REEVALUATING CRIMINAL SENTENCES AND POST-RELEASE SUPERVISION

I. OVERVIEW/SUMMARY

King County prosecutors and defense attorneys request, and judges routinely impose, affirmative conditions on top of (or in lieu of) a standard sentence. This is done despite the reality that community supervision has been virtually eliminated, enforcement of affirmative conditions is haphazard, and the efficacy of many treatment programs is questionable. Until now, we have failed to address this changed landscape and that failure has, in our estimation, done a disservice to citizens, crime victims, and defendants.

Because the current model has essentially collapsed due to a lack of postconviction supervision, the King County Prosecuting Attorney's Office (KCPAO) has undertaken a comprehensive review of the theory and practice surrounding this part of our practice. This paper is the product of that effort and covers four related topics. First, we outline the penal and legislative history that led away from rehabilitative ideals to the "just desserts" of the Sentencing Reform Act (SRA), and then the gradual shift back toward rehabilitative ideals embedded in the SRA through amendments like the creation of "affirmative conditions" and the Offender Accountability Act.

Second, we attempt to describe the current practice in King County surrounding affirmative conditions – particularly in light of state funding cuts that have decimated community supervision in Washington State – and the practical difficulties courts face in monitoring such conditions and sanctioning non-compliance.

Third, in light of this new reality, we propose immediate changes to our practice to end the use of affirmative treatment conditions for felony offenders who will not be supervised. Finally, our discussion ends with consideration of potential reforms informed by studies – nationally and in Washington State – that have demonstrated the efficacy of intense community supervision combined with scientifically-based risk-needs assessment of offenders, and community programs for selected offenders that are evidence-based and proven effective.

II. <u>HISTORY</u>

A. Origins of the SRA

For most of the twentieth-century, Washington's punishment system was built on a rehabilitative ideal that rested on the principle that people could be changed while under a criminal sentence.¹ "Indeterminate" sentences spanned a period of years and the length of incarceration depended on the offender's rehabilitative progress. The system was not wholly indeterminate, however, as mandatory minimum sentences and habitual offender sentences coexisted with the indeterminate scheme.

The Sentencing Reform Act of 1981 (SRA) grew out of a groundswell of dissatisfaction with the rehabilitative ideal. The reasons for dissatisfaction were many, including the failure of rehabilitative punishment, the realization that it did not sufficiently prevent recidivism, and criticism that indeterminate sentencing produced inequities among similarly situated offenders. There was also great public frustration that seemingly lengthy sentences were only partially served, as offenders were deemed "cured" and released into the community long before citizens felt release was appropriate. This lack of transparency led to demands for truth in sentencing; the idea that sentences should be unequivocal when imposed and that the sentence should actually be served. Citizens wanted to know what they could expect.

¹ For a more complete history of punishment in Washington, see D. Boerner, *Sentencing in Washington*, §2, at 2-1 to 2-26 (1985).

The SRA imposed a "just desserts" model of punishment in place of the rehabilitative model. In pursuit of this principle, the SRA established a standard range based on the offense type and prior criminal history. Judges were required to sentence within the range unless substantial and compelling reasons existed to depart from the range. Judicial discretion was channeled but not eliminated. The goal was to reduce disparities, increase fairness, and promote public confidence through transparency or "truth in sentencing." Emphasis was placed on confinement as the primary means to punish. In fact, the SRA did not originally allow sentencing courts to order treatment as a condition of sentence. There were no "affirmative conditions" or post-conviction supervision. Sentencing courts could impose affirmative treatment conditions only when the Court ordered a Special Sexual Offender Sentencing Alternative (SSOSA) or a First Time Offender Waiver (FTOW). "Reducing the risk of recidivism" through rehabilitation was not one of the original policies of the SRA.

B. The Rehabilitative Ideal Returns (Incrementally) and then Falters

Shortly after the SRA went into effect, some stakeholders began to lobby for crime-related treatment and supervision. In 1991, the Sentencing Guidelines Commission (Commission) concluded that the limited availability of treatment thwarted the objective that the law "offer. . . the offender an opportunity to improve him or herself."² The Commission's study came on the heels of a significant increase in drug prosecutions in the late 1980s,³ and the Legislature's 1988 decision to exclude VUSCA delivery cases from First-Time-Offender-Waiver (FTOW) eligibility. The Commission concluded that "while drug use is clearly associated with crime, treatment for this population is inadequate or unavailable." The Commission believed treatment could be

² RCW 9.94A.010.

³ Between 1986 and 1991, the number of drug sentences increased by 235%.

effective in reducing criminal behavior, both in prison and the community, whether or not the offender volunteered. As a result, the Commission endorsed two reforms: (1) allowing judges to impose treatment and affirmative conditions on offenders on supervision, and (2) creating a drug offender treatment option.

Some of the Commission's 1991 recommendations were adopted by the Legislature. In 1993, the Work Ethic Camp sentencing alternative was created. The following year, King County began the State's first Drug Diversion Court. In 1995, the Drug Offender Sentencing Alternative (DOSA) was created. Each of these changes incrementally shifted sentencing from the "just desserts" rationale of the SRA towards a treatment rationale, although the philosophical shift was not always expressly noted. The changes also placed greater demands on community corrections officers in the Department of Corrections (DOC) because affirmative conditions of sentence required monitoring of treatment.

Another important shift came with the passage of the Offender Accountability Act (OAA) in 1999. The OAA was designed to, among other things, streamline the process of enforcing sentencing conditions by moving most enforcement to administrative hearings. The OAA also added "risk reduction" to the listed purposes of the SRA. The Commission noted, "attempts to mitigate risks involve both crime-related prohibitions as well as imposition of affirmative acts intended to change characteristics of the individual offender." To this end, the OAA authorized sentencing courts to impose affirmative, rehabilitative, treatment conditions on offenders, both in confinement and in the community. The OAA also expanded the DOSA program to apply to all VUCSA crimes with sentences greater than one year, and required the DOC to use a research-based

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assessment tool to (1) classify all offenders based on their risk to re-offend, and (2) allocate supervision and treatment resources.

The Commission recognized that these collective changes represented a major departure from the original vision of the SRA: "These 'reforms' of the Sentencing Reform Act are all based upon premises rejected by the Legislature when [the Act] was adopted two decades ago." By adopting reforms to the Sentencing *Reform* Act, the Legislature tacitly endorsed the notion that imposing crime-related treatment conditions on offenders was compatible with the "just desserts" purposes of the original SRA.

Under the OAA, standardized risk assessments are used to decide which offenders would be supervised in the field. Unfortunately, risk assessments are done *after* sentencing, so the assessment is not available to prosecutors, defense counsel, or the sentencing judge. Thus began the practice in which courts imposed sentencing conditions that were never monitored or completed if the offenders scored too low to warrant active supervision. Prosecutors and judges who had expected treatment to follow conviction were disappointed to learn that treatment would not be monitored. This was especially frustrating for victims or witnesses who had been told that the offender would receive treatment in lieu of incarceration. Transparency suffered, and the effort to achieve "truth in sentencing" was once again beginning to falter.

The full impact of this shift is best understood by examining the number of offenders under supervision before and after the OAA. Before the passage of the OAA, the DOC's community supervision caseload included over 66,000 offenders. By 2006, the number of persons under supervision dropped to less than 30,000. See Appendix A.

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C. State Budget Cuts Further Undermine Rehabilitative Conditions of Sentence

The changes brought about by the OAA were compounded by the global recession that began in 2008 that further reduced Washington's ability to fund the community corrections officers who monitor compliance with sentence conditions.

In 2009, the Legislature wholly eliminated DOC supervision of (1) offenders convicted of virtually all misdemeanors and gross misdemeanors⁴ in Superior Court and, (2) felony offenders who were placed into the two lowest risk assessment categories. Currently, the number of people under supervision has dropped to about 18,000 offenders, and the number is unlikely to increase anytime soon. In fact, recently passed legislation further reduced the sanctions available for "high violent" offenders under active supervision. SB 6204.

Although sentencing courts are still empowered to *impose* treatment conditions on offenders, without actual supervision, nobody knows whether conditions are ever met. And it is safe to assume that they are routinely not met. Thus, while community safety and risk reduction continue to be the stated objectives of the SRA, and while these rehabilitative goals have been touted as replacements for incarceration, the Legislature's elimination of supervision for entire classes of offenders has resulted in thousands of unenforced sentences. For most offenders, compliance with court-ordered treatment is <u>unenforced</u> unless the sentencing court directly supervises the offender.⁵ To members of the public, who assume that sentence conditions will be monitored and completed, it is as though the court is sentencing defendants to a jail without doors.

⁴ Defendants convicted of Assault 4 or Violation of a DV Court orders are only supervised if the offender also has a prior conviction for another specific crime. No misdemeanors are supervised even if a mental health or substance abuse issue caused the crime.

⁵ The problems are exacerbated, of course, by the fact that funding for treatment is rare. Offenders may struggle to pay for treatment on their own, and may struggle to hold down full-time jobs because of the time and scheduling demands of treatment programs.

III. SENTENCING PRACTICES IN KING COUNTY

Over the years, King County has employed many sentencing alternatives that involve the use of affirmative conditions coupled with intensive supervision. King County Drug Court, King County Regional Mental Health Court (and Veterans Court) and even DOSA and SOSSA sentences are all used regularly in qualifying cases. Many of these alternatives have been proven effective when evaluated by the Washington State Institute for Public Policy (WSIPP) and others.

Beyond these specified programs are a broad group of cases involving different types of offenders and crimes in which we attempt to employ affirmative conditions (as a part of Community Supervision or Community Custody) in addition to a standard range sentence. These conditions typically utilize a program that operates without direct oversight of the courts or probation officers. Program conditions include substance abuse treatment, domestic violence batterer's treatment, mental health treatment, anger management, and a variety of others. Yet, decisions about when or which affirmative conditions to recommend is often made in trade-offs during negotiations, without sufficient relevant information about the likely effectiveness of the condition for a particular offender.

There is also wide variation in the courts about when to impose affirmative conditions, how to structure supervision in the judgment and sentence, how to monitor compliance during the period of supervision, and how to conduct review/non-compliance hearings. In cases where DOC was ordered to supervise but "closes out" its supervision due to a low risk assessment, prosecutors are not notified of failures to meet conditions. When prosecutors become aware that treatment conditions have not been met, we request reviews on select cases such as DUIs, vehicular assaults, vehicular homicides, assaults,

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and harassments. We pay particular attention to cases where a defendant is ordered to obtain mental health treatment, domestic violence treatment, parenting classes, or anger management. In VUCSA cases where treatment was ordered without DOC supervision, we do not routinely ask for review hearings unless there is also another violation, such as a failure to perform community service hours. In many cases, the KCPAO has simply stopped requesting review hearings because neither the courts nor this office can accommodate the volume of cases or provide the monitoring necessary to ensure compliance.

Courts, too, differ over how and when to enforce sentencing conditions where DOC supervision is absent. First, judges disagree over whether they have authority to enforce conditions in cases not supervised by DOC.⁶ Second, some courts feel that they cannot enforce a condition after the period of supervision has elapsed, but before the end of the court's jurisdiction. Third, some courts believe that even if supervision time remains, they cannot punish a lack of compliance if the defendant was never ordered to comply by a date certain.

There are also difficulties proving violations without a community corrections officer (CCO) as a witness. The State has the burden of showing noncompliance by a preponderance of the evidence. RCW 9.94A.6333(2)(b). It is difficult to meet this burden without a CCO, to whom the defendant reports, who can testify about noncompliance.

Some judges set review hearings to monitor compliance on their own, a practice known as "bench supervision." These judges set compliance dates and review hearings,

⁶ The prosecutor argues that courts always have authority to enforce a judgment and sentence and that the court retains this power until there is an order either terminating supervision or discharging the defendant pursuant to RCW 9.94A.637. <u>See State v. Zabroski</u>, 56 Wn. App. 263 (1989); <u>State v. Neal</u>, 54 Wn. App. 760 (1989); <u>State v. Johnson</u>, 54 Wn. App. 489 (1989).

in the judgment and sentence, and insert specific language that requires a defendant to provide proof of a completed condition. These "supervising" judges find it difficult to guide defendants to the necessary programs for compliance with the Judgment and Sentence. Unlike DOC community corrections officers, judges can't conduct home visits, contact treatment providers, or have ex parte contact with the defendant or third parties. Many judges, on the other hand, simply reject the concept of bench supervision outright. The uncertainty resulting from these different judicial views makes it difficult for the parties to make informed choices during plea negotiations.

IV. <u>A WAY FORWARD FOR THE KCPAO</u>

The KCPAO will continue to support, through its negotiation practices, the full use of King County Drug Court, King County Regional Mental Health Court (and Veterans Court), DOSA and SOSSA sentencing options. However, the current lack of community supervision resources described above demands at least two critical changes in the existing practice of the KCPAO. First, victims and the community deserve truth in sentencing. We will no longer recommend affirmative treatment conditions as an adjunct to standard range sentences unless we are assured that actual supervision by a CCO is likely to be imposed. Second, we will seek to expand sentencing options that combine a) scientifically based risk-needs assessment of offenders, with b) programs that are evidence-based and have been proven to be effective.

The first change is relatively straightforward. We will no longer recommend – and will advocate against – sentencing conditions and treatment options where there is no active supervision to ensure compliance. Moreover, we must assume that there will be no active supervision absent some clear shift in policy from the DOC. This change ensures

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"truth in sentencing" and recognizes the changed circumstances that make it impossible to meaningfully enforce sentencing conditions in the current environment. Supervision by a judge or prosecutor is simply not feasible.

The second change – expanding sentencing options that combine scientifically based risk-needs assessment of offenders with evidence-based programs – is equally important but will prove more difficult. We seek to build a system of intense community supervision for a select group of offenders. The system should take into account the individual risks and needs of the select group of offenders, and match those offenders with truly effective treatment programs. However, this will take time and commitment.

In the meantime, King County has a number of assets that can be used to reduce recidivism for those sentenced to jail time. The first is the existence of a well-regarded Community Corrections Program that runs a number of programs providing alternatives to confinement in our local jail. Although this program is not a substitute for community supervision by the Department of Corrections, it is an important resource that is managing offenders in the community through use of rehabilitative programming.

