

## Triple P—Positive Parenting Program (System) Public Health & Prevention: Population-level policies

Benefit-cost estimates updated December 2023. Literature review updated June 2020.

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

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](#).

**Program Description:** Triple P—Positive Parenting Program (System) is a universal prevention program that aims to increase the skills and confidence of parents to prevent and treat severe behavioral and emotional problems in their children. Triple P engages parents and children in programming that aims to improve long-term outcomes.

Triple P has five levels of intensity. The first level is a media campaign that aims to increase awareness of parenting resources, de-stigmatize help-seeking, and inform parents about solutions to common behavioral problems. Levels two and three are primary health care interventions for children with mild behavioral difficulties. In contrast, levels four and five are more intensive individual- or class-based parenting programs for families of children with more challenging behavior problems. Triple P targets children up to 12 years old and provides approximately 24 months of intervention.

Evaluations included in the analysis of Triple P (System) are population-based trials that provide all levels (1-5) of the Triple P program to families. Evaluations limited to particular levels of Triple P (i.e., Triple P—Positive Parenting Program: Level 4, individual or Triple P—Positive Parenting Program: Level 4, group) are excluded from the analysis and analyzed separately.

### Benefit-Cost Summary Statistics Per Participant

#### Benefits to:

Taxpayers	\$983	Benefit to cost ratio	\$8.84
Participants	\$1,834	Benefits minus costs	\$2,681
Others	\$204	Chance the program will produce	
Indirect	\$2	benefits greater than the costs	71%
<b>Total benefits</b>	<b>\$3,023</b>		
<b>Net program cost</b>	<b>(\$342)</b>		
<b>Benefits minus cost</b>	<b>\$2,681</b>		

The estimates shown are present value, life cycle benefits and costs. All dollars are expressed in the base year chosen for this analysis (2022). The chance the benefits exceed the costs are derived from a Monte Carlo risk analysis. The details on this, as well as the economic discount rates and other relevant parameters are described in our [Technical Documentation](#).

## Meta-Analysis of Program Effects

Outcomes measured	Treatment age	No. of effect sizes	Treatment N	Adjusted effect sizes and standard errors used in the benefit-cost analysis						Unadjusted effect size (random effects model)	
				First time ES is estimated			Second time ES is estimated			ES	p-value
				ES	SE	Age	ES	SE	Age		
Child abuse and neglect	4	1	95686	-0.077	0.118	5	-0.077	0.118	17	-0.214	0.093
Out-of-home placement	4	1	95686	-0.047	0.141	5	-0.047	0.141	17	-0.132	0.361
Externalizing behavior symptoms	4	1	3022	-0.048	0.026	6	-0.026	0.019	9	-0.048	0.068
Internalizing symptoms	4	1	3022	-0.059	0.026	6	-0.059	0.026	8	-0.059	0.023

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](#).

## Detailed Monetary Benefit Estimates Per Participant

Affected outcome:	Resulting benefits: <sup>1</sup>	Benefits accrue to:				
		Taxpayers	Participants	Others <sup>2</sup>	Indirect <sup>3</sup>	Total
Child abuse and neglect	Criminal justice system	\$51	\$0	\$102	\$26	\$179
Child abuse and neglect	Child abuse and neglect	\$29	\$299	\$0	\$14	\$342
Out-of-home placement	Out-of-home placement	\$32	\$0	\$0	\$16	\$48
Child abuse and neglect	K-12 grade repetition	\$8	\$0	\$0	\$4	\$11
Child abuse and neglect	K-12 special education	\$125	\$0	\$0	\$62	\$187
Child abuse and neglect	Property loss associated with alcohol abuse or dependence	\$0	\$0	\$0	\$0	\$0
Externalizing behavior symptoms	Health care associated with externalizing behavior symptoms	\$99	\$28	\$102	\$50	\$279
Child abuse and neglect	Labor market earnings associated with child abuse & neglect	\$640	\$1,507	\$0	\$0	\$2,146
Child abuse and neglect	Mortality associated with child abuse and neglect	\$0	\$0	\$0	\$2	\$2
Program cost	Adjustment for deadweight cost of program	\$0	\$0	\$0	(\$171)	(\$171)
<b>Totals</b>		<b>\$983</b>	<b>\$1,834</b>	<b>\$204</b>	<b>\$2</b>	<b>\$3,023</b>

<sup>1</sup>In addition to the outcomes measured in the meta-analysis table, WSIPP measures benefits and costs estimated from other outcomes associated with those reported in the evaluation literature. For example, empirical research demonstrates that high school graduation leads to reduced crime. These associated measures provide a more complete picture of the detailed costs and benefits of the program.

