Teacher Pay & Student Achievement Does the salary schedule correlate to MAP Achievement? Dr. Jared Terry Spokane R-7 School District Lindenwood University	
•	
Teacher Quality Teacher - #1 factor in student achievement Marzano (2007), Wong (2009), Reeves (2009), Harris & Sass (2009) What Characteristics = quality teacher?	
Teacher Experience	
Advanced Degrees	

Salary Schedule | Solution | Sol

Salary Schedule

- \bullet Salaries and Benefits 80% of Budget
- · "Master's Bump"
 - · National Average Salary 2011 (NCES)
 - · Bachelor's \$43,650
 - · Master's \$54,810
 - · Missouri
 - Average Salary Increase \$4283
 - \$150 Million statewide

Roza & Miller, 2009

Other Policies

- NCLB Highly Qualified Requirements • HOUSSE
- Tenure
- · LIFO
- · Hiring Practices

The Study

- Why?
 Experience & Advanced Degrees
- · Who?
- SWMO School Districts w/ ADA < 600
 3rd & 5th Grade
 Sample 23 Districts, 65 Teachers

- · How?
- Teacher Demographics
 MAP Scale Score
 Correlational & Regression Analysis

District Demographics

- * District Enrollment 327.78
- * District Staff 41.26
- * Elementary Enrollment -190.39
- * Elementary Staff 22,00
- $^{\bullet}$ % of teachers with Master's Degrees 46%
- Experience
 0-6 years: 43%
 7-15 years: 42%
 16 + years: 15%

Pearson r Correlation

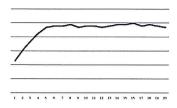
	Teaching Experience	Advanced Degreed Completion	
3 rd Grade			
Communication Arts	-0.03	0.09	
Math	0.13	0.15	
5th Grade			
Communication Arts	0.21	0.10	
Math	0.19	0.06	

No statistically significant relationship between the variables.

Findings Analysis showed no significant relationship Previous Research	Multiple Regression Analysis	
Comm. Arts 0.0301 Start Crank Comm. Arts 0.0442 Manth 0.0373 The Variables explained less than 5% of the variation in test scores Findings - Analysis showed no significant relationship		
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Previous	Findings	
	• Analysis showed no significant relationship	
Research		
	Research	

Experience & Student Achievement Correlation

- · Improvement is shown up to year 5
- · After year 5 it levels off



Experience & Student Achievement

2 areas showed continued correlation

- Kindergarten (Chetty et al., 2011)
- 3-8 Math (Ost, 2009)

One study suggests a continued correlation between experience and student achievement well into a teacher's career

(Papay & Kraft, 2011)

Advanced Degrees & Student Achievement

Advanced degree has no effect

Hanushek & Rivkin, 2012; Clotfelter, Ladd, & Vigdor, 2007; Dobbie & Fryer Jr., 2011; Harris & Sass, 2009.

• Earning a master's degree after beginning teaching are less effective

Clotfelter, Ladd, & Vigdor, 2007

• Districts with a majority of teachers with advanced degrees have lower test scores

Dobbie & Fryer, Jr., 2011

Implications

- What does this mean for school policies..
- · Salary schedule?
- · Tenure?
- · LIFO?
- · Hiring?
- Teacher Education Programs
- $\bullet \ Professional \ Development \\$

Current Salary Schedule

- Base Salary higher base
- Advanced degree increase options
- Must be aligned w/instruction and subject area
 Admin degrees do not count
- School district & higher ed. partnerships
- National Board Certified

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Front Loaded Schedule Larger increases in the earlier years of salary schedule · Provides incentive for teachers to stay in teaching • Teachers earn 8-20% more over career **Market Based Schedules** ${\boldsymbol{\cdot}}$ Higher salary or stipends for tougher to fill positions • Douglas County, CO • Putnam County, TN - PASS Program • Georgia Math & Science Teacher Bonus Provision

Other Policies

Teacher TenureStaff Reduction Policies

Moving Forward..

Learning how to..

- ${\boldsymbol{\cdot}}$ Determine characteristics of better teachers
- · Attract higher quality teaching candidates
- · Identify & keep higher quality teachers
- · Compensate those quality teachers

Teacher - #1 factor in student achievement

-Marzano (2007), Wong (2009), Reeves (2009), Harris & Sass (2009)

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