

Washington State Institute for Public Policy

Benefit-Cost Results

The WSIPP benefit-cost analysis examines, on an apples-to-apples basis, the monetary value of programs or policies to determine whether the benefits from the program exceed its costs. WSIPP's research approach to identifying evidence-based programs and policies has three main steps. First, we determine "what works" (and what does not work) to improve outcomes using a statistical technique called meta-analysis. Second, we calculate whether the benefits of a program exceed its costs. Third, we estimate the risk of investing in a program by testing the sensitivity of our results. For more detail on our methods, see our [Technical Documentation](#).

Current estimates replace old estimates. Numbers will change over time as a result of model inputs and monetization methods.

Pre-K to 12 Education

| Program name | Date of last literature review | Total benefits | Taxpayer benefits | Non-taxpayer benefits | Costs | Benefits minus costs (net present value) | Benefit to cost ratio | Chance benefits will exceed costs |
|--|--------------------------------|----------------|-------------------|-----------------------|------------|--|-----------------------|-----------------------------------|
| State and district early childhood education programs | Dec. 2013 | \$41,657 | \$13,501 | \$28,156 | (\$7,259) | \$34,398 | \$5.74 | 90 % |
| Becoming a Man (BAM) with high-dosage tutoring | May. 2015 | \$35,735 | \$9,686 | \$26,049 | (\$4,532) | \$31,203 | \$7.89 | 72 % |
| Consultant teachers: Literacy Collaborative | Jan. 2018 | \$25,473 | \$6,515 | \$18,957 | (\$751) | \$24,721 | \$33.90 | 100 % |
| Head Start | Dec. 2013 | \$28,706 | \$9,371 | \$19,335 | (\$8,946) | \$19,760 | \$3.21 | 81 % |
| Double-dose classes | May. 2015 | \$16,196 | \$4,431 | \$11,766 | (\$493) | \$15,703 | \$32.86 | 98 % |
| Tutoring: By peers | Jul. 2014 | \$14,905 | \$3,779 | \$11,126 | (\$114) | \$14,791 | \$130.41 | 82 % |
| Case management in schools | Jun. 2014 | \$14,660 | \$4,315 | \$10,345 | (\$229) | \$14,431 | \$64.07 | 96 % |
| Summer book programs: Multi-year intervention | Feb. 2018 | \$13,921 | \$3,541 | \$10,380 | (\$218) | \$13,703 | \$63.90 | 70 % |
| Tutoring: By adults for English language learner students | Jul. 2014 | \$15,049 | \$4,041 | \$11,008 | (\$1,453) | \$13,595 | \$10.35 | 69 % |
| Teacher professional development: Use of data to guide instruction | Jun. 2014 | \$13,493 | \$3,423 | \$10,070 | (\$110) | \$13,383 | \$122.55 | 98 % |
| Tutoring: By certificated teachers, small-group, structured | Jun. 2014 | \$14,213 | \$3,773 | \$10,440 | (\$1,447) | \$12,767 | \$9.82 | 96 % |
| Consultant teachers: Online coaching | Jun. 2014 | \$12,288 | \$3,122 | \$9,166 | (\$198) | \$12,090 | \$61.94 | 92 % |
| Tutoring: By adults, one-on-one, structured | Jun. 2014 | \$13,866 | \$3,806 | \$10,061 | (\$2,359) | \$11,508 | \$5.88 | 94 % |
| Project Lead The Way (PLTW) | Sep. 2014 | \$13,104 | \$3,530 | \$9,574 | (\$1,795) | \$11,309 | \$7.30 | 82 % |
| Consultant teachers: Content-Focused Coaching | Jan. 2018 | \$10,161 | \$2,573 | \$7,588 | (\$59) | \$10,102 | \$173.17 | 94 % |
| Special literacy instruction for English language learner students | Jul. 2014 | \$10,049 | \$2,615 | \$7,434 | (\$301) | \$9,748 | \$33.42 | 80 % |
| Tutoring: By non-certificated adults, small-group, structured | Jun. 2014 | \$9,078 | \$2,364 | \$6,714 | (\$552) | \$8,525 | \$16.44 | 78 % |
| Teacher professional development: Targeted | Jun. 2014 | \$8,269 | \$2,121 | \$6,147 | (\$268) | \$8,001 | \$30.89 | 79 % |
| Consultant teachers: Coaching | Jun. 2014 | \$6,326 | \$1,632 | \$4,694 | (\$259) | \$6,067 | \$24.40 | 81 % |
| Teacher professional development: Induction/mentoring | Jun. 2014 | \$5,414 | \$1,376 | \$4,038 | (\$77) | \$5,337 | \$70.72 | 64 % |
| Per-pupil expenditures: 10% increase for one student cohort from kindergarten through grade 12 | Apr. 2012 | \$16,173 | \$4,708 | \$11,465 | (\$11,044) | \$5,129 | \$1.46 | 66 % |
| Out-of-school-time tutoring by adults | Jun. 2014 | \$6,046 | \$1,644 | \$4,402 | (\$945) | \$5,101 | \$6.40 | 93 % |
| Summer learning programs: Academically focused | Jun. 2014 | \$5,443 | \$1,521 | \$3,922 | (\$1,166) | \$4,277 | \$4.67 | 86 % |
| Growth mindset interventions | Feb. 2018 | \$3,541 | \$898 | \$2,643 | (\$39) | \$3,501 | \$90.33 | 58 % |
| Tutoring: Supplemental computer-assisted instruction for struggling readers | Jun. 2016 | \$4,012 | \$1,085 | \$2,928 | (\$553) | \$3,460 | \$7.26 | 58 % |
| National Board for Professional Teaching Standards (NBPTS) certification bonuses | Apr. 2012 | \$3,549 | \$910 | \$2,639 | (\$112) | \$3,436 | \$31.61 | 100 % |
| Parents as tutors with teacher oversight | Jun. 2014 | \$4,166 | \$1,149 | \$3,017 | (\$818) | \$3,348 | \$5.09 | 56 % |
| Becoming a Man (BAM) | Apr. 2018 | \$5,295 | \$1,637 | \$3,657 | (\$2,023) | \$3,272 | \$2.62 | 79 % |
| Teacher performance pay programs | Oct. 2015 | \$2,379 | \$605 | \$1,774 | (\$36) | \$2,342 | \$65.55 | 88 % |
| Tutoring: By adults, one-on-one, non-structured | Jun. 2014 | \$3,685 | \$1,116 | \$2,569 | (\$1,468) | \$2,216 | \$2.51 | 71 % |
| Teacher professional development: Online, targeted | Jun. 2014 | \$2,290 | \$615 | \$1,675 | (\$300) | \$1,990 | \$7.64 | 61 % |
| Summer book programs: One-year intervention | Jun. 2014 | \$1,910 | \$494 | \$1,417 | (\$79) | \$1,831 | \$24.08 | 56 % |
| First Step to Success | May. 2015 | \$2,335 | \$640 | \$1,695 | (\$600) | \$1,735 | \$3.89 | 53 % |

