National Board for Professional Teaching Standards (NBPTS) certified teachers (for secondary school students)

Pre-K to 12 Education

Literature review updated March 2018.

As part of WSIPP’s research approach to identifying evidence-based programs and policies, WSIPP determines “what works” (and what does not work) to improve outcomes using an approach called meta-analysis. For detail on our methods, see our Technical Documentation. At this time, WSIPP has not yet calculated benefits and costs for this topic.

Program Description: The National Board for Professional Teaching Standards (NBPTS) certification is an advanced teaching credential that complements (and does not replace) state certification. This analysis estimates the effects middle and high school students experience from having been taught by a NBPTS-certified teacher in a math or English Language Arts course.

Teachers earn NBPTS certification upon completion of a one- to five-year assessment process. The assessment process requires applicants to complete one general skills exam and three portfolios demonstrating their teaching ability and content knowledge. Washington State provides an annual salary bonus to NBPTS-certified teachers. Some NBPTS-certified teachers working in qualifying high-poverty schools can also receive an additional annual bonus.

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<th>Meta-Analysis of Program Effects</th>
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<td>Outcomes measured</td>
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<td>Test scores</td>
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Meta-analysis is a statistical method to combine the results from separate studies on a program, policy, or topic in order to estimate its effect on an outcome. WSIPP systematically evaluates all credible evaluations we can locate on each topic. The outcomes measured are the types of program impacts that were measured in the research literature (for example, crime or educational attainment). Treatment N represents the total number of individuals or units in the treatment group across the included studies.

An effect size (ES) is a standard metric that summarizes the degree to which a program or policy affects a measured outcome. If the effect size is positive, the outcome increases. If the effect size is negative, the outcome decreases.

Adjusted effect sizes are used to calculate the benefits from our benefit cost model. WSIPP may adjust effect sizes based on methodological characteristics of the study. For example, we may adjust effect sizes when a study has a weak research design or when the program developer is involved in the research. The magnitude of these adjustments varies depending on the topic area.

WSIPP may also adjust the second ES measurement. Research shows the magnitude of some effect sizes decrease over time. For those effect sizes, we estimate outcome-based adjustments which we apply between the first time ES is estimated and the second time ES is estimated. We also report the unadjusted effect size to show the effect sizes before any adjustments have been made. More details about these adjustments can be found in our Technical Documentation.

Citations Used in the Meta-Analysis


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Washington State Institute for Public Policy

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