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WHEN EVIDENCE IS NOT ENOUGH:
FINDINGS FROM A RANDOMIZED EVALUATION OF
EVIDENCE-BASED LITERACY INSTRUCTION (EBLI)

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When Evidence is Not Enough: Findings from a Randomized Evaluation of Evidence-Based Literacy Instruction (EBLI)

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ABSTRACT

This paper reports the results of an experimental evaluation of Evidence Based Literacy Instruction (EBLI). Developed over 15 years ago, EBLI aims to provide teachers with instructional strategies to improve reading accuracy, fluency and comprehension. Sixty-three teachers in grades 2-5 in seven Michigan charter schools were randomly assigned within school-grade blocks to receive EBLI training or a business-as-usual control condition. Comparing students in treatment and control classrooms during the 2014-15 school year, we find no significant impact on reading performance. Teacher survey responses and interviews with program staff suggest that several implementation challenges may have played a role in the null findings.

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Introduction

Reading is arguably the single most important skill that students learn in elementary school. Students who become competent and confident readers are well poised to develop in other areas, not to mention being able to enjoy the myriad other benefits of reading. Recognizing the importance of early literacy, dozens of states have adopted policies to ensure that students master basic reading skills by third or fourth grade (Workman, 2014).

Yet, most elementary school children in the United States have, at best, a weak grasp of basic reading skills. According to the 2013 National Assessment of Educational Progress (NAEP) reading assessment, only 34 percent of fourth graders in the country were proficient readers. Among economically disadvantaged students, the rate was only 20 percent. Indeed, only half of economically disadvantaged fourth graders (51 percent) scored at the “Basic” level on the NAEP reading assessment, with many falling into the “Below Basic” category.

Despite a tremendous amount of basic research on reading, only a modest number of actual programs have been found to improve student performance based on rigorous evaluation (Slavin et al., 2009). More generally, reading has proved less malleable than math in the face of popular policy interventions. While reforms such as charter schools and test-based accountability have been found to improve math scores, they often have little or no impact on reading scores. In a comprehensive synthesis of prior research, Slavin et al. (2009) argue that programs aimed at changing daily teaching practices show the most promise to improve student reading.

This paper reports the results of an experimental evaluation of just such a program, Evidence Based Literacy Instruction (EBLI). Developed in Michigan over 15 years ago, this program aims to provide teachers with several instructional strategies to improve reading accuracy, fluency and comprehension. In summer 2014, 63 teachers in grades 2-5 in seven

Michigan charter schools were randomly assigned within school-grade blocks to receive EBLI training either during the summer or the following year. While treatment teachers generally expressed satisfaction with the program and reported utilizing some of the targeted strategies more often than control teachers, there was no significant difference between reading performance across the treatment and control classrooms. Teacher survey responses and qualitative evidence suggest that several implementation challenges may have played a role in the null findings.

The paper proceeds as follows. In section 2, I review the prior literature. In section 3, I provide background on EBLI. Sections 4 and 5 present the methodology and results. Section 6 concludes.

Prior Literature

Given the importance of reading in elementary instruction in the United States, educators have attempted a host of interventions to improve student performance, from whole-school reform to 1-on-1 tutoring. Slavin et al. (2009) provide a comprehensive overview of the research evidence on interventions aimed at improving reading ability among elementary school children. The authors distinguish between four types of interventions: reading curricula, instructional technologies, instructional process programs, and combinations of instructional and curricula processes. Their analysis is particularly valuable as context to the current study in that it focuses on evaluations of actual programs available to teachers and schools, rather than discussing findings from basic research on how children learn to read.

In total, the authors review 63 beginning reading (grades K-1) and 79 upper elementary (grades 2-5) reading studies, which meet various criteria to ensure that the studies can provide at

least moderately rigorous evidence on effectiveness. Not surprisingly, they find a wide range of results, including some individual programs that appear to be effective and many that do not. More generally, they find stronger evidence to support interventions designed to change daily teaching practice, rather than programs that simply provide a new curriculum or engage students in technology-aided instruction. Indeed, they find that programs that rely on curricular materials or instructional technology alone typically have very little, if any, impact on student learning. Conversely, they find that programs that incorporate multiple components – including professional development aimed at improving teaching practices along with curricular materials and other supports – are most effective at improving reading performance. Two of the largest and most widely studied such programs are *Success for All* and *Direct Instruction*.

Unfortunately, none of the phonics-oriented professional development programs for beginning readers and only one such program for upper elementary students was evaluated with a random assignment design. However, the single randomized control trial of phonics-oriented professional development was a large, well-designed study conducted by the American Institutes of Research and MDRC that included 90 schools and 5,530 students in six urban districts across the country (Garet et al., 2008). While the researchers found some positive impacts on teacher knowledge of scientifically-based reading instruction and on some teacher instructional practices, they found no significant impact on student reading test scores at the end of the one-year intervention, or at the end of the next school year. Researchers found similar results when evaluating Reading First, a \$1 billion per year federal initiative to improve early elementary reading largely by providing teachers with intensive, targeted professional development that emphasized scientifically-based reading practices, especially those designed to enhance phonemic awareness. Evaluations found that while teachers in Reading First schools spent more

time teaching reading and focused more on phonics and were more likely to know about scientifically-based strategies (Moss et al., 2008), there was little evidence that their students performed better than comparison students (Gamse et al., 2008).

Background

Developed in 2003, EBLI comprises several instructional strategies to improve reading accuracy, fluency and comprehension. EBLI targets teachers and reading specialists at any grade level (K-12) and instructs them on how to implement its literacy strategies in whole class, small group or one-on-one sessions. Since first developing the system, EBLI has trained thousands of teachers across the country and has reached tens of thousands of students. Over 260 schools, mainly located in Michigan, have implemented the EBLI system.

At its core, EBLI is a phonics-based reading program. The program's theory of change states that mastered reading accuracy has subsequent beneficial effects on students' reading fluency and comprehension. The emphasis on improving reading accuracy differentiates EBLI from other whole language/balanced literacy systems that focus first on fluency and speed by encouraging word guessing when students are unsure about the correct pronunciation.

To achieve reading accuracy, EBLI uses awareness of sounds (phonetic awareness) and the different ways the same sound can be spelled. The program emphasizes several key concepts. The first concept ("1, 2, 3 or 4 Letters Can Represent a Sound") highlights the fact that individual sounds in the English language may be comprised of anywhere from one to four letters. For instance, the sound "u" in up is made of one letter – u. The sound "e" in tea is made of two letters – ea. The sound "ur" sound in earn is made of three letters – ear. And, finally, the "ay" sound in weigh is made of four letters – eigh. The second concept ("Same Sound / Different

Spelling”) captures the idea that same sound can be spelled with many different combinations of letters. For example, the “ee” sound in feet is spelled with ee; the “ee” sound in treat is spelled with ea; the “ee” sound in brief is spelled with ie. The third concept (“Same Spelling / Different Sound”) is the converse – namely, in the English language the same spelling may create different sounds in words. For instance, the spelling “ea” sounds like the following sounds in different words: sounds like “ee” in beast, “a” in break, and “e” in head.

EBLI teachers also learn how to teach students phonemic awareness skills such as segmenting, blending and phoneme manipulation within the context of single and multi-syllable words as opposed to in isolation. In segmenting, teachers break words into individual syllables and further into sounds within syllables. For example, “brother” is separated into two syllables – bro / ther and each of these syllables is broken into sounds – b r o / th er. This separation helps to reinforce correct spelling. In blending, instruction focuses on pushing individual sounds together to create a word. For the segmented “brother”, the sounds are blended back together to form the full word and reinforce correct pronunciation. Phoneme manipulation activities help reinforce word comprehension and spelling by removing letters from the words and reviewing what remains. For instance, focusing on the word “spot”, the instructor will first ask how many sounds are in the word spot, then will ask what “spot” is without the /s/, what “spot” is without the /p/. The student may segment the individual sounds or may say “pot” or “sot”. Then the instructor repeats the exercise, using dots in the place of letters. Using dots in place of letters forces the student to listen to individual sounds.