The second asset is the emerging body of research by the Department of Justice, WSIPP, and The Pew Center Regarding the States, all of which have begun to identify effective treatments and interventions. Such "evidence-based" criminal justice research has found some types of probation/supervision/treatment programs to be effective, and others ineffective, in reducing crime and recidivism.⁷

As an example, one recent legislatively-mandated study attempts to identify costeffective prevention and intervention programs and policies, and it provides an example

⁷ See Lee, S., Aos, S., Drake, E., Pennucci, A., Miller, M., & Anderson, L. (2012). Return on investment: Evidence-based options to improve statewide outcomes, April 2012 (Document No. 12-04-1201). Olympia: Washington State Institute for Public Policy; and The Pew Center on the States, *State of Recidivism: The Revolving Door of America's Prisons* (Washington, DC: The Pew Charitable Trusts, April 2011).

of how policy-making can be data-driven rather than anecdotal. WSIPP: *Return on Investment: Evidence-Based Options to Improve Statewide Outcomes* (Document No. 11-07-1201 and 12-04-1201).⁸ The results, released in July of 2011 and updated in April 2012, provide a ranking of criminal justice interventions by effectiveness. See Appendices B and C. An example of an effective program is DOSA. DOSA reduces prison time for addicted offenders in exchange for successful completion of drug treatment and supervision. If an offender fails to comply with drug treatment, the treatment portion of the sentence can be revoked and the original prison sentence reimposed. The program has been proven effective. Drug addicted offenders no longer face costly prison terms, their underlying addiction is treated, and the result is less crime. DOSA for drug defendants therefore provides a significant return on public investment.⁹

The WSIPP study also identifies ineffective programs. For example, Domestic Violence Perpetrator Programs, a.k.a. State Certified Domestic Violence Treatment, were shown to have very limited effect on recidivism and provide a negative return on investment. This finding is important because domestic violence treatment is the most common, and sometimes the only, legal response in criminal DV cases. If treatment for domestic violence is ineffective, prosecutors and courts should not tell victims that a batterer ordered into treatment is at a lower risk to batter again. Given the pervasiveness of domestic violence, ineffective interventions should not replace incapacitation of offenders. And, if better interventions exist, they need to be identified.

The third asset for King County is found in the work being done in the King County Pre-trial Risk Assessment project. That project, whose goal is to create a risk-

⁸ <u>See</u> Laws of 2009, ch. 564, § 610 (4), ESHB 1244. The study was a partnership between WSIPP and the MacArthur Foundation, which provided most of the funding.

⁹ On the other hand, WSIPP found DOSA for general felony offenders not successful.

assessment tool to predict risk of reoffense and failures to appear for pretrial defendants, has broad implications for other related projects. In short, the project represents a significant toehold into a future in which risk-assessment is embraced as a means to determine how and whether to manage offenders in the community.

A final component to any reform must do more than identify programs that work; effective and intensive supervision and sanctions must be coupled with any community treatment program.¹⁰ This point was further underscored in a recent report by WSIPP, *"What Works" in Community Supervision: Interim Report* (Document No. 11-12-1201) (2011). WSIPP found a meaningful recidivism reduction when offenders received treatment in combination with intense supervision.

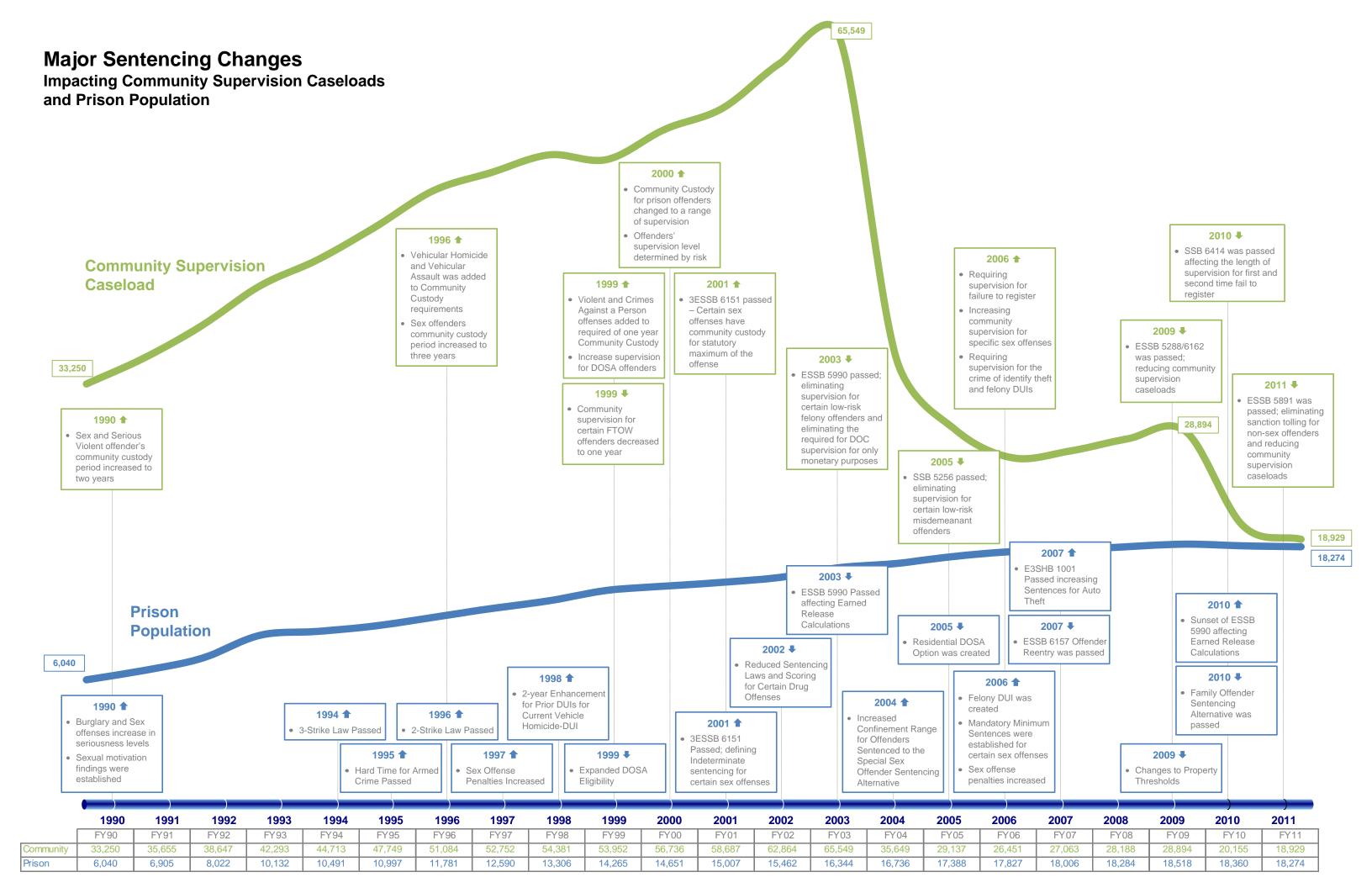
V. CONCLUSION

It is time to honestly appraise the changed landscape wrought by severe budget cuts, the profound drop in community supervision of offenders, and the emerging evidence-based sentencing research. The justice system can no longer pretend that most offenders will be supervised, or that traditional interventions are effective. The KCPAO believes the first step is to abandon practices that can no longer be sustained. At the same time, the KCPAO commits to help build a more effective model guided by the consensus of studies on offender recidivism: intense supervision for a select group of offenders based on individual risks and needs, combined with treatment programs that are proven effective. We recognize that this level of intervention may only be available in a relatively small number of cases (due to costs or program availability). But the alternative, in which the court or prosecutors attempt to make broad use of affirmative

¹⁰ See Taxman, F. (2002). Supervision—Exploring the Dimensions of Effectiveness. *Federal Probation*, 66(2), 14

conditions, without intense supervision, is a failed concept. In the final analysis, the community, victims, and offenders deserve assurance that criminal sentences are fair, in terms of being proportionate to the underlying crime, and effective in reducing crime and recidivism.

APPENDIX A



APPENDIX B

Washington State Institute for Public Policy

July 2011

Return on Investment: Evidence-Based Options to Improve Statewide Outcomes

—July 2011 Update—

The Washington State Legislature directed the Washington State Institute for Public Policy (Institute) to "calculate the return on investment to taxpayers from evidence-based prevention and intervention programs and policies."¹

In this update, we identify public policies that have been shown to improve the following outcomes:

- ✓ Child maltreatment
- ✓ Mental health
- ✓ Crime
- ✓ Public assistance
- Education
- ✓ Public health
- ✓ Labor earnings
- ✓ Substance abuse

This report presents our findings as of July 2011. Prior to the 2012 Washington legislative session, we will update and extend these results. The Legislature authorized the Institute to receive outside funding for this project; the MacArthur Foundation supported 80 percent of the work and the Legislature funded the other 20 percent.

The "big picture" purpose of this research is to help policy makers in Washington identify evidencebased strategies that can deliver better outcomes per dollar of taxpayer spending. In a time of fiscal constraint, this goal seems especially important.

This short report summarizes our current findings. Readers can download detailed results in two accompanying technical appendices.²

Background

In the mid-1990s, the legislature began to direct the Institute to undertake comprehensive reviews of "evidence-based" policy strategies. The initial efforts were in juvenile and adult criminal justice. We identified several juvenile justice and adult corrections' programs—not then operating in Washington—that had the potential to reduce crime and save Washington taxpayers money.³

Summary

The Washington State Institute for Public Policy was created by the 1983 Washington Legislature to carry out non-partisan research assignments.

The 2009 Legislature directed the Institute to "calculate the return on investment to taxpayers from evidence-based prevention and intervention programs and policies." The Legislature instructed the Institute to produce "a comprehensive list of programs and policies that improve . . . outcomes for children and adults in Washington and result in more cost-efficient use of public resources."

The current project continues a long-term effort in Washington to identify evidence-based ways to deliver better outcomes per taxpayer dollar. This short report summarizes our findings as of July 2011. Readers can download detailed results in two technical appendices.

In subsequent sessions, the legislature used the information to begin a series of policy reforms.⁴ Many "real world" lessons were learned about implementing these programs statewide.⁵

Today, the results of these crime-focused efforts appear to be paying off. Relative to national rates, juvenile crime has dropped in Washington, adult criminal recidivism has declined, total crime is down, and taxpayer criminal justice costs are lower than alternative strategies would have required.⁶

Suggested citation: Aos, S., Lee, S., Drake, E., Pennucci, A., Klima, T., Miller, M., Anderson, L., Mayfield, J., & Burley, M. (2011). *Return on investment: Evidence-based options to improve statewide outcomes* (Document No. 11-07-1201). Olympia: Washington State Institute for Public Policy.

¹ Laws of 2009, ch. 564, § 610 (4), ESHB 1244.

² http://www.wsipp.wa.gov/pub.asp?docid=11-07-1201

³ Aos, S., Barnoski, R., & Lieb, R. (1998). *Watching the bottom line: cost-effective interventions for reducing crime in Washington* (Document No. 98-01-1201), Olympia: Washington State Institute for Public Policy.

⁴ Barnoski, R. (2004). Outcome evaluation of Washington State's research-based programs for juvenile offenders (Document No. 04-01-1201), Olympia: Washington State Institute for Public Policy.

⁵ Barnoski, R. (2009). Providing evidence-based programs with fidelity

in Washington State juvenile courts: Cost analysis (Document No. 09-12-1201), Olympia: Washington State Institute for Public Policy.

⁶ http://www.wsipp.wa.gov/video_tvw21JAN2011.asp

In the early 2000s, the legislature began to direct the Institute to apply the same benefit-cost approach to other public policy areas, including K–12 education, early childhood education, child welfare, adult mental health, and substance abuse.⁷ This current project updates, refines, and extends these previous assignments.

Our ongoing goal is to provide policy makers with better "bottom-line" estimates each successive legislative session.

General Research Approach

Over the last decade, as we have carried out these assignments, we have been improving a four-step research approach.

- We systematically assess evidence on "what works" (and what does not) to improve outcomes.
- We calculate costs and benefits for Washington State and produce a *Consumer Reports*-like ranking of public policy options.
- 3) We measure the riskiness of our conclusions by testing how bottom lines vary when estimates and assumptions change.
- Where feasible, we provide a "portfolio" analysis of how a combination of policy options could affect statewide outcomes of interest.

For this project, we have also developed a software application to help legislative and executive staff use the information, and to respond to requests from other states.

- Aos, S., Miller, M., & Mayfield, J. (2007). Benefits and costs of k– 12 educational policies: Evidence-based effects of class size reductions and full-day kindergarten (Document No. 07-03-2201).
- Aos, S., Miller, M., & Drake, E. (2006). Evidence-based public policy options to reduce future prison construction, criminal justice costs, and crime rates (Document No. 06-10-1201).
- Aos, S., Mayfield, J., Miller, M., & Yen, W. (2006). Evidencebased treatment of alcohol, drug, and mental health disorders: Potential benefits, costs, and fiscal impacts for Washington State (Document No. 06-06-3901).
- Aos, S., Miller, M., & Drake E. (2006). Evidence-based adult corrections programs: What works and what does not (Document No. 06-01-1201).
- Aos, S., Lieb, R., Mayfield, J., Miller, M., & Pennucci A. (2004). Benefits and costs of prevention and early intervention programs for youth (Document No. 04-07-3901).

Step 1: What Works? In the first research step, we estimate the capability of various policies and programs to improve outcomes. We carefully analyze all high-quality studies from the United States and elsewhere to identify well-researched interventions that have achieved outcomes (as well as those that have not). We look for research studies with strong, credible evaluation designs, and we ignore studies with weak research methods. Our empirical approach follows a meta-analytic framework to assess systematically all relevant evaluations we can locate on a given topic.

Step 2: What Makes Economic Sense? Next,

we insert benefits and costs into the analysis by answering two questions.

- ✓ How much does it cost to produce the results found in Step 1?
- ✓ How much is it worth to people in Washington State to achieve the outcome? That is, in dollar and cents terms, what are the program's benefits?

To answer these questions, we developed—and continue to refine—an economic model that assesses benefits and costs. The goal is to provide an internally consistent valuation so that one option can be compared fairly to another. Our bottom line benefit-cost measures include standard financial statistics: net present values, benefit-cost ratios, and rates of return on investment.

We present these monetary estimates from three distinct perspectives: the benefits that accrue solely to program participants, those received by taxpayers, and any other measurable (nonparticipant and non-taxpayer) monetary benefits.

The sum of these three perspectives provides a "total Washington" view on whether a program produces benefits that exceed costs. Restricting the focus solely to the taxpayer perspective can also be useful for fiscal analysis and state budget preparation.

