

## 2010 School Health Profiles Report Trend Analysis Report

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### **Purpose:**

This Trend Analysis Report describes whether school health policies and practices measured by School Health Profiles (Profiles) have increased, decreased, or stayed the same over time. The report contains three parts: variables from the Principal Survey, variables from the Lead Health Education Teacher Survey, and School-Level Impact Measures (SLIMs).

### **Inclusion Criteria:**

A Trend Analysis Report is generated for sites that have weighted Profiles data for at least one survey (Principal or Lead Health Education Teacher) in 2010 and in at least one other survey year since 1998. Sites that do not have weighted data in 2010 do not receive a Trend Analysis Report.

For each variable, data from all weighted survey years are included in the analysis of that variable. A blank space for a given variable or survey year means either that the site did not obtain weighted data in that survey year, or that the question(s) corresponding to that variable were not included on the questionnaire in that survey year.

### **Analyses:**

Logistic regression analysis is used to test for change over time. The regression models simultaneously assess linear and quadratic time effects. Logistic regression analysis uses all available years of data. It does not simply consider only the oldest and the most recent data points.

### **Trend Analysis Report Column Headings:**

**Variable** – Every 2010 Profiles question and all supplemental variables calculated from those questions that have been included in at least one other Profiles survey year are included in this column. The text reflects the response or responses of interest for the particular variable. Note that the wording used for some SLIMs has been shortened to save space. Please refer to the SLIMs section of this binder for the complete wording of each SLIM.

**Prevalence** – These columns provide the prevalence estimate for each variable for each year included in the report. A blank for a given question or year signifies that weighted data were not obtained that year or that the question was not asked that year.

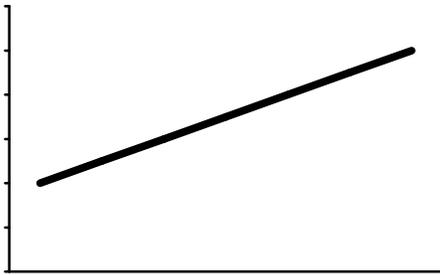
**Changes Over Time** – These columns indicate whether there was a significant linear and/or quadratic change in prevalence over time. At least three years of data are needed to test for a quadratic change. One type of change is not better or more important than the other. See below for an explanation of how to interpret the results of the Trend Analysis Report.

**Note:** Special care should be used in interpreting trend results for policies or practices that have very low prevalence. Trend analyses can be sensitive to the small number of schools in the numerator of very low prevalence variables.

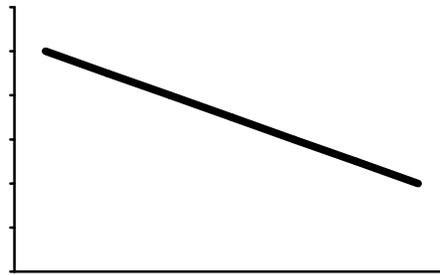
**Interpretation of Results:**

**Linear change = YES; Quadratic change = NO**

This means the policy or practice either increased (A) or decreased (B) significantly over time. A graph of the trend line will be relatively straight.



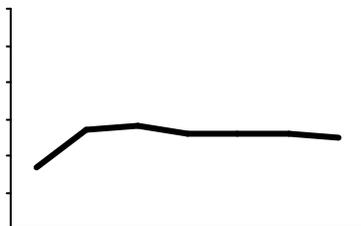
**A**



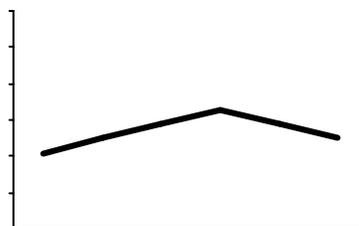
**B**

**Linear change = NO; Quadratic change = YES**

This means the policy or practice increased or decreased slightly over time, but not enough to be a significant linear change, and then leveled off (C); the policy or practice increased or decreased and then went in the opposite direction (D); or the policy or practice started out level and then increased or decreased over time, but not enough to be a significant linear change (E). A graph of the trend line will have a bend in it.



**C**



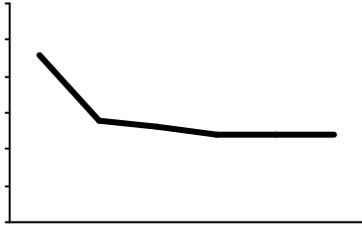
**D**



**E**

**Linear change = YES; Quadratic change = YES**

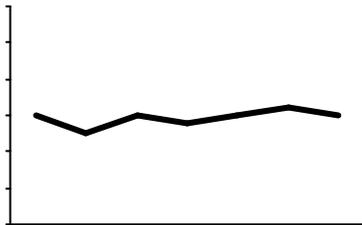
This means that while there was an overall significant increase or decrease in the policy or practice over time, the policy or practice has either leveled off or begun to move in the opposite direction (F). A graph of the trend line will have a bend in it.



**F**

**Linear change = NO; Quadratic change = NO**

This means that there was no significant change in the policy or practice over time. A graph of the trend line will be relatively flat (G).



**G**