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# Effects of State Testing Programs on Elementary Schools with High Concentrations of Student Poverty - Good News or Bad News? 

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#### Abstract

In school districts across the country, accountability enacted through testing initiatives is beginning to play a more important role in documenting student attainment of high academic standards. Critics of the testing movement have argued that standardized testing is narrowing the curriculum resulting in instructional practices ineffective in promoting meaningful student learning. Using a nationally stratified random sample, public school teachers were surveyed on the effects of state testing programs on their practices. Results indicate that classroom practices were affected, most of these effects afflicted teachers in impoverished schools. Findings suggest that increases in test scores is not necessarily a result of student academic attainment but more of test preparation, calling into question the validity of such outcomes.


In our continuing quest for better schools and high achieving students, testing has taken center stage. Society has begun to consider good test scores a major goal of schooling. Thus, there is great pressure, particularly in schools with large populations of low-achieving students, to demonstrate academic progress and success through improved test scores. Skeptics have begun to wonder if the effort to raise standards for all students through high-stakes testing initiatives has too steep a price, including a narrowing of the curriculum and a deemphasis on curricular depth, an abandonment of constructivist-type activities that give meaning to learning, and a curtailment of extracurricular activities.

While standardized tests have become the driver of curriculum in many schools, resulting in less instruction in non-tested areas (Ascher, 1990) as well as less emphasis on higher-order thinking skills, some literature indicates that there is an even stronger influence of tests on the instructional process (Ascher, 1990; Cimbricz, 2002; Dorr-Bremme \&

Herman, 1986; Haertel, 1989; Darling-Hammond, 2003; Herman \& Golan, 1993; Knapp \& Associates, 1995; McNeil, 2000; McNeil \& Valenzuela, 2000; Orfield \& Kornhaber, 2001; Stecher, Barron, Kaganoff, \& Goodwin, 1998) in schools with high concentrations of students from improvished environments (Hoffman, Assaf, \& Paris, 2001). Schools with high concentrations of poverty, when compared to schools with low-poverty (a) rely more on basal readers and textbook-driven reading curriculum and less on literature and trade books; (b) do more reading aloud than silent reading; and (c) place less emphasis on analytic mathematical concepts using problem solving and word problems, or working on mathematical reasoning (Ascher, 1990; Knapp \& Associates, 1995; Lomax, West, Harmon, Viator, \& Madaus, 1996; Solomon, Battistich, \& Hom, 1996). Evidence also suggests a greater emphasis on drill and practice and the use of worksheets in higher poverty schools (Ascher, 1990). In economically improvished schools teachers report spending more time instructing students directly
about test-taking strategies (Herman \& Golan, 1993; Monsaas \& Engelhard, 1994; Stevens, 1984). Solomon et al. (1996) demonstrated that the greatest differences in terms of instruction between schools with low and high socioeconomic status students were the amount of student activity, interaction, and autonomy allowed and encouraged, all of which are in short supply in high poverty schools.

Lower teacher expectations may also impact the instructional methods used by teachers to prepare economically disadvantaged students. Several studies suggest that teachers tend to have lower expectations for students from improvished backgrounds and they often formulate these expectations before they have significant interaction with students. Teacher suppositions are based on their knowledge of students' test scores, tracking or ability placement, and previous teachers' comments (Gonder, 1991; Lumsden, 1997; Ornstein \& Levine, 1989; Pajares, 1992; Solomon, et al., 1996). As a result, teachers are apt to deliver instruction based on a different, simplified curriculum (Ornstein \& Levine, 1989), often reinforcing the drill-and-practice of basic skills while ignoring higher-order thinking skills that enable complex and meaningful learning to occur. In essence, teacher expectations of students from impoverished backgrounds devalue the educational opportunities provided to these students.

An increasing emphasis on state testing initiatives over the last five years may have lead to even more negative effects on students from impoverished environments. If increased testing pressures continue to create differential ways by which teachers respond to students in high and lowpoverty schools, it can be expected that negative modes of test preparation in schools with high concentrations of student poverty will rematerialize in the near future.

This study sought to address the following question: Do teachers in high-versus low-poverty schools differentiate their instructional practices when faced with high-stakes tests given the population of students they teach?

To understand the actions of others one must consider insider perspectives (Eisenhart \& Howe, 1990). In schools, teachers make decisions based on their interpretation of the cultural and societal norms of the school and community environment (Eisenhart \& Howe, 1990). As teachers are pressured to produce better test scores, they make specific choices to accomplish this goal for the betterment or determent of sound instructional practices. Are their choices and actions influenced by a school culture related to poverty?

## Methodology

In order to describe the effects of student poverty on teachers instructional practices when faced with high-stakes tests, a $1 \%$ nationally stratified random sample of K-12 teachers, stratified on school metropolitan status and poverty level, were sent a survey designed specifically for this study.

## Sampling Framework

Market Data Retrieval (MDR) provided teacher-level information for all public elementary schools in the United States. Based on the MDR information, 928,170 elementary teachers (defined as grades K-8) were employed in schools across the nation at the time of the sampling. It is important to note that approximately 15,000 elementary schools housed grades K-8. Because of the large numbers of public school elementary teachers, a $1 \%$ stratified random sample from each state at each level was drawn, stratifying on metropolitan status and poverty level indicators (as defined by the U.S. Census Bureau, 1990) associated with each school ( $\underline{n}=8,044$ elementary).

