Updated Inventory of Programs for the Prevention and Treatment of Youth Cannabis Use

Revised March 8, 2019 for technical corrections

Initiative 502 (I-502) legalized recreational marijuana for adults in Washington State. The law directs the Washington State Institute for Public Policy (WSIPP) to conduct a benefit-cost evaluation of the implementation of I-502.¹ State law also requires the Health Care Authority's Division of Behavioral Health and Recovery (DBHR)² to expend substance abuse prevention funding derived from cannabis revenues on programs demonstrated to be effective. Specifically, the law requires at least 85% of programs funded by cannabis revenues to be evidence-based or research-based and up to 15% to be promising practices.³

In this report, we summarize the research evidence for a set of programs intended for the prevention or treatment of youth substance use. The programs reviewed include those nominated by DBHR as well as similar programs from WSIPP's current set of inventories that have been evaluated for cannabis outcomes.⁴ We rate the level of evidence for each program using the same methods used in other WSIPP inventories, as described below.

This inventory is not limited to effective programs; we report on all programs reviewed, whether or not we find evidence of effectiveness. It is important to note that a wide variety of outcomes may be examined for a given program. Our evidence ratings are based on all relevant outcomes reported in the research, so it is possible that a given program is effective in preventing or treating the use of some substances but not others. It is also possible that a program is effective for related outcomes such as crime or risky sexual behavior but not for substance use. In addition to the overall evidence rating for each program, we also denote which programs have demonstrated evidence of effectiveness for preventing or treating cannabis use. Complete detailed results with specific outcome effects for each program can be found on WSIPP's website.⁵

This inventory is a snapshot of the evidence at a point in time.⁶ Ratings for a program may change as new research becomes available and refinements are made to the WSIPP benefit-cost model.

¹ RCW 69.50.550.

² Recently re-located from the Department of Social and Health Services to the Health Care Authority.

³ RCW 69.50.540

⁴ Miller, M., Goodvin, R., Grice, J., Hoagland, C., & Westley, E. (2016). *Updated Inventory of evidence-based and research-based practices: Prevention and intervention services for adult behavioral health.* (Doc. No. 16-09-4101). Olympia: Washington State Institute for Public Policy; Cramer, J., Bitney, K., & Wanner, P. (2018). *Updated inventory of evidence- and research-based practices: Washington's K–12 Learning Assistance Program.* (Doc. No. 18-06-2201). Olympia: Washington State Institute for Public Policy; and EBPI & WSIPP. (2018). *Updated inventory of evidence-based, research-based, and promising practices: For prevention and intervention services for children and juveniles in the child welfare, juvenile justice, and mental health systems.* (Doc. No. E2SHB2536-9). Olympia: Washington State Institute for Public Policy. *Benefit-cost results.* Olympia, WA: Author.

⁶ This inventory is an update of a previous inventory; the most recent prior version is Darnell, A., Goodvin, R., Lemon, M. & Miller, M. (2016). *Preventing and treating youth marijuana use: An updated review of the evidence.* (Doc. No. 16-12-3201). Olympia: Washington State Institute for Public Policy.

Creating the Youth Cannabis Inventory

WSIPP's approach to creating the inventory is the same approach we use for legislatively directed inventories in other policy areas. We first use a rigorous, three-step research approach to assess the evidence, economics, and risk for each program. Then, using information derived from the three-step approach, we classify all programs according to standard definitions. WSIPP's three-step approach is as follows:

- 1) Identify what works (and what does not). For each program under consideration, we systematically review all rigorous research evidence and estimate the program's effect on all relevant outcomes. The evidence may indicate that a program worked (i.e., had a desirable effect on outcomes), caused harm (i.e., had an undesirable effect on outcomes), or had no detectable effect one way or the other.
- 2) Assess the return on investment. Given the estimated effect of a program from Step 1, we estimate—in dollars and cents—how much the program would benefit people in Washington were it implemented and how much it would cost the taxpayers to achieve this result. We use WSIPP's benefit-cost model to develop standardized, comparable results for all programs that illustrate the expected return on investment. We present these results as net present values on a per-participant basis. We also consider how monetary benefits are distributed across program participants, taxpayers, and other people in society.
- 3) Determine the risk of investment. We allow for uncertainty in our estimates by calculating the probability that a program will at least "break even" if critical factors—like the actual cost to implement the program and the precise effect on the program—are lower or higher than our estimates.

