

# The Value of Harms Avoided: Calculating the Cost of a Fragmented System of Social Services

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## Introduction

Young people who experience disruptive, and sometimes traumatic, events such as homelessness, foster care placement, incarceration, unmet mental and physical health needs, or other drivers of chronic instability rely on our nation's child-serving agencies for the resources and support they need to navigate their circumstances, heal from trauma, and return to school, work, and life as healthy, productive participants in their communities. Unfortunately, too often that return to school, work, and life is not a stable or direct path. Rather, research suggests that many of the young people who experience these kinds of trauma have short- and long-term outcomes that lag their peers in terms of educational achievement, employment, income, and overall health and wellness.<sup>1</sup> In addition, many youths navigate several of these circumstances simultaneously or in quick succession, and the negative outcomes of these experiences tend to compound. For example, young people who age out of the foster care system are more likely to be homeless, experience unplanned or unwanted pregnancies, or end up in jail.<sup>2</sup> Youth who are incarcerated are more likely than non-incarcerated peers to be homeless after release.<sup>3</sup>

There are many reasons that existing service agencies struggle to provide young people with the supports needed to avoid negative outcomes in adulthood. Many child-serving agencies face high rates of staff turnover, large caseloads, and limited funding.<sup>4</sup> Distrust between agencies and families can make it difficult to provide needed services.<sup>5</sup> And the fragmented, siloed nature of child-serving agencies means that agencies aren't sharing information, which can result in wasted funds and resources, overlapping or duplicative services, and gaps in support for families.<sup>6</sup> There's no easy solution to these challenges. But one lever politicians and policymakers consistently pull when seeking to fix the system is funding. Cutting funding, increasing funding, using existing funding differently . . . proposals and legislation are all over the map, with no clear solutions in sight.

While far from a solution, what could help move the conversation forward is a more nuanced understanding of what's actually being spent to "reactively" address the traumatic, disruptive events that young people face, in comparison to what would be spent if these events were addressed more proactively. Some research attempts to quantify the costs and long-term financial impact of a given disruption; a 2014 report published by the Justice Policy Institute, for example, calculates the "full price tag" of youth incarceration.<sup>7</sup> A 2015 report by the National Council for Adoption looked at the human, social, and economic cost of youth who age out of the foster care system.<sup>8</sup> These and other similar efforts go a long way to expanding our understanding of the true "cost" of disruptive events on both the young people themselves and society as a whole. But they don't go far enough. To our knowledge, no one has attempted to calculate the cost of the current system *and* weigh it against the cost savings of a more coherent system—one in which a young person's initial involvement with a child-serving agency fully addresses their needs and provides a supported path to return to school, work, and life.

That's where this brief comes in. We've attempted to calculate both the cost of the current system across multiple disruptions that young people might face and the cost of a hypothetical



system in which the first intervention works—allowing the individual to leverage support systems in the future at the rate and cost of a person who did not experience a disruptive event as a child. We don't assume the eradication of the foster care system, for example, but we imagine a scenario in which foster care placement is no longer a predictor of later poor life outcomes, such as homelessness,<sup>9</sup> incarceration,<sup>10</sup> or un- or under-employment<sup>11</sup> but instead serves to stabilize a child's life and enable them to continue on a streamlined educational pathway on par with their peers.

Based on our calculation, such a system could free up more than **\$1.5 trillion** over the lifetimes of the cohort of youth currently served by care agencies. That is roughly \$612,000 per person currently served by any one system. Those dollars could be reinvested in communities, providing additional funds to schools, healthcare services, the environment, or anything else.

The rest of this brief details the methodology we used to arrive at this estimation. The Appendix includes a list of our sources as well as notes on data limitations and any assumptions we had to make. However, it's worth noting up front that our analysis relies heavily on existing research on the short- and long-term financial and societal costs of traumatic events that young people experience and is therefore only as good as the underlying research. We were judicious in choosing the highest-quality research available, but these kinds of calculations are incredibly complex. Young peoples' lives take many trajectories, and calculating costs—especially abstract costs "to society"—remains difficult. We've also limited our analysis to a small number of potential disruptive events that young people may face, and we correlate those events to a small number of adult outcomes. This is by no means a perfect calculation; there's lots of room for improvement—and we wholeheartedly invite others to improve upon it—but we hope it can serve as a meaningful starting point about the costs of the current system and the dollars that could be saved and reinvested elsewhere if the system worked better.