## The Survey

A 99-item teacher questionnaire was developed and piloted specifically for use in this study. The questionnaire asked about the perceived influence of state testing on curriculum and instruction, the pressure, if any, the teacher felt to improve test scores, the amount of time and attention given to test preparation, the perceived positive and negative effects of standardized testing, the teacher's perceptions of the consequences of testing, and teacher background data including geographic and school level poverty indicators.

Based on the pilot of the survey, principal component analyses were conducted to confirm the intended scales of the survey. Using a factor saliency criterion of $+/-0.50$, 59 -items were retained, accounting for $64 \%$ of the variance. Four factors emerged from the 59-items: Standardized tests influence on class time, teachers attention to tests during instruction, pressure felt to improve test results, and teacher attitudes about state testing. Coefficient alphas for each of the survey scales are presented in Table 1. For a complete description of the final questionnaire, see Appendix 1.

Table 1
Final State Testing Questionnaire
Subscale Alpha

## STANDARDIZED TESTS INFLUENCE ON CLASS TIME

Class time preparation
How much time do you 9 5=Regularly -> 0.93

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| spend in your classroom on various test preparation activities? |  | $0=$ None |  |  |
| :---: | :---: | :---: | :---: | :---: |
| How much time do you spend in your classroom on worksheets for test preparation? | 3 | $\begin{aligned} & 5=\text { Regularly } \\ & 0=\text { None } \end{aligned}$ | > | 0.92 |
| How much time do you spend in your classroom on various test preparation activities AFTER state testing? | 4 | $\begin{aligned} & 5=\text { Regularly } \\ & 0=\text { None } \end{aligned}$ | -> | 0.84 |
| Teacher attention to tests during instruction |  |  |  |  |
| How have state test results affected your instruction? | 4 | $\begin{aligned} & 3=\text { Strongly } \\ & 1=\text { Not At All } \end{aligned}$ | -> | 0.72 |
| How frequently are various nontraditional item formats used in your classroom? | 3 | $1=$ Yes $->0=$ No |  | 0.73 |

## PRESSURE TO IMPROVE TEST SCORES

| To what extent do you feel pressure to improve test scores from various groups? | 9 | 5=Extremely <br> High -> 0=No <br> Pressure | 0.84 |
| :---: | :---: | :---: | :---: |
| How often during the year does your administration engage in various activities for improving test results? | 5 | 3=Many Times <br> $>0=$ Not At All | 0.85 |
| What is the potential for various consequences to teachers whose students perform poorly on state tests? | 5 | $1=$ Yes $\rightarrow$ > $0=$ No | 0.76 |
| If test scores have changed, how important are various classroom factors? | 5 | 3=Major Factor <br> >0=No Factor | 0.81 |
| Pressure on students and teachers | 5 | $\begin{aligned} & 3=\text { Strongly } \\ & \text { Agree } \\ & \text { 1=Strongly } \\ & \text { Disagree } \end{aligned}$ | 0.82 |
| Emphasis on state test outcomes | 2 | 5=Extremely <br> High -> 0=No <br> Pressure | 0.55 |
| Teacher Attitudes About State Testing | 5 | 3=Strongly <br> Agree 1=Strongly Disagree | 0.77 |

Questionnaire packets, including a brief study rationale and directions for completing the survey, were mailed to teachers. Teachers were provided postage-paid return envelopes for mailing the questionnaire back to the researchers. Data were received from 1,330 elementary teachers (return rate $=16 \%^{1}$ ).

## Sample

The final sample included teachers from all 50 states and the District of Columbia. Approximately $15 \%$ of the teachers worked in schools with $0-5.9 \%$ poverty ( $\underline{n}=200$ ), $35 \%$ worked in schools with $6.0-15.9 \%$ poverty $(\underline{n}=465), 34 \%$ worked in schools with $16.0-29.9 \%$ poverty ( $\mathrm{n}=$ 452 ), and $16 \%$ worked in schools with $30 \%$ or more poverty ( $\underline{n}=213$ ). Seventeen percent of the teachers reported teaching first grade, $16 \%$ second grade, $21 \%$ third grade, $21 \%$ fourth grade, $19 \%$ fifth grade, and $6 \%$ sixth grade. The average number of years teaching was 16.7 years ( $s d=9.6$ yrs.).

## Data Analysis

Data were coded by state, metropolitan status, and poverty level of the school. Descriptive statistics were computed at the item level and reported by the categories verified by a factor analysis. One-way analyses of variance were used to examine differences among teachers' responses by school poverty level, adjusting alpha to control for multiple comparisons (Overall alpha was set at .05). Where overall significant differences were found, post hoc comparison procedures were used to determine which poverty level groups were significantly different.

## Findings - Effects of Testing on Teachers

Teachers reported spending substantial time preparing students for state-mandated tests. However, when compared to teachers in low poverty schools, teachers in schools with high concentrations of poverty reported spending more time on direct test preparation activities, such as instruction focused directly on test-taking strategies, reviewing and practicing state released test items, and giving students other practice opportunities on the types of item formats found on the state tests. Comparisons of mean responses for each item across poverty levels indicated, in general, statistical differences in the use of such practices both before and after testing and between teachers in schools with low poverty and schools with high poverty.

Table 3 displays the percentage of teachers across school poverty levels that reported regularly using the test preparation activities. As can be seen, across all time periods prior to the administration of state test(s), the percentage of teachers reporting the regular use of test preparation activities markedly increased prior to the administration of the test(s) with a sharp decline in use after the state test(s). In general, across all poverty levels, over half of the teachers reported regularly using the test preparation activities specified the month prior to state testing, with over three-fourths of teachers in schools with the highest concentration of poverty reporting regular
usage. Surprisingly, after administration of the state test(s) almost one-third of the teachers in schools with high poverty levels reported the continued use of test preparation activities.