We follow a set of standardized procedures (see Exhibit 1) for each of these steps. These standardized procedures support the rigor of our analyses and allow programs to be compared on an "apples-to-apples" basis. For full detail on WSIPP's methods, see WSIPP's Technical Documentation.8

⁷ EBPI, & WSIPP. (2018).

⁸ Washington State Institute for Public Policy. (December 2018). Benefit-cost technical documentation. Olympia, WA: Author.

Exhibit 1

WSIPP's Three-Step Approach

Step 1: Identify what works (and what does not)

We conduct a meta-analysis—a quantitative review of the research literature—to determine if the weight of the research evidence indicates whether desired outcomes are achieved, on average.

WSIPP follows several key protocols to ensure a rigorous analysis for each program examined. We:

- Search for all studies on a topic—We systematically review the national and international research literature and consider all available studies on a program, regardless of their findings. That is, we do not "cherry pick" studies to include in our analysis.
- Screen studies for quality—We only include rigorous studies in our analysis. We require that a study reasonably attempt to demonstrate causality using appropriate statistical techniques. For example, studies must include both treatment and comparison groups with an intent-to-treat analysis. Studies that do not meet our minimum standards are excluded from analysis.
- Determine the average effect size—We use a formal set of statistical procedures to calculate an average effect size for each outcome, which indicates the expected magnitude of change caused by the program (e.g., tutoring by adults) for each outcome of interest (e.g., standardized test scores).

Step 2: Assess the return on investment

WSIPP has developed, and continues to refine, an economic model to provide internally consistent monetary valuations of the benefits and costs of each program on a per-participant basis.

Benefits to individuals and society may stem from multiple sources. For example, a program that reduces the need for publicly funded substance use treatment services decreases taxpayer costs. If that program also improves participants' educational outcomes, it will increase their expected labor market earnings. Finally, if a program reduces crime, it will reduce expected costs to crime victims.

We also estimate the cost required to implement an intervention. If the program is operating in Washington State, our preferred method is to obtain the service delivery and administrative costs from state or local agencies. When this approach is not possible, we estimate costs using the research literature, using estimates provided by program developers, or using a variety of sources to construct our own cost estimate.

Step 3: Determine the risk of investment

Any tabulation of benefits and costs involves a degree of uncertainty about the inputs used in the analysis, as well as the bottom-line estimates. An assessment of risk is expected in any investment analysis, whether in the private or public sector.

To assess the riskiness of our conclusions, we look at thousands of different scenarios through a Monte Carlo simulation. In each scenario, we vary a number of key factors in our calculations (e.g., expected effect sizes, program costs) using estimates of error around each factor. The purpose of this analysis is to determine the probability that a particular program or policy will produce benefits that are equal to or greater than costs if the real-world conditions are different than our baseline assumptions.

Classifying Practices as Evidence-Based, Research-Based, or Promising

Results from meta-analyses and benefit-cost modeling are then used to classify programs as evidence-based, research-based, or promising, based on the definitions in state law shown below.

Legislative Definitions of Evidence-Based, Research-Based, and Promising Practices

Evidence-based practice

A program or practice that has been tested in heterogeneous or intended populations with multiple randomized, or statistically controlled evaluations, or both; or one large multiple site randomized, or statistically controlled evaluation, or both, where the weight of the evidence from a systemic review demonstrates sustained improvements in at least one outcome. "Evidence-based" also means a program or practice that can be implemented with a set of procedures to allow successful replication in Washington and, when possible, is determined to be cost-beneficial.

Research-based practice

A program or practice that has been tested with a single randomized, or statistically controlled evaluation, or both, demonstrating sustained desirable outcomes; or where the weight of the evidence from a systemic review supports sustained outcomes as described in subsection (14) of this section but does not meet the full criteria for evidence-based.

Promising practice

A practice that, based on statistical analyses or a well-established theory of change, shows potential for meeting the evidence-based or research-based criteria, which may include the use of a program that is evidence-based for outcomes other than those listed in subsection (14) of this section (defining "evidence-based").

RCW 71.24.025.

To classify programs, the criteria in the statutory definitions are operationalized as follows:

- 1) Weight of evidence. To meet the evidence-based definition, results from at least one random-effects meta-analysis of multiple evaluations or one large multiple-site evaluation must indicate the practice achieves the desired outcome(s) (p-value < 0.20). To meet the research-based definition, at least one single-site evaluation must indicate the practice achieves desired outcomes (p-value < 0.20).
- 2) <u>Benefit-cost</u>. The statute defining evidence-based practices requires that, when possible, a benefit-cost analysis be conducted. Programs that achieve at least a 75% chance of a positive net present value meet the "cost beneficial" criterion.⁹

⁹ To operationalize the benefit-cost criterion, net benefits must exceed costs at least 75% of the time. After considerable analysis, we found that a typical program that WSIPP has analyzed may produce benefits that exceed costs roughly 75% of the time with a p-value cut off of up to 0.20. Thus, we determined that programs with p-values < 0.20 on desired outcomes should be considered research-based to avoid classifying programs with desirable benefit-cost results as promising.

3) Heterogeneity. To be designated as evidence-based, a program must have been tested on a "heterogeneous" population. We operationalize heterogeneity in two ways. First, the proportion of program participants belonging to racial/ethnic minority groups must be greater than or equal to the proportion of minority children in Washington. From the 2010 Census, for children age 0-17 in Washington, 68% were White and 32% belonged to racial/ethnic minority groups. Thus, if the weighted average of program participants in the outcome evaluations of the program was at least 32% racial/ethnic minority, then the program was considered to have been tested in a heterogeneous population.

Second, the heterogeneity criterion can also be achieved if at least one of a program's outcome evaluations has been conducted on children in Washington and a subgroup analysis demonstrates the program is effective for racial/ethnic minorities (p-value < 0.20).

To summarize, we begin with the pool of programs defined at the outset and review the research literature for studies meeting WSIPP's criteria for methodological rigor. Programs that have no studies are not analyzed further, and these programs are noted in the report. Programs are deemed to be promising if some research on the program suggests effectiveness even though the studies do not meet WSIPP's methodological criteria or if the program has a well-defined theory of change. For programs that do have studies that meet WSIPP's methodological criteria, we conduct a meta-analysis. If the meta-analysis indicates at least one effect on an outcome of interest according to the weight of evidence criterion, the program is eligible to be either research-based or evidence-based. To reach the top tier, a program must also meet heterogeneity and benefit-cost criteria. Many interventions produce effects on more than one type of outcome. In our evidence ratings and benefit-cost results, we include all relevant outcomes, not just those related to substance use or marijuana.

WSIPP has clarified classifications for programs that produce null or poor results since the last inventory update. In prior inventories, there was a single category for programs producing "null or poor outcomes." Programs with null effects on outcomes (p-value > 0.20) were inconsistently categorized as either "null or poor" or as "promising." For the current inventory, WSIPP has defined two separate categories to distinguish between programs producing null results (no significant effect on desired outcomes) and those producing poor (undesirable) outcomes. If results from a random-effects meta-analysis of multiple evaluations or one large multiple-site evaluation are not statistically significant (p-value > 0.20) for relevant outcomes, the practice may be classified as "null." If results from a random-effects meta-analysis of multiple evaluations or one large multiple-site evaluation indicate that a practice produces undesirable effects (p-value < 0.20), the practice may be classified as producing "poor" outcomes. If there is sufficient evidence of desirable effects on some outcomes but undesirable effects on other outcomes, we note the mixed results next to the program rating.

Results of our classifications are displayed at the end of this report and are also available on our website. ¹¹ Further information on the individual programs contained in the inventory can also be found on our website. ¹²

¹⁰ United States Census Bureau, 2010.

¹¹ Darnell, A., Goodvin, R., del Moral, S., Hicks, C., Wanner, P., & Westley, E. (2018). *Updated inventory of programs for the prevention and treatment of youth cannabis use.* (Document Number 18-12-3201). Olympia: Washington State Institute for Public Policy. ¹² WSIPP. *Benefit-cost results*.

Updates to the Inventory as of December 2018

Since the previous publication of this inventory, WSIPP has updated the benefit-cost results for all programs¹³ and has updated the literature reviews and meta-analyses for ten topics. Exhibit 3 provides an overview of programs for which we changed classifications and the reasons for classification changes.

These reasons include new research evidence, removing studies from the set of included studies, updating statistical calculations, and/or updating program costs. In this update of the cannabis inventory, the introduction of the null classification of programs also resulted in classification changes for some programs. In other cases, classifications changed because we based the rating on a broader set of outcomes than previously. Results have also changed due to updates to WSIPP's benefit-cost model and analyses. In November 2018 WSIPP completed an update to its benefit-cost model that reflects ongoing improvements to inputs and calculations across a variety of policy areas. We revised benefit-cost analyses using WSIPP's updated model for all eligible programs on the inventory.

¹³ WSIPP's meta-analytic and benefic-cost methods are described in detail in our Technical Documentation.

Exhibit 3Classification Changes from Last Update and Reasons for Change

Program name	Former classification	Current classification	Reason for classification change	
Athletes Training and Learning to Avoid Steroids (ATLAS)	Promising	Null	New null designation	
Caring School Community (formerly Child Development Project)	Promising	Null	New null designation	
Compliance checks for tobacco	Promising	Research-based	Classification based on revised set of outcomes	
keepin' it REAL	Promising	Null	New null designation	
Marijuana Education Initiative	No rigorous evaluations	Promising	Included new research	
Multicomponent environmental interventions to prevent youth alcohol use	Promising	Research-based	Classification based on revised set of outcomes	
Project SUCCESS	Poor outcomes	Null	New null designation	
Raising Healthy Children	Promising	Null	New null designation	
Strengthening Families for Parents and Youth 10-14	Research-based	Null	Included new evidence, removed studies from analysis	
Teen Marijuana Check-Up (TMCU)	Evidence-based	Research-based	Benefit-cost	

Two new programs were added from the previous version of this inventory: Adolescent Community Reinforcement Approach (A-CRA), classified as research-based, and Sources of Strength, which was found to have no rigorous evaluations. In addition, we split the formerly unified category of community-based mentoring into two discrete programs; both are classified as research-based. Finally, five programs are not rated in this inventory because we found no studies meeting criteria for meta-analysis.

- ✓ Life Skills Training (for high school students)
- ✓ Love and Logic
- ✓ Project Venture
- ✓ Red Cliff Wellness School Curriculum
- ✓ Sources of Strength

Limitations

The benefit-cost analyses in this report reflect only those outcomes that were measured in the studies we reviewed and are "monetizable" with the current WSIPP benefit-cost model. "Monetizable" means that we can link the outcome to future economic consequences, such as labor market earnings, criminal justice involvement, or health care expenditures. At this time we are unable to monetize some relevant outcomes, such as attitudes towards drug use or intentions to use.

Acknowledgments

We would like to thank Angie Funaiole and Sarah Mariani of the Division of Behavioral Health and Recovery and members of the Evidence-Based Practice Workgroup for their assistance in identifying programs for WSIPP review and aligning WSIPP's work with related efforts to assess the evidence for youth substance abuse interventions.

Updated Inventory of Programs for the Prevention and Treatment of Youth Cannabis Use

Revised March 8, 2019 for technical corrections

Program/intervention	Level of evidence	Effective for cannabis	Benefit-cost percentage	Reason program does not meet suggested evidence-based criteria (see full definitions below)	Percent minority
Prevention					
Alcohol Literacy Challenge (for college students)	•		48%	Benefit-cost/heterogeneity	24%
Alcohol Literacy Challenge (for high school students)	Р		58%	Single evaluation	33%
Athletes Training and Learning to Avoid Steroids (ATLAS)	Null			Weight of the evidence	22%
Brief intervention for youth in medical settings	•		41%	Benefit-cost	65%
Caring School Community (formerly Child Development Project)	Null		61%	Weight of the evidence	47%
Communities That Care	•		85%		33%
Compliance checks for alcohol	•			Heterogeneity	25%
Compliance checks for tobacco	•			Heterogeneity	28%
Coping Power Program	•		54%	Benefit-cost	80%
Curriculum-Based Support Group (CBSG)	Р			Single evaluation	90%
Familias Unidas	•		41%	Benefit-cost	100%
Family Check-Up (also known as Positive Family Support)	•	✓	49%	Benefit-cost	61%
Family Matters	•		73%	Benefit-cost/heterogeneity	22%
Guiding Good Choices (formerly Preparing for the Drug Free Years)	•		51%	Single evaluation	1%
InShape	•		47%	Single evaluation	28%
keepin' it REAL	Null		61%	Weight of the evidence	83%
LifeSkills Training	•		59%	Benefit-cost	38%
Lions Quest Skills for Adolescence	•	✓	65%	Benefit-cost	74%
Marijuana Education Initiative	Р			No rigorous evaluation measuring outcome of interest	
Mentoring: Community-based					
Mentoring: Big Brothers Big Sisters Community-Based (taxpayer costs only)	•		41%	Benefit-cost	57%
Mentoring: Community-based (taxpayer costs only)	•		66%	Benefit-cost	85%
Multicomponent environmental interventions to prevent youth alcohol use	•		28%	Benefit-cost/heterogeneity	19%
Multicomponent environmental interventions to prevent youth tobacco use	•		85%	Heterogeneity	21%
Positive Action	•	✓	95%		57%
Project ALERT	•		70%	Benefit-cost/heterogeneity	12%

● Evidence-based ● Research-based **P** Promising **Null** Null outcomes See definitions and notes on page 11.

Notes:

Many interventions produce effects on more than one type of outcome. This is especially true for prevention programs which often target multiple issues. WSIPP analyzes all relevant outcomes, and the evidence rating and benefit-cost results for a given program are often based on a variety of different outcomes, such as school achievement, substance use, mental health, and crime. In the column to the right of the level of evidence, we denote with a check mark those programs that have evidence of effectiveness for cannabis use specifically (p < 0.20). In addition to the overall level of evidence for a program, it is important to consider the specific outcomes the program has achieved to determine suitability for a given application. Each program name in the table links to a results page where a table, "Meta-Analysis of Program Effects," lists all of the outcomes analyzed for each program.

At least one cannabis outcome with a meta-analytic effect size estimate demonstrating reduced cannabis use with a p-value < 0.20.

Updated Inventory of Programs for the Prevention and Treatment of Youth Cannabis Use

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Program/intervention	Level of evidence	Effective for cannabis	Benefit-cost percentage	Reason program does not meet suggested evidence-based criteria (see full definitions below)	Percent minority
Prevention (continued)					
Project Northland	•		70%	Benefit-cost	36%
Project STAR	•	✓	67%	Benefit-cost/heterogeneity	5%
Project SUCCESS	Null		43%	Weight of the evidence	38%
Project Toward No Drug Abuse	•		56%	Benefit-cost	70%
PROSPER	•	✓	55%	Benefit-cost/heterogeneity	15%
Protecting You/Protecting Me	Р			Single evaluation	92%
Raising Healthy Children	Null			Weight of the evidence	18%
School-based tobacco prevention programs (including Project Towards No Tobacco Use)	•		99%		41%
SPORT	•		70%	Benefit-cost	49%
STARS (Start Taking Alcohol Risks Seriously) for Families	Р			Single evaluation	66%
Strengthening Families for Parents and Youth 10-14	Null		58%	Weight of the evidence	19%
Strong African American Families	•			Single evaluation	100%
Strong African American Families—Teen	•			Single evaluation	100%
Teen Intervene	•	✓	49%	Benefit-cost/heterogeneity	29%
Treatment					
Adolescent Assertive Continuing Care (ACC)	•	✓	37%	Benefit-cost/heterogeneity	27%
Adolescent Community Reinforcement Approach (A-CRA)	•			Single evaluation	59%
Functional Family Therapy (FFT) for adolescents with substance use disorder	•		35%	Benefit-cost	74%
Multidimensional Family Therapy (MDFT)	•	✓	25%	Benefit-cost	87%
Multidimensional Treatment Foster Care	•	✓	64%	Benefit-cost/heterogeneity	24%
Multisystemic Therapy (MST) for juveniles with substance use disorder	•	✓	52%	Benefit-cost	65%
Teen Marijuana Check-Up (TMCU)	•	✓	48%	Benefit-cost	35%

Evidence-based

• Research-based **P** Promising **Null** Null outcomes See definitions and notes on page 11.

Notes:

Many interventions produce effects on more than one type of outcome. This is especially true for prevention programs that often target multiple issues. WSIPP analyzes all relevant outcomes, and the evidence rating and benefit-cost results for a given program are often based on a variety of different outcomes, such as school achievement, substance use, mental health, and crime. In the column to the right of the level of evidence, we denote with a check mark those programs that have evidence of effectiveness for cannabis use specifically (p < 0.20). In addition to the overall level of evidence for a program, it is important to consider the specific outcomes the program has achieved to determine suitability for a given application. Each program name in the table links to a results page where a table, "Meta-Analysis of Program Effects," lists all of the outcomes analyzed for each program.

At least one cannabis outcome with a meta-analytic effect size estimate demonstrating reduced cannabis use with a p-value < 0.20.

Updated Inventory of Programs for the Prevention and Treatment of Youth Cannabis Use

Definitions and Notes:

Level of Evidence:

Evidence-based: A program or practice that has been tested in heterogeneous or intended populations with multiple randomized and/or statistically controlled evaluations, or one large multiple-site

> randomized and/or statistically-controlled evaluation, where the weight of the evidence from a systematic review demonstrates sustained improvements in at least one outcome. Further, "evidence-based" means a program or practice that can be implemented with a set of procedures to allow successful replication in Washington and, when possible, has been

determined to be cost-beneficial.

Research-based: A program or practice that has been tested with a single randomized and/or statistically-controlled evaluation demonstrating sustained desirable outcomes; or where the weight of

the evidence from a systematic review supports sustained outcomes as identified in the term "evidence-based" in RCW (the above definition) but does not meet the full criteria for

"evidence-based."

Promising practice: A program or practice that, based on statistical analyses or a well-established theory of change, shows potential for meeting the "evidence-based" or "research-based" criteria, which

could include the use of a program that is evidence-based for outcomes other than the alternative use.

Null outcome(s): If results from multiple evaluations or one large multiple-site evaluation indicate that a program has no significant effect on outcomes of interest (p-value > 0.20), a program is

classified as producing "null outcomes."

Reasons Programs May Not Meet Suggested Evidence-Based Criteria:

Benefit-cost: The proposed definition of evidence-based practices requires that, when possible, a benefit-cost analysis be conducted. We use WSIPP's benefit-cost model to determine whether a

program meets this criterion. Programs that do not have at least a 75% chance of a positive net present value do not meet the benefit-cost test. The WSIPP model uses Monte Carlo

simulation to test the probability that benefits exceed costs. The 75% standard was deemed an appropriate measure of risk aversion.

Heterogeneity: To be designated as evidence-based under current law or the proposed definition, a program must have been tested on a "heterogeneous" population. We operationalized

> heterogeneity in two ways. First, the proportion of minority program participants must be greater than or equal to the minority proportion of children under 18 in Washington State. From the 2010 Census, of all children in Washington, 68% were White and 32% minority. Thus, if the weighted average of program participants had at least 32% minorities

then the program was considered to have been tested on a heterogeneous population.

Second, the heterogeneity criterion can also be achieved if at least one of the studies has been conducted on children in Washington, and a subgroup analysis demonstrates the program is effective for minorities (p-value < 0.20). Programs passing the second test are marked with a ^. Programs that do not meet either of these two criteria do not meet the

heterogeneity definition. Programs whose evaluations do not meet either of these two criteria do not meet the heterogeneity definition.

No rigorous evaluation measuring outcome of interest: The program has not yet been tested with a rigorous outcome evaluation.

The program does not meet the minimum standard of multiple evaluations or one large multiple-site evaluation contained in the current or proposed definitions. Single evaluation:

Weight of evidence: To meet the evidence-based definition, results from a random-effects meta-analysis (p-value < 0.20) of multiple evaluations or one large multiple-site evaluation must indicate the

practice achieves the desired outcome(s). To meet the research-based definition, one single-site evaluation must indicate the practice achieves the desired outcomes (p-value < 0.20).

Other Definitions:

Benefit-cost estimation is repeated many times to account for uncertainty in the model. This represents the percentage of repetitions producing overall benefits that exceed Benefit-cost percentage:

costs. Programs with a benefit-cost percentage of at least 75% are considered to meet the "cost-beneficial" criterion in the "evidence-based" definition above.

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Washington State Institute for Public Policy

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