<sup>2</sup>"Others" includes benefits to people other than taxpayers and participants. Depending on the program, it could include reductions in crime victimization, the economic benefits from a more educated workforce, and the benefits from employer-paid health insurance.

<sup>3</sup>"Indirect benefits" includes estimates of the net changes in the value of a statistical life and net changes in the deadweight costs of taxation.

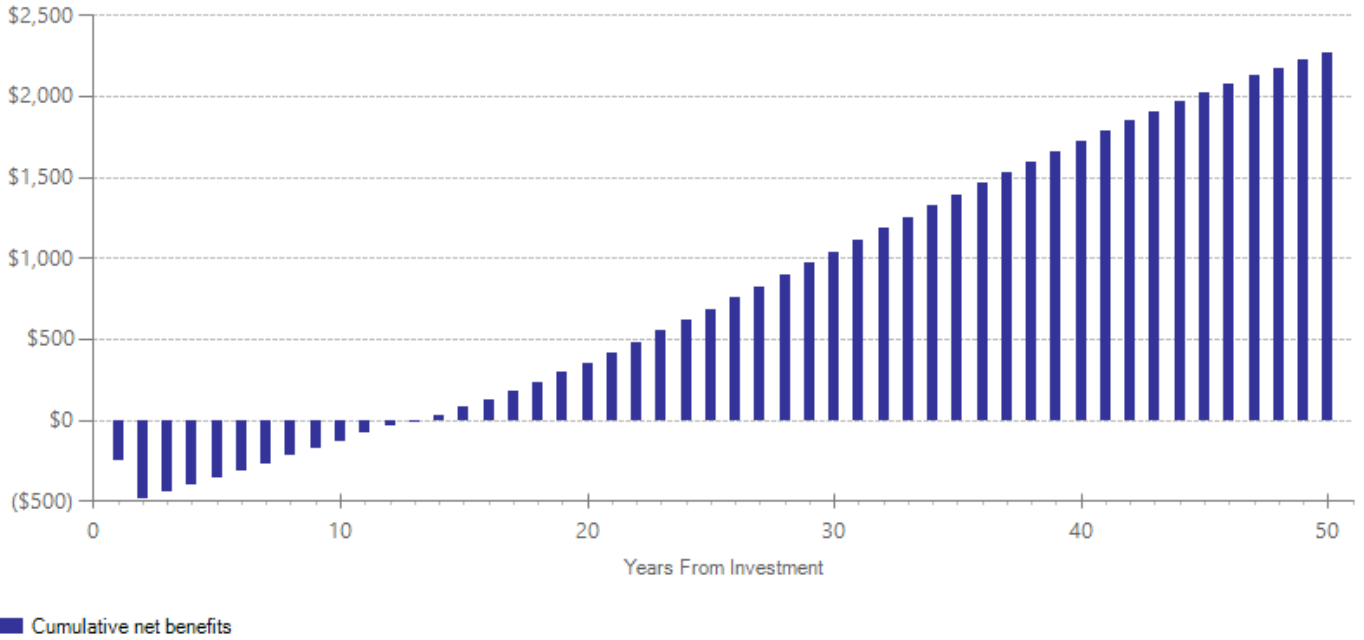
## Detailed Annual Cost Estimates Per Participant

	Annual cost	Year dollars	Summary	
Program costs	\$139	2011	Present value of net program costs (in 2022 dollars)	(\$342)
Comparison costs	\$0	2011	Cost range (+ or -)	50%

To calculate per-participant costs for Triple P (System) we first use the training costs for levels 2 through 5 summed from Foster, E.M., Prinz, R.J., Sanders, M.R., & Shapiro, C.J. (2008). The costs of public health infrastructure for delivering parenting and family support. *Children and Youth Services Review*, 30(5), 493-501. We then use the population information from the program evaluations to estimate the cost per child in the community. Level 4 and 5 parenting program costs resulted by multiplying the average Washington cost per family (provided by Kimberlee Shoecraft, WA Department of Social and Health Services, personal communication, April 2012) by the portion of the population assumed to receive the parenting program (approximately 10% of participants).