Table 2
Use of Test Preparation Activities Reported by Teachers Across Poverty Levels (Means and Standard Deviations)

|  |  | Poverty |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Item | Available Range*** | $\begin{aligned} & \text { A } \\ & \text { (lowest) } \end{aligned}$ | B | C | D <br> (highest) |

How much time do you spend in your classroom on the following test preparation activities during the first $1 / 3$ of the year?

Instruction on test-taking
strategies*

| Review/practice |  |
| :--- | ---: |
| using | state- |
| released | test |
| items |  |
|  |  |

Student practice in the kinds of item formats that are on state test(s) ${ }^{* *}$

How much time do you spend in your classroom on the following test preparation activities during the second $1 / 3$ of the year?

How much time 0-5; None
do you spend in to
test(s) ${ }^{* *}$

| Instruction on test-taking strategies | $\begin{aligned} & 3.0 \\ & (1.8) \end{aligned}$ | $\begin{aligned} & 3.2 \\ & (1.8) \end{aligned}$ | $\begin{aligned} & 3.3 \\ & (1.8) \end{aligned}$ | $\begin{aligned} & 3.9 \\ & (1.7) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| Review/practice  <br> using state- <br> released test <br> items***  | $\begin{aligned} & 2.3 \\ & (2.0) \end{aligned}$ | $\begin{aligned} & 2.6 \\ & (2.0) \end{aligned}$ | $\begin{aligned} & 2.7 \\ & (2.0) \end{aligned}$ | $\begin{aligned} & 3.4 \\ & (1.9) \end{aligned}$ |
| Student practice in the kinds of item formats that are on state test(s)** | $\begin{aligned} & 2.9 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & 3.2 \\ & (1.8) \end{aligned}$ | $\begin{aligned} & 3.3 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & 4.0 \\ & (1.6) \end{aligned}$ |

$0-5$; None to Regularly
$0-5$; None to Regularly

|  |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
| $(1.9)$ | 2.8 | 3.0 | 3.4 |
|  |  |  |  |
|  |  |  |  |
| 2.1 | 2.1 | 2.3 | 2.8 |
| $(2.0)$ | $(2.0)$ | $(2.1)$ | $(2.0)$ |
|  |  |  |  |
|  |  |  |  |
| 2.8 | 2.9 | 3.0 | 3.6 |
| $(2.0)$ | $(1.9)$ | $(2.0)$ | $(1.8)$ |
|  |  |  |  |

0-5; None
to
Regularly


| your classroom on <br> the following test <br> preparation <br> activities during <br> the month prior to |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| state testing? |  |  |  |  |
| Instruction on |  |  |  |  |
| test-taking |  |  |  |  |
| strategies |  |  |  |  |
| Review/practice |  |  |  |  |
| using state- |  |  |  |  |
| released test |  |  |  |  |
| items |  |  |  |  |

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regular use of such formats than poverty-stricken schools.

Table 3
Percentage of Teachers Who Report Regular Use of Test Preparation Activities by Poverty Level

Item

| First | Second | Month |  |
| :--- | :--- | :--- | :--- |
| Third | Third | Prior | After |
| of | of | To | Tests |
| Year | Year | Tests |  |

How much time do you spend in your classroom on the following test preparation activities...

Instruction for students on test-taking strategies

| - $\quad$ 0-5.9\% Poverty | $34.5 \%$ | $35.5 \%$ | $50.8 \%$ | $16.8 \%$ |
| :--- | :--- | :--- | :--- | :--- |
|  | $33.6 \%$ | $39.3 \%$ | $59.5 \%$ | $17.2 \%$ |
| - $\quad$ 6.0-15.9\% Poverty | $36.9 \%$ | $42.6 \%$ | $63.7 \%$ | $21.1 \%$ |
|  | $47.7 \%$ | $60.6 \%$ | $77.3 \%$ | $30.5 \%$ |
| - $\quad$ 16.0-29.9\% |  |  |  |  |
|  | Poverty |  |  |  |
| - 30\% or more |  |  |  |  |
|  |  |  |  |  |

Review/practice using state-released test items

- 0-5.9\% Poverty $\quad 23.6 \% \quad 25.6 \% \quad 43.5 \% \quad 8.8 \%$
- $6.0-15.9 \%$ Poverty $\quad 22.2 \% \quad 29.9 \% \quad 52.3 \% \quad 11.6 \%$

| - $16.0-29.9 \%$ | $27.0 \%$ | $34.2 \%$ | $59.8 \%$ | $14.7 \%$ |
| :--- | :--- | :--- | :--- | :--- |
|  | $33.7 \%$ | $48.6 \%$ | $68.2 \%$ | $20.9 \%$ | Poverty

- $30 \%$ or more

Student practice in the kinds of item formats that are on tests
$\begin{array}{llllll}\text { - } \quad \text { 0-5.9\% Poverty } & 35.2 \% & 35.4 \% & 55.4 \% & 19.0 \% \\ \text { - } \quad \text { 6.0-15.9\% Poverty } & 35.1 \% & 39.5 \% & 62.8 \% & 20.7 \% \\ \text { - } \quad 41.2 \% & 45.5 \% & 67.7 \% & 24.9 \% \\ \quad \text { 16.0-29.9\% } & 53.4 \% & 64.4 \% & 79.0 \% & 31.8 \% \\ & \text { Poverty } & & & & \\ \text { - } 30 \% \text { or more } & & & & \end{array}$

The percentage of teachers in each poverty level responding to the frequency of use of the nontraditional assessment formats is presented in Table 5. The large proportion of teachers, across all poverty levels, indicated only occasionally using these assessment formats. Several interesting patterns were also found in the reported percentages. Regardless of poverty level, less than $25 \%$ of the teachers reported using constructed-response items or long-term projects often. Performance-type items were reported as the most often used/utilized assessment format, with over one-third of the teachers in schools in the lowest poverty level reporting using the format often. Less than one-fourth of the teachers in schools with the highest poverty level reported using performancetype items often.