According to its developers, EBLI differs in several important ways from other popular phonics-based reading programs such as Orton-Gillingham, Open Court, Saxon Phonics, Wilson, and Lexia (software). First, EBLI is a system of logic rather than a set of phonics rules,

exceptions and drills. Second, EBLI developers argue that typical phonics programs focus more heavily on drill and worksheets with less focus on reading in books. Third, EBLI trains teachers to be diagnostic and prescriptive when delivering instruction as opposed to training them to simply deliver pre-fabricated materials to students. For example, the EBLI system of instruction includes guidance for teachers on how to provide error corrections in the moment. Finally, EBLI instruction is multi-sensory, with students saying, seeing, hearing and writing in the course of EBLI activities.

During a three-day in-person training, program staff introduce teachers to the EBLI philosophy and teach them specific strategies and instructional techniques. Trainees practice the three concepts described above in isolation, and then pull them together with EBLI's multi-syllable strategy of segmenting, blending, and phoneme manipulation. Teachers learn how to diagnose student reading difficulties and strategically insert some of the EBLI strategies above to help students overcome their challenges. Teachers also receive ideas about how to individualize instruction within whole class settings. EBLI discourages word guessing and incorrect spelling through several instructional techniques, including introduction of difficult words, immediate error correction, student self-correction, reading varied and challenging text, and checking for comprehension. During the training, teachers have the opportunity to practice each of the EBLI techniques to become familiar with the system and receive direct feedback in a training environment. At the conclusion of the three-day session, trainees are provided with materials required to teach the EBLI system.¹ Following this initial training, educators are supported with

¹ Materials include: training binder with 15 lesson plans, additional centers and/or practice activities, stories with vocabulary to pre-teach, supplemental resources, and directions on infusing EBLI into content area curriculum; Chicken Soup book; 30 EBLI dry-erase markers; EBLI poster; 12 x 18 inch whiteboard and small eraser. Not included in the materials, but necessary for implementation, are 12 x 18 whiteboards and erasers for each student, as well as replacement markers. Trainees also receive a lifetime subscription to the EBLI Online Member's Area, with videos, lessons and other EBLI-related resources.

online consultation resources, as well as three on-site instructional visits to clarify questions about the implementation of EBLI in the classroom.

The Setting

Grand Valley State University (GVSU) is one of the largest charter authorizers in the state of Michigan, overseeing 71 school buildings that serve over 34,000 students. Unlike many charter authorizers, GVSU plays an active role in the operations of its schools, providing instructional support to its teachers in a variety of areas. GVSU has worked with EBLI since 2012, during which time 402 teachers in 39 GVSU schools have received EBLI training outside of the context of this study. In fall 2013, GVSU and EBLI expressed an interest in formally evaluating the literacy intervention.

Teachers selected for the study (see below for more detail) attended the standard three-day EBLI training in late August or early September of 2014. Teachers received the standard trainee materials in order to implement the program in their own classrooms and also had access to a variety of online resources including hundreds of videos of master teachers modeling various lessons and additional content organized by activity, grade level and instructional setting.

During the course of the school year, EBLI trainers visited each treatment teacher's classroom three times. During the first visit, the EBLI coach taught an EBLI lesson to the class while the teacher observed and took notes. The lesson taught was determined jointly by the teacher and EBLI coach to best meet the needs of the teacher. During the second visit, the EBLI coach typically taught alongside the teacher (e.g., modeling an activity and having the teacher take over to teach it) and/or observed the teacher doing an EBLI lesson. After the lesson, the EBLI coach provided the teacher with feedback to help her (him) to refine her (his) practice. In the third and any subsequent visit, the EBLI trainer typically observed the teacher teach a lesson

and then provided the teacher feedback. It was also common for the trainer to model specific lesson(s) requested by the teacher and discuss the progress of individual children with the teacher.

Methodology

The evaluation was designed as a clustered randomized trial in which classrooms were randomly assigned to treatment or control status within school-grade blocks.² In consultation with the program developers and school personnel, the research team determined that the likelihood of substantial spillovers across teachers within the same grade was unlikely because (a) the value of the intervention comes through participating in the training and 1-on-1 coaching rather than through the provision of specific curricular materials, and (b) there was little if any formal interaction between teachers at the same grade level (such as common planning time) in these schools.³ Moreover, control teachers (and their administrators) were told that they would receive training the next summer. As a further check, when possible we compared the fall to spring reading growth in the intervention year (2014-15) to the growth for the same teachers in the prior year (2013-14) and found no evidence of a change in performance across years for control teachers.

The program developer and research team decided to focus on teachers in grades 2-5 for several reasons. First, while the intervention has been used with older students, it is most commonly used with beginning readers in early elementary grades. Second, several of the kindergarten and first grade teachers at the target schools had been trained in EBLI before, but none of the teachers in grades 2-5 in these schools had received training. Third, the target schools

² Co-teachers and teacher aides were not trained, although the teacher who received training may have shared information with him or her.

³ Of course, we recognize that there were undoubtedly informal interactions.

each administered standardized reading exams to students in grades 2-5, which allowed us to gather outcome data without administering additional assessments.

Seven schools agreed to participate in the study.⁴ Table 1 provides statistics to help compare the study schools to other elementary schools in the state. Compared with the other elementary schools supervised by GVSU, the study schools have fewer African-American students and fewer students eligible for subsidized meals. Achievement levels at the study schools are also somewhat higher than other GVSU schools. For example, 58.7 (34.2) percent of students in study schools achieved proficiency in reading (math), compared with 53.5 (32.1) percent in other GVSU schools. Compared with the local traditional public schools, the study charter schools perform even better. For example, only 45.9 (20.7) percent of students in the local public schools scored proficient in reading (math).⁵

We excluded four honors classes in one school from the study because students were not randomly assigned to the teacher and there were not a sufficient number of such classes to form a separate block. In another school, there was only a single ELA teacher per grade for grades 3-5, so random assignment was not possible in these grades.

One teacher within each of the 22 school-grade blocks was randomly assigned to receive EBLI training. With the exception of the honors classes mentioned above, the study schools did not explicitly track students into particular classes. School leaders indicated that they assigned students to classes in a semi-random manner, but with the explicit intention of balancing the size and gender distribution across classes within the same grade. Occasionally they also considered

⁴ These were the only schools contacted. There were no schools that were contacted but refused to participate.

⁵ In order to identify the traditional public school associated with a particular study school, we matched each charter school to the traditional public school students would most likely attend had they not enrolled in the charter school. Since we did not have students' assigned neighborhood schools, we used students' assigned school districts, residential zip codes, and grade levels to identify the most likely neighborhood schools. We then selected the school that appeared most often (i.e., the modal school) as the matched public school for that charter school. In cases where charter schools spanned more than one school level (e.g., a K-8 charter school), we matched to multiple public schools to cover all the grades (e.g., a separate elementary and middle traditional public school).

other factors (e.g., a desire to separate or maintain sibling pairs, specific personality matches between students, etc.) in determining class assignments.

Importantly, randomization occurred in summer 2014, *after* class rosters had been determined. Students who enrolled in the school after this time (late summer or during the following academic year) are typically assigned to classes based on enrollment in an effort to maintain balanced class sizes. Of course, it is possible that administrators may have assigned new students to teachers in part with an eye to which students would benefit most from the intervention. We explore this possibility more below.

We dropped two blocks (which included 4 teachers) after the randomization. In one case, the treatment teacher left the school in September for personal reasons and her replacement was not trained. In another case, the treatment classroom ended up with twice as many students as the control classroom. School leaders decided to provide a second teacher to the larger class rather than opening a third class at that grade level. While the student-teacher ratio was thus the same across treatment and control classes in that block, we felt that the experience for students might have been quite different. Finally, we dropped a fifth classroom in which the teacher, who had received training, left the school in early September for personal reasons. In this case, we randomly assigned one of the two remaining control teachers to receive training in mid-September, and were thus able to keep the block in the study. In total, we were left with a total of 63 classes, 22 treatment and 41 control. The results presented below are based on this sample. However, all of the results we present are robust to the inclusion of these five excluded classrooms described above.

Data

The participating schools and GVSU provided the data for the study, including demographics and student achievement measures for all students in treatment as well as control classes. Our primary outcomes are standardized reading and math scores from the Measures of Academic Progress (MAP). Developed by the Northwest Education Association (NWEA), MAP are computer adaptive assessments that the study schools administered three times per year, in September, January and May. In reading, the assessment uses multiple choice questions to evaluate a student's facility with word meaning, literacy comprehension, interpretive comprehension and evaluative comprehension. For mathematics, the MAP examines a student's skills using multiple choice items in the seven domains of number/numeration systems, operations/computation, equations/numerals, geometry, measurement, problem solving, statistics/probability and applications (Wang et al 2013).