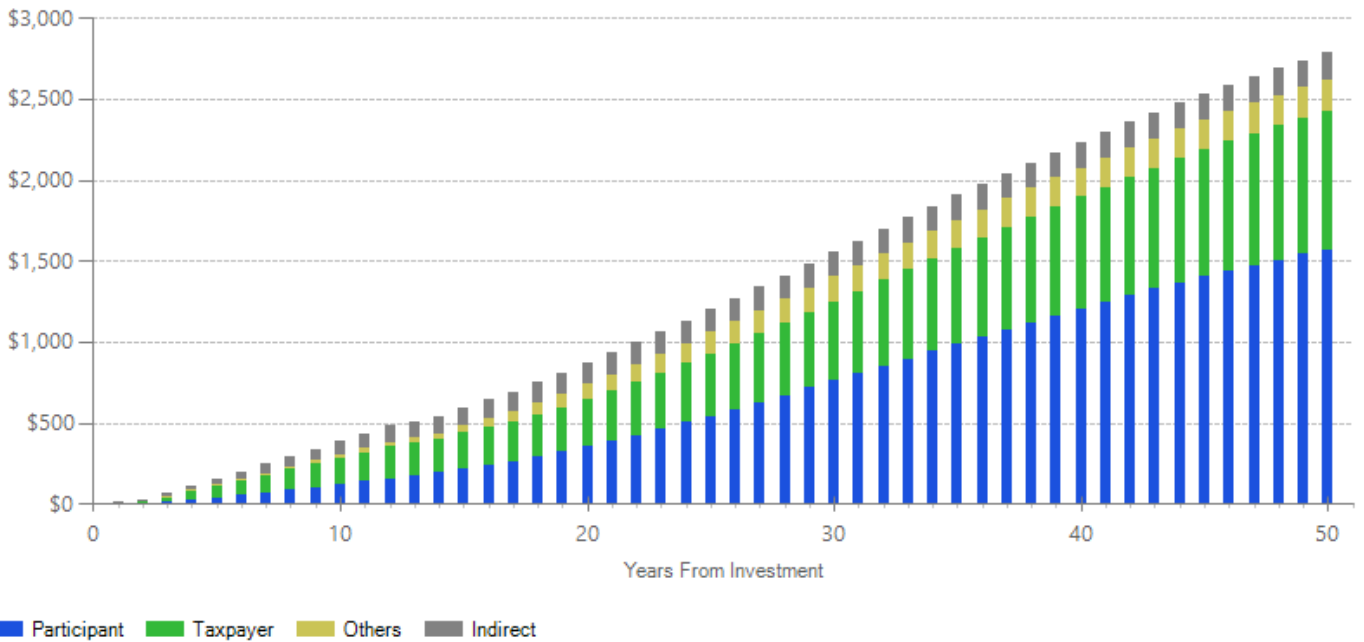
The figures shown are estimates of the costs to implement programs in Washington. The comparison group costs reflect either no treatment or treatment as usual, depending on how effect sizes were calculated in the meta-analysis. The cost range reported above reflects potential variation or uncertainty in the cost estimate; more detail can be found in our [Technical Documentation](#).