Table 4
Assessment Formats Used In Classrooms (Means and Standard Deviations)

|  | Poverty Level |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Item | Available <br> Range | A <br> (lowest) | B | C | D |  | (highest)


| How frequently |  |
| :--- | :--- |
| are the following | $1-3 ;$ |
| practices used in | Rarely to <br> your <br> classroom... |
| Often |  |


| Use of constructed response items (short essays) | $\begin{aligned} & 2.3 \\ & (.75) \end{aligned}$ | $\begin{aligned} & 2.2 \\ & (.75) \end{aligned}$ | $\begin{aligned} & 2.2 \\ & (.79) \end{aligned}$ | $\begin{aligned} & 2.1 \\ & (.78) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| Use of longterm projects (e.g. research project) ${ }^{*}$ | $\begin{aligned} & 2.0 \\ & (.69) \end{aligned}$ | $\begin{aligned} & 1.9 \\ & (.72) \end{aligned}$ | $\begin{aligned} & 1.8 \\ & (.75) \end{aligned}$ | $\begin{aligned} & 1.8 \\ & (.77) \end{aligned}$ |
| $\begin{aligned} & \text { Use of } \\ & \text { performance- } \\ & \text { type items (e.g. } \end{aligned}$ | $\begin{aligned} & 2.2 \\ & (.65) \end{aligned}$ | $\begin{aligned} & 2.1 \\ & (.68) \end{aligned}$ | $\begin{aligned} & 2.1 \\ & (.69) \end{aligned}$ | $\begin{aligned} & 1.9 \\ & (.72) \end{aligned}$ |

experiment)*
*: A group mean differed significantly from D group mean at $p<$ . 05
Poverty Levels: A (0-5.9\%); B (6.0\%-15.9\%); C (16.0\%-29.9\%); D (30.0\% or greater)

Table 5
Types of Assessment Formats Used Reported by Teachers
Item Often Sometimes Rarely

How frequently are the following practices used in your classroom...

Use of constructed response items (short essays)

| - $0-5.9 \%$ Poverty | $17.2 \%$ | $35.4 \%$ | $47.4 \%$ |
| :--- | :--- | :--- | :--- |
|  | $22.7 \%$ | $39.0 \%$ | $38.3 \%$ |
| - 6.0-15.9\% Poverty | $22.8 \%$ | $34.2 \%$ | $43.0 \%$ |
|  | $24.1 \%$ | $38.5 \%$ | $37.4 \%$ |
| - |  |  |  |
| - $16.0-29.9 \%$ Poverty |  |  |  |
| - 30\% or more |  |  |  |

Use of long-term projects (e.g., research or other type projects)

| - | 0-5.9\% Poverty | $23.7 \%$ | $51.5 \%$ |
| :--- | :--- | :--- | :--- |
| - | $20.0 \%$ | $47.2 \%$ | $24.7 \%$ |
| - | 16-15.9\% Poverty | $21.1 \%$ | $41.9 \%$ |
| $32.8 \%$ |  |  |  |

- $30 \%$ or more

Use of performance type items (e.g., presentations, experiments)

| - | 0-5.9\% Poverty | $34.4 \%$ | $53.3 \%$ | $12.3 \%$ |
| :--- | :--- | :--- | :--- | :--- |
| - | $27.6 \%$ | $53.4 \%$ | $19.1 \%$ |  |
| - $\quad$ 16.0-29.9\% Poverty | $28.7 \%$ | $51.3 \%$ | $20.0 \%$ |  |
| - | $24.0 \%$ | $49.1 \%$ | $26.9 \%$ |  |
| 30\% or more |  |  |  |  |

Table 6
Pressure Felt from Administration (Means and Standard Deviations)



| Checks to see |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| that teachers are |  |  |  |  |
| areas which | (1.2) | (1.1) | (1.1) | (1.6) |
| showed (1.2) (1.1) (1.1) (1.6) |  |  |  |  |
| weakness from |  |  |  |  |
| past test results** |  |  |  |  |
| Introduces or |  |  |  |  |
| discusses |  |  |  |  |
| important new | 1.8 | $1.8$ | 1.8 | $2.1$ |
| instructional | (1.1) | (1.0) | (1.8) | (.93) |

ideas
*: A, B, \& C group means differ significantly from group D mean at $p<.05$.
Poverty Levels: A (0-5.9\%); B (6.0\%-15.9\%); C (16.0\%-29.9\%); D (30.0\% or greater)

Teachers indicated that their administrators engaged in various activities focused on improving test results several times per year (Table 6). Discussions of ways to improve test scores were the most frequently reported activity across all poverty levels. Significant differences were found between lower poverty schools regarding the types of discussions used to improve test scores, materials being provided to improve test scores, and the methods by which administrators monitored teachers. The schools with the three lowest levels of poverty differed from those with the highest poverty level while teachers from the poorest schools indicated this occurred with greater frequency. Results indicated that administrators in schools with the most poverty subjected teachers to activities to improve test scores

Table 7
Pressure Felt to Improve Test Scores

Item \begin{tabular}{lll}
Many \& A Few <br>
Times

 

Times

 Once 

Not at <br>
All
\end{tabular}

How often during the year does your administration engage in various activities for improving test results?