The MAP is intended to provide teachers diagnostic information to help them tailor instruction for individual students. The tests are highly predictive of a student's performance on state tests. Student achievement measures are reported in terms of Rasch Units (RITs), an equal interval scale that is design to allow one to measure year to year achievement growth (NWEA 2011). Like other measures based on item response theory, RITs assume a unidimensional latent ability that can be estimated based on student performance on the administered test items.

Covariate Balance

Table 2 presents summary statistics on baseline characteristics for the study sample. Columns 1 and 2 show mean values of each variable for the treatment and control classes respectively. To examine covariate balance, we estimate the following OLS regression:

$$(0.1) \quad y_{ijk} = \beta_0 + \beta_1 treatment + \gamma_{jk} + \varepsilon_{ijk}$$

where y_{ijk} is a student or classroom baseline characteristic for student i , in class j , within school k . The binary variable treatment equals 1 if the teacher in classroom j received EBLI training. The term γ_{jk} indicates fixed effects for each randomization block. Standard errors are clustered by classroom.

As expected, treatment and control classes are well balanced on all student demographics and most of the prior achievement scores.⁶ One disturbing exception is that students in treatment classrooms scored roughly 2.4 points (0.07 standard deviations) lower than their counterparts in control classrooms on the fall 2014 MAP reading test. This is surprising given that the difference in the Spring 2014 reading score and Fall 2014 math scores are only one-third this size and not significantly different than zero.⁷

To test whether the observed differences between treatment and control students are significantly different than one might expect by chance, we conduct a permutation test that accounts not only for the clustering of students within classrooms, but also the correlation among the various student characteristics. Specifically, in each of 1,000 permutations, we randomly assign one classroom per block to the treatment condition, and then estimate a Seemingly Unrelated Regression (SUR) that allows for correlations across the error term in each of the outcome regressions. For each permutation, we then conduct a test of whether the coefficient on the treatment indicator is jointly zero across all of the outcomes. We save the test statistic and p-value for each permutation. Finally, we conduct the same estimation based on the actual random

⁶ It is worth noting that a small number of students in several schools received 1-on-1 tutoring from EBLI trained Title I teachers. However, as shown in the table, only 3 percent of students received this type of intervention and the fraction was identical across treatment and control classrooms within block.

⁷ If one focuses only on students with spring 2014 reading scores, there is still a significant difference across treatment and control classrooms in fall 2014 reading scores, suggesting it is not merely a composition difference that explains the fall 2014 reading score difference.

assignment in the study, and determine where the test statistic from the randomization falls in the distribution of test statistics from these 1,000 permutations.

We find that the test statistic from the actual randomization falls at the 72nd percentile of test statistics generated in our permutations, which implies a p-value of 0.28. This suggests that the distribution of covariates across treatment and control classes that we find is not significantly different than what one would expect to find by chance. However, given the potential importance of the fall reading score, we adopt several estimation strategies to test the sensitivity of our results.

Estimation

In theory, the successful randomization implies that we should be able to simply compare the mean outcomes across treatment and control groups (within blocks) to determine the impact of the program. We show these results below. In addition, in order to account for the few differences we do see (most importantly the fall 2014 reading score), we also estimate OLS models, such as the following, that control for a rich set of controls for student background characteristics:

$$(0.2) \quad reading_{ijk} = \beta_0 + \beta_1 treatment + \sum X_{ij} + \gamma_{jk} + \varepsilon_{ijk}$$

where reading is the spring 2015 MAP reading score, and X is a vector of student and classroom characteristics. To facilitate interpretation, we standardize all test score measures using the mean and standard deviation of the control classrooms. We control for all of the variables shown in Table 2, as well as a variable indicating the date on which students in a particular class took the spring 2015 exam. For students with missing spring 2014 test scores, we set the score to zero and include a missing variable indicator. We allow all variables to vary by grade. To account for heteroscedasticity, we present robust standard errors that are clustered by classroom.

Finally, we take advantage of the fact that we have fall and spring scores in math as well as reading to further control for any remaining differences between treatment and control students. Conceptually, we calculate what might be described as a difference-in-difference estimate:

$$(0.3) \quad DD = \left(\bar{y}_{treat}^{read, spring} - \bar{y}_{control}^{read, spring} \right) - \left(\bar{y}_{treat}^{math, spring} - \bar{y}_{control}^{math, spring} \right)$$

Or controlling for fall scores, we could calculate:

$$(0.4) \quad DDD = \left(\bar{y}_{treat}^{read, spring} - \bar{y}_{treat}^{read, fall} \right) - \left(\bar{y}_{control}^{read, spring} - \bar{y}_{control}^{read, fall} \right) - \left[\left(\bar{y}_{treat}^{math, spring} - \bar{y}_{treat}^{math, fall} \right) - \left(\bar{y}_{control}^{math, spring} - \bar{y}_{control}^{math, fall} \right) \right]$$

In practice, we estimate a more flexible version of the triple difference above that includes other covariates and allows the effect of these covariates to differ by subject. We expand the data so that we have two observations per student, with one capturing the child's reading score and the other reflecting the child's math score, and estimate the following OLS regression model.

$$(0.5) \quad score_{ijk} = \beta_0 + \beta_1 treatment + \beta_2 reading + \beta_3 treatmentXreading + \sum X_{ij} + \gamma_{jk} + \varepsilon_{ijk}$$

where *reading* is a binary variable that equals 1 if the outcome is a reading score and 0 if the outcome is a math score, *treatmentXreading* is an interaction term, and the covariate vector *X* is allowed to have separate effects for math and reading outcomes. If one is concerned about the result of the initial random assignment, the estimate of the interaction term, β_3 , provides an additional robustness check. The only remaining concern would be the existence of unobservable student factors that are correlated with treatment assignment and influence the *growth* of reading scores *differently* than the growth of math scores, conditional on the other covariates included in the model. In fact, to the extent that the intervention led teachers to shift class time and/or their

energy from math to reading, β_3 might be biased upward. Hence, we believe it should be interpreted as an upper bound on the treatment effect of the intervention on reading achievement.

Results

Table 3 presents the main results of the experiment. Each column reports the results from a separate regression. The estimates in columns 1 and 2 document that there was no treatment-control difference in the fraction of students taking the spring reading exam. Column 3 shows that, when one simply controls for block fixed effects, treatment classes score roughly 0.14 standard deviations below control classes. However, once we control for student demographics and prior test scores in column 4, the estimate drops more than 75 percent and is no longer significant at conventional levels.

These estimates suggest that the intervention had no significant effect on student performance. However, one might still be concerned about the modest baseline difference in reading (though not math) scores. For this reason, we utilize student math performance across classrooms as a robustness test. In columns 5-6, we show estimates from equation (0.5), which compares student growth in reading relative to math in treatment versus control classrooms. The point estimates on the treatment x reading interaction are positive, but small and statistically insignificant. As noted above, these estimates should be interpreted as upper bounds on the treatment effect because treatment teachers may have shifted effort across subjects. Based on these set of results, we are able to rule out even small impacts. Using the estimate shown in column 4, we can reject that the intervention improved reading scores on average by more than 0.03 standard deviations. Columns 7-8 show results for the winter 2015 reading exam. Students in treatment classrooms were slightly more likely to take this exam relative to students in control

classrooms (column 7), but the point estimate of the intervention impact is virtually identical to the estimate for the spring scores (column 8).

While the intervention had no effect on average, it is possible that it might have impacted students differently. To explore this possibility, Table 4 shows estimates for several common subgroups. It appears that the intervention actually reduced reading performance for male students and non-black (predominantly Caucasian) students. The sex and race differences are statistically significant with p-values of 0.03 and 0.04 respectively. There is some evidence that the intervention was least effective for non-black and male students. Figure 1 shows point estimates and 95% confidence intervals for the effect of the intervention in each of the seven participating schools, arranged from left to right by the number of observations in the analysis sample in the school.⁸ There is suggestive evidence that the intervention was effective in school 5, although we cannot reject that the individual school effects are statistically different than each other at conventional levels.