Step 3: Assessing Risk. The third analytical step involves testing the robustness of our results. Any tabulation of benefits and costs necessarily involves uncertainty and some degree of speculation about future performance. This is expected in any investment analysis, whether it is in the private or public sector. Therefore, it is important to understand how conclusions might change when assumptions are altered. To assess risk, we perform a "Monte Carlo simulation" in which we vary the key factors in our calculations. The purpose of the risk analysis is

⁷ Other benefit-cost studies prepared by the Washington State Institute for Public Policy for the legislature include:

[•] Lee, S., Aos, S., & Miller, M. (2008). Evidence-based programs to prevent children from entering and remaining in the child welfare system: Benefits and costs for Washington (Document No. 08-07-3901).

Aos, S., & Pennucci, A. (2007). Report to the Joint Task Force on Basic Education Finance: School employee compensation and student outcomes (Document No. 07-12-2201).

to determine the odds that a particular approach will at least break-even. This type of risk and uncertainty analysis is used by many businesses in investment decision making; we employ the same tools to test the riskiness of the public sector options considered in this report.

Step 4: Impacts on Statewide Outcomes. In the final analytic step, we estimate the degree to which a "portfolio" of programs and policies is likely to affect statewide outcomes. We initiated portfolio analysis in 2006, estimating how a combination of prevention, juvenile justice, and adult corrections' programs could influence Washington's crime rate, the need to build prisons, and overall state and local criminal justice spending.⁸ The legislature used this information in subsequent sessions to craft budget and policy decisions.⁹ In the near future, we anticipate expanding portfolio analysis to other outcomes such as high school graduation.

July 2011 Results

In this report, we summarize results from Steps 1, 2, and 3 of our research. We prepare a *Consumer Reports*-like list of what works and what does not, ranked by benefit-cost statistics and a measure of investment risk.

Bottom Line. We identify a number of evidencebased options that can help policy makers achieve desired outcomes as well as offer taxpayers a good return on their investment, with low risk of failure. Washington is already investing in several of these options. We also find other evidence-based options that do not produce favorable results.

Summary Table. In Exhibit 1, we have arranged the information by major topic area. Some programs listed, of course, achieve outcomes that cut across these topic areas. For each program, all the specific outcomes measured in the studies are described in the first technical appendix.

For some programs, we found insufficient information to allow a calculation of benefits and costs. We list these programs in each topic area, along with the reason for their exclusion. **Example.** To illustrate our findings, we summarize results for a program called Functional Family Therapy (FFT), designed for juveniles on probation. This program is listed in the juvenile justice topic area in Exhibit 1. FFT was originally tested in Utah. Washington began to implement the program in the mid-1990s. The legislature continues to fund FFT, and it is now used by many of Washington's juvenile courts.

- We reviewed all research we could find on FFT and found eight credible evaluations that investigated whether it reduces juvenile crime. The technical appendix provides specific information on the eight studies in our metaanalysis of FFT; for example, two of the eight were from Washington.
- In Exhibit 1, we show our estimate that FFT achieves total benefits of \$37,739 per FFT participant (2010 dollars). These benefits spring primarily from reduced juvenile crime, but also include labor market and health care benefits due to increased probability of high school graduation.
- Of the total \$37,739 in benefits, Exhibit 1 shows that we expect \$8,536 to be received by taxpayers and \$29,203 will accrue to others, primarily people who were not victimized by the avoided crimes.
- Exhibit 1 shows that the program costs \$3,190 per participant to implement in Washington.
- Exhibit 1 also displays our benefit-cost summary statistics for FFT. The net present value (benefits minus costs) is \$34,549, and the benefit to cost ratio (benefits divided by costs) is \$11.86. The internal rate of return on investment is an astounding 641 percent. Finally, when we performed a risk analysis of our estimated bottom line for FFT, we found that the program has a 99 percent chance of producing benefits that exceed costs.
- Thus, one would conclude that FFT is an attractive evidence-based program that reduces crime and achieves a favorable return on investment, with a small chance of an undesirable outcome. These are the central reasons why FFT continues to be part of Washington's crime-reduction portfolio.

As noted, in addition to the summary information displayed in Exhibit 1, we have prepared two technical appendices. The first appendix presents detailed results for each program summarized in Exhibit 1, while the second appendix provides a comprehensive description of the research methods used to compute the estimates.

⁸ Aos et al., 2006, Document No. 06-10-1201.

⁹ Laws of 2007, ch. 522 §203, SHB 1128.

Exhibit 1

Monetary Benefits and Costs of Evidence-Based Public Policies Summary of policy topics assigned to the Washington State Institute for Public Policy by the Washington State Legislature Estimates for Washington State, as of July 2011

Topic Area/Program	Mone	etary Ber	nefits	<u>Costs</u>	<u><u>S</u></u>	Summary S	Statistics	2
Benefits and costs are life-cycle present-values per participant, in 2010 dollars. While the programs are listed by major topic area, some programs attain benefits in multiple areas. Also, some programs achieve benefits that we cannot monetize. See Technical Appendix I for program-specific details.	Benefits	Taxpayer	Non- Taxpayer		Benefits Minus Costs (net present value)	Benefit to Cost Ratio ¹		Measure of Risk (odds of a positive net present value)
Juvenile Justice								
Aggression Replacement Training (Inst. ²)	\$66,954	\$13,669	\$53,285	(\$1,473)	\$65,481	\$45.50	n/e	93%
Functional Family Therapy (Inst.)	\$60,539	\$13,719	\$46,820	(\$3,198)	\$57,341	\$18.98	n/e	99%
Aggression Replacement Training (Probation)	\$36,043	\$8,144	\$27,898	(\$1,476)	\$34,566	\$24.44	n/e	93%
Functional Family Therapy (Probation)	\$37,739	\$8,536	\$29,203	(\$3,190)	\$34,549	\$11.86	641%	99%
Multidimensional Treatment Foster Care	\$40,787	\$8,343	\$32,443	(\$7,739)	\$33,047	\$5.28	142%	85%
Multisystemic Therapy (MST)	\$29,302	\$6,521	\$22,782	(\$7,206)	\$22,096	\$4.07	28%	91%
Family Integrated Transitions (Inst.)	\$27,020	\$5,448	\$21,572	(\$10,968)	\$16,052	\$2.47	17%	86%
Drug Court	\$12,737	\$2,859	\$9,878	(\$3,024)	\$9,713	\$4.22	38%	80%
Coordination of Services	\$5,270	\$1,340	\$3,930	(\$386)	\$4,884	\$13.63	444%	78%
Victim Offender Mediation	\$3,922	\$977	\$2,946	(\$566)	\$3,357	\$6.94	89%	90%
Scared Straight	(\$6,031)	(\$1,591)	(\$4,440)	(\$63)	(\$6,095)	n/e	n/e	1%
Cognitive Behavioral Therapy (CBT ³) (general) Diversion Programs Juvenile Boot Camp Team Child Teen Court Wilderness Challenge Programs	:	See previou See previou See previou See previou See previou	s WSIPP pub s WSIPP pub s WSIPP pub s WSIPP pub	blications for past blications for past blications for past blications for past blications for past blications for past	findings. findings. findings. findings.			
Adult Criminal Justice								
Dangerously Mentally III Offenders	\$103,596	\$24,391	\$79,205	(\$31,626)	\$71,969	\$3.28	19%	100%
Drug Offender Sentencing Alternative: drug offenders	\$28,013	\$6,680	\$21,333	(\$1,511)	\$26,502	\$18.57	n/e	99%
Correctional Education in Prison	\$19,923	\$4,785	\$15,138	(\$1,102)	\$18,821		n/e	100%
Electronic Monitoring	\$17,068	\$4,068	\$13,000	\$1,044	\$18,112		n/e	100%
Vocational Education in Prison	\$19,083	\$4,634	\$14,449	(\$1,537)	\$17,547		n/e	100%
Drug Treatment in the Community	\$15,419	\$3,671	\$11,748	(\$2,102)	\$13,317		n/e	100%
Drug Offender Sentencing Alternative: prop. offenders	\$14,324	\$3,410	\$10,914	(\$1,513)	\$12,811		n/e	76%
Mental Health Court	\$14,230	\$3,424	\$10,806	(\$2,878)	\$11,352		44%	100%
CBT (in prison)	\$10,741	\$2,588	\$8,153	(\$217)	\$10,524		n/e	99%
Drug Treatment in Prison	\$14,351	\$3,467	\$10,883	(\$3,894)	\$10,456		25%	100%
Intensive Supervision: with treatment	\$17,521	\$4,216	\$13,305	(\$7,712)	\$9,809		11%	96%
Drug Court CBT (in the community)	\$11,750 \$7,739	\$2,644 \$1,848	\$9,106 \$5,891	(\$4,099) (\$217)	\$7,651 \$7,522		18%	100% 99%
							n/e	
Work Release Correctional Industries in Prison	\$6,466 \$6,398	\$1,552 \$1,546	\$4,914 \$4,851	(\$649) (\$1,387)	\$5,817 \$5,011		n/e 36%	97% 100%
Community Employment Training/Job Assistance	\$6,398 \$4,641	\$1,546 \$1,104	\$4,851 \$3,537	(\$1,387) (\$132)	\$5,011 \$4,509			100%
Intensive Supervision: surveillance only	\$4,641 (\$556)	(\$132)	\$3,537 (\$424)	(\$132)	(\$4,606)		n/e n/e	100%
Domestic Violence Perpetrator Treatment Programs	(\$3,724)	(\$886)	(\$2,839)	(\$1,335)	(\$5,059)		n/e	20%
Adult criminal justice programs for which we have not Sex Offender Treatment Sex Offender Community Notification and Registration Adult Boot Camp Drug Treatment in Jail Jail Diversion for Mentally III Offenders Life Skills Education Restorative Justice for Lower-Risk Offenders		Review in pr Review in pr See previou See previou See previou See previou	ocess. ocess. s WSIPP pub s WSIPP pub s WSIPP pub s WSIPP pub	his time): plications for past plications for past plications for past plications for past	findings. findings. findings.			

	Exhib	it 1, cor	ntinued							
Topic Area/Program	<u>Mon</u>	etary Ber	<u>nefits</u>	<u>Costs</u>	<u>s</u>	ummary S	Statistics	<u>s</u>		
Benefits and costs are life-cycle present-values per articipant, in 2010 dollars. While the programs are sted by major topic area, some programs attain benefits in multiple areas. Also, some programs achieve benefits hat we cannot monetize. See Technical Appendix I for program-specific details.	Total Benefits	Taxpayer	Non- Taxpayer		Benefits Minus Costs (net present value)	Benefit to Cost Ratio ¹	Rate of Return on Invest- ment ¹	Measure of Risk (odds of a positive net present value)		
Child Welfare ⁴										
Nurse Family Partnership for Low-Income Families Incredible Years: Parent Training and Child Training Other Home Visiting Programs for At-Risk Families Healthy Families America Parent-Child Interaction Therapy: Disruptive Behavior Parent-Child Interaction Therapy: Child Welfare Intensive Family Preservation (Homebuilders®) Incredible Years: Parent Training Triple P ⁵ : Level 4, Individual Triple P: Level 4, Group Parents as Teachers Triple P: (Universal) Parent-Child Home Program Other Family Preservation (non-Homebuilders®) Child welfare programs for which we have not calculate Family Team Decision Making Structured Decision Making Structured Decision Making Subsidized Guardianship Intensive Case Management for Emotional Disturbance Flexible Funding via Title IV-E Waivers SafeCare Circle of Security	e	\$4,083 \$3,668 \$4,330 \$3,026 \$1,892 \$5,889 \$2,449 \$2,371 \$1,230 \$1,616 \$580 \$1,137 (\$52) and costs (See Technic See Technic Se	cal Appendix cal Appendix s WSIPP pub rocess. rocess. rocess. rocess. orous evaluati orous evaluati	for meta-analyti for meta-analyti lications for past ons to date. ons to date.	c results.	\$7.50 \$2.73 \$3.07 \$7.37 \$6.27 \$3.41 \$4.20 \$4.06 \$10.32 \$1.75 \$9.22 \$0.88 (\$0.02)	12% 5% 7% 31% 15% 4% 12% 19% n/e 5% 8% n/e n/e	89% 93% 84% 98% 91% 100% 99% 76% 79% 89% 74% 100% 48% 0%		
		I oo tew rigo	orous evaluati	ons to date.						
Pre-K to 12 Education	¢00 400	¢7.044	¢40.000	(\$7,400)	\$19,060	¢0.00	7%	1000/		
Early Childhood Education: Low-Income 3/4 Year Olds Reading Recovery (K-12 Tutoring)	\$26,480 \$19,017		\$19,236 \$14,528	(\$7,420) (\$1,863)	\$19,000			100% 83%		
Tutoring for English Language Learners (ELL)	\$13,243		\$10,066	(\$1,333)	\$11,910			65%		
K-12 Tutoring by Peers	\$11,937		\$9,099	(\$995)	\$10,942			74%		
Special Literacy Instruction: ELL	\$7,684		\$5,851	(\$275)	\$7,409			67%		
K-12 Tutoring by Adults	\$7,140		\$5,444	(\$1,940)	\$5,200			66%		
Early Head Start	\$13,793		\$9,380	(\$10,230)	\$3,563			47%		
K-12 Parent Involvement Programs	\$3,627		\$2,773	(\$813)	\$2,814			56%		
NBPTS ⁶ Certification Bonuses for Teachers	\$1,622		\$1,238	(\$67)	\$1,555			69%		
Additional Day of K-12 Instructional Time	\$105		\$80	(\$26)	\$79			53%		
Even Start	(\$1,511)		(\$1,151)	(\$4,050)	(\$5,561)			37%		
Pre-K to 12 education programs for which we have not Pre-K and Elementary Bilingual Instructional Programs K-12 Educator Professional Development Class Size Full-Day Kindergarten (vs. half-day) Increased Per-Student Expenditures Teacher Compensation-Pay for Degrees Teacher Compensation-Pay for Experience Teacher Compensation-Other Policies Social-Emotional Learning in Educational Settings Before- and After-School Programs Summer School Programs Instructional Aides Online Learning	5	See Technic See Technic See previou See previou See previou See previou	cal Appendix cal Appendix s WSIPP pub s WSIPP pub s WSIPP pub s WSIPP pub s WSIPP pub rocess. rocess. rocess. rocess. rocess.	his time): for meta-analyti for meta-analyti lications for past lications for past lications for past lications for past	c results. findings; an up findings; an up findings; an up findings; an up	odate is plann odate is plann odate is plann	ed for Dece ed for Dece ed for Dece	ember, 2011. ember, 2011. ember, 2011.		