Reviews test scores


Discusses ways to improve test scores


Provides materials to improve test scores

| $\bullet$ | O-5.9\% | $26.8 \%$ | $43.4 \%$ | $13.6 \%$ |
| :--- | :--- | :--- | :--- | :--- |
|  | $16.2 \%$ |  |  |  |
|  | Poverty | $28.0 \%$ | $44.4 \%$ | $10.9 \%$ |
| - $\quad$ 6.0-15.9\% | $31.6 \%$ | $39.7 \%$ | $10.4 \%$ | $18.3 \%$ |
|  | Poverty | $42.5 \%$ | $44.1 \%$ | $7.3 \%$ |
| - |  |  |  | $6.1 \%$ |
| - $16.0-29.9 \%$ |  |  |  |  |
|  | Poverty |  |  |  |
| - $30 \%$ or more |  |  |  |  |
|  |  |  |  |  |

Checks to see that teachers are emphasizing areas which showed weaknesses from past results

| - $\quad$ O-5.9\% | $19.8 \%$ | $35.5 \%$ | $10.7 \%$ | $34.0 \%$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Poverty | $24.5 \%$ | $38.2 \%$ | $12.9 \%$ | $24.5 \%$ |
| - $\quad$ 6.0-15.9\% | $24.8 \%$ | $37.2 \%$ | $10.8 \%$ | $27.1 \%$ |  |
|  | Poverty | $41.3 \%$ | $36.9 \%$ | $5.6 \%$ | $16.2 \%$ |
| - $\quad 16.0-29.9 \%$ |  |  |  |  |  |
|  | Poverty |  |  |  |  |
| - $30 \%$ or more |  |  |  |  |  |
|  |  |  |  |  |  |

Introduces or discusses important new instructional ideas

| $\bullet$ | O-5.9\% | $29.6 \%$ | $44.4 \%$ | $6.1 \%$ |
| :--- | :--- | :--- | :--- | :--- |
|  | Poverty | $27.1 \%$ | $45.0 \%$ | $9.6 \%$ |
|  | $18.9 \%$ |  |  |  |
| - | 6.0-15.9\% | $29.2 \%$ | $39.8 \%$ | $10.8 \%$ |
| Poverty | $36.1 \%$ | $46.1 \%$ | $6.7 \%$ | $11.1 \%$ |
|  |  |  |  |  |
| - $16.0-29.9 \%$ |  |  |  |  |
|  | Poverty |  |  |  |
| - $30 \%$ or more |  |  |  |  |
|  |  |  |  |  |

consistently and most often. Interestingly, test preparation discussions were not found to be

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significantly more likely to occur in schools with lower poverty levels.

The percentage of teachers indicating that administrators led activities designed to improve test scores is shown in Table 7. For those teachers indicating that the activities occurred many times throughout the school year, a crescendo effect was seen. That is, as the poverty level of the school increased so did the percentage of teachers indicating the activity occurred. For example, approximately $52 \%$ of teachers in the highest poverty schools noted that discussions of ways to improve test scores occurred many times during the year compared with the lowest poverty level school where only $32 \%$ of the teachers reported the activity occurring many times throughout the year. Another interesting pattern was evident regarding how often administrative leaders checked to see that weak areas from past

Table 8
Consequences to Poor Student Performance on State Test(s) (Means and Standard Deviations)

| Item |  | Poverty Level |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Available Range | A (lowest) | B | C | D <br> (highest) |
| What are the potential |  |  |  |  |  |
| consequences to teachers whose students perform | $\begin{aligned} & 0-1 \text {; No - } \\ & \text { Yes } \end{aligned}$ |  |  |  |  |
| poorly on state test(s) in your school? |  |  |  |  |  |
| Potential loss |  | $0.13$ $(033)$ | $0.18$ $(0.39)$ | $0.20$ | $0.26$ |
| Reassignment |  |  |  |  |  |
| of grade level or |  | 0.20 | 0.30 | 0.35 | 0.4 |
| taught ${ }^{* *, * * *}$ |  |  |  |  |  |
| Private |  | $0.24$ | 0.30 | 0.32 | 0.38 |
| reprimand ${ }^{*}$ |  | (0.43) | (0.46) | (0.47) | (0.49) |
| Pressure to |  |  |  |  |  |
| change teaching strategies**** |  | (0.50) | (0.48) | (0.48) | (0.45) |
| No |  | 0.35 | 0.24 | 0.23 | 0.14 |
| consequences ${ }^{* * * *}$ |  | (0.48) | (0.43) | (0.42) | (0.35) |

[^0]results were being emphasized. Forty-one percent of the teachers in the lowest poverty schools reported the activity occurring many times throughout the year compared to only approximately $20 \%$ of teachers reporting the activity occurring in the lowest poverty schools. In addition, $34 \%$ of teachers in the lowest poverty schools reported administrators did not check at all compared to only $16 \%$ of teachers in the highest poverty schools. The frequency that administrators introduced or discussed new instructional ideas was fairly consistent across each school poverty level.