Effects on teacher attitudes and behaviors

The results above suggest that the intervention had no impact on student reading achievement overall. As in any situation in which a program is newly implemented, such null effects might be the result of many factors. It might be the case that the treatment group did not implement the intervention properly, the control group received some alternative intervention, or that the intervention was implemented but simply did not influence student performance. Using a survey administered to all study teachers in spring 2015 along with observations recorded by the

⁸ Because of problems with multicollinearity, the following controls are excluded from these specifications: class sizes, team teaching, changing teacher. In addition, because of the small number of clusters, we estimate these specifications with a mixed model which includes block fixed effects and random effects for classrooms, but does not cluster the standard errors by classroom.

EBLI trainer after school visits throughout the year, we attempt to explore what factors may have contributed to the lack of any achievement effects.

The researchers administered a survey to all study teachers in spring 2015 to measure a host of attitudes and behaviors associated with reading instruction. In addition to asking treatment teachers to report on various aspects of the intervention, the survey asked both treatment and control teachers to describe how confident they felt in their ability in various aspects of teaching reading. In addition, teachers were asked to describe how often they utilized different types of materials and how often they engaged in a variety of “best practice” reading instructional techniques. These aspects of the survey were adapted from teacher surveys used in the Reading First Implementation Evaluation (Moss et al., 2006), which were intended to measure teacher knowledge and use of evidence-based practices. A complete version of the survey can be found in Appendix A. Overall, the response rate was 81.5 percent, with 90.9 percent of treatment teachers responding and 76.7 percent of control teachers responding.

Table 5 provides information on how much treatment teachers reported using EBLI resources and how satisfied they were with the training. The results are positive, but not particularly strong. Only 55 percent of teachers indicated they were satisfied or very satisfied with the EBLI program, although 75 percent indicated that they would recommend it to a colleague. While all teachers reported that the web-based resources were easy to access and 80 percent stated they had received all necessary materials to implement the program, only 65 percent agreed that EBLI had positively impacted his or her students’ ability to read. Usage of the online resources was somewhat lower than the program developers recommend, although it is possible that teacher usage may have declined over the school year as teachers became more comfortable with the program.

Table 6 looks at how the type and amount of professional development differed across treatment and control teachers, as well as their self-reported level of understanding about teaching reading. Columns 1 and 2 report the mean survey responses among control and treatment teachers respectively. Columns 3 and 4 report the estimated difference between treatment and control teachers based from an OLS model that controls for block fixed effects and reports heteroscedasticity-robust p-values.

While 80 percent of treatment teachers reported receiving some professional development in reading, so did 53 percent of control teachers. If teachers interpreted this question to include the EBLI training, 100 percent of treatment teachers should have reported receiving professional development. Hence, we suspect that some teachers interpreted this question differently. Overall, treatment teachers report participating in roughly 35 hours of professional development in reading compared with only 11 hours for control teachers. Despite this additional professional development, there are few differences between treatment and control teachers in terms of how well prepared they feel in various aspects of teaching. Virtually all teachers in both treatment and control groups indicated that they had a good understanding of how children acquire language skills and how to assess the progress of students in reading. Similarly, treatment and control teachers were equally likely to feel prepared to diagnose the challenges faced by struggling readers and bring these students to grade level.

The one exception is that treatment teachers were significantly more likely to report feeling prepared to teach phonemic awareness. They were also substantially more likely to report being comfortable teaching decoding, although the difference was not statistically significant. Consistent with these results, there were few differences between treatment and control teachers

in the frequency with which they received various types of support in teaching reading, such as mentoring by a reading coach or help diagnosing children for disabilities.

Table 7 looks at how instructional practices differed across treatment and control teachers. We create composite measures of a teacher's engagement in evidence-based practices in four areas: reading text, working with sounds and words, use of reading materials and writing activities. In each case, the measure reflects the fraction of practices that the teacher reports doing at least weekly. For example, the 0.772 for control teachers in reading text means that in the area of reading text control teachers reported doing 77 percent of evidence-based practices at least 2-4 times per week. For more detail on the construction of these measures, see Appendix B.

Across all four measures, we see small and statistically insignificant differences between treatment and control teachers. In addition to practices commonly endorsed by the literacy community and included in prior research, we also asked teachers about specific strategies or activities that EBLI either explicitly encourages or discourages. The result in rows 5 and 6 suggest that while EBLI-trained teachers were no more likely to engage in the encouraged activities, they were considerably *less* likely to engage in the *discouraged* practices. In summary, the results in Table 7 suggest that the intervention did not have an important impact on teachers' instructional practices, although it may have discouraged them from engaging in a few particular types of activities.

Heterogeneity by implementation quality

A common explanation for null results involves implementation challenges. Unfortunately, it is typically difficult to explore such issues for at least two reasons: (1) it is often hard to construct a measure of implementation quality; and (2) implementation quality – even if

measured – is not randomly assigned and thus one must hesitate in making causal inferences with regard to this dimension of practice.

We face both challenges in this case, but we attempt to provide at least descriptive information on implementation by using the notes taken by EBLI trainers when they visited teacher classrooms throughout the year. After each visit, the trainer wrote a short assessment of how well the teacher was using the EBLI protocols. Her assessment was based on discussions with the teacher and observations of the class. The research team read through these assessments and assigned a score from 1 (low) to 3 (high) for each visit. We averaged scores across all three visits to come up with a final measure of implementation quality.⁹ It is worth emphasizing that the trainer’s notes, and thus the measures constructed from them, combine adherence to the EBLI techniques along with more general pedagogical skill. In this sense, our measure likely captures a teacher’s general effectiveness, which might have been similar in the absence of the training.

Table 8 presents estimates from a model that allows for interactions between the treatment indicator and terciles of implementation quality. Column 1 presents estimates from our baseline model, corresponding to column 4 in Table 3. Column 2 presents estimates from the triple difference model, corresponding to column 6 in Table 3. Note that because we have no quality measure for control teachers, the estimates here are comparing treatment teachers with different levels of implementation quality to the full set of control teachers. For this reason, and because implementation quality was not randomly assigned, one cannot interpret these estimates causally. With those caveats in mind, the results suggest that treatment teachers who implemented EBLI with low quality were significantly less effective than control teachers, but

⁹ For examples of comments associated with different scores, see Appendix C.

that treatment teachers who implemented EBLI with moderate or high quality were equally effective as control teachers.

Discussion and Conclusions

This experimental evaluation finds that the Evidence-Based Literacy Instruction (EBLI) program had no significant impact on student reading performance. The estimates are quite precise, allowing us to rule out positive effects larger than 0.02 standard deviations, and robust to the inclusion of extensive controls for student demographics and baseline achievement. Moreover, there are no significant positive effects for any of the subgroups examined, including race, gender, and baseline achievement.

Teacher surveys suggest that control teachers did not receive any compensating professional development, and that treatment teachers had access to the materials and online resources they were supposed to receive. Yet, there were virtually no differences between treatment and control teachers in their self-reported confidence in various aspects of teaching reading or in their use of evidence-based instructional practices.

In assessing the external validity of these results, it is useful to consider the characteristics of the sample. While the study schools were not among the first group to request EBLI, with one exception they were initially quite interested in the program and very willing to participate.¹⁰ The statistics in Table 1 suggest that, as a whole, the study schools have somewhat fewer poor children and perform somewhat higher on standardized tests than other GVSU schools or the local (non-charter) public schools.

So what might explain these null results? One possibility lies in the nature of the intervention. EBLI is not a comprehensive reading program or a heavily scripted curriculum, but

¹⁰ One school was reluctant to participate, but eventually agreed after encouragement by the charter authorizer.

rather a set of strategies and techniques that teachers must integrate into their own reading instruction. As such, EBLI requires teachers to not only fully understand the techniques themselves, but also to figure out when and how to best incorporate them into their daily instruction.

Initially, EBLI teachers are supposed to teach roughly 15 lessons to introduce students to the key EBLI concepts and activities. Teachers receive guidance about these lessons in the initial training and are provided lesson plans from which to work. Moreover, teachers are encouraged to watch a series of online videos to see master teachers implementing these lessons and to obtain other advice about how to structure the activities. Each lesson is intended to take about 30-40 minutes. Teachers can choose exactly how and when to integrate them into their normal reading program, though they are expected to have completed these initial lessons by November. After completing this initial set of lessons, teachers are encouraged to integrate the same type of activities into their daily reading instruction, and to infuse the EBLI reading, writing, and spelling activities into their content area instruction (in all subject areas). EBLI recommends that teachers utilize these techniques/activities at least several times per week. Teachers are expected to take advantage of the online resources for assistance.