| Program name | Date of last literature review | Total benefits | Taxpayer benefits | Non-taxpayer benefits | Costs | Benefits minus costs (net present value) | Benefit to cost ratio | Chance benefits will exceed costs |
|---|--------------------------------|----------------|-------------------|-----------------------|------------|--|-----------------------|-----------------------------------|
| Class size: reducing average class size by one student in kindergarten | Jan. 2013 | \$1,837 | \$567 | \$1,270 | (\$210) | \$1,627 | \$8.74 | 98 % |
| Summer book programs: One-year intervention, with additional support | Jun. 2014 | \$963 | \$257 | \$706 | (\$118) | \$845 | \$8.19 | 57 % |
| Tutoring: Supplemental Educational Services (under Title I) | May. 2015 | \$2,436 | \$838 | \$1,598 | (\$1,692) | \$744 | \$1.44 | 58 % |
| Class size: reducing average class size by one student in grade 1 | Jan. 2013 | \$951 | \$309 | \$642 | (\$210) | \$741 | \$4.53 | 89 % |
| Class size: reducing average class size by one student in grade 2 | Jan. 2013 | \$598 | \$205 | \$393 | (\$210) | \$388 | \$2.85 | 67 % |
| Class size: reducing average class size by one student in grade 3 | Jan. 2013 | \$484 | \$170 | \$313 | (\$210) | \$273 | \$2.30 | 60 % |
| Class size: reducing average class size by one student in one grade, 4-6 | Jan. 2013 | \$346 | \$127 | \$219 | (\$190) | \$156 | \$1.82 | 54 % |
| Class size: reducing average class size by one student in one grade, 9-12 | Jan. 2013 | \$314 | \$111 | \$203 | (\$170) | \$144 | \$1.85 | 53 % |
| Class size: reducing average class size by one student in one grade, 7-8 | Jan. 2013 | \$305 | \$111 | \$194 | (\$172) | \$133 | \$1.77 | 53 % |
| Second Step | May. 2015 | \$69 | \$32 | \$37 | (\$121) | (\$51) | \$0.57 | 30 % |
| Teacher professional development: Not targeted | Jun. 2014 | (\$28) | \$4 | (\$32) | (\$89) | (\$117) | (\$0.32) | 35 % |
| Full-day kindergarten | Dec. 2013 | \$378 | \$445 | (\$66) | (\$2,762) | (\$2,384) | \$0.14 | 37 % |
| Educator professional development: Use of data to guide instruction | Jun. 2014 | (\$3,195) | (\$803) | (\$2,392) | (\$18) | (\$3,213) | (\$174.30) | 31 % |
| "Check-in" behavior interventions | May. 2015 | (\$2,307) | (\$371) | (\$1,936) | (\$1,349) | (\$3,656) | (\$1.71) | 46 % |
| Even Start | Apr. 2012 | (\$4,959) | (\$716) | (\$4,243) | (\$4,324) | (\$9,283) | (\$1.15) | 31 % |
| Early Head Start | Apr. 2012 | (\$1,494) | \$2,176 | (\$3,670) | (\$11,123) | (\$12,617) | (\$0.13) | 25 % |