	Exhibi	it 1, cor	ntinued					
Topic Area/Program	Mon	etary Bei	nefits	<u>Costs</u>	<u>s</u>	Summary S	Statistics	<u> </u>
Benefits and costs are life-cycle present-values per participant, in 2010 dollars. While the programs are listed by major topic area, some programs attain benefits in multiple areas. Also, some programs achieve benefits that we cannot monetize. See Technical Appendix I for program-specific details.	Total Benefits	Taxpayer	Non- Taxpayer		Benefits Minus Costs (net present value)	Benefit to Cost Ratio ¹	Rate of Return on Invest- ment ¹	Measure of Risk (odds of a positive net present value)
Children's Mental Health ⁷								
Parent CBT for Anxious Children Individual CBT for Anxious Children Group CBT for Anxious Children CBT for Depressed Adolescents Brief Strategic Family Therapy (BSFT) MMT ⁸ for Children with Disruptive Behavior Disorders BPT ⁹ for Children with ADHD BPT for Children with ADHD CBT for Children with ADHD CBT for Children with ADHD CBT for Children with ADHD MST ¹⁰ for Serious Emotional Disturbance Children's mental health programs for which we have r Trauma-focused CBT Families & Schools Together (FAST) program Remote CBT for Anxious Children CBT for Depressed Children Interpersonal Therapy for Depressed Adolescents Social Skills Training for Depressed Adolescents Primary Care Interventions for Depressed Youth Behavioral Treatment for Socially Phobic Youth Group CBT for Anxious Adolescents		\$2,936 ed benefits Review in p Review in p Too few rigo Too few rigo Too few rigo Too few rigo Too few rigo Too few rigo Too few rigo	\$8,346 \$6,011 \$3,214 \$3,473 \$2,560 \$2,307 \$8,611 \$1,466 \$4,425 and costs (rocess; result	(\$718) \$384 (\$474) (\$501) (\$1,245) \$104 \$103 (\$8,167) (\$963) (\$6,366) at this time): is planned for De- is p		\$18.21 n/e \$17.93 \$9.27 \$4.16 n/e \$1.45 \$2.08 \$1.16	24% n/e 33% n/e 24% n/e 5% 8%	83% 83% 90% 82% 63% 84% 73% 48% 51% 67%
Interventions for Suicidal Youth Attentional Training for ADHD Children Social Skills Training for Children with ADHD		Too few rigo Too few rigo	prous evaluat prous evaluat prous evaluat	ions to date. ions to date.				
General Prevention Youth Mentoring Programs (taxpayer costs only)	\$23,445	\$6,229	\$17,216	(\$1,434)	\$22,010	\$16.52	16%	94%
Youth Mentoring Programs (total costs)	\$23,445 \$24,785	\$6,672			\$22,010			94 % 82%
Good Behavior Game	\$14,508	\$4,137	\$10,371	(\$150)	\$14,358			100%
Seattle Social Development Project	\$6,237	\$1,952			\$3,279		9%	61%
Promoting Alternative Thinking Strategies (PATHS)	\$1,460	\$483	\$977		\$1,348			66%
Quantum Opportunities Program	\$24,377	\$7,670	\$16,706		(\$885)			47%
Children's Aid SocietyCarrera	\$7,612		\$5,327	,	(\$6,308)		n/e	38%
Fast Track	\$3,693		\$2,674		(\$53,800)			0%
General prevention programs for which we have not ca Strengthening Families Program For Parents and You CASASTART Guiding Good Choices	th 10-14	See previou See previou	s WSIPP put s WSIPP put	s time): blications for past blications for past blications for past	findings; an up	odate is plann	ed for Dece	ember, 2011.
Substance Abuse								
Motivational Interviewing/Enhancement: Smoking	\$7,129	\$277	\$6,853	(\$201)	\$6,928	\$35.44	n/e	89%
Motivational Interviewing/Enhancement: Alcohol	\$6,768	\$1,408	\$5,360	(\$202)	\$6,566	\$33.56	n/e	99%
Motivational Interviewing/Enhancement: Cannabis	\$3,867	\$1,042	\$2,825	(\$202)	\$3,665	\$19.18	n/e	93%
BASICS ¹¹	\$2,216	\$555	\$1,662	(\$221)	\$1,995	\$10.04	n/e	86%
Motivational Interviewing/Enhancement: Illicit Drugs	\$2,010	\$596	\$1,414	(\$202)	\$1,808	\$9.96	n/e	80%
Life Skills Training	\$1,415	\$360	\$1,055	(\$34)	\$1,382	\$42.13	n/e	88%
Project Towards No Drug Abuse (TND)	\$243	\$60	\$183	(\$14)	\$229	\$17.31	n/e	99%

opic Area/Program M enefits and costs are life-cycle present-values per articipant, in 2010 dollars. While the programs are sted by major topic area, some programs attain benefits multiple areas. Also, some programs achieve benefits at we cannot monetize. See Technical Appendix I for rogram-specific details. Tota Benefit Substance abuse prevention and treatment programs for whic CBT for Substance Abusers Relapse Prevention Project Alert Tota	ts Taxpayer	<u>Costs</u>	Summary Benefits Benefit to Minus Costs Cost Ratio (net present	Rate of	Measure of
articipant, in 2010 dollars. While the programs are sted by major topic area, some programs attain benefits multiple areas. Also, some programs achieve benefits at we cannot monetize. See Technical Appendix I for ogram-specific details. Substance abuse prevention and treatment programs for whic CBT for Substance Abusers Relapse Prevention	ts Taxpayer		Minus Costs Cost Ratio		
multiple areas. Also, some programs achieve benefits at we cannot monetize. See Technical Appendix I for ogram-specific details. Substance abuse prevention and treatment programs for whic CBT for Substance Abusers Relapse Prevention			(net present		
at we cannot monetize. See Technical Appendix I for rogram-specific details. Substance abuse prevention and treatment programs for whic CBT for Substance Abusers Relapse Prevention				Invest- ment ¹	(odds of a positive net
rogram-specific details. Substance abuse prevention and treatment programs for whic CBT for Substance Abusers Relapse Prevention			value)	ment	present
Substance abuse prevention and treatment programs for whic CBT for Substance Abusers Relapse Prevention					value)
Relapse Prevention		enefits and cost	ts (at this time):		
	Review in process; resul				
	Review in process; resul		cemper, 2011. findings; an update is plan	nod for Docr	mbor 2011
Midwestern Prevention Project			findings; an update is plan		
Project Towards No Tobacco Use			findings; an update is plan		
All Stars			findings; review in process		
Minnesota Smoking Prevention Program		olications for past	findings; review in process		
Brief Interventions for Substance Abuses	Review in process				
Pharmacotherapies for Substance Abuse Project Northland	Review in process See previous WSIPP pul	lications for past	findings		
DARE	See previous WSIPP pul				
			-		
Adult Mental Health					
See Technical Appendix I for meta-analytic results for adult mental benefits and costs for these programs.				d our compu	itation of
CBT for Adult Anxiety	See Technical Appendix				
CBT for Adult Depression Remote CBT	See Technical Appendix				
Treatments for Post-Traumatic Stress Disorder	Review in process; an up Review in process; an up				
Eye Movement Desensitization and Reprocessing	Review in process.		01 200011001, 2011.		
Day Programs for Mentally III Adults	Review in process.				
Psychotherapies for Bipolar Disorder	Review in process.				
Family Therapies for Adults With Schizophrenia or Bipolar Primary Care Interventions for Depression	Review in process. Review in process.				
Thinkiy Care Interventions for Depression	Neview in process.				
Public Health					
See Technical Appendix I for meta-analytic results for prevention p of benefits and costs for these programs.	ograms targeting teen preg	nancy and obesity	/. We have not have not co	mpleted our	computation
Teen Pregnancy Prevention:					
Postponing Sexual Involvement	See Technical Appendix				
School-Based Service Learning School-Based Sexual Education	See Technical Appendix	,			
Teen Outreach Program	See Technical Appendix See Technical Appendix				
Adolescent Sibling Pregnancy Prevention	See Technical Appendix	,			
Obesity Prevention:					
School Programs for Healthy Eating	See Technical Appendix				
School Programs for Physical Activity	See Technical Appendix				
School Programs for Healthy Eating & Physical Activity Early Child Care Nutrition & Physical Activity	See Technical Appendix Too few rigorous evaluat				
Taxes on Sweetened Beverages and Snack Food	Too few rigorous evaluat				
Nutrition Labeling on Menus $\widetilde{\&}$ Posting Nutritional Information	Too few rigorous evaluat				
lousing					
See Technical Appendix I for meta-analytic results for housing prog not completed our computation of benefits and costs for these prog		to the community	y and adults with mental illr	ess. We ha	ve not have
Housing Supports for Offenders Returning to the Community	See Technical Appendix	I for meta-analyti	c results.		
Housing Support for Adults With Mental Illness	See Technical Appendix				
Housing Supports for Serious Violent Offenders	See Technical Appendix	-			

¹ Benefit to cost ratios and return on investment statistics cannot be computed in every case; we list "n/e" for those that cannot be reliably estimated.

² Inst. = state institutionalized juvenile justice populations

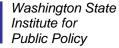
 3 CBT = Cognitive Behavioral Therapy 4 Under the child welfare heading, we include several behavioral parent training programs administered by Washington State's child welfare system. These programs also apply to children's mental health.

- ⁵ Triple-P = Triple-P Positive Parenting Program ⁶ NBPTS = National Board for Professional Teaching Standards
- ⁷For specific behavioral parent training programs currently administered by Washington State's child welfare system, see the Child Welfare topic heading.
- ⁸ MMT = Multimodal Therapy
- ⁹BPT = Behavioral Parent Training

¹⁰ MST = Multisystemic Therapy
 ¹¹ BASICS = Brief Alcohol Screening and Intervention of College Students

For further information, contact Steve Aos at saos@wsipp.wa.gov

Document No. 11-07-1201



The Washington Legislature created the Washington State Institute for Public Policy in 1983. The Institute is governed by a Board of Directors that represents the legislature, governor, and public universities. The Board guides the development of all Institute activities. The mission of the Institute is to assist policymakers, particularly those in the legislature, in making informed judgments about important, long-term issues facing Washington State.

APPENDIX C

Washington State Institute for Public Policy

April 2012

Return on Investment: Evidence-Based Options to Improve Statewide Outcomes

—April 2012 Update—

In the mid-1990s, the Washington State Legislature first began to direct the Washington State Institute for Public Policy (Institute) to identify "evidencebased" policies that have been shown to improve particular outcomes.

The motivation for these assignments is straightforward: to provide Washington policymakers and budget writers with a list of well-researched policies that can, with a high degree of probability, lead to better statewide results and a more efficient use of taxpayer dollars.

This short report provides a snapshot, as of April 2012, of our current list of evidence-based policy options on many public policy topics. Where possible, we provide an independent assessment of the benefits and costs of each option from the perspective of Washington citizens and taxpayers.

In essence, this report is similar to an investment advisor's "buy-sell" list—it contains current recommendations on policy options that can give taxpayers a good return on their investment ("buys"), as well as those that apparently cannot ("sells"). **This report replaces previously published Institute reports on these topics.**

We will occasionally add or update results for individual policy options on our website as new information becomes available. Exhibit 1 of this report includes hyperlinks to detailed results for each program.

Suggested citation: Lee, S., Aos, S., Drake, E., Pennucci, A., Miller, M., & Anderson, L. (2012). *Return on investment: Evidence-based options to improve statewide outcomes*, *April 2012* (Document No. 12-04-1201). Olympia: Washington State Institute for Public Policy.

Background

The Institute was created by the 1983 Washington Legislature to carry out non-partisan research at legislative direction.

The 1997 Legislature directed the Institute to review "evidence-based" policy strategies in juvenile justice and adult corrections. We identified several programs that had been tried and evaluated elsewhere but were not then operating in Washington. We found that some, but not all, programs had the potential to reduce crime and save Washington taxpayers money.¹ In subsequent sessions, the legislature used the information to begin a series of policy reforms.² Many practical lessons have been learned about how to implement these programs with fidelity statewide.³

Based on this initial success, in the early 2000s the legislature began to direct the Institute to apply the same evidence-based and benefit-cost approach to other public policy areas, including K–12 education, early childhood education, prevention, child welfare, mental health, substance abuse, and public health.⁴

In this report, we discuss our research approach and summarize our current results on these topics.

General Research Approach

As we have carried out these legislative assignments, we have been implementing a three-step research approach.

- 1) We systematically assess evidence on "what works" (and what does not) to improve outcomes.
- We calculate costs and benefits for Washington State and produce a ranking of public policy options.
- We measure the riskiness of our conclusions by testing how bottom lines vary when estimates and assumptions change.

A brief description of each step follows.

Step 1: What Works? What Doesn't?

In the first research step, we estimate the probability that various policies and programs can improve outcomes. Once the legislature has indicated an outcome of interest, we then carefully analyze all high-quality studies from the United States and elsewhere to identify well-researched policy options that have achieved the outcome (as well as those that have not). We look for research studies with strong evaluation designs; we ignore studies with weak research methods. Our empirical approach then follows a meta-analytic framework to assess systematically all credible evaluations we can locate on a given topic. We produce an estimated effect of a policy on a particular outcome of interest, as well as an estimate of the margin of error in that effect.

Step 2: What Makes Economic Sense?

Next, we insert benefits and costs into the analysis by answering two questions.

- ✓ How much does it cost to produce the results found in Step 1?
- ✓ How much is it worth to people in Washington State to achieve the outcome? That is, in dollar and cents terms, what are the program's benefits?

To answer these questions, we have developed and we continue to refine—an economic model that assesses benefits and costs. The goal is to provide an internally consistent monetary valuation so that one option can be compared fairly to another. Our bottom line benefit-cost measures include standard financial statistics: net present values, benefit-cost ratios, and rates of return on investment.

We present these monetary estimates from three distinct perspectives: the benefits and costs that accrue solely to program participants, those received by taxpayers, and those received by other people in society (for example, crime victims).

The sum of these three perspectives provides a "total Washington" view on whether a policy or program produces benefits that exceed costs. Our model can also restrict the focus solely to the taxpayer perspective which can be useful for fiscal analysis and state budget preparation.

Step 3: Assessing the Riskiness of the Estimates.

The third analytical step involves testing the robustness of our results. Any tabulation of benefits and costs involves some degree of speculation about future performance. This is expected in any investment analysis, whether it is in the private or public sector. To assess the riskiness of our conclusions, we perform a "Monte Carlo simulation" in which we vary the key factors in our calculations. The purpose of the risk analysis is to determine the odds that a particular policy option will at least break even. This type of analysis is used by many businesses in investment decision making.