Conversations with the staff from the charter authorizer suggest that most treatment teachers did teach the initial set of prescribed lessons, but many teachers then found it difficult to incorporate EBLI techniques into their reading instruction throughout the rest of the school year. In this way, the results of this evaluation echo many of the conclusions of research on the implementation of education reforms and the challenges of changing instructional practice. This body of work emphasizes the complexity of school environments (Cohen and Ball, 1999, 2001)

and the importance of providing teachers sufficient structure and support for learning new instructional practices (Rowan et al., 2009, Rowan and Correnti 2009).

The developer of EBLI notes that teaching EBLI is “a paradigm shift for teachers, focusing more on teaching to the students than teaching to materials. This can be uncomfortable for teachers initially, until they become more automatic at the process.” In describing the common factors in schools that have successfully implemented EBLI, she lists things such as a school-wide willingness to adopt EBLI, fully trained and/or highly involved administrators, and the incorporation of EBLI videos and discussion in grade-level and other staff meetings.

In part based on the results of this evaluation, EBLI has initiated a series of changes aimed at providing teachers with more guidance and support throughout the school year. Most importantly, the program has increased its focus on making sure teachers incorporate EBLI techniques into their daily instruction after the initial lessons are taught. For example, lesson plans for upper grades have been changed to include templates to help teachers infuse EBLI into all content-area instruction that includes reading, writing, and spelling. In addition, the program created a thorough system of formative assessment that measures phonemic awareness, phonics, fluency, vocabulary, comprehension, writing, and spelling, which is now available for teachers. Finally, the program is in the process of creating an online training to replace the three-day in-person training, and spread instruction for teachers over several weeks in a way that will allow them to better integrate newly learned techniques into their class.

The hope is that this study is the start – and not the end – of a cycle of improvement and evaluation – that will ultimately lead to the creation of a literacy program that is effective at improving reading consistently for all children.

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Table 1 - Summary Statistics

	Study Schools	Other GVSU Schools	Traditional public school comparisons for the study schools
Student Demographics			
Female	0.497	0.492	0.516
Black	0.631	0.530	0.684
Caucasian	0.283	0.325	0.178
Asian	0.024	0.065	0.067
Hispanic	0.056	0.073	0.067
Limited english proficient	0.030	0.053	0.098
Special education	0.105	0.114	0.129
Subsidized meals	0.736	0.677	0.814
Academic Achievement			
Average reading score (std)	-0.213	-0.186	-0.461
fraction proficient in reading	0.587	0.592	0.459
Average math score (std)	-0.201	-0.151	-0.545
fraction proficient in math	0.342	0.367	0.207
On state watch list for bottom 5% performing schools	0.000	0.129	0.412
Average enrollment per grade in grades 2-5	74	83	76

Notes: Demographics based on 2014-15 school year. Standardized test scores are from Fall 2013. All statistics are weighted by student enrollment in the school. Source for priority school list: http://www.michigan.gov/documents/mde/2013-14_Priority_Schools_465225_7.pdf

Table 2 - Covariate Balance between Treatment and Control Classes

	Treatment Classes (n=22)	Control Classes (n=41)	Diff = T - C	p-value
Student Background				
Female	0.499	0.491	0.013	0.376
Black	0.584	0.590	-0.017	0.218
Caucasian	0.267	0.276	-0.002	0.884
Asian	0.017	0.013	0.004	0.500
Hispanic	0.056	0.063	-0.005	0.683
Multiple races	0.065	0.053	0.015	0.148
Special education	0.096	0.108	-0.019	0.123
Received 1-on-1 tutoring	0.030	0.033	-0.003	0.582
Class Characteristics				
Fall class size	25.3	25.3	-0.668*	0.072
Two teachers in the class at the same time (i.e., team teaching)	0.032	0.057	-0.027	0.545
Teacher changed during the school	0.000	0.095	-0.089**	0.040
Spring 2014 NWEA Exams				
Reading score missing	0.232	0.215	0.011	0.490
Reading score	190.944	191.467	-0.967	0.121
Math score missing	0.230	0.216	0.008	0.602
Math score	195.417	194.706	0.126	0.841
Fall 2014 NWEA Exams				
Reading score	185.134	187.664	-2.435***	0.000
Math score	189.737	190.437	-0.833	0.264

Notes: Unless otherwise noted, the statistics reflect only those students who were present in the classroom in Fall 2014. Columns 3 and 4 reflect estimates of the treatment indicator from an OLS regression that includes randomization block fixed effects, with standard errors clustered at the classroom level.

Table 3 - The Effect of EBLI Training on Student Achievement

	Took Spring 2015 Reading Test		Spring 2015 Reading Score (standardized)		Spring 2015 Score (standardized)		Took Winter 2015 Reading Test	Winter 2015 Reading Score (standardized)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Treatment class	-0.004 (0.010)	0.004 (0.012)	-0.143*** (0.048)	-0.032 (0.032)	-0.163** (0.066)		0.086* (0.045)	-0.015 (0.032)
Treatment class * Reading Score					0.024 (0.066)	0.047 (0.057)		
Demographic and prior achievement controls	No	Yes	No	Yes	No	Yes	Yes	Yes
Controls interacted with reading test	--	--	--	--	--	Yes	--	--
Block fixed effects	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Student fixed effects	No	No	No	No	No	Yes	No	No
Number of students	1,537	1,537	1,454	1,454	2,908	2,908	1,457	1,355
Number of classes	63	63	63	63	63	63	63	60
Control mean	0.952	0.952	0.007	0.007	0.012	0.012	0.903	0.419
Control s.d.	0.214	0.214	0.994	0.994	0.992	0.992	0.296	0.957

Notes: All models include randomization block fixed effects. Controls include all of the student demographics and class characteristics shown in Table 1, as well as spring and fall 2014 math and reading NWEA scores, and the date on which the outcome test was taken. All covariates are allowed to vary with grade level. Standard errors are clustered by class.

Table 4 - The Effect of EBLI Training on Student Achievement, by Subgroup

	Bottom Half of Fall Reading Scores in the Class	Top Half of Fall Reading Scores in the Class	Male	Female	Non-Black	Black
Treatment	-0.048 (0.050)	0.000 (0.048)	-0.118** (0.056)	-0.031 (0.034)	-0.132** (0.050)	-0.014 (0.048)
Number of students	668	758	726	727	603	850
Number of classes	63	63	63	63	53	59
Control mean	-0.597	0.534	-0.066	0.082	0.349	-0.235
Control s.d.	(0.863)	(0.788)	(1.024)	(0.958)	(0.979)	(0.933)
	Grade 2	Grade 3	Grade 4	Grade 5		
Treatment	-0.071 (0.074)	-0.056 (0.036)	-0.028 (0.056)	0.033 (0.086)		
Number of students	375	371	376	331		
Number of classes	17	15	17	15		
Control mean	0.010	-0.006	0.025	-0.002		
Control s.d.	(0.984)	(0.996)	(1.001)	(1.002)		

Notes: The outcome measure in all cases is the spring 2015 NWEA reading score, standardized to the mean and standard deviation of the control group. The specification is identical to that shown in column 4 of Table 3. In the top panel standard errors are clustered by class. In the bottom panels, standard errors are adjusted to account for a random class effect because the number of clusters is small.

Table 5 - Usage and Satisfaction among Treatment Teachers

General Satisfaction with the EBLI training	Percent agree or strongly agree		
Questions or reservations I had regarding Evidence-Based Literacy Instruction were answered or addressed during the 3-day training session.	75%		
I received all necessary materials to implement Evidence-Based Literacy Instruction effectively upon completion of the training session.	80%		
After completing the training, I felt confident in my ability to teach my students using the Evidence-Based Literacy Instruction method.	70%		
Member's Area resources are easy to find and access. (confirm that 100% claimed to use them)	100%		
Did you receive sufficient support to implement the Evidence-Based Literacy Instruction program in your classroom this year?	85%		
EBLI helped to positively impact my students' reading and/or writing ability.	65%		
EBLI helped to positively impact my students' behavior.	45%		
Overall, how satisfied are you with the Evidence-Based Literacy Instruction program?	55%		
	Percent recommend		
Would you recommend the Evidence-Based Literacy Instruction program to others in your network	75%		
	Occasionally (2-4 times per month)	Frequently (at least 2-4 times per week)	% indicating that the resource was helpful or very helpful
Usage of Online Resources			
Instructional Videos	55%	45%	95%
Helpful Hints Video	50%	30%	60%
Authentic Lesson Template	40%	40%	85%
EBLI Implementation Recommendations	40%	30%	60%
EBLI Recommended Resources	25%	50%	65%
Webinars	20%	10%	35%
Other resources (e.g. activities, worksheets, templates, etc.)	35%	60%	80%

Notes: Based on sample of 20 trained treatment teachers who completed the Spring 2015 survey.

