

Introduction to the Data

In response to Tennessee Code Annotated 49-5-108, the State Board of Education collaborated with the Governor's Office of State Planning and Policy to commission a study of teacher effect data, performed by SAS Institute, Inc.

The goals of the study were:

- to identify teacher training programs that tend to produce new teachers who are highly effective as well as to identify programs that tend to produce new teachers who are very ineffective.
- to determine if a teacher training program is above or below the reference distribution for each level of effectiveness with a fair and reliable statistical test.

This year's report allows programs to differentiate between the performance of traditionally licensed and alternatively licensed teachers (1 to 3 years experience) in comparison to three reference populations. The reference populations are as follows¹:

- the 2008- 2009 state distribution of teacher t-value of effects (grades 4 – 8).
- the 2008 – 2009 mean t-value effects of beginning teachers compared to the mean of the means for other Tennessee teacher training programs.
- the 2008 – 2009 mean t-value of teacher effect for beginning teachers compared to the mean of veteran teachers (i.e. teachers possessing more than 3 years experience).

The following institution report card is based on the following demarcations:

- **Green** indicates a ***statistically significant positive difference*** in relationship to the reference population or state distribution.
- **Red** indicates a ***statistically significant negative difference*** in relationship to the reference population or state distribution.

¹ The technical report for the study can be found on pages 16 – 27.

Tennessee State University: Teacher T-Value Effects (Grades 4 – 8)
One year estimates of T-value of teacher effects (2008 – 2009)

Percentage of Effective Teachers (1 to 3 Years Experience) based on the 2008-2009 State Distribution of Teacher T-Value of Effects

Traditionally Licensed Teachers (2002 - 2008)

Math (N=34)

% Below the 20 th Percentile	% Above the 80 th Percentile
23.5%	11.8%

Science (N=38)

% Below the 20 th Percentile	% Above the 80 th Percentile
15.8%	21.1%

Reading / Language Arts (N=37)

% Below the 20 th Percentile	% Above the 80 th Percentile
16.2%	18.9%

Social Studies (N=38)

% Below the 20 th Percentile	% Above the 80 th Percentile
34.2%	15.8%

Alternatively Licensed Teachers (2003 – 2009)

Math (N=6)

% Below the 20 th Percentile	% Above the 80 th Percentile
16.7%	50.0%

Science (N=4)

% Below the 20 th Percentile	% Above the 80 th Percentile
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Reading / Language Arts (N=15)

% Below the 20 th Percentile	% Above the 80 th Percentile
33.3%	6.7%

Social Studies (N=5)

% Below the 20 th Percentile	% Above the 80 th Percentile
40.0%	0.0%

Tennessee State University: Teacher T-Value Effects (Grades 4 – 8)
One year estimates of T-value of teacher effects (2008 – 2009)

Comparison of the 2008 – 2009 Mean T-Value of Teacher Effect Among Beginning Teachers as Compared to the Mean of Means for All Institutions

Key

- NSSD - No Statistically Significant Difference
- (-) – Statistically significant negative difference
- (+) – Statistically significant positive difference

Traditionally Licensed Teachers: Mean T-Value

Math

(-)	NSSD	(+)
	-0.3150	

Science

(-)	NSSD	(+)
	0.3043	

Reading / Language Arts

(-)	NSSD	(+)
	0.2031	

Social Studies

(-)	NSSD	(+)
-0.5620		

Alternatively Licensed Teachers: Mean T-Value

Math

(-)	NSSD	(+)
	0.6173	

Science

(-)	NSSD	(+)
	-	

Reading / Language Arts

(-)	NSSD	(+)
	-0.2072	

Social Studies

(-)	NSSD	(+)
	-1.0621	

Tennessee State University: Teacher T-Value Effects (Grades 4 – 8)
One year estimates of T-value of teacher effects (2008 – 2009)

Comparison of the 2008 – 2009 Mean T-Value of Teacher Effect for Beginning Teachers as Compared to the Mean of Veteran Teachers from the Statewide Distribution of 2008- 2009 Teacher Value-Added Data

Key

- NSSD - No Statistically Significant Difference
- (-) – Statistically significant negative difference
- (+) – Statistically significant positive difference

Traditionally Licensed Teachers: Mean T-Value

Math

(-)	NSSD	(+)
-0.6144		

Science

(-)	NSSD	(+)
	0.1879	

Reading / Language Arts

(-)	NSSD	(+)
	0.0925	

Social Studies

(-)	NSSD	(+)
-0.6753		

Alternatively Licensed Teachers: Mean T-Value

Math

(-)	NSSD	(+)
	0.7941	

Science

(-)	NSSD	(+)
	-	

Reading / Language Arts

(-)	NSSD	(+)
	-0.3576	

Social Studies

(-)	NSSD	(+)
	-1.4985	

Tennessee State University: Placement & Retention

2002 – 03 Completers in the Personnel Information Reporting System (PIRS)				
% of state total	Year 1	3 consecutive years	2 out of 3 Years	4 out of 5 years
3.8%	65.0%	56.9%	71.5%	73.7%

2003 – 04 Completers in the Personnel Information Reporting System (PIRS)				
% of state total	Year 1	3 consecutive years	2 out of 3 Years	4 out of 5 years
3.3%	69.2%	70.9%	77.8%	79.5%