Thus, for each option, we produce two "big picture" findings: expected benefit-cost results (net present values and rates of return) and, given our understanding of the risks involved, the odds that the policy will at least have benefits greater than costs.

Changes Since the July 2011 Update

Since the Institute's benefit-cost findings were last published in July 2011, several findings have changed substantially, due to improvements in our benefit-cost methodology. The changes affect our previous results in two major ways, one that affects a particular topic area, and another that cuts across all topic areas.

First, we changed the method by which we monetize children's mental health disorders to more closely match the methods we use to monetize adult mental health disorders. The benefit-cost model is now able to distinguish between the effects of preventing disruptive behavior disorders compared to the effects of treating youth who already have these disorders. The effect of this modeling change, relative to our July 2011 findings, lowers the expected benefits of programs that affect child externalizing behaviors.

Second, we have updated our methods to avoid "double counting" benefits from a single monetary source. For instance, a program evaluation that measures high school graduation rates, test scores, and disordered alcohol use would be monetized, in part, via changes to lifetime earnings in the labor market from each of these outcomes. In the former version of our model, to avoid double counting, we allowed the highest of these three values to "trump" the other values. We discovered that, in a Monte Carlo simulation, consistently selecting the highest of the three values biased the results in a positive direction, and may not have accurately represented the expected monetary benefits of a policy. Thus our prior trumping method favored policies that measured multiple outcomes in their evaluations; for example, the more ways a study measured impacts on labor market earnings, the more likely our previous model would have estimated a positive overall benefit.

In the current update, we have improved our trumping method by taking a weighted average of all outcomes that derive benefits from a single monetary source. Using the new method, we more accurately represent the expected benefits from programs that measure multiple outcomes. This modeling change lowered the estimated benefits of a number of programs that measured certain monetary benefits through multiple outcomes.

For more detail on these modeling changes, see the <u>technical appendix</u>.⁵

April 2012 Results

In this report, we summarize our results in a *Consumer Reports*-like list of what works and what does not, ranked by benefit-cost statistics and a measure of investment risk. We identify a number of evidence-based options that can help policy makers achieve desired outcomes as well as offer taxpayers a good return on their investment, with low risk of failure. Washington is already investing in several of these options. We also find other evidence-based options that do not produce favorable results.

In Exhibit 1, we have arranged the information by major topic. Some programs listed, of course, achieve outcomes that cut across these topics. The documents hyperlinked to the program titles in this exhibit provide comprehensive outcome information.

For some programs, insufficient information was available to allow a calculation of benefits and costs. We list these programs in each topic area, along with the reason for their exclusion.

Example: How to Read Exhibit 1.

To illustrate our findings, we summarize results for a program called Functional Family Therapy (FFT), designed for juveniles on probation. This program is listed under the topic of juvenile justice in Exhibit 1. FFT was originally tested in Utah; Washington began to implement the program in the mid-1990s. The legislature continues to fund FFT, and it is now used by many Washington juvenile courts.

We reviewed all research we could find on FFT and found eight credible evaluations that investigated whether it reduces crime. The appendix linked in Exhibit 1 provides specific information on the eight studies in our meta-analysis of FFT.

 In Exhibit 1, we show our estimate of the total benefits of FFT per participant (2011 dollars). These benefits spring primarily from reduced crime, but also include labor market and health care benefits due to increased probability of high school graduation.

- Of the total benefits, Exhibit 1 shows that we expect some to be received by taxpayers and the majority to accrue to others, including the participants and people who were not victimized.
- Exhibit 1 also shows our estimates of the program costs per participant in Washington.
- The columns in the right-hand side of Exhibit 1 display our benefit-cost summary statistics for FFT. We show the net present value (benefits minus costs), and the benefit-to-cost ratio. Finally, we show the results of a risk analysis of our estimated bottom line for FFT.
- Based on these findings, one would conclude that FFT is an attractive evidence-based program that reduces crime and achieves a favorable return on investment, with a small chance of an undesirable outcome. These are the central reasons why FFT continues to be part of Washington's crime-reduction portfolio.

In addition to the summary information displayed in Exhibit 1, we have prepared supplementary documents. The individually linked documents provide detailed results for each option summarized in Exhibit 1, while the technical appendix provides a comprehensive description of the research methods used to compute the results.

⁴ Previous benefit-cost studies prepared by the Washington State Institute for Public Policy for the legislature include:

- Aos, S., Lee, S., Drake, E., Pennucci, A., Klima, T., Miller, M., Anderson, L., Mayfield, J., & Burley, M. (2011). *Return on investment: evidence-based options to improve statewide outcomes - July 2011 update -* (Document No. 11-07-1201).
- Lee, S., Aos, S., & Miller, M. (2008). Evidence-based programs to prevent children from entering and remaining in the child welfare system: Benefits and costs for Washington (Document No. 08-07-3901).
- Aos, S., & Pennucci, A. (2007). Report to the Joint Task Force on Basic Education Finance: School employee compensation and student outcomes (Document No. 07-12-2201).
- Aos, S., Miller, M., & Mayfield, J. (2007). Benefits and costs of k–12 educational policies: Evidence-based effects of class size reductions and full-day kindergarten (Document No. 07-03-2201).
- Aos, S., Miller, M., & Drake, E. (2006). Evidence-based public policy options to reduce future prison construction, criminal justice costs, and crime rates (Document No. 06-10-1201).
- Aos, S., Mayfield, J., Miller, M., & Yen, W. (2006). Evidence-based treatment of alcohol, drug, and mental health disorders: Potential benefits, costs, and fiscal impacts for Washington State (Document No. 06-06-3901).
- Aos, S., Lieb, R., Mayfield, J., Miller, M., & Pennucci A. (2004). Benefits and costs of prevention and early intervention programs for youth (Document No. 04-07-3901).
- ⁵ www.wsipp.wa.gov/rptfiles/12-04-1201B.pdf.

¹ Aos, S., Barnoski, R., & Lieb, R. (1998). *Watching the bottom line: cost-effective interventions for reducing crime in Washington* (Document No. 98-01-1201), Olympia: Washington State Institute for Public Policy.

² Barnoski, R. (2004). Outcome evaluation of Washington State's researchbased programs for juvenile offenders (Document No. 04-01-1201), Olympia: Washington State Institute for Public Policy.

³ Drake, E.K. (2010). Washington State juvenile court funding: Applying research in a public policy setting. (Document No. 10-12-1201), Olympia: Washington State Institute for Public Policy. See also: Barnoski, R. (2009). Providing evidence-based programs with fidelity in Washington State juvenile courts: Cost analysis (Document No. 09-12-1201), Olympia: Washington State Institute for Public Policy.

Summary of policy topics assigned to the Washington State Institute for Public Policy by the Washington State Legislature Estimates for Washington State, as of April 2012