Table 6 - Teacher Experiences with Professional Development and Self-Confidence about Teaching Reading

	Control	Treatment	Diff: T-C	p-value
Did you take any University-based course in the teaching of reading or writing in the past 12 months (including last summer)?	0.194	0.200	0.025	0.865
Other than coursework, did you receive any other professional development in the teaching of reading or writing in the past 12 months (including last summer)?	0.533	0.800	0.212	0.169
Total hours spent in reading PD (conditional on answering yes above)	21.5	43.7	8.08	0.318
Total hours spent in reading PD (unconditional on answering yes above)	11.1	34.5	29.37*	0.084
Fraction who agree or strongly agree with the following statements about professional development and support for teaching reading:				
I have a good understanding of how children acquire language and literacy skills.	0.931	1.000	0.051	0.294
I know how to assess the progress of my students in reading.	0.931	0.950	0.017	0.856
How well prepared do you feel you are to teach each of the following dimensions of literacy? (fraction reporting they feel well or extremely well prepared)				
Phonemic awareness	0.387	0.700	0.294*	0.088
Decoding	0.516	0.700	0.168	0.233
Vocabulary	0.742	0.750	-0.0672	0.660
Comprehension	0.774	0.850	0.000	1.000
Fluency building	0.548	0.700	0.143	0.385
Spelling	0.645	0.700	-0.0252	0.856
Writing	0.581	0.400	-0.269	0.108
Handwriting	0.516	0.400	-0.151	0.341
How well prepared do you feel to handle each of the following situations? (fraction reporting well or extremely well prepared)				
Help bring a struggling reader to grade level.	0.516	0.500	-0.067	0.694
Help provide adequate challenge for students performing above grade level.	0.645	0.650	-0.008	0.961
Diagnose the challenges faced by struggling readers.	0.548	0.600	0.008	0.963

Table 6 ctd. - Teacher Experiences with Professional Development and Self-Confidence about Teaching Reading

	Control	Treatment	Diff: T-C	p-value
Fraction reporting each of the following activities occurred at least once a month				
Received mentoring by a reading coach	0.194	0.350	0.067	0.645
Received help with diagnostic testing for individual students	0.290	0.250	-0.008	0.951
Received help in coordinating reading interventions for struggling readers.	0.226	0.500	0.269*	0.058
Received help using assessment data to determine topics that require additional instruction or practice.	0.290	0.600	0.378***	0.007
Attended grade-level or subject-specific meetings in my school devoted to reading.	0.355	0.400	0.076	0.616
Accessed online videos, webinars or other online resources to enhance my teaching of reading.	0.290	0.450	0.067	0.676
Utilized new methods of teaching reading as a result of professional development this year.	0.419	0.850	0.412***	0.008
Total number of teachers	43	22		
# of teachers took survey	33	20		
% of teachers took survey	76.7%	90.9%	0.196**	0.039

Notes: Based on sample of teachers who completed the Spring 2015 survey. Columns 3 and 4 reflect estimates of the treatment indicator from an OLS regression that includes randomization block fixed effects, with robust standard errors.

Table 7 - Teacher use of evidence-based literacy practices

Practice Type	Fraction of evidence-based practices that the teacher uses weekly			
	Control	Treatment	Diff: T-C	p-value
Reading Text	0.772	0.806	0.019	0.719
Working w/ Sounds and Words	0.595	0.669	0.012	0.853
Reading Materials	0.713	0.642	-0.068	0.273
Writing Activites	0.638	0.656	-0.001	0.989
Practices explicitly encouraged by EBLI	0.709	0.764	0.023	0.657
Practices explicitly discouraged by EBLI	0.517	0.225	-0.308***	0.009

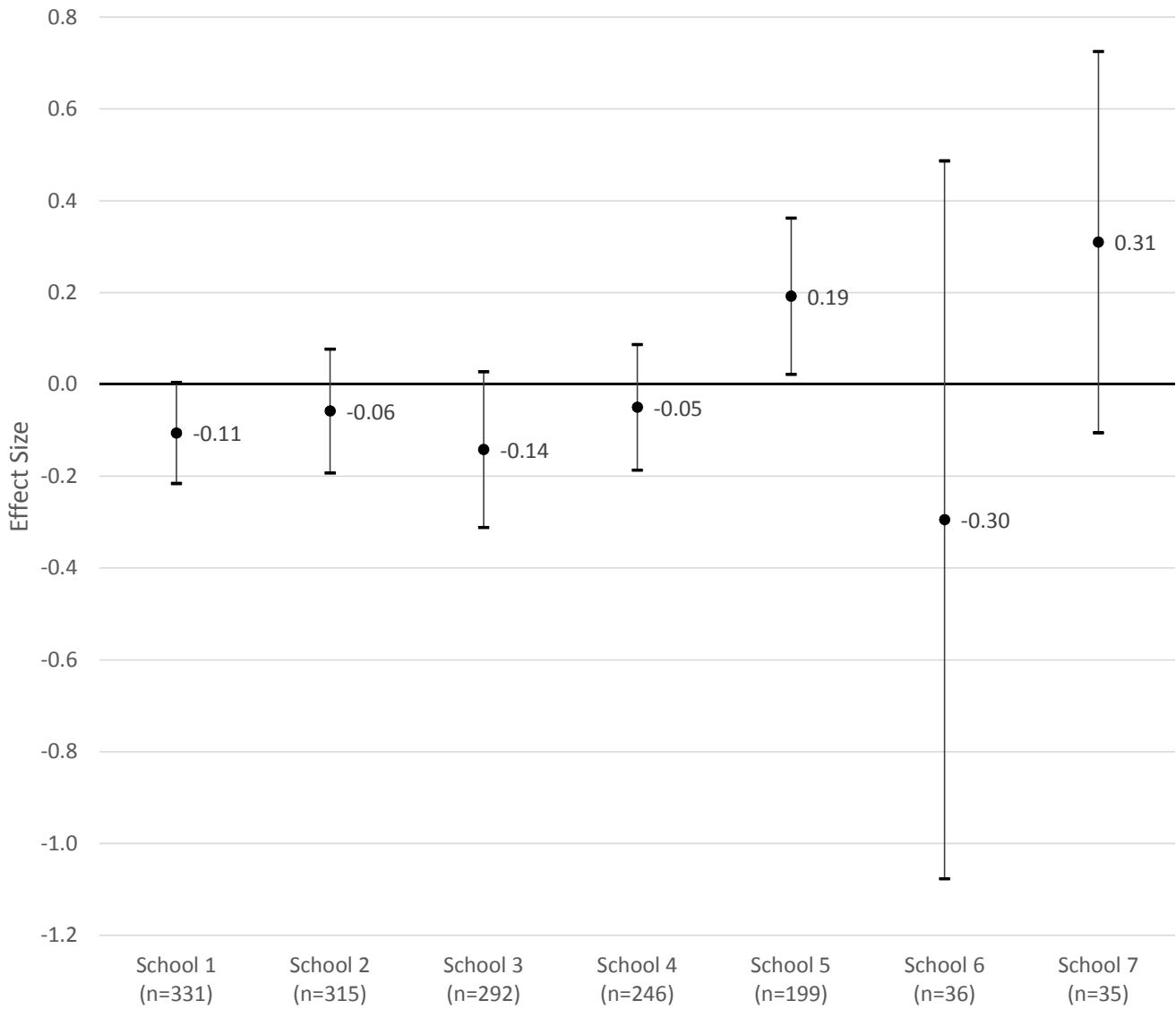
Notes: Based on sample of teachers who completed the Spring 2015 survey. Columns 3 and 4 reflect estimates of the treatment indicator from an OLS regression that includes randomization block fixed effects, with robust standard errors. See Appendix B for the constructions of the measures.