Table 9
Types of Consequences Resulting From Poor Student Performance on State Tests Reported by Teachers across Different Poverty Levels
Item Yes
What are the potential consequences to teachers whose students perform poorly on state test(s) in your school?

Potential loss of position

| - 0-5.9\% Poverty | $12.5 \%$ |
| :--- | :--- |
|  | $18.0 \%$ |
| - 6.0-15.9\% Poverty | $19.8 \%$ |
|  | $26.1 \%$ |
| - 16.0-29.9\% Poverty |  |
| - 30\% or more |  |

Reassignment of grade level or type of student taught

| - |  |
| :--- | :--- | :--- |
| - $-5.9 \% ~ P o v e r t y ~$ | $19.5 \%$ |
| - $6.0-15.9 \% ~ P o v e r t y ~$ | $29.9 \%$ |
| - 16.0-29.9\% Poverty | $35.4 \%$ |
| - 30\% or more | $42.8 \%$ |

Private reprimand

| - 0-5.9\% Poverty | $24.0 \%$ |
| :--- | :--- | :--- |
| - 6.0-15.9\% Poverty | $30.3 \%$ |
| - 16.0-29.9\% Poverty | $32.4 \%$ |
| - 30\% or more | $37.8 \%$ |

Pressure to change teaching strategies

| - 0-5.9\% Poverty | $28.6 \%$ |
| :--- | :--- | :--- |
| - 6.0-15.9\% Poverty | $34.5 \%$ |
| - 16.0-29.9\% Poverty | $23.6 \%$ |
| - 30\% or more | $23.4 \%$ |

No consequences

| - 0-5.9\% Poverty | $34.5 \%$ |
| :--- | :--- | :--- |
| - 6.0-15.9\% Poverty | $23.6 \%$ |
| - 16.0-29.9\% Poverty | $23.4 \%$ |
| - $30 \%$ or more | $13.9 \%$ |

Finally, teachers were asked to respond to the consequences that threatened them as professionals if students in their classrooms performed poorly on the state tests. As seen in Table 8 , differences among poverty levels were found per consequence. While teachers indicated all of the consequences might impact them, pressure to change teaching strategies was the most frequently reported consequence across all poverty levels. A larger percentage of teachers in the schools with the highest level of poverty indicated potential loss of job, reassignment, or reprimand as consequences of poor student performance. The largest percentage of teachers who reported no consequences for posting poor test scores taught in schools with the least reported poverty levels (Table 9).

## Summary and Conclusions

These survey findings support previous studies' findings in that accountability, as implemented through testing initiatives, has tremendous effects on teachers and the teaching and learning process. Substantial amounts of time are spent in special test preparation activities prior to and after state test(s), administrators encourage attention to test scores by engaging in activities with teachers designed specifically to increase test scores (e.g., discussion of and provision of materials to improve test scores), and whether real or perceived, teachers associate potential negative consequences with poor student test performance (e.g., reassignment, loss of job). All of these effects are evidenced more prominently in schools with students from improvished backgrounds.

Whether the study findings are good news or bad news depends on one's philosophical ideas about testing initiatives. If one holds the view that the test(s) and what they are measuring are educationally valid then certainly these results are good news that testing initiatives are tools through which educational reform can be obtained. If, however, one holds the opposite view, that an increased emphasis on testing decreases the likelihood of meaningful systemic reform, then the results from this study indicate that testing initiatives negatively impact the instructional process by which children learn, distort the curriculum, and replace effective instructional practices by focusing on test preparation.

Several conclusions can be drawn based on this study's findings:

1. The use of tests as an accountability mechanism appears to define the curriculum, oftentimes with substantial attention given to the form and format of the questions on the test(s). Regardless of the school's poverty level, a great deal of class time is devoted to reviewing and practicing for state
tests, increasing in intensity until testing is completed. However, a larger percentage of teachers in schools with the highest concentration of poverty appear to maintain a more consistent focus on test preparation throughout the school year than teachers in schools with lower poverty levels.
2. Teachers presume high-stakes decisions are associated with test results, and consequently align their instructional practices with state tests. One risk to this approach, which cannot be clearly determined from this study, is the deemphasis of non-tested materials. This may narrow the curriculum and result in practices that may counter effective instruction, teaching for student understanding, selfdirection and autonomy, and opportunities for interaction with other students.
3. Because of the potential narrowing of curriculum and the tremendous amount of time devoted to test preparation activities, the importance of ensuring the validity of a testing initiative's ability to serve as an accurate indicator of student achievement and learning is paramount.
Are schools producing individuals who are ready to live in and make contributions to the complex society of today or are they producing individuals who excel at taking a test? We need to heed an observation made by E.G.A. Holmes in the first part of the $20^{\text {th }}$ century in Britain:
...And in proportion as we tend to value the results of education for their measurableness, so we tend to undervalue and at last to ignore those results which are too intrinsically valuable to be measured. (Holmes, 1911, p. 128)
Unfortunately, in the minds of the teachers who responded to the survey, high test scores appear to have become a primary criterion against which an educational system's worth is judged. Students in poverty, who are most in need of developing high level skills which could prepare them for future careers, educational advancement, or opportunities needed to overcome the circumstances from which they come, are the most likely to be exposed to increased levels of test preparation activities.

While some will argue that the testing initiative's purpose is to ensure educational equity for all American students, regardless of economical circumstances, the reverse appears to be the reality. Based on this study, students from poverty are less likely to be exposed to challenging curricula and instructional methods. Results from this study would suggest that accountability through student testing is

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a vehicle to restrict educational opportunities from those who need opportunities most.