Горіс Area/Program	Last	Mon	netary Ben	ofite	Costs	Sum	mary Stati	etice
Benefits and costs are life-cycle present-values per participant, in 2011 follars. The programs are listed by major topic area, although some programs achieve benefits in multiple areas. Also, some programs achiev penefits that we cannot monetize; see linked documents for program- specific details.	Last Updated		Taxpayer	Non- Taxpayer			Benefit to Cost Ratio ¹	
Juvenile Justice								
Functional Family Therapy (Institutions ²)	April 2012	\$70,370	\$14,476	\$55,895	(\$3,262)	\$67,108	\$21.57	100%
Aggression Replacement Training (Institutions)	April 2012	\$62,947	\$12,972	\$49,976	(\$1,508)	\$61,440	\$41.75	94%
Multidimensional Treatment Foster Care	April 2012	\$39,197	\$8,165	\$31,032	(\$7,922)	\$31,276	\$4.95	85%
Functional Family Therapy (Probation)	April 2012	\$33,967	\$8,052	\$25,916	(\$3,261)	\$30,706	\$10.42	100%
Aggression Replacement Training (Probation)	April 2012	\$31,249	\$7,423	\$23,826	(\$1,510)	\$29,740	\$20.70	96%
Multisystemic Therapy (MST)	April 2012	\$32,121	\$7,138	\$24,983	(\$7,370)	\$24,751	\$4.36	98%
Family Integrated Transitions (Institutions)	April 2012	\$28,137	\$5,751	\$22,386	(\$11,219)	\$16,918	\$2.51	91%
Drug Court	April 2012	\$13,667	\$3,084	\$10,583	(\$3,091)	\$10,576	\$4.42	94%
Coordination of Services	April 2012	\$5,501	\$1,412	\$4,089	(\$395)	\$5,106	\$13.94	82%
Victim Offender Mediation	April 2012	\$4,205	\$1,080	\$3,125	(\$579)	\$3,626	\$7.27	95%
Scared Straight	April 2012	(\$4,949)	(\$1,271)	(\$3,678)	(\$65)	(\$5,014)	(\$76.35)	0%
Juvenile justice programs for which we have not calculated benefit	ts and costs (at f	this time):						
Cognitive Behavioral Therapy (general)	October 2006	Se	ee previous W	SIPP publicatio	<u>n</u> for past findi	ngs.		
Diversion Programs	October 2006			SIPP publicatio				
Juvenile Boot Camps Supervision for Juvenile Offenders	October 2006 October 2006			SIPP <u>publicatio</u> SIPP <u>publicatio</u>	-	-		
Sex Offender Treatment for Juvenile Offenders	October 2006			SIPP <u>publication</u>				
Team Child	October 2006			SIPP publicatio				
Teen Courts Wilderness Challenge Programs	October 2006 October 2006			SIPP <u>publicatio</u> SIPP <u>publicatio</u>	-	-		
						5.		
Adult Criminal Justice								
Offender Re-entry Community Safety Program (dangerously mentally ill offenders)	April 2012	\$70,535	\$18,120	\$52,415	(\$32,247)	\$38,288	\$2.19	100%
Drug Offender Sentencing Alternative (drug offenders)	April 2012	\$22,365	\$5,318	\$17,047	(\$4 E40)			
Supervision with Risk Need and Responsivity Principles			<i>\\</i> 0,010	φ17,047	(\$1,542)	\$20,823	\$14.51	100%
(high and moderate risk)	April 2012	\$24,203	\$5,817	\$17,047	(\$1,542)	\$20,823 \$20,660	\$14.51 \$6.83	100% 100%
(high and moderate risk) Correctional Education in Prison	April 2012 April 2012	\$24,203 \$21,426		. ,				
<u> </u>			\$5,817	\$18,386	(\$3,543)	\$20,660	\$6.83	100%
Correctional Education in Prison	April 2012	\$21,426	\$5,817 \$5,238	\$18,386 \$16,188	(\$3,543) (\$1,128)	\$20,660 \$20,298	\$6.83 \$19.00	100% 100%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems)	April 2012 April 2012	\$21,426 \$18,745	\$5,817 \$5,238 \$4,438	\$18,386 \$16,188 \$14,307	(\$3,543) (\$1,128) \$1,067	\$20,660 \$20,298 \$19,812	\$6.83 \$19.00 n/e	100% 100% 100%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison	April 2012 April 2012 April 2012	\$21,426 \$18,745 \$20,446	\$5,817 \$5,238 \$4,438 \$5,017	\$18,386 \$16,188 \$14,307 \$15,429	(\$3,543) (\$1,128) \$1,067 (\$1,571)	\$20,660 \$20,298 \$19,812 \$18,875	\$6.83 \$19.00 n/e \$13.01	100% 100% 100% 100%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison Mental Health Courts	April 2012 April 2012 April 2012 April 2012	\$21,426 \$18,745 \$20,446 \$20,424	\$5,817 \$5,238 \$4,438 \$5,017 \$4,998	\$18,386 \$16,188 \$14,307 \$15,429 \$15,425	(\$3,543) (\$1,128) \$1,067 (\$1,571) (\$2,935)	\$20,660 \$20,298 \$19,812 \$18,875 \$17,488	\$6.83 \$19.00 n/e \$13.01 \$6.96	100% 100% 100% 100% 100%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison Mental Health Courts Drug Treatment in the Community	April 2012 April 2012 April 2012 April 2012 April 2012	\$21,426 \$18,745 \$20,446 \$20,424 \$17,711	\$5,817 \$5,238 \$4,438 \$5,017 \$4,998 \$4,206	\$18,386 \$16,188 \$14,307 \$15,429 \$15,425 \$13,504	(\$3,543) (\$1,128) \$1,067 (\$1,571) (\$2,935) (\$1,602)	\$20,660 \$20,298 \$19,812 \$18,875 \$17,488 \$16,108	\$6.83 \$19.00 n/e \$13.01 \$6.96 \$11.05	100% 100% 100% 100% 100%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison Mental Health Courts Drug Treatment in the Community Drug Courts	April 2012 April 2012 April 2012 April 2012 April 2012 April 2012	\$21,426 \$18,745 \$20,446 \$20,424 \$17,711 \$15,433	\$5,817 \$5,238 \$4,438 \$5,017 \$4,998 \$4,206 \$3,376	\$18,386 \$16,188 \$14,307 \$15,429 \$15,425 \$13,504 \$12,057	(\$3,543) (\$1,128) \$1,067 (\$1,571) (\$2,935) (\$1,602) (\$4,178)	\$20,660 \$20,298 \$19,812 \$18,875 \$17,488 \$16,108 \$11,255	\$6.83 \$19.00 n/e \$13.01 \$6.96 \$11.05 \$3.69	100% 100% 100% 100% 100% 100%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison Mental Health Courts Drug Treatment in the Community Drug Courts Drug Treatment in Prison	April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012	\$21,426 \$18,745 \$20,446 \$20,424 \$17,711 \$15,433 \$15,577	\$5,817 \$5,238 \$4,438 \$5,017 \$4,998 \$4,206 \$3,376 \$3,834	\$18,386 \$16,188 \$14,307 \$15,429 \$15,425 \$13,504 \$12,057 \$11,743	(\$3,543) (\$1,128) \$1,067 (\$1,571) (\$2,935) (\$1,602) (\$4,178) (\$4,603)	\$20,660 \$20,298 \$19,812 \$18,875 \$17,488 \$16,108 \$11,255 \$10,974	\$6.83 \$19.00 n/e \$13.01 \$6.96 \$11.05 \$3.69 \$3.38	100% 100% 100% 100% 100% 100% 100%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison Mental Health Courts Drug Treatment in the Community Drug Courts Drug Treatment in Prison Drug Offender Sentencing Alternative (property offenders)	April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012	\$21,426 \$18,745 \$20,446 \$20,424 \$17,711 \$15,433 \$15,577 \$11,273	\$5,817 \$5,238 \$4,438 \$5,017 \$4,998 \$4,206 \$3,376 \$3,834 \$2,666	\$18,386 \$16,188 \$14,307 \$15,429 \$15,425 \$13,504 \$12,057 \$11,743 \$8,607	(\$3,543) (\$1,128) \$1,067 (\$1,571) (\$2,935) (\$1,602) (\$4,178) (\$4,603) (\$1,540)	\$20,660 \$20,298 \$19,812 \$18,875 \$17,488 \$16,108 \$11,255 \$10,974 \$9,733	\$6.83 \$19.00 n/e \$13.01 \$6.96 \$11.05 \$3.69 \$3.38 \$7.32	100% 100% 100% 100% 100% 100% 100% 78%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison Mental Health Courts Drug Treatment in the Community Drug Courts Drug Offender Sentencing Alternative (property offenders) Cognitive Behavioral Therapy (moderate and high risk)	April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012	\$21,426 \$18,745 \$20,446 \$20,424 \$17,711 \$15,433 \$15,577 \$11,273 \$9,695	\$5,817 \$5,238 \$4,438 \$5,017 \$4,998 \$4,206 \$3,376 \$3,834 \$2,666 \$2,308	\$18,386 \$16,188 \$14,307 \$15,429 \$15,425 \$13,504 \$12,057 \$11,743 \$8,607 \$7,387	(\$3,543) (\$1,128) \$1,067 (\$1,571) (\$2,935) (\$1,602) (\$1,602) (\$4,178) (\$4,603) (\$1,540) (\$412)	\$20,660 \$20,298 \$19,812 \$18,875 \$17,488 \$16,108 \$11,255 \$10,974 \$9,733 \$9,283	\$6.83 \$19.00 n/e \$13.01 \$6.96 \$11.05 \$3.69 \$3.38 \$7.32 \$23.55	100% 100% 100% 100% 100% 100% 100% 78% 100%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison Mental Health Courts Drug Treatment in the Community Drug Courts Drug Offender Sentencing Alternative (property offenders) Cognitive Behavioral Therapy (moderate and high risk) Intensive Supervision: With Treatment	April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012	\$21,426 \$18,745 \$20,446 \$20,424 \$17,711 \$15,433 \$15,577 \$11,273 \$9,695 \$15,169	\$5,817 \$5,238 \$4,438 \$5,017 \$4,998 \$4,206 \$3,376 \$3,834 \$2,666 \$2,308 \$3,610	\$18,386 \$16,188 \$14,307 \$15,429 \$15,425 \$13,504 \$12,057 \$11,743 \$8,607 \$7,387 \$11,559	(\$3,543) (\$1,128) \$1,067 (\$1,571) (\$2,935) (\$1,602) (\$4,178) (\$4,603) (\$1,540) (\$1,540) (\$412) (\$7,874)	\$20,660 \$20,298 \$19,812 \$18,875 \$17,488 \$16,108 \$11,255 \$10,974 \$9,733 \$9,283 \$7,295	\$6.83 \$19.00 n/e \$13.01 \$6.96 \$11.05 \$3.69 \$3.38 \$7.32 \$23.55 \$1.93	100% 100% 100% 100% 100% 100% 78% 100% 96%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison Mental Health Courts Drug Treatment in the Community Drug Courts Drug Treatment in Prison Drug Gender Sentencing Alternative (property offenders) Cognitive Behavioral Therapy (moderate and high risk) Intensive Supervision: With Treatment Work Release	April 2012 April 2012	\$21,426 \$18,745 \$20,446 \$20,424 \$17,711 \$15,433 \$15,577 \$11,273 \$9,695 \$15,169 \$7,117	\$5,817 \$5,238 \$4,438 \$5,017 \$4,998 \$4,206 \$3,376 \$3,834 \$2,666 \$2,308 \$3,610 \$1,749	\$18,386 \$16,188 \$14,307 \$15,429 \$15,425 \$13,504 \$12,057 \$11,743 \$8,607 \$7,387 \$11,559 \$5,368	(\$3,543) (\$1,128) \$1,067 (\$1,571) (\$2,935) (\$1,602) (\$4,178) (\$4,603) (\$4,178) (\$4,603) (\$1,540) (\$412) (\$7,874) (\$661)	\$20,660 \$20,298 \$19,812 \$18,875 \$17,488 \$16,108 \$11,255 \$10,974 \$9,733 \$9,283 \$7,295 \$6,456	\$6.83 \$19.00 n/e \$13.01 \$6.96 \$11.05 \$3.69 \$3.38 \$7.32 \$23.55 \$1.93 \$10.77	100% 100% 100% 100% 100% 100% 100% 78% 100% 96% 99%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison Mental Health Courts Drug Treatment in the Community Drug Courts Drug Offender Sentencing Alternative (property offenders) Cognitive Behavioral Therapy (moderate and high risk) Intensive Supervision: With Treatment Work Release Correctional Industries in Prison	April 2012 April 2012	\$21,426 \$18,745 \$20,446 \$20,424 \$17,711 \$15,433 \$15,577 \$11,273 \$9,695 \$15,169 \$7,117 \$7,042	\$5,817 \$5,238 \$4,438 \$5,017 \$4,998 \$4,206 \$3,376 \$3,834 \$2,666 \$2,308 \$3,610 \$1,749 \$1,713	\$18,386 \$16,188 \$14,307 \$15,429 \$15,425 \$13,504 \$12,057 \$11,743 \$8,607 \$7,387 \$11,559 \$5,368 \$5,329	(\$3,543) (\$1,128) \$1,067 (\$1,571) (\$2,935) (\$1,602) (\$4,178) (\$4,603) (\$4,178) (\$4,603) (\$1,540) (\$4,1540) (\$4,1540) (\$4,1574) (\$4,601) (\$1,417)	\$20,660 \$20,298 \$19,812 \$18,875 \$17,488 \$16,108 \$11,255 \$10,974 \$9,733 \$9,283 \$7,295 \$6,456 \$5,625	\$6.83 \$19.00 n/e \$13.01 \$6.96 \$11.05 \$3.69 \$3.38 \$7.32 \$23.55 \$1.93 \$10.77 \$4.97	100% 100% 100% 100% 100% 100% 100% 78% 100% 96% 99% 100%
Correctional Education in Prison Electronic Monitoring (radio frequency or global positioning systems) Vocational Education in Prison Mental Health Courts Drug Treatment in the Community Drug Courts Drug Offender Sentencing Alternative (property offenders) Cognitive Behavioral Therapy (moderate and high risk) Intensive Supervision: With Treatment Work Release Correctional Industries in Prison Employment Training/Job Assistance in the Community	April 2012 April 2012	\$21,426 \$18,745 \$20,446 \$20,424 \$17,711 \$15,433 \$15,577 \$11,273 \$9,695 \$15,169 \$7,117 \$7,042 \$5,501	\$5,817 \$5,238 \$4,438 \$5,017 \$4,998 \$4,206 \$3,376 \$3,834 \$2,666 \$2,308 \$3,610 \$1,749 \$1,713 \$1,311	\$18,386 \$16,188 \$14,307 \$15,429 \$15,425 \$13,504 \$12,057 \$11,743 \$8,607 \$7,387 \$11,559 \$5,368 \$5,329 \$4,190	(\$3,543) (\$1,128) \$1,067 (\$1,571) (\$2,935) (\$1,602) (\$4,178) (\$4,603) (\$1,540) (\$4,1540) (\$4,120) (\$4,120) (\$4,121) (\$661) (\$1,417) (\$135)	\$20,660 \$20,298 \$19,812 \$18,875 \$17,488 \$16,108 \$11,255 \$10,974 \$9,733 \$9,283 \$7,295 \$6,456 \$5,625 \$5,366	\$6.83 \$19.00 n/e \$13.01 \$6.96 \$11.05 \$3.69 \$3.38 \$7.32 \$23.55 \$1.93 \$10.77 \$4.97 \$40.76	100% 100% 100% 100% 100% 100% 100% 96% 99% 100% 100%

Adult Boot Camps	October 2006	See previous WSIPP publication for past findings.
Drug Treatment in Jail	October 2006	See previous WSIPP publication for past findings.
Jail Diversion for Mentally III Offenders	October 2006	See previous WSIPP publication for past findings.
Life Skills Education Programs for Adults	October 2006	See previous WSIPP publication for past findings.
Restorative Justice for Lower-Risk Adult Offenders	October 2006	See previous WSIPP publication for past findings.
Sex Offender Community Notification and Registration	June 2009	See previous WSIPP publication for past findings.
Sex Offender Treatment	October 2006	See previous WSIPP publication for past findings.

Summary of policy topics assigned to the Washington State Institute for Public Policy by the Washington State Legislature Estimates for Washington State, as of April 2012