Table 8 - The Effect of EBLI Training by Quality of Implementation

	Spring 2015 Reading Score	Spring 2015 Score
	(1)	(2)
Treatment	-0.110** (0.042)	
Treatment x Moderate Quality	0.091 (0.074)	
Treatment x High Quality	0.117* (0.059)	
Treatment x Read		-0.015 (0.069)
Treatment x Moderate Quality x Read		0.130 (0.098)
Treatment x High Quality x Read		0.035 (0.148)
Demographic and prior achievement controls	Yes	Yes
Block fixed effects	Yes	No
Student fixed effects	No	Yes
Number of students	1,454	2,908
Number of classes	63	63
Control mean	199.956	202.666
Control s.d.	16.982	17.623

Notes: All models include randomization block fixed effects. See text for description of the specifications.

Figure 1 - The Impact of EBLI Training on Student Achievement, by School



Note: Circles indicate point estimates and bars indicate the bounds of 95% confidence intervals around the estimates.

Appendix A

Literacy Instruction Practices Survey Spring 2015 Results Coding

1. Including this year, how long have you been teaching? *(Please check one box in each row).*

	0-1 years	2-5 years	6-10 years	11+ years
(1a) Any grade and any subject	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(1b) Grades K-5 any subject	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(1c) Grades K-5 ELA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2. What is your highest level of education?

- Bachelor's degree **(2a 1)**
- Master's degree **(2a 2)**
- Education Specialist (EdS) **(2a 3)**
- Doctor of Philosophy **(2a 4)**
- Other (please explain) _____ **(2a 5)**

3. Did you teach ELA this year?

- Yes **(3a1)**
- No **(3a2)**

4. Please indicate the grades to which you taught ELA (Mark all that apply).

- Second grade **(4a 0/1)**
- Third grade **(4b 0/1)**
- Fourth grade **(4c 0/1)**
- Fifth grade **(4d 0/1)**
- Sixth grade **(4e 0/1)**
- Seventh grade **(4f 0/1)**
- Eighth grade **(4g 0/1)**
- Other (specify) _____ **(4h 0/1) + (4hTEXT)**

5. In a typical week, approximately how many minutes do you spend each day on ELA instruction, including reading, writing, and spelling?

	Monday	Tuesday	Wednesday	Thursday	Friday
Whole group	5aM	5aT	5aW	5aTh	5aF
Small group	5bM	5bT	5bW	5bTh	5bF
Individual	5cM	5cT	5cW	5cTh	5cF
Total	5dM	5dT	5dW	5dTh	5dF

6. Please describe your use of the following ELA instructional activities - Reading Text in the past year (*Check one box for each statement*).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Students read aloud unfamiliar text. (6a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students reread familiar stories multiple times. (6b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I listen to students read aloud without correcting errors. (6c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I listen to students read aloud and correct errors immediately. (6d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I stop students while reading and have them self-correct misidentified words. (6e)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please describe your use of the following ELA instructional activities - Reading Text in the past year (*Check one box for each statement*).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
I provide error correction guidance, without pronouncing the word, when an error occurs during students' reading. (6f)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I discuss new and unusual words before reading. (6g)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I pre-teach students how to read unfamiliar / multi-syllable vocabulary words before students encounter them in reading text. (6h)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students are given time to read on their own for enjoyment. (6i)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I include writing opportunities in reading instruction. (6j)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I provide spelling instruction during reading instruction time. (6k)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

7. Please describe your use of the following ELA instructional activities - Working with Sounds and Words in the past year (*Check one box for each statement*).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
I teach students to decode multi-syllabic words in isolation. (7a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I teach decoding skills while reading stories. (7b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students say sounds in unfamiliar words as they read and write. (7c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students memorize sight words. (7d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students read irregularly spelled words and non-sense words in isolation or on flash cards. (7e)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students practice reading high frequency words for automatically. (7f)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please describe your use of the following ELA instructional activities - Working with Sounds and Words in the past year (*Check one box for each statement*).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Students use knowledge of root words, prefixes, and suffixes to decode new words. (7g)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students use context clues to identify unknown words. (7h)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students practice reading and writing words as separate syllables. (7i)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I encourage students to guess unfamiliar words or insert a word that would make sense. (7j)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I encourage students to look at the picture to read text. (7k)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

8. Please describe your use of the following ELA instructional activities - Reading Materials in the past year
(Check one box for each statement).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Use books that are easy to decode. (8a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use books with patterned predictable language. (8b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
As a class we read current event or other non-fiction articles. (8c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students read leveled books. (8d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Classroom instruction includes reading novels as a group. (8e)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please describe your use of the following ELA instructional activities - Reading Materials in the past year
(Check one box for each statement).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Use core reading series. (8f)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In class students read books that challenge them. (8g)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students read books that they have chosen themselves from the library. (8h)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students develop reading skills through science and social studies texts. (8i)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

9. Please describe your use of the following ELA instructional activities - Writing Activities in the past year (Check one box for each statement).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
I dictate sentences/paragraphs for students to write. (9a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students write vocabulary words in sentences. (9b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use whole-class scaffolded writing. (9c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students write on white boards or tablets. (9d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students write summary sentences for comprehension. (9e)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please describe your use of the following ELA instructional activities - Writing Activities in the past year (Check one box for each statement).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Students use inventive spelling (I encourage students to use their own spellings of new words in their writing). (9f)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I correct capitalization and punctuation mistakes in students' writing. (9g)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I correct spelling errors in students' writing. (9h)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students self-correct spelling errors in their writing. (9i)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. How often do your students who are struggling readers receive each of the following supports? (Check only one box for each statement).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Diagnostic assessment to determine core deficits. (10a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Extra instruction and practice in the classroom with phonemic awareness. (10b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Extra instruction and practice in the classroom with decoding. (10c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Extra instruction and practice in the classroom with reading fluency. (10d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Extra instruction and practice in the classroom with reading comprehension. (10e)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How often do your students who are struggling readers receive each of the following supports? (Check only one box for each statement).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Extra content area/subject-matter instructional time. (10f)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use materials that supplement the core reading program. (10g)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Placement in different level of core reading program. (10h)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Placement in separate core reading program. (10i)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How often do your students who are struggling readers receive each of the following supports? (Check only one box for each statement).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Student(s) work one-to-one with a reading specialist. (10j)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student(s) work in a small group with a reading specialist. (10k)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student(s) work with more advanced peer(s). (10L)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Special materials are given to parents to provide practice. (10m)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

11. Please indicate the extent to which you agree or disagree with each statement. (Check one box for each statement).

	1	2	3	4
	Strongly Agree	Agree	Disagree	Strongly Disagree
I have a good understanding of how children acquire language and literacy skills. (11a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I know how to assess the progress of my students in reading. (11b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. How well prepared do you feel you are to teach each of the following dimensions of literacy? (Check one box for each statement).

	1	2	3	4	5
	Not at all prepared	Insufficiently prepared	Adequately prepared	Well prepared	Extremely well prepared
Phonemic awareness (12a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Decoding (12b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vocabulary (12c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comprehension(12d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How well prepared do you feel you are to teach each of the following dimensions of literacy? (Check one box for each statement).

	1	2	3	4	5
	Not at all prepared	Insufficiently prepared	Adequately prepared	Well prepared	Extremely well prepared
Fluency building (12e)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spelling (12f)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Writing (12g)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handwriting (12h)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. How well prepared do you feel to handle each of the following situations? (Check one box for each statement).

	1	2	3	4	5
	Not at all prepared	Insufficiently prepared	Adequately prepared	Well prepared	Extremely well prepared
Help bring a struggling reader to grade level. (13a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Help provide adequate challenge for students performing above grade level. (13b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diagnose the challenges faced by struggling readers. (13c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. Please indicate how often you have received these supports during this past academic year. (Check one box for each statement).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Received mentoring by a reading coach*. (14a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Received help with diagnostic testing for individual students. (14b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Received help in coordinating reading interventions for struggling readers. (14c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Received help using assessment data to determine topics that require additional instruction or practice. (14d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate how often you have received these supports during this past academic year. (Check one box for each statement).

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Attended grade-level or subject-specific meetings in my school devoted to reading. (14e)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accessed online videos, webinars or other online resources to enhance my teaching of reading. (14f)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Utilized new methods of teaching reading as a result of professional development this year. (14g)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*A **reading coach** is someone whose primary role is to **provide ongoing training and support to classroom teachers** in the delivery of effective reading instruction. This assistance may include planning instruction, providing demonstration lessons, observing and providing feedback, using assessment results to guide instruction, etc.