## Endnotes

${ }^{1}$ According to Krejcie and Morgan (1970), based on a population over 75,000 teachers, 382 returned surveys were needed for a representative sample.

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Appendix<br>Elementary Teacher Questionnaire State Testing Program

1. In what state do you teach? $\qquad$
2. Grade(s) you currently teach: $\begin{array}{llllllllll}\mathrm{K} & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8\end{array}$
3. Grade(s) you taught last year: $\begin{array}{llllllllll}\mathrm{K} & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8\end{array}$
4. Years you've been teaching (including this year): $\qquad$ years
5. Years you've been teaching at this school (including this year): $\qquad$ years
6. Content areas you are responsible for teaching:

- English / Language Arts
- Mathematics
- History / Social Studies
- Science
- Other: $\qquad$

7. Please indicate your estimate of your class's academic achievement/ability level.

| Much above <br> grade level | Somewhat above <br> grade level | At grade <br> level | Somewhat below <br> grade level | Much below <br> grade level |
| :---: | :---: | :---: | :---: | :---: |

8. Approximately what percentage of your current students:
a. qualify or receive free/reduced lunch: $\qquad$ \%
b. are limited- or non-English proficient: $\qquad$ \%
c. receive special education services: $\qquad$ \%
d. are considered gifted/academically talented: $\qquad$ \%
9. How would you characterize the emphasis on the outcomes of state-level tests in your school during the past year?
$\qquad$ extremely high $\qquad$ very high $\qquad$ moderate
$\qquad$ low $\qquad$ no emphasis
10. How has the emphasis on outcomes of state-level tests changed over the past 3 years?

- increased greatly
- increased slightly
- remained about the same
- decreased slightly
- decreased greatly

11. To what extent to you feel pressure from the following groups to improve your students' standardized test scores?

|  | Extremely <br> High | Very <br> High | Moderate | Little | No <br> Pressure |
| :--- | :---: | :---: | :---: | :---: | :---: |
| a. my principal | 5 | 4 | 3 | 2 | 1 |
| b.central office <br> administrators | 5 | 4 | 3 | 2 | 1 |
| c. other teachers |  |  |  |  |  |
| d. local school boardmembers <br> e. parents | 5 | 4 | 3 | 2 | 1 |
| f. local community including |  |  |  |  |  |
| the press/media | 5 | 4 | 3 | 2 | 1 |
| g. professional organizations | 5 | 5 | 4 | 3 | 2 |

12. Rank the order of the effectiveness of the following curriculum and instructional approaches for increasing student learning. (Assign a ranking of 1 to the most effective, 2 to the next effective, and so on. Please do not use the same ranking for any items.)

## RANK

___ Focusing clearly and consistently on the topics covered on the state test(s)
__ Using an interdisciplinary curriculum
Differentiating the curriculum (e.g. using tiered assignments, lessons targeted to student past achievements, accelerating pace of learning for some students)
__ Doing hands-on work
___ Using alternative (e.g., performance) assessments
___ Providing broad coverage across many areas of basic knowledge
Teaching which allows for in-depth exploration where one critical exemplar of a concept or principle can be understood as a basis to generalize to other exemplars.
13. How would you rank the order of the degree to which you balance the following curricula and instructional approaches as effective in increasing scores on state tests? (Assign a ranking of 1 to the most effective, 2 to the next effective, and so on. Please do not use the same ranking for any items.)

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___ Focusing clearly and consistently on the topics covered on the state test(s)
Using an interdisciplinary curriculum
Differentiating the curriculum (e.g. using tiered assignments, lessons targeted to student past achievements, accelerating pace of learning for some students)
__ Doing hands-on work
___ Using alternative (e.g., performance) assessments
Providing broad coverage across many areas of basic knowledge
Teaching which allows for in-depth exploration where one critical exemplar of a concept or principle can be understood as a basis to generalize to other exemplars.

For question 14 we would like you to consider each item TWICE. First, we ask you to RATE each item according to the scale noted. Second, we ask you to RANK the relative influence of each item. Assign a ranking of 1 to the most influential, 2 to the next most influential and so on. Please do not use the same ranking for any items.
14. To what extent do the following factors influence your instructional planning?

15. How frequently are the following practices used in your classroom AND to what extent have their frequency changed as a result of the state testing program? (DK = Don't Know)

```
                                    FREQUENCY
                                    CHANGE
                                    Often Sometimes Rarely Increased Same Decreased DK
    use of constructed
a. response items (short
    essays)
    b. use of multiple-choice
    items
    use of long term
    projects (e.g., research
c. or other projects
    requiring a week or
    more)
    use of performance type
d. items (e.g.,
    presentations, science
    experiments)
    test preparation (e.g.,
e. homework and
    classwork)
    making sure the content
    and skills covered on
f. the state test(s) are
    reviewed prior to the
    test(s) administration
    adjusting the
    curriculum sequence
g. based on the content
    coverage of the state
    test(s)
```

16. How much attention are you able to give to the following curricular areas in your classroom AND to what extent has this changed as a result of the state testing program? ( $\mathrm{DK}=$ Don't Know)

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## Often Sometimes Rarely Increased Same Decreased DK

```
    higher-order
a. thinking skills
problem-
    solving skills
    topics which
    are not
c. assessed on
    the state
    tests(s)
    the fine and
    performing
d. arts (e.g.
    music, art,
    drama)
    basic skills
    (e.g.,
e. computations,
    grammar,
    vocabulary)
f. factual
    knowledge
    enrichment or
    extension of
    the
    curriculum
g. according to
    student
    interest and/or
    ability to
    delve deeper
```

17. How much time do you spend in your classroom on the following test preparation activities...
... during the first $1 / 3$ of the year?

