trusted with development and scoring of Georgia's CRCTs
  
- CTB looked at ALL test takers in grades 1-8 from the spring 2009 CRCT administration:
  - Reading
  - English / Language Arts
  - Mathematics

# State-level Analysis



- CTB scanned all test takers' answer documents to detect erasures
  - $\approx$  125,000 answer documents per subject for each grade
  - Students were compared against other students of the same subject and grade level
  - Clear picture of student test behavior across the state

# Classroom-level CRCT Analysis



- Classroom-level data was gleaned from the analysis and compared against the state picture
  - Each subject taught by a given teacher counted as one classroom.
    - ✦ E.g., a 4<sup>th</sup> grade teacher who administered the CRCT in math and ELA counted as 2 classrooms.
  - Analysis at the classroom level allows for a fair comparison of different-sized schools.

# Erasure Flags

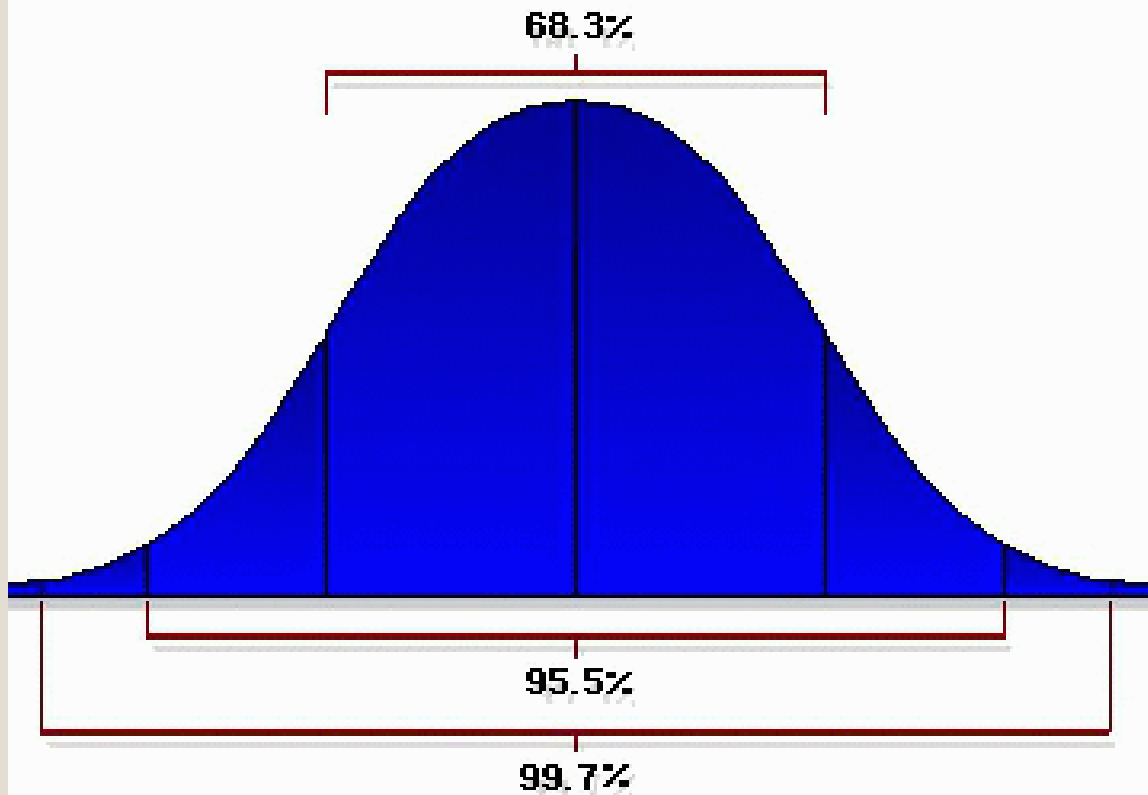


- CTB scanned answer documents to identify:
  - Total erasures per classroom
  - Wrong-to-right (WTR) changes per classroom
    - ✦ OSA focused on wrong-to-right flags
- Classrooms with WTR changes of 3 standard deviations (SDs) or more above the state average were flagged.
  - Flagging criterion was adjusted for class size.

# 3 SDs is Conservative



## Standard Deviations



152,986 Classrooms  
were examined across  
the State;

$152,986 \times 0.15\% = 230$   
Classrooms expected to  
fall naturally beyond 3  
SDs

0.15% →



# Overview of Analyses



- OSA rolled classroom-level data up to a school level to determine the % of classrooms flagged in each school:  
$$\frac{\text{\# of reading, LA, math classrooms flagged in each school}}{\text{total \# of reading, LA, math classrooms in each school}}$$
- OSA also calculated the size of each flag
  - E.g., 3.2 SDs is very different from 8.4 SDs
- Local superintendents have been notified of the data for their schools

# Result Categories



Clear	Minimal Concern	Moderate Concern	Severe Concern
0%-5% of Classrooms Flagged	6%-10% of Classrooms Flagged	11%-24% of Classrooms Flagged	25% or more of Classrooms Flagged

(Based on aggregate school flag levels)



# State-level Results



Clear of Concern	Minimal Concern	Moderate Concern	Severe Concern
0%-5% of Classrooms Flagged	6%-10% of Classrooms Flagged	11%-24% of Classrooms Flagged	25% or more of Classrooms Flagged
<b>1,488 (80%)</b> of elementary and middle schools	<b>178 (10%)</b> of elementary and middle schools	<b>117 (6%)</b> of elementary and middle schools	<b>74 (4%)</b> of elementary and middle schools

***State Average = 4% of Classrooms Flagged***

# Recommendations



	State Action	LEA Action	LEA Student Support
<b>Severe Concern</b>	State Monitors during 2010 CRCT	1) LEA investigation by superintendent 2) Submit results of investigation to OSA 3) Rotate teachers in flagged schools during CRCT	1) Notify parents of irregularities found and steps taken to address improprieties  2) Offer student support services as appropriate
<b>Moderate Concern</b>	Random spot checks during 2010 CRCT	1) LEA investigation by superintendent 2) Submit results of investigation to OSA 3) Rotate teachers in flagged schools during CRCT 4) Monitor test environment.	1) Notify parents of irregularities found and steps taken to address improprieties  2) Offer student support services as appropriate
<b>Minimal Concern</b>		1) LEA to monitor test environment of flagged schools; <b>OR</b> 2) LEA to rotate teachers in flagged schools during CRCT.	1) Offer student support services as appropriate based on any concerning irregularities found in the test environment