Other Pre-K to 12 Education topics reviewed:

| Program name | Date of last literature review | Notes |
|--|--------------------------------|---|
| Academic vocabulary instruction | Mar. 2018 | Click for meta-analytic results |
| Charter schools: Knowledge Is Power Program (KIPP) | Aug. 2013 | Click for meta-analytic results |
| Charter schools: non-urban charter schools | Aug. 2013 | Click for meta-analytic results |
| Charter schools: overall impact | Aug. 2013 | Click for meta-analytic results |
| Charter schools: urban charter schools | Aug. 2013 | Click for meta-analytic results |
| Daily Behavior Report Cards | Apr. 2018 | Click for meta-analytic results |
| Model early childhood education programs | Dec. 2013 | Click for meta-analytic results |
| Pre-K and elementary bilingual instruction for English language learners | Jun. 2014 | Click for meta-analytic results |
| Principal quality | Aug. 2013 | Click for meta-analytic results |
| Teacher experience | Apr. 2012 | Click for meta-analytic results |
| Teacher graduate degrees | Apr. 2012 | Click for meta-analytic results |
| Teacher in-subject graduate degrees | Apr. 2012 | Click for meta-analytic results |
| Transition programs for incoming kindergarteners | Mar. 2018 | Click for meta-analytic results |
| ACCEPTS program | May. 2015 | No rigorous evaluation measuring outcome of interest. |
| Advancement Via Individual Determination (AVID) | Jul. 2013 | No rigorous evaluation measuring outcome of interest. |
| Connecting With Others program | May. 2015 | No rigorous evaluation measuring outcome of interest. |
| Credit retrieval | Apr. 2018 | No rigorous evaluation measuring outcome of interest. |
| High Schools That Work (HSTW) | Jul. 2013 | No rigorous evaluation measuring outcome of interest. |
| International Baccalaureate | Jul. 2013 | No rigorous evaluation measuring outcome of interest. |
| K-12 educator professional learning communities | Feb. 2018 | No rigorous evaluation measuring outcome of interest. |
| Lunch Buddy Program | May. 2015 | No rigorous evaluation measuring outcome of interest. |
| Make Your Day | May. 2015 | No rigorous evaluation measuring outcome of interest. |
| MicroSociety | Jul. 2013 | No rigorous evaluation measuring outcome of interest. |
| Montessori in K-12 | Jul. 2013 | No rigorous evaluation measuring outcome of interest. |
| Parent and family engagement coordinators | Jan. 2018 | No rigorous evaluation measuring outcome of interest. |
| Professional learning communities | May. 2018 | No rigorous evaluation measuring outcome of interest. |
| Skillstreaming | May. 2015 | No rigorous evaluation measuring outcome of interest. |
| Team teaching/co-teaching | May. 2015 | No rigorous evaluation measuring outcome of interest. |
| Think Time | May. 2015 | No rigorous evaluation measuring outcome of interest. |
| K-12 teacher effectiveness | Dec. 2007 | See previous WSIPP publication for past findings. |

For further information, contact:
 (360) 664-9800, institute@wsipp.wa.gov

Printed on 11-14-2018



Washington State Institute for Public Policy

The Washington State Legislature created the Washington State Institute for Public Policy in 1983. A Board of Directors—representing the legislature, the governor, and public universities—governs WSIPP and guides the development of all activities. WSIPP's mission is to carry out practical research, at legislative direction, on issues of importance to Washington State.