15. Did you take any University-based courses in the teaching of reading or writing in the past 12 months (including last summer)? (*Check one box*).

- Yes **(15a 1)**
- No **(15a 2)**

16. How many courses did you enroll in? _____ **(16a)**

17. Other than coursework, did you receive any other professional development in the teaching of reading or writing in the past 12 months (including last summer)? (*Check one box*).

- Yes **(17a 1)**
- No **(17a 2)**

18. How much time did you devote to this professional development in the past 12 months?

Number of days _____ **(18a)**

Average hours per day _____ **(18b)**

19. Have you heard of or received training in Evidence-Based Literacy Instruction (EBLI)? (*Please check one box*).

- Heard of EBLI **(19a 1)**
- Received training in EBLI **(19a 2)**
- Have not heard of or received training in EBLI **(19a 3)**

20. If you have any comments on your previous responses, please use the space below to share them. **(20a)**

21. Did you utilize the Evidence-Based Literacy Instruction Program when teaching students this year? **(21a)**

- Yes
- No

22. When did you attend the Evidence-Based Literacy Instruction 3-day training session?

- Summer 2014 **(22a 1)**
- Fall 2014 **(22a 2)**
- Winter 2015 **(22a 3)**
- Other _____ **(22a 4) + 22TEXT**

23. Please indicate your overall agreement with each of the following statements about the Evidence-Based Literacy Instruction 3-day training session.

	1	2	3	4	5
	Strongly agree	Agree	No opinion	Disagree	Strongly disagree
Questions or reservations I had regarding Evidence-Based Literacy Instruction were answered or addressed during the 3-day training session. (23a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I received all necessary materials to implement Evidence-Based Literacy Instruction effectively upon completion of the training session. (23b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
After completing the training, I felt confident in my ability to teach my students using the Evidence-Based Literacy Instruction method. (23c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Did you receive any additional Evidence-Based Literacy Instruction training after the initial 3-day training session?

- Yes **(24a 1)**
- No **(24a 2)**

25. Did you utilize the Evidence-Based Literacy Instruction Online Member's Area at any point throughout the year?

- Yes **(25a 1)**
- No **(25a 2)**

26. Please indicate your agreement with each of the following statements regarding the Evidence-Based Literacy Instruction Online Member's Area.

	1	2	3	4	5
	Strongly agree	Agree	No opinion	Disagree	Strongly disagree
Member's Area resources are easy to find and access. (26a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Evidence-Based Literacy Instruction training prepared me to know how to use the system. (26b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

27. Please indicate how often you accessed or utilized each of the following Evidence-Based Literacy Instruction Online Member's Area resources.

	1	2	3	4	5
	Daily	Frequently (2-5 times per week)	Occasionally (2-4 times per month)	Infrequently (once or twice per year)	Never
Instructional Videos (27a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Helpful Hints Videos (27b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Authentic Lesson Template (27c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EBLI Implementation Recommendations (27d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EBLI Recommended Resources (27e)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Webinars (27f)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other resources (e.g. activities, worksheets, templates, etc.) (27g)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

28. Please indicate how helpful you found each of the following Evidence-Based Literacy Instructions Online Member's Area resources.

	1	2	3	4	5
	Very helpful	Helpful	No opinion	Somewhat helpful	Not helpful
Instructional Videos (28a)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Helpful Hints Videos (28b)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Authentic Lesson Template (28c)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EBLI Implementation Recommendations (28d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EBLI Recommended Resources (28e)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Webinars (28f)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other resources (e.g. activities, worksheets, templates, etc.) (28g)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

29. What kinds of resources were not available in the Member's Area, but would have been useful to you if they had been? **(29a)**

30. Did you receive sufficient support to implement the Evidence-Based Literacy Instruction program in your classroom this year?

- Yes **(30a 1)**
- No **(30a 2)**

If not, please tell us what could have been improved. **(30TEXT)**

31. Do you feel that the Evidenced-Based Literacy Instruction program helped you to positively impact student reading or writing ability?

- Yes **(31a 1)**
- No **(31a 2)**

Please describe the program's impact upon student reading or writing ability. **(31b)**

Please indicate the basis for your comments (*check all that apply*).

- Direct observation in my classroom. (31c 1)
- Reading level assessments. Please enter name of assessment below. _____ **(31c 2) + (31d)**
- Academic performance. Please enter name of assessment(s) below. _____ **(31c3) + (31d)**
- Other _____ **(31c 4) + (31d)**

32. Do you feel that the Evidenced-Based Literacy Instruction program helped you to positively impact student behavior this year?

- Yes **(32a 1)**
- No **(32a 2)**

Please describe the changes in student behavior. **(32b)**

33. Overall, how satisfied are you with the Evidence-Based Literacy Instruction program?

- Very satisfied **(33a 1)**
- Satisfied **(33a 2)**
- Neutral **(33a 3)**
- Dissatisfied **(33a 4)**
- Very dissatisfied**(33a 5)**

34. Would you recommend the Evidence-Based Literacy Instruction program to others in your network?

- Yes **(34a 1)**
- No **(34a 2)**

35. Please provide any final thoughts that you would like to share regarding your experience with the Evidence-Based Literacy Instruction program this year. **(35a)**

Appendix B

Each composite score is created by averaging the set of binary variables that indicate whether a teacher engages in certain activities at least weekly. Take the composite score for “Reading Text” as an example. This score comes from responses to the following 8 questions: 6a-e, 6g, 6i and 6j. For each question, a binary variable is coded as 1 if a teacher reports engaging in the activity at least weekly. Otherwise, the binary variable is coded with a value of 0. The composite score then is the average of the 8 binary variables.

The remaining composite scores are constructed similarly, but vary in terms of the questions upon which each score is based.

The composite score for “Working with Sounds and Words” is based on responses to 7a-c, 7e-i and 7k. The composite score for “Reading Materials” is based on responses to 8a, 8b, 8d, 8f, 8h and 8i. The composite score for “Writing Activities” is based on responses to 9b-9i.

A similar rule is used to calculate the score for teachers’ engagement in a practice explicitly encouraged or discouraged by EBLI. By averaging the binary variables for question 6a, 6d, 6g, 6i, 6j, 7b, 7c, 7i, 9c-e and 9g-i, we obtain the composite score for “Teachers’ engagement in a practice encouraged by EBLI”. By averaging the binary variables for question 6b, 6c, 6e, 7e-h, 7k and 9f, we obtain the composite score for “Teachers’ engagement in a practice discouraged by EBLI”.

The last two composite scores for “Encouraged (Discouraged) Practices” are generated from a different set of questions. The binary variables from responses to 6f, 6h, 6k, 7a, 8c, 8e and 8g are used to calculate the “Encouraged Practices” composite measure, and the binary variables from responses to 7d and 7j are used to calculate the “Discouraged Practices” composite measure.

Appendix C

The following is an example of a visit that was assigned a score of “3”:

“XXX taught MS Spelling of the words mosquitoes and exaggerated like a champ! I shared that XXX can forego the clapping and just cue on the board. XXX moves very quickly; the students are fantastic and automatic with the EBLI process so easily move quickly with her! XXX taught EBLI Split Word Reading perfectly then taught read/read back small group. The process is pristine, with both teacher and students... This too is an amazing, model classroom for EBLI instruction!”

The following is an example of a visit that was assigned a score of “2”:

“XXX is doing well with teaching EBLI though XXX does a lot of extra talking. XXX taught the vocabulary graphic organizer whole class then did read/read back small group... XXX is using blend and word family flash cards with her lower students (plane, skate). I encouraged XXX to do sound lines and have the students segment all the sounds. XXX was not open to that as she thinks those students are not capable. We did some refining with read/read back and XXX applied it immediately.”

The following is an example of a visit that was assigned a score of “1”:

“XXX is just going through the motions of EBLI. XXX says that XXX is doing so many ‘reading initiatives’ that XXX is confused herself. I am certain her students are confused too!! ... it is very apparent the students are not at all familiar with the process of EBLI. They don’t say as they write, they are used to making syllable and sound lines independently (and incorrectly!) and making it ‘look like’ EBLI. We tried read/read back and the teacher stayed at the front and just gave the students the words when they paused or stumbled. There are so many problems with the instruction for this class that it seemed rather fruitless to try to fix all of them.”