Last Jpdated Jpdated April 2012 April 2018 July 2008 July 2008	Total Benefits \$22,781 \$7,168 \$6,942 \$1,501 \$4,992 \$852 \$865 \$5,138 \$3,920 \$2,589 (\$902) \$ time):	seel linked docu \$eel linked docu \$iteel linked docu Steel linked docu	Non- Taxpayer \$16,562 \$5,892 \$3,183 \$1,223 \$3,876 \$595 \$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- ment for meta- sIPP publicatic	(\$9,600) (\$1,551) (\$3,288) (\$102) (\$4,227) (\$96) (\$143) (\$5,603) (\$5,496) (\$4,601) (\$4,601) (\$3,046) analytic results analytic results analytic results	Benefits Minus Costs (net present value) \$113,181 \$5,617 \$3,655 \$1,399 \$765 \$7756 \$7756 \$7756 \$722 (\$465) (\$1,576) (\$2,011) (\$3,948) \$ angs; update in	\$2.37 \$4.62 \$2.11 \$14.65 \$1.18 \$8.88 \$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	
April 2012 April 2013	Benefits \$22,781 \$7,168 \$6,942 \$1,501 \$4,992 \$852 \$865 \$5,138 \$3,920 \$2,589 (\$902) \$ time):	\$6,219 \$1,277 \$3,759 \$278 \$1,116 \$257 \$334 \$1,233 \$1,082 \$1,165 (\$208) weel linked docutiee linked docutiee linked docutiee linked docutiee linked docutiee linked docutiee previous Wither and the set of the se	Taxpayer \$16,562 \$5,892 \$3,183 \$1,223 \$3,876 \$595 \$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$9,600) (\$1,551) (\$3,288) (\$102) (\$4,227) (\$96) (\$143) (\$5,603) (\$5,496) (\$4,601) (\$4,601) (\$3,046) analytic results analytic results analytic results	Minus Costs (net present value) \$113,181 \$5,617 \$3,655 \$1,399 \$765 \$7756 \$7756 \$7756 \$7756 \$7722 (\$465) (\$1,576) (\$2,011) (\$3,948)	Cost Ratio ¹ p \$2.37 \$4.62 \$2.11 \$14.65 \$1.18 \$8.88 \$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	Risk (odds of a positive net present value 80% 100% 99% 100% 57% 100% 100% 44% 38% 26%
April 2012 April 2013	\$7,168 \$6,942 \$1,501 \$4,992 \$852 \$865 \$5,138 \$3,920 \$2,589 (\$902) \$ s time):	\$1,277 \$3,759 \$278 \$1,116 \$257 \$334 \$1,233 \$1,082 \$1,165 (\$208) weel linked docu	\$5,892 \$3,183 \$1,223 \$3,876 \$595 \$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$1,551) (\$3,288) (\$102) (\$4,227) (\$96) (\$143) (\$5,603) (\$5,496) (\$4,601) (\$3,046) analytic results analytic results analytic results	\$5,617 \$3,655 \$1,399 \$765 \$756 \$722 (\$465) (\$1,576) (\$2,011) (\$3,948)	\$4.62 \$2.11 \$14.65 \$1.18 \$8.88 \$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	100% 99% 100% 57% 100% 44% 38% 26%
April 2012 April 2013	\$7,168 \$6,942 \$1,501 \$4,992 \$852 \$865 \$5,138 \$3,920 \$2,589 (\$902) \$ s time):	\$1,277 \$3,759 \$278 \$1,116 \$257 \$334 \$1,233 \$1,082 \$1,165 (\$208) weel linked docu	\$5,892 \$3,183 \$1,223 \$3,876 \$595 \$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$1,551) (\$3,288) (\$102) (\$4,227) (\$96) (\$143) (\$5,603) (\$5,496) (\$4,601) (\$3,046) analytic results analytic results analytic results	\$5,617 \$3,655 \$1,399 \$765 \$756 \$722 (\$465) (\$1,576) (\$2,011) (\$3,948)	\$4.62 \$2.11 \$14.65 \$1.18 \$8.88 \$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	100% 99% 100% 57% 100% 44% 38% 26%
April 2012 April 2013	\$7,168 \$6,942 \$1,501 \$4,992 \$852 \$865 \$5,138 \$3,920 \$2,589 (\$902) \$ s time):	\$1,277 \$3,759 \$278 \$1,116 \$257 \$334 \$1,233 \$1,082 \$1,165 (\$208) weel linked docu	\$5,892 \$3,183 \$1,223 \$3,876 \$595 \$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$1,551) (\$3,288) (\$102) (\$4,227) (\$96) (\$143) (\$5,603) (\$5,496) (\$4,601) (\$3,046) analytic results analytic results analytic results	\$5,617 \$3,655 \$1,399 \$765 \$756 \$722 (\$465) (\$1,576) (\$2,011) (\$3,948)	\$4.62 \$2.11 \$14.65 \$1.18 \$8.88 \$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	100% 99% 100% 57% 100% 44% 38% 26%
April 2012 April 2018	\$6,942 \$1,501 \$4,992 \$852 \$865 \$5,138 \$3,920 \$2,589 (\$902) \$ s time):	\$3,759 \$278 \$1,116 \$257 \$334 \$1,233 \$1,082 \$1,165 (\$208) See linked docu see previous W3	\$3,183 \$1,223 \$3,876 \$595 \$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$3,288) (\$102) (\$4,227) (\$96) (\$143) (\$5,603) (\$5,496) (\$4,601) (\$3,046) analytic results analytic results analytic results	\$3,655 \$1,399 \$765 \$756 \$722 (\$465) (\$1,576) (\$2,011) (\$3,948) mgs; update in	\$2.11 \$14.65 \$1.18 \$8.88 \$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	99% 100% 57% 100% 44% 38% 26%
April 2012 April 2018	\$6,942 \$1,501 \$4,992 \$852 \$865 \$5,138 \$3,920 \$2,589 (\$902) \$ s time):	\$3,759 \$278 \$1,116 \$257 \$334 \$1,233 \$1,082 \$1,165 (\$208) See linked docu see previous W3	\$3,183 \$1,223 \$3,876 \$595 \$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$3,288) (\$102) (\$4,227) (\$96) (\$143) (\$5,603) (\$5,496) (\$4,601) (\$3,046) analytic results analytic results analytic results	\$3,655 \$1,399 \$765 \$756 \$722 (\$465) (\$1,576) (\$2,011) (\$3,948) mgs; update in	\$2.11 \$14.65 \$1.18 \$8.88 \$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	99% 100% 57% 100% 44% 38% 26%
April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 Osts (at thi April 2012 April 2012 April 2012 July 2008 July 2008	\$1,501 \$4,992 \$852 \$865 \$5,138 \$3,920 \$2,589 (\$902) s time):	\$278 \$1,116 \$257 \$334 \$1,233 \$1,082 \$1,165 (\$208) see linked docu see previous W:	\$1,223 \$3,876 \$595 \$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$102) (\$4,227) (\$96) (\$143) (\$5,603) (\$5,496) (\$4,601) (\$3,046) analytic results analytic results analytic results	\$1,399 \$765 \$756 \$722 (\$465) (\$1,576) (\$2,011) (\$3,948) mgs; update in	\$14.65 \$1.18 \$8.88 \$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	100% 57% 100% 100% 44% 38% 26%
April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 Osts (at thi April 2012 April 2012 July 2008 July 2008	\$4,992 \$852 \$865 \$5,138 \$3,920 \$2,589 (\$902) s time):	\$1,116 \$257 \$334 \$1,233 \$1,082 \$1,165 (\$208) weel linked docu	\$3,876 \$595 \$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$4,227) (\$96) (\$143) (\$5,603) (\$5,496) (\$4,601) (\$3,046) analytic results analytic results analytic results	\$765 \$756 \$722 (\$465) (\$1,576) (\$2,011) (\$3,948) mgs; update in	\$1.18 \$8.88 \$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	57% 100% 100% 44% 38% 26%
April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 Osts (at thi April 2012 April 2012 July 2008 July 2008	\$852 \$865 \$5,138 \$3,920 \$2,589 (\$902) s time):	\$257 \$334 \$1,233 \$1,082 \$1,165 (\$208) see linked docu see previous W:	\$595 \$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$96) (\$143) (\$5,603) (\$5,496) (\$4,601) (\$3,046) analytic results analytic results on for past findii	\$756 \$722 (\$465) (\$1,576) (\$2,011) (\$3,948)	\$8.88 \$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	100% 100% 44% 38% 26%
April 2012 April 2012 April 2012 April 2012 April 2012 osts (at thi April 2012 April 2012 July 2008 July 2008	\$865 \$5,138 \$3,920 \$2,589 (\$902) s time):	\$334 \$1,233 \$1,082 \$1,165 (\$208) see linked docu see previous W3	\$531 \$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$143) (\$5,603) (\$5,496) (\$4,601) (\$3,046) analytic results analytic results analytic results	\$722 (\$465) (\$1,576) (\$2,011) (\$3,948) ngs; update in	\$6.06 \$0.92 \$0.71 \$0.56 (\$0.30)	100% 44% 38% 26%
April 2012 April 2012 April 2012 April 2012 osts (at thi April 2012 April 2012 July 2008 July 2008	\$5,138 \$3,920 \$2,589 (\$902) s time):	\$1,233 \$1,082 \$1,165 (\$208) See linked docu see previous W3	\$3,904 \$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$5,603) (\$5,496) (\$4,601) (\$3,046) analytic results analytic results on for past findii	(\$465) (\$1,576) (\$2,011) (\$3,948) ngs; update in	\$0.92 \$0.71 \$0.56 (\$0.30)	44% 38% 26%
April 2012 April 2012 April 2012 osts (at thi April 2012 April 2012 July 2008 July 2008	\$3,920 \$2,589 (\$902) s time):	\$1,082 \$1,165 (\$208) Gee linked docu Gee previous With	\$2,838 \$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatio</u>	(\$5,496) (\$4,601) (\$3,046) analytic results analytic results on for past findir	(\$1,576) (\$2,011) (\$3,948)	\$0.71 \$0.56 (\$0.30)	38% 26%
April 2012 April 2012 osts (at thi April 2012 April 2012 July 2008 July 2008	\$2,589 (\$902) s time): S S S S S	\$1,165 (\$208) Gee linked docu Gee linked docu Gee previous W3	\$1,424 (\$693) ment for meta- ment for meta- SIPP <u>publicatio</u>	(\$4,601) (\$3,046) analytic results analytic results on for past findi	(\$2,011) (\$3,948) ngs; update in	\$0.56 (\$0.30)	26%
April 2012 osts (at thi April 2012 April 2012 July 2008 July 2008 July 2008	(\$902) s time): s s s s s s	(\$208) Gee linked docu Gee linked docu Gee previous W3	(\$693) ment for meta- ment for meta- SIPP <u>publicatic</u>	(\$3,046) analytic results analytic results on for past findir	(\$3,948)	(\$0.30)	
osts (at thi April 2012 April 2012 July 2008 July 2008 July 2008	s time): S S S S S	See linked docu See linked docu See previous W	ment for meta- ment for meta- SIPP <u>publicatic</u>	analytic results analytic results on for past findir	ngs; update in	ζ. ,	0%
April 2012 April 2012 July 2008 July 2008	, s s s	ee linked docu ee previous W	ment for meta- SIPP <u>publicatio</u>	analytic results on for past findi	ngs; update in	process.	
April 2012 July 2008 July 2008	S	ee linked docu ee previous W	ment for meta- SIPP <u>publicatio</u>	analytic results on for past findi	ngs; update in	process.	
April 2012 July 2008 July 2008	S	ee linked docu ee previous W	ment for meta- SIPP <u>publicatio</u>	analytic results on for past findi	ngs; update in	process.	
July 2008	S					process.	
-		see previous W	SIPP publication				
July 2000		ee previous W			-		
		oo few rigorous			ngo.		
	Т	oo few rigorous	s evaluations.				
	Т	oo few rigorous	s evaluations.				
April 2012	\$18,603	\$4,410	\$14,194	(\$1,895)	\$16,708	\$9.82	100%
April 2012	\$22,457	\$6,802	\$15,655	(\$7,523)	\$14,934	\$2.99	100%
April 2012	\$12,273	\$2,904	\$9,369	(\$1,016)	\$11,257	\$12.08	100%
April 2012	\$10,938	\$2,598	\$8,341	(\$1,362)	\$9,576	\$8.03	85%
	\$6,969	\$1,652	\$5,317	(\$282)	\$6,688	\$24.75	90%
	\$6,683	\$1,586	\$5,097	(\$1,992)	\$4,691	\$3.36	93%
	\$3,648	\$866	\$2,783	(\$63)	\$3,585	\$57.79	88%
1	\$3,575	\$850	\$2,725	(\$836)	\$2,739	\$4.28	68%
1011 2012	. ,		. ,	(.)			
April 2012	\$1,802	\$428	\$1,374	(\$69)	\$1,734	\$26.28	100%
	\$295	\$69	\$225	(\$34)	\$261	\$8.62	63%
	\$86	\$20	\$65	(\$27)	\$59		59%
	\$19	\$4	\$14	(\$6)			52%
							48%
							14%
	,						17%
	pril 2012	April 2012 \$18,603 April 2012 \$22,457 April 2012 \$10,938 April 2012 \$10,938 April 2012 \$6,969 April 2012 \$6,683 April 2012 \$3,648 April 2012 \$3,575 April 2012 \$3,575 April 2012 \$295 April 2012 \$295 April 2012 \$19 April 2012 \$19 April 2012 \$19 April 2012 \$11 April 2012 \$11	April 2012 \$18,603 \$4,410 April 2012 \$22,457 \$6,802 April 2012 \$12,273 \$2,904 April 2012 \$10,938 \$2,598 April 2012 \$6,969 \$1,652 April 2012 \$6,683 \$1,586 April 2012 \$3,648 \$866 April 2012 \$3,575 \$850 April 2012 \$295 \$69 April 2012 \$295 \$69 April 2012 \$295 \$69 April 2012 \$1,802 \$428 April 2012 \$295 \$69 April 2012 \$10 \$4 April 2012 \$10 \$10 \$4 April 2012 \$11 \$50 April 2012 \$11 \$50 April 2012 \$11 \$50 April 2012 \$11 \$50 April 2012 \$10 \$10 \$50 April 2012 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	spril 2012 \$22,457 \$6,802 \$15,655 spril 2012 \$12,273 \$2,904 \$9,369 spril 2012 \$10,938 \$2,598 \$8,341 spril 2012 \$6,669 \$1,652 \$5,317 spril 2012 \$6,683 \$1,586 \$5,097 spril 2012 \$3,648 \$866 \$2,783 spril 2012 \$3,575 \$850 \$2,725 spril 2012 \$295 \$69 \$225 spril 2012 \$295 \$69 \$225 spril 2012 \$1802 \$14 \$14 spril 2012 \$19 \$4 \$14 spril 2012 \$10 \$50 \$50 spril 2012 \$10 \$50 \$50 <	April 2012 \$18,603 \$4,410 \$14,194 (\$1,895) April 2012 \$22,457 \$6,802 \$15,655 (\$7,523) April 2012 \$12,273 \$2,904 \$9,369 (\$1,016) April 2012 \$10,938 \$2,598 \$8,341 (\$1,362) April 2012 \$6,969 \$1,652 \$5,317 (\$282) April 2012 \$6,683 \$1,586 \$5,097 (\$1,992) April 2012 \$3,648 \$866 \$2,783 (\$63) April 2012 \$3,575 \$850 \$2,725 (\$836) April 2012 \$1,802 \$428 \$1,374 (\$69) April 2012 \$295 \$69 \$225 (\$34) April 2012 \$86 \$20 \$65 (\$27) April 2012 \$19 \$4 \$14 (\$6) April 2012 \$19 \$4 \$14 (\$6) April 2012 (\$1,257) (\$296) (\$961) (\$4,126)	April 2012 \$18,603 \$4,410 \$14,194 (\$1,895) \$16,708 April 2012 \$22,457 \$6,802 \$15,655 (\$7,523) \$14,934 April 2012 \$12,273 \$2,904 \$9,369 (\$1,016) \$11,257 April 2012 \$10,938 \$2,598 \$8,341 (\$1,362) \$9,576 April 2012 \$6,969 \$1,652 \$5,317 (\$282) \$6,688 April 2012 \$6,683 \$1,586 \$5,097 (\$1,992) \$4,691 April 2012 \$3,648 \$866 \$2,783 (\$63) \$3,585 April 2012 \$3,575 \$850 \$2,725 (\$836) \$2,739 April 2012 \$1,802 \$428 \$1,374 (\$69) \$1,734 April 2012 \$295 \$69 \$225 (\$34) \$261 April 2012 \$86 \$20 \$65 (\$27) \$59 April 2012 \$19 \$4 \$14 (\$6) \$12 April 2012 \$19 \$4 \$14 (\$6) \$12 April 2012 (\$1,257) (\$296) (\$961) (\$4,126) (\$5,383)	April 2012 \$18,603 \$4,410 \$14,194 (\$1,895) \$16,708 \$9.82 April 2012 \$22,457 \$6,802 \$15,655 (\$7,523) \$14,934 \$2.99 April 2012 \$12,273 \$2,904 \$9,369 (\$1,016) \$11,257 \$12.08 April 2012 \$10,938 \$2,598 \$8,341 (\$1,362) \$9,576 \$8.03 April 2012 \$10,938 \$2,598 \$8,341 (\$1,362) \$9,576 \$8.03 April 2012 \$6,6633 \$1,652 \$5,317 (\$282) \$6,688 \$24.75 April 2012 \$6,683 \$1,586 \$5,097 (\$1,992) \$4,691 \$3.36 April 2012 \$3,648 \$866 \$2,783 (\$63) \$3,585 \$57.79 April 2012 \$3,575 \$850 \$2,725 (\$836) \$2,739 \$4.28 April 2012 \$1,802 \$428 \$1,374 (\$69) \$1,734 \$26.28 April 2012 \$295 \$69 \$225 (\$34) \$261 \$8.62 April 2012 \$18 \$20 \$65

Pre-K to 12 education programs for which we have not calculated benefits and costs (at this time):

Pre-K and Elementary Bilingual Instructional Programs (vs. English-based) for		
English Language Learners	April 2012	See linked document for meta-analytic results.
K-12 Teachers—Impact of Having a Graduate Degree	April 2012	See linked document for meta-analytic results.
K-12 Teachers—Impact of Having an In-subject Graduate Degree	April 2012	See linked document for meta-analytic results.
K-12 Teachers—Effectiveness by Years of Experience	April 2012	See linked document for meta-analytic results.
Class Size	March 2007	See previous WSIPP publication for past findings.
Full-Day Kindergarten (vs. half-day)	March 2007	See previous WSIPP publication for past findings.
Increased Per-Student Expenditures	December 2007	See previous WSIPP publication for past findings.

