

# Changes to MSDE's Websites

**Protecting Confidential Student Information** 

Report to the Board of Education June 21, 2011

### Information & Transparency vs. Privacy

- Two important goals that can compete:
  - Desire to provide information about student achievement to the public, and meet federal reporting requirements
  - Legal requirements to protect individual student information

## Websites Must BE FERPA Compliant

- FERPA: Family Education Rights and Privacy Act
- New guidance has resulted in restrictions in the amount of data that will appear on the 2011 Maryland Report Card website
  - Significant data have be suppressed to protect student privacy
- Schools will have access to all of their data

#### Source

### Statistical Methods for Protecting Personally Identifiable Information in Aggregate Reporting

National Center for Education Statistics, SLDS Technical Brief: Guidance for Statewide Longitudinal Data Systems

December 2012 Brief 3, NCES 2011-603

- Often associated with small group sizes
- Can require mathematical manipulation
- School level data where specific students are known to be in subgroups and that subgroup's data are reported in detail, and/or parents have specific information.

- *Issue:* 100% proficiency in mathematics at School A
- Anyone knowing a student at School A also knows their mathematics performance
- **Solution:** Report score as a range (> 95)

- *Issue:* 100% of students in Grade 4 Special Education subgroup score Basic.
  - Students and parents of Grade 4 students who know which students have IEPs also know those students' scores – Basic
- **Solution:** Suppress data for subgroup or report a range (>95 % scored basic). Depending on N size, this may be insufficient.

• *Issue:* Suppressing data for one subgroup but providing numbers for remaining percentages

Group	Percentage	Detail
Group 1	25%	25/100
Group 2	17%	17/100
Group 3	50%	50/100
Group 4	8%	8/100

 Solution: Do not provide numerators and denominators, suppress more than one group

- *Issue:* Ten students in a subgroup, 90% score Basic. Parent of the single proficient student knows and other students in the subgroup, and because they know their child's score, they also know the others.
- **Solution:** Suppress data for entire subgroup, report all data in a range

#### Federal Recommendations

- Do not publish counts
- Collapse across categories (proficient and above instead of 2 categories: proficient and advanced)
- Group size no smaller than 10, additional suppression if number of affected subgroups is small
- Recoding ranges, "estimated" percentages
- Percentages reported only in whole numbers

## Complications

- Insufficient or missing data can cause misinterpretation.
- **Example:** N Counts are suppressed, only performance data percentages reported
- **Possible Result:** Subgroup is identified as a major school issue when in fact the issue is constrained to a very small group of students.
- **Possible Solution:** Replace with ranges? Indicator of small group size

## Complications (cont.)

Insufficient or missing data can cause misinterpretation.

**Example:** Gross estimates of percentages are presented

**Possible Result:** Total is not 100%, validity of data are questioned

**Possible Solution:** Education...

## Complications (cont.)

- Suppressed Data Download files are insufficient to meet researchers' needs
- **Example:** Gross estimates of percentages are presented
- **Possible Result:** More individual requests for data, long queues to obtain it
- **Possible Solution:** File availability at State and LEA level as well as school

#### The 2014 AYP Dilemma

- For years, schools have been working toward the 2014 AYP goal of getting every student (100%) scoring at the proficient level.
- In 2014, any school meeting AYP cannot be reported as meeting that goal, because to do so would release the individual performance levels of all of the students in the school.

#### Our Websites Prior to 2011

- Suppressed data for groups less than 5
- Reported all data that are used in calculations of percentages (numerator and denominator)
- Reported percentage data to tenths or hundredths place

#### Our Websites Now

- **Goal:** Preserve as much information as possible (conditional suppression/focus on school level)
  - Suppress data for groups smaller than 10
  - Recode all percentages of 5 or less to <=5, of 95</li>
    and above to >=95
  - Remove all counts that are used in numerators and denominators
  - Round percentages to whole numbers

## Our Websites Now (cont.)

- Fewer categories (may not be able to separately report Mod MSA from regular, may need to combine proficient and advanced
- Schools have access to their own complete data, can only access public (suppressed) version for other schools

## Next Steps

- Phased-in changes
- Education for stakeholders
- Monitoring (MSDE and Federal)



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#### **DISCUSSION**