## **Overview of our approach**

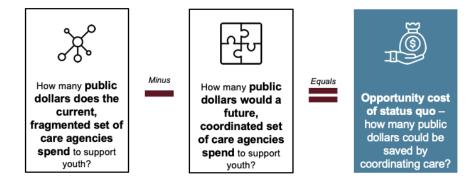
We set out to answer three key questions, summarized in Figure 1 below:

- (1) What is the cost of the current system? We know that any time a young person accesses services from a government agency, there are costs. Research also tells us that, on average, young people who experience disruption and trauma rely more heavily on the social service net as adults than those who did not experience disruption and trauma. As a result, we estimate the cost of the current system by calculating both immediate and future costs.
- (2) What would costs look like if the first intervention worked? We recognize that no system can ever fully eliminate disruptive and traumatic events. However, we believe that the system can get *better* at addressing those circumstances, ultimately allowing young people to receive the support and healing they need to achieve the same life outcomes as their peers. Here, again, we calculate immediate and future costs, estimating costs to the system if a disruptive or traumatic event in youth or young adulthood predicted neither additional traumatic events in youth nor greater-than-average reliance on social services in adulthood.



(3) What is the "value of harms avoided"? Here, we look at the difference between the current system and one in which the first intervention worked. How many dollars could be saved and repurposed elsewhere in the community?

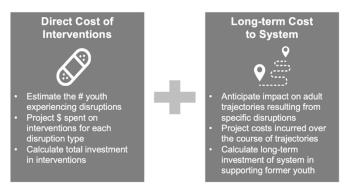
#### Figure 1. Calculating the "value of harms avoided"



## What is the cost of the current system?

Our process for estimating the cost of the current system was straightforward (see Figure 2). We estimated the overall cost of a disruption as the sum of public dollars spent in two cost buckets: the immediate, direct cost of the intervention (e.g., the cost to incarcerate a young person for a specified period) plus the long-term, future cost to the system (e.g., the cost to the system for incarcerating an adult, given the greater-than-average likelihood that an individual incarcerated as a young person will also be incarcerated as an adult).<sup>12</sup>

#### Figure 2. Calculating the cost of a disruption



As summarized in Figure 3, our calculation includes cost estimates for four disruptive, often traumatic experiences that young people might face: foster care placement; early, unplanned, and unwanted pregnancy; incarceration; and homelessness. It also includes cost estimates for the public impact of those disruptive experiences on adult outcomes in four categories: lost income (resulting from lower education outcomes and un-/under-employment), adult incarceration, adult homelessness, and use of public benefits.



We recognize that these are by no means the only disruptive events young people face. From caring for sick family members to working full time to struggling with unmet mental health needs, many things can disrupt young peoples' short- and long-term education and life trajectories. We chose to focus on four disruptive events that are known, counted, and have research documenting their correlational and causal relationships with negative adult outcomes. (Research tells us, for example, that young people who are incarcerated face worse mental and physical health outcomes,<sup>13</sup> are less likely to graduate from high school,<sup>14</sup> are less likely to be stably employed,<sup>15</sup> and are more likely to be incarcerated as adults.<sup>16</sup> Youth who are homeless face similarly poor long-term outcomes. They are more likely to abuse substances, suffer from mental health problems, and face barriers to education and employment.<sup>17</sup>)

## Figure 3. Disruptive youth experiences and corresponding adult outcomes

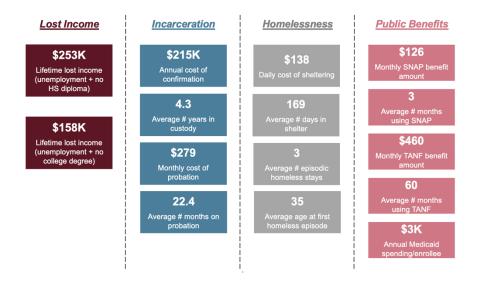


Despite the breadth of experiences and outcomes, we selected four youth experiences and four adult outcomes that are known and countable to make our estimation as concrete and reliable as possible. We conducted a three-step calculation to estimate the cost of the current system, including both direct costs and long-term costs. We began by calculating the direct costs associated with each of the four disruptive events that youth face. For example, we know that 672,594 young people nationwide were served by the foster care system in 2019,<sup>18</sup> the median number of months a young person spends in the foster care system is 14.7,<sup>19</sup> and the average monthly cost of foster care is about \$38 (in 2021 inflation-adjusted dollars).<sup>20</sup> By multiplying these numbers together, we estimate that the direct cost of the foster care system is approximately \$376 million. We repeated this calculation for each of the four disruptive events identified in Figure 3 (see the Appendix for a detailed list of inputs and sources for each).