Summary of policy topics assigned to the Washington State Institute for Public Policy by the Washington State Legislature Estimates for Washington State, as of April 2012

Topic Area/Program	<u>Last</u>	Mo	netary Ber	nefits	<u>Costs</u>	<u>Sum</u>	mary Sta	tistics
Benefits and costs are life-cycle present-values per participant, in 2011 Iollars. The programs are listed by major topic area, although some programs achieve benefits in multiple areas. Also, some programs achieve penefits that we cannot monetize; see linked documents for program- specific details.	<u>Updated</u>	Total Benefits	Taxpayer	Non- Taxpayer		Benefits Minus Costs (net present value)	Cost Ratio ¹	Measured Risk (odds of a positive net present value
Children's Mental Health								
Cognitive Behavioral Therapy (CBT)-Based Models for Child Trauma	April 2012	\$8,929	\$2,779	\$6,151	\$317	\$9,246	n/e	100%
Remote Cognitive Behavioral Therapy (CBT) for Anxious Children	April 2012	\$7,653	\$2,265	\$5,388	\$741	\$8,393	n/e	96%
Group Cognitive Behavioral Therapy (CBT) for Anxious Children	April 2012	\$7,247	\$2,143	\$5,104	\$393	\$7,640	n/e	98%
Individual Cognitive Behavioral Therapy (CBT) for Anxious Children	April 2012	\$7,337	\$2,170	\$5,166	(\$734)	\$6,603	\$10.00	95%
Eve Movement Desensitization and Reprocessing (EMDR) for Child Trauma	April 2012	\$5,804	\$1,815	\$3,989	\$155	\$5,959	n/e	79%
Parent Cognitive Behavioral Therapy (CBT) for Anxious Young Children	April 2012	\$3,291	\$998	\$2,293	\$608	\$3,899	n/e	81%
Cognitive Behavioral Therapy (CBT) for Depressed Adolescents	April 2012	\$3,441	\$1,022	\$2,419	(\$484)	\$2,957	\$7.11	99%
Brief Strategic Family Therapy (BSFT)	April 2012	\$3,112	\$965	\$2,147	(\$512)	\$2,601	\$6.08	69%
Parent Child Interaction Therapy (PCIT) for Children with Disruptive Behavior Problems	April 2012	\$3,385	\$1,120	\$2,265	(\$1,335)	\$2,049	\$2.53	100%
Triple P Positive Parenting Program: Level 4, Individual	April 2012	\$3,621	\$1,195	\$2,426	(\$1,833)	\$1,788	\$1.98	92%
Triple P Positive Parenting Program: Level 4, Group	April 2012	\$2,112	\$696	\$1,416	(\$375)	\$1,737	\$5.63	100%
Multisystemic Therapy (MST) for Youth with Serious Emotional Disturbance (SED)	April 2012	\$7,443	\$2,885	\$4,558	(\$6,501)	\$942	\$1.14	68%
Behavioral Parent Training (BPT) for Children with Disruptive Behavior Disorders	April 2012	\$768	\$252	\$516	\$105	\$873	n/e	68%
Families and Schools Together (FAST)	April 2012	\$2,610	\$775	\$1,834	(\$1,759)	\$851	\$1.48	52%
Behavioral Parent Training (BPT) for Children with ADHD	April 2012	\$430	\$126	\$304	\$106	\$536	i n/e	98%
Incredible Years: Parent Training	April 2012	\$2,482	\$797	\$1,685	(\$2,074)	\$408	\$1.20	61%
Incredible Years: Parent Training + Child Training	April 2012	\$2,429	\$774	\$1,655	(\$2,135)	\$295	\$1.14	59%
Multimodal Therapy (MMT) for Children with Disruptive Behavior	April 2012	\$656	\$222	\$435	(\$1,274)	(\$617)	\$0.52	42%
Cognitive Behavioral Therapy (CBT) for Children with ADHD	April 2012	(\$37)	(\$8)	(\$28)	(\$985)	(\$1,021)	(\$0.04)	3%
Multimodal Therapy (MMT) for Children with ADHD	April 2012	\$1,749	\$440	\$1,309	(\$8,343)	(\$6,593)	\$0.21	11%

Children's mental health programs for which we have not calculated benefits and costs (at this time):

Intensive Case Management	(Wraparound)	for Youth with	Emotional	Disturbance

See previous

See previous WSIPP publication for past findings.

April 2012	\$7,207	\$1,958	\$5,249	(\$1,479)	\$5,728	\$4.87	61%
April 2012	\$4,790	\$1,337	\$3,454	(\$154)	\$4,637	\$31.19	100%
April 2012	\$30,311	\$8,737	\$21,574	(\$25,743)	\$4,568	\$1.18	60%
April 2012	\$8,333	\$2,348	\$5,985	(\$4,799)	\$3,534	\$1.74	58%
April 2012	\$5,804	\$1,686	\$4,118	(\$3,026)	\$2,779	\$1.92	59%
April 2012	\$2,540	\$598	\$1,942	(\$870)	\$1,670	\$2.92	85%
April 2012	\$1,995	\$531	\$1,463	(\$1,276)	\$719	\$1.56	58%
April 2012	(\$19)	(\$6)	(\$13)	(\$115)	(\$134)	(\$0.17)	23%
April 2012	\$696	\$213	\$483	(\$1,077)	(\$381)	\$0.65	7%
April 2012	\$7,184	\$2,381	\$4,802	(\$14,220)	(\$7,036)	\$0.51	37%
April 2012	(\$1,574)	(\$385)	(\$1,188)	(\$6,806)	(\$8,380)	(\$0.23)	0%
April 2012	\$1,953	\$450	\$1,503	(\$58,747)	(\$56,794)	\$0.03	0%
	April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012 April 2012	April 2012 \$4,790 April 2012 \$30,311 April 2012 \$8,333 April 2012 \$5,804 April 2012 \$2,540 April 2012 \$1,995 April 2012 \$1,995 April 2012 \$696 April 2012 \$7,184 April 2012 \$1,574)	April 2012 \$4,790 \$1,337 April 2012 \$30,311 \$8,737 April 2012 \$30,311 \$8,737 April 2012 \$8,333 \$2,348 April 2012 \$5,804 \$1,686 April 2012 \$2,540 \$598 April 2012 \$1,995 \$531 April 2012 \$1,995 \$531 April 2012 \$696 \$213 April 2012 \$7,184 \$2,381 April 2012 \$1,574) \$385)	April 2012\$4,790\$1,337\$3,454April 2012\$30,311\$8,737\$21,574April 2012\$30,311\$8,737\$21,574April 2012\$8,333\$2,348\$5,985April 2012\$5,804\$1,686\$4,118April 2012\$2,540\$598\$1,942April 2012\$1,995\$531\$1,463April 2012(\$19)(\$6)(\$13)April 2012\$696\$213\$483April 2012\$7,184\$2,381\$4,802April 2012(\$1,574)(\$385)(\$1,188)	April 2012\$4,790\$1,337\$3,454(\$154)April 2012\$30,311\$8,737\$21,574(\$25,743)April 2012\$8,333\$2,348\$5,985(\$4,799)April 2012\$5,804\$1,686\$4,118(\$3,026)April 2012\$2,540\$598\$1,942(\$870)April 2012\$1,995\$531\$1,463(\$1,276)April 2012\$696\$213\$483(\$1,077)April 2012\$7,184\$2,381\$4,802(\$14,220)April 2012\$1,574)(\$385)(\$1,188)(\$6,806)	April 2012\$4,790\$1,337\$3,454(\$154)\$4,637April 2012\$30,311\$8,737\$21,574(\$25,743)\$4,568April 2012\$8,333\$2,348\$5,985(\$4,799)\$3,534April 2012\$5,804\$1,686\$4,118(\$3,026)\$2,779April 2012\$2,540\$598\$1,942(\$870)\$1,670April 2012\$1,995\$531\$1,463(\$1,276)\$719April 2012\$1,995\$531\$1,463(\$1,276)\$719April 2012\$696\$213\$483(\$1,077)(\$381)April 2012\$7,184\$2,381\$4,802(\$14,220)(\$7,036)April 2012\$1,574)(\$385)(\$1,188)(\$6,806)(\$8,380)	April 2012\$4,790\$1,337\$3,454(\$154)\$4,637\$31.19April 2012\$30,311\$8,737\$21,574(\$25,743)\$4,568\$1.18April 2012\$8,333\$2,348\$5,985(\$4,799)\$3,534\$1.74April 2012\$5,804\$1,686\$4,118(\$3,026)\$2,779\$1.92April 2012\$2,540\$598\$1,942(\$870)\$1,670\$2.92April 2012\$1,995\$531\$1,463(\$1,276)\$719\$1.56April 2012(\$19)(\$6)(\$13)(\$115)(\$134)(\$0.17)April 2012\$696\$213\$483(\$1,077)(\$381)\$0.65April 2012\$7,184\$2,381\$4,802(\$14,220)(\$7,036)\$0.51April 2012(\$1,574)(\$385)(\$1,188)(\$6,806)(\$8,380)(\$0.23)

July 2008

Summary of policy topics assigned to the Washington State Institute for Public Policy by the Washington State Legislature Estimates for Washington State, as of April 2012

Estimates for V	Washington	State, a	s of April 2	2012				
Topic Area/Program	<u>Last</u>	Mc	netary Ber	nefits	<u>Costs</u>	Sum	nmary Stat	tistics
enefits and costs are life-cycle present-values per participant, in 2011 ollars. The programs are listed by major topic area, although some rograms achieve benefits in multiple areas. Also, some programs achieve enefits that we cannot monetize; see linked documents for program- pecific details.	<u>Updated</u>	Total Benefits	Taxpayer	Non- Taxpayer		Benefits Minus Costs (net present value)		Measured Risk (odds of a positive ne present valu
Substance Abuse								
Motivational Interviewing / Motivational Enhancement Therapy for Alcohol Abuse	April 2012	\$9,164	\$1,926	\$7,238	(\$206)	\$8,957	7 \$44.38	100%
Motivational Interviewing / Motivational Enhancement Therapy for Smoking	April 2012	\$7,949	\$295	\$7,654	(\$206)	\$7,743	3 \$38.49	99%
Brief Alcohol Screening and Intervention for College Students (BASICS)	April 2012	\$3,110	\$771	\$2,339	(\$226)	\$2,883	\$13.75	97%
Motivational Interviewing / Motivational Enhancement Therapy for Cannabis Abuse	April 2012	\$2,388	\$691	\$1,697	(\$206)	\$2,182	2 \$11.58	100%
Motivational Interviewing / Motivational Enhancement Therapy for Illicit Drug Abuse	April 2012	\$2,023	\$593	\$1,430	(\$207)	\$1,816	6 \$9.78	97%
Life Skills Training	April 2012	\$1,290	\$289	\$1,001	(\$34)	\$1,256	6 \$37.52	100%
Project Towards No Drug Abuse (TND)	April 2012	\$123	\$31	\$92	(\$14)	\$109	9 \$8.61	76%
Project STAR	April 2012	\$582	\$151	\$431	(\$489)	\$93	3 \$1.19	71%
Project ALERT	April 2012	\$7	\$2	\$5	(\$145)	(\$138) \$0.05	1%
Substance abuse prevention and treatment programs for which we h	ave not calcul	ated bene	fits and cos	ts (at this tir	ne):			
DARE Minnesota Smoking Prevention Program Project Northland Project Towards No Tobacco Use	July 2004 July 2004 July 2004 July 2004		See previous V See previous V	/SIPP <u>publicati</u> /SIPP <u>publicati</u> /SIPP <u>publicati</u> /SIPP <u>publicati</u>	<u>on</u> for past find <u>on</u> for past find	dings. dings.		
Adult Mental Health		• · - - - · ·	• · · · ·					
Cognitive Behavioral Therapy (CBT) for Adult Anxiety	April 2012	\$17,731	. ,	\$12,793 \$11,012	(\$341)			97%
Cognitive Behavioral Therapy (CBT) for Adult Depression	April 2012	\$15,632	\$4,619	\$11,013	(\$227)	\$15,40	5 \$68.90	100%
Adult mental health treatment programs for which we have not calcul Day Programs for Mentally III Adults Remote Cognitive Behavioral Therapy Treatments for Post-Traumatic Stress Disorder Eye Movement Desensitization and Reprocessing Primary Care Interventions for Depression	lated benefits		s (at this tim Review in proc Review in proc Review in proc Review in proc Review in proc	ess. ess. ess. ess.				
Public Health								
See Technical Appendix I for meta-analytic results for prevention programs Ne have not have not completed our computation of benefits and costs for			and obesity.					
een Pregnancy Prevention:								
Postponing Sexual Involvement	April 2012		See linked do	ocument for n	neta-analvtic	results.		
School-Based Service Learning	April 2012			ocument for n				
School-based Sexual Education	April 2012			ocument for n	,			
Teen Outreach Program	April 2012			ocument for n	-			
Adolescent Sibling Pregnancy Prevention	April 2012			ocument for n	-			
Desity Prevention:								

Obesity Prevention:		
School programs for healthy eating to prevent obesity	April 2012	See linked document for meta-analytic results.
School programs for physical activity to prevent obesity	April 2012	See linked document for meta-analytic results.
School programs for healthy eating & physical activity to prevent obesity	April 2012	See linked document for meta-analytic results.

Obesity prevention programs for which we have not calculated meta-analytic results (at this time):

Early child care centers & homes nutrition & physical activity programs

Taxes on sweetened beverages and snack food Nutrition labeling on menus & posting nutritional information Too few rigorous evaluations. Too few rigorous evaluations. Too few rigorous evaluations.

Summary of policy topics assigned to the Washington State Institute for Public Policy by the Washington State Legislature Estimates for Washington State, as of April 2012

Last	Monetary Benefits		<u>Costs</u>	Summary Statistics			
	Total Benefits	Taxpayer	Non- Taxpayer		Minus Costs	Cost Ratio ¹	Measured Risk (odds of a positive net present value
	0	e community	/ and adults \	vith mental ill	ness.		
April 2012		See linked document for meta-analytic results.					
April 2012		See linked document for meta-analytic results.					
April 2012		See linked d	locument for	meta-analytic	c results.		
	1 Updated thieve	1 Updated Total Benefits Hereits for offenders returning to the statistic for these programs.	Updated Total Benefits Taxpayer thieve Total Benefits Taxpayer ums for offenders returning to the community sts for these programs. See linked of April 2012 See linked of April 2012	Updated Total Benefits Taxpayer Non-Taxpayer thieve Benefits Taxpayer Non-Taxpayer ums for offenders returning to the community and adults of these programs. April 2012 See linked document for April 2012	Updated Total Benefits Taxpayer Non-Taxpayer thieve Benefits Taxpayer Non-Taxpayer ums for offenders returning to the community and adults with mental ill sts for these programs. See linked document for meta-analytic April 2012 See linked document for meta-analytic see linked document for meta-	Updated Total Benefits Taxpayer Taxpayer Non- Taxpayer Instruction Benefits Minus Costs (net present value) Instruction Instruction See linked document for meta-analytic results. April 2012 See linked document for meta-analytic results.	1 Updated Total Benefits Taxpayer Non-Taxpayer Benefits Benefits Benefits Benefits Cost Cost Ratio ¹ (net present value) Ims for offenders returning to the community and adults with mental illness. See linked document for meta-analytic results. April 2012 See linked document for meta-analytic results.

² Institutions = state institutionalized juvenile justice populations

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Washington State Institute for Public Policy

The Washington Legislature created the Washington State Institute for Public Policy in 1983. The Institute is governed by a Board of Directors that represents the legislature, governor, and public universities. The Board guides the development of all Institute activities. The mission of the Institute is to assist policymakers, particularly those in the legislature, in making informed judgments about important, long-term issues facing Washington State.