Regularly \begin{tabular}{c}
One <br>
month

 

One <br>
week

 

A few <br>
days

 

One <br>
day
\end{tabular} None

```
a. student worksheets
b. instruction for students on test-
    taking strategies
    review/practice using state-
    released test items
    student practice in the kinds of
d. item formats that are on the
    state test(s)
```

... during the second $1 / 3$ of the year?

```
Regularly \begin{array}{c}{\mathrm{ One One A few One None}}\\{\mathrm{ month week days day N}}\end{array}\mathbf{C}\mathrm{ (aym}
a. student worksheets
b. instruction for students on test-
    taking strategies
    review/practice using state-
c. released test items
    student practice in the kinds of
d. item formats that are on the
    state test(s)
```

... during the month prior to state testing?

|  | Regularly | One <br> week | A few <br> days | One <br> day | None |
| :--- | :--- | :---: | :---: | :---: | :---: |
| a. student worksheets |  |  |  |  |  |
| b.instruction for students on test- <br> taking strategies |  |  |  |  |  |
| c.review/practice using state-released <br> test items |  |  |  |  |  |
| d.student practice in the kinds of item <br> formats that are on the state test(s) |  |  |  |  |  |

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... during the period following state testing?


#### Abstract

Regularly $\begin{gathered}\text { One } \\ \text { month }\end{gathered} \begin{gathered}\text { One A few } \\ \text { week } \\ \text { days }\end{gathered} \begin{gathered}\text { One } \\ \text { day }\end{gathered}$ None a. student worksheets b. instruction for students on test- taking strategies review/practice using state- released test items student practice in the kinds of d. item formats that are on the state test(s)


18. How often during the year does your school administration engage in the following activities with teachers?

|  | Many <br> times | A few <br> times | Once |
| :--- | :--- | :--- | :--- | | Not at |
| :---: |
| all |

19. How much of the feedback or evaluation you receive as a teacher from administrators is related to the test performance of your students? (check only one)

- $100 \%$
- Three-quarters
- About half
- About one-quarter
- Practically none
- None at all
- I never receive feedback

20. How has your school's performance on the state test(s) changed over the last three years? (check only one)

- scores have increased
- scores have decreased
- scores have remained about the same (Go to question 22)
- some grade level scores have increased while others have decreased
- I don't know (Go to question 22)

21. If test scores have changed, how important are the following factors?

|  | Major <br> Factor | Moderate <br> Factor | Minor <br> Factor | No <br> Factor |
| :--- | :--- | :---: | :---: | :---: |
| a. Changes in school population |  |  |  |  |
| b. Alignment of instruction with |  |  |  |  |
| state test content |  |  |  |  |
| c. Attention to test-taking |  |  |  |  |
| strategies |  |  |  |  |
| d. Changes in instructional |  |  |  |  |
| e. Changes in assessment strategies |  |  |  |  |
| f. Changes in teacher effectiveness |  |  |  |  |
| g. Changes in school climate |  |  |  |  |
| h. Changes in funding support |  |  |  |  |

22. How have state test results affected your instruction? (check all that apply)

- I teach to the state test(s) more than I normally would.
- I omit certain information because there is not enough time to fit it in because of state test(s).
- I do not do certain things that look interesting or beneficial for students unless they are on the state tests.
- I do not do anything differently because of the state tests.

23. Read each item and indicate your degree of agreement with it.

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| Strongly <br> Agree | Neutral |
| :---: | :---: | | Strongly |
| :---: |
| Disagree |

a. State tests help clarify and specify learning goals
b. Learning outcomes measured by state test(s) are the most important ones to measure
c. Test results are an accurate picture of student learning
d. Many of the students I teach are not capable of learning the material on the state test(s)
e. State testing is helping schools improve My school is more interested in increasing
f. student test scores than in improving overall student learning

Teachers in my school feel there is discrepancy
g. between what they think should be taught and what the state tests emphasize
h. State tests give me important feedback about how well I am teaching the curricular area(s)
i. Students are treated as test-takers rather than
i. learners
j. Students are under too much pressure to increase test scores
k. Students see learning as a chore because of pressure from state testing programs

1. Students feel badly if they do not have high test scores

Teachers are under too much pressure to
m. increase test scores
24. What are the potential consequences to teachers whose students perform poorly on state test(s) in your school? (Check all that apply.)

- Potential loss of position as a teacher in this school or school district
- Reassignment of grade level or type of student taught
- Private reprimand

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- Pressure to change teaching strategies
- Other (please describe):
- No consequences

If you have any additional comments on the ways state testing is helping or hurting your instructional practices, please use the space below.

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[^0]:    *: A group mean differed significantly from D group mean at $p<$ . 05
    **: A and B group means differed significantly from D group mean at $p<.05$
    ***: A group mean differed significantly from C group mean at $p$ <. 05
    ***: A group mean differed significantly from $\mathrm{B}, \mathrm{C}, \& \mathrm{D}$ group means at $p<.05$
    Poverty Levels: A (0-5.9\%); B (6.0\%-15.9\%); C (16.0\%-29.9\%); D (30.0\% or greater)