## Benefits Minus Costs Over Time (Cumulative Discounted Dollars)

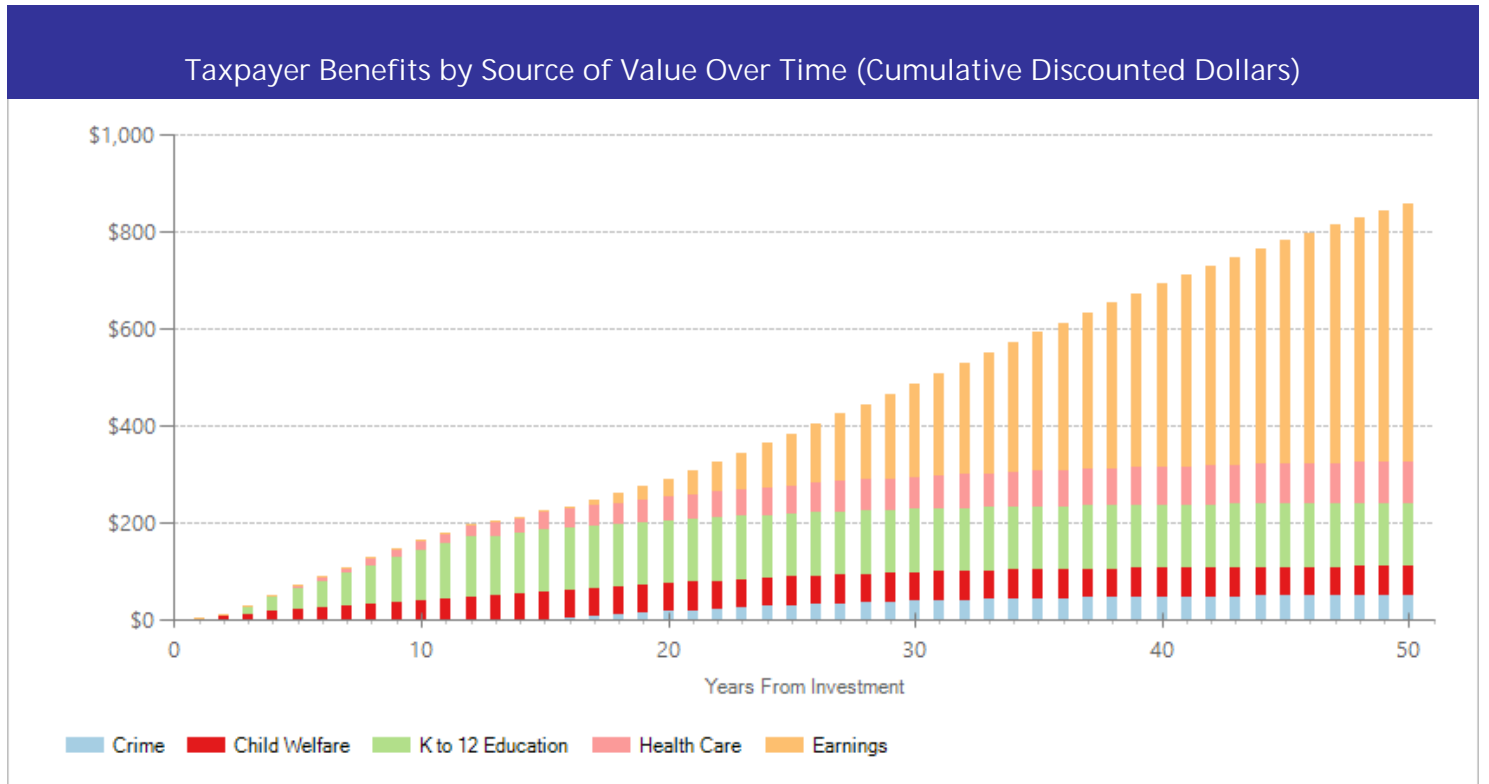


The graph above illustrates the estimated cumulative net benefits per-participant for the first fifty years beyond the initial investment in the program. We present these cash flows in discounted dollars. If the dollars are negative (bars below \$0 line), the cumulative benefits do not outweigh the cost of the program up to that point in time. The program breaks even when the dollars reach \$0. At this point, the total benefits to participants, taxpayers, and others, are equal to the cost of the program. If the dollars are above \$0, the benefits of the program exceed the initial investment.

## Benefits by Perspective Over Time (Cumulative Discounted Dollars)



The graph above illustrates the breakdown of the estimated cumulative benefits (not including program costs) per-participant for the first fifty years beyond the initial investment in the program. These cash flows provide a breakdown of the classification of dollars over time into four perspectives: taxpayer, participant, others, and indirect. "Taxpayers" includes expected savings to government and expected increases in tax revenue. "Participants" includes expected increases in earnings and expenditures for items such as health care and college tuition. "Others" includes benefits to people other than taxpayers and participants. Depending on the program, it could include reductions in crime victimization, the economic benefits from a more educated workforce, and the benefits from employer-paid health insurance. "Indirect benefits" includes estimates of the changes in the value of a statistical life and changes in the deadweight costs of taxation. If a section of the bar is below the \$0 line, the program is creating a negative benefit, meaning a loss of value from that perspective.



The graph above focuses on the subset of estimated cumulative benefits that accrue to taxpayers. The cash flows are divided into the source of the value.

## Citations Used in the Meta-Analysis

Prinz, R. J., Sanders, M. R., Shapiro, C. J., Whitaker, D. J., & Lutzker, J. R. (2009). Population-based prevention of child maltreatment: The U.S. Triple P system population trial. *Prevention Science, 10*(1), 1-12.

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