

## Additional Day of K-12 Instructional Time

### Program description:

The evaluations included in this analysis measure changes in the amount of instructional time in K-12 schools and subsequent impacts on student test scores and labor market earnings in adulthood. Some of the studies measured the effects of an average day and some measured the effects of additional time at the end of the year. We standardized those measures to approximate a change of one additional day.

Typical age of primary program participant: 10

Typical age of secondary program participant: N/A

### Meta-Analysis of Program Effects

Outcomes Measured	Primary or Secondary Participant	No. of Effect Sizes	Unadjusted Effect Sizes (Random Effects Model)			Adjusted Effect Sizes and Standard Errors Used in the Benefit-Cost Analysis					
			ES	SE	p-value	First time ES is estimated			Second time ES is estimated		
						ES	SE	Age	ES	SE	Age
Test scores	P	11	0.00	0.00	0.54	0.00	0.00	12	0.00	0.00	17

### Benefit-Cost Summary

The estimates shown are present value, life cycle benefits and costs. All dollars are expressed in the base year chosen for this analysis (2011). The economic discount rates and other relevant parameters are described in Technical Appendix 2.	Program Benefits				Costs	Summary Statistics				
	Parti-cipants	Tax-payers	Other	Other Indirect		Total Benefits	Benefit to Cost Ratio	Return on Invest-ment	Benefits Minus Costs	Probability of a positive net present value
		\$55	\$20	\$0	\$10	\$86	-\$27	\$3.18	6%	\$59

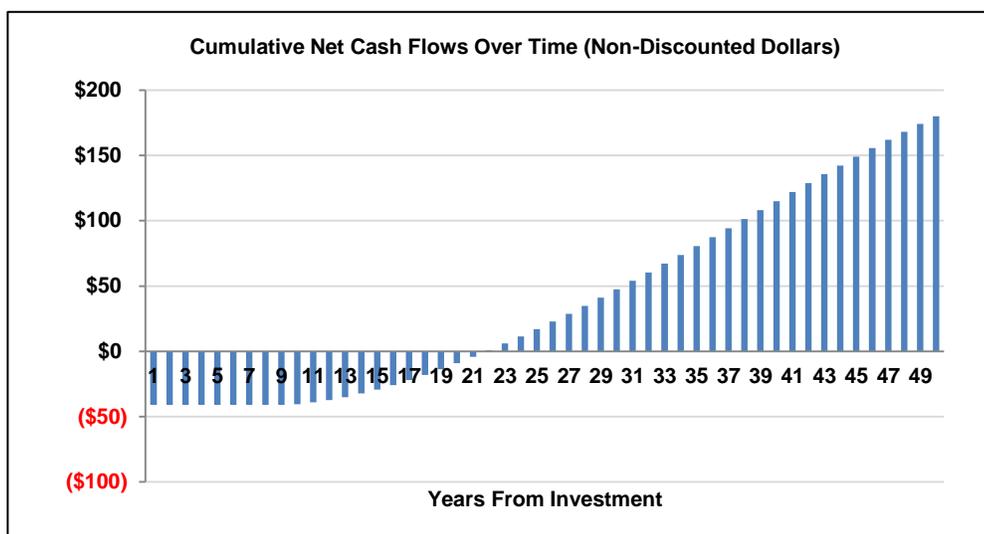
### Detailed Monetary Benefit Estimates

Source of Benefits	Benefits to:					Total Benefits
	Parti-cipants	Tax-payers	Other	Other In-direct		
Earnings via test scores	\$55	\$20	\$0	\$10		\$86

### Detailed Cost Estimates

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 uncertainty range is used in Monte Carlo risk analysis, described in Technical Appendix 2.	Program Costs			Comparison Costs			Summary Statistics	
	Annual Cost	Program Duration	Year Dollars	Annual Cost	Program Duration	Year Dollars	Present Value of Net Program Costs (in 2011 dollars)	Uncertainty (+ or - %)
		\$27	1	2011	\$0	1	2011	\$27

Source: Estimates for the per-student annual cost of adding one day to the school year were provided by Washington State legislative budget committee staff.



### Multiplicative Adjustments Applied to the Meta-Analysis

Type of Adjustment	Multiplier
1- Less well-implemented comparison group or observational study, with some covariates.	0.5
2- Well-implemented comparison group design, often with many statistical controls.	0.5
3- Well-done observational study with many statistical controls (e.g., instrumental variables).	0.75
4- Random assignment, with some implementation issues.	0.75
5- Well-done random assignment study.	1.00
Program developer = researcher	0.5
Unusual (not "real-world") setting	0.5
Weak measurement used	0.5

### Studies Used in the Meta-Analysis

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