The second step was to estimate the costs of the four adult outcomes identified in Figure 3 (see Figure 4 for a list of inputs and the Appendix for a detailed list of sources). We used a similar calculation to the one we used to estimate direct costs for youth services, determining, for example, the daily cost of sheltering a homeless adult (\$38),<sup>21</sup> the average number of days an adult is homeless (169),<sup>22</sup> and the average number of homeless episodes an adult has in their lifetime (3).<sup>23</sup> This tells us that the cost to the system for each homeless adult is approximately \$19,000 over that individual's lifetime.

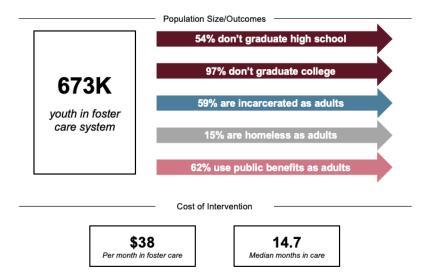


## Figure 4. Calculating the costs of adult outcomes



We then used existing research to help us understand the relationship between each youth event and each adult event (see Figure 5). For example, research tells us that only about 46% of young people in foster care graduate from high school (54% do not),<sup>24</sup> just 3% earn a bachelor's degree (97% do not),<sup>25</sup> 59% will be incarcerated as adults,<sup>26</sup> 15% will experience homelessness as adults,<sup>27</sup> and 62% will use public benefits at some point during adulthood.<sup>28</sup>

#### Figure 5. Calculating adult outcomes and costs associated with foster care placement



Using the research-based percentages of individuals who experience each disruptive event as youth who go on to experience each adult outcome, we estimated both the direct costs and the future costs of the current system. For example, slightly less than 15% of youth in foster care (97,526 youth) go on to experience homelessness as adults (see the gray line in Figure 5). At



an average of \$138 per day for an average of 169 days (see the gray Homelessness column in Figure 4), the total cost to shelter the 97,526 homeless adults who were previously in foster care is more than \$6.8 billion.

We repeated this calculation for each of the disruptive events youth may face and correlated adult outcomes. Based on these calculations, we estimated that the total cost of these four disruptions (including both the immediate, direct costs and the long-term, future costs) over the lifetime of the youth currently receiving services from care agencies is **\$1.7 trillion, the vast majority of which is unnecessary cost**.

## What would costs look like if the first intervention worked?

We used a similar approach to calculate the costs of a hypothetical system where individuals who experience a disruptive event as a young person *do not* go on to face adverse additional disruptive events in youth or adult outcomes at rates consistent with the current system. To make this calculation, we made two key assumptions. The calculations for each of these assumptions are detailed below:

- 1. Youth who come into contact with care agencies as a result of foster care placement; early, unwanted, and unplanned pregnancy; homelessness; or incarceration will receive the support they need to avoid subsequent disruptions in youth.
- 2. Youth who are effectively supported will experience adult trajectories and outcomes similar to those of the average population.

Assumption 1: Youth who come into contact with care agencies avoid subsequent disruptions in youth. While we do not assume that the future system will eliminate all causes of disruption and trauma, we do assume that the system will be effective enough that a young person's first contact with that system will provide them with the support, resources, and healing necessary to return to a trajectory similar to that of their peers. In other words, the system would continue to bear the immediate costs for each young person who enters the foster care system or who has a baby. But the supports that system provides to that young person would be effective enough to eliminate subsequent disruptions in youth that are correlated through research with a placement in foster care or an early pregnancy. For example, research suggests that 20% of youth experiencing homelessness subsequently experience early, unwanted, and unplanned pregnancies.<sup>29</sup> Currently the system would bear the immediate costs associated with homelessness and, for 20% of youth experiencing homelessness, the costs of early, unplanned, and unwanted pregnancies. But in a future system where we assume that contact with homeless services will put that young person back on the same trajectory as their peers and eliminate subsequent pregnancy, we reduce the total population of pregnant young people by the 20% of youth who were homeless and subsequently pregnant.

Assumption 2: Youth who come into contact with care agencies will experience adult outcomes and trajectories similar to the population average. Similar to the previous assumption, we do not assume that the future system will eliminate all adverse outcomes in adulthood. However, we do assume that interaction with the system in youth will ensure that young people have adult outcomes similar to the population average. For example, in the current state, research tells us that high school graduation rates are much lower for young people who experience disruption: While 88% of all Americans graduate high school,<sup>30</sup> just 46% of youth in foster care,<sup>31</sup> 50% of youth who experience an early pregnancy,<sup>32</sup> 75% of youth who are incarcerated,<sup>33</sup> and 66% of youth who experience homelessness go on to graduate high school.<sup>34</sup> In the future state, we



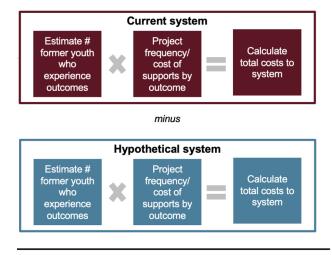
assume that all of the young people who experience a foster care placement, an early pregnancy, incarceration, or homelessness will go on to graduate at the same rate (90%) as their peers.

Using these assumptions, we adjusted the inputs to the current and future cost calculations described in the previous section and reran the math. (Importantly, we subtracted from the number of youth experiencing each event the number of youth for whom that was a second event, using the methodology described in Assumption 1 above. As a result, the total number of youth experiencing each disruption is smaller in this future state.)

Based on these calculations, we estimated that the total cost of these four disruptions in a hypothetical future system where young peoples' needs were met upon first intervention amounts to approximately **\$204 billion** over the lifetimes of the youth currently receiving services from care agencies.

## What is the "value of harms avoided"?

To understand the "value of harms avoided" — in other words, the dollars that could be saved and reinvested elsewhere in the community if young people got the support and healing they needed from their first intervention by a government agency — we simply subtracted the cost of a system where the first intervention worked from the cost of the current system (see Figure 6). This dollar amount represents the amount of money that could be saved and reinvested in the community if interventions worked to address young peoples' needs the first time they came into contact with an agency.



## Figure 6. Calculating the "value of harms avoided"

#### Value of harms avoided

Based on this calculation, the value of harms avoided is approximately **\$1.5 trillion** — more than \$612,000 over the lifetimes of each young person currently in the system.<sup>35</sup> These funds could be saved and reinvested in communities if our care agencies could better provide the kind



of support a young person experiencing disruption needs to return to school and an educational trajectory alongside their peers.

## Limitations to our approach

As noted in the introduction, this brief describes an initial attempt to calculate the current cost of disruptive events in a system that does not reliably or regularly provide young people with the resources and supports they need to experience adult outcomes on par with their peers. There are several limitations to our approach, described below. Importantly, these limitations should not be seen as undermining the calculation entirely but rather as an opportunity for other analysts and researchers to improve on our work. We're offering both a starting point and an invitation to do it better. With that in mind, we want to acknowledge those limitations in our work.

First and foremost, available data are, to put it mildly, limited. Because agencies operate independently from one another, they capture data independently — meaning it's very likely that thousands of young people are counted two, three, or more times across different systems. We cannot, and did not attempt to, fix that underlying issue. In addition, agencies count the people in their care differently. For example, counts of individuals experiencing homelessness are often reported as point-in-time counts, meaning that the data reflect the number of people receiving services on a given day. Those point-in-time counts aren't typically averaged over a month or a year. Similarly, counts of young women giving birth are typically totaled over the course of a fiscal year. Where possible, we adjusted data to be consistent.

We also rely exclusively on numbers gleaned from existing research to understand, for example, the rate of youth in foster care who end up homeless as adults or the rate of youth who are incarcerated who end up relying on public benefits as adults. Each of these individual studies is bound by particular contexts, and include their own assumptions and limitations. Therefore, our aggregation of data across multiple reports no doubt creates fundamental inconsistencies within our analysis.

Second, research tells us that traumatic events often compound. Youth who have been homeless or in foster care are more likely to be incarcerated than their peers,<sup>36</sup> while youth exiting the justice system or the foster care system are more likely to end up homeless.<sup>37</sup> Pregnant and parenting youth often face additional barriers if they are also homeless or in the foster care or juvenile justice systems.<sup>38</sup> These are complicated cycles, and one disruptive event often cascades into many more, compounding the adversity these young people face and the barriers to their success and livelihood as adults. Compounded events likely lead to even worse outcomes for young people. We did not try to model these compounding impacts in this calculation. (We did, however, attempt to model what happens to costs in a system that supports young people upon their first interaction, where an initial disruptive event *does not* lead to subsequent disruptive events.)

Third, this calculation only captures the effects of four concrete disruptions that youth experience and four discrete adult outcomes. Many other life circumstances can disrupt a young person's life, from hospitalization to needing to work full time. Many of these events are uncounted and, often, uncountable. These experiences often result in adult outcomes that we did not attempt to capture here, such as increased medical costs associated with higher rates of mental health service usage stemming from childhood trauma. This model does not make any attempt to account for experiences or outcomes outside of those explicitly listed here.



Finally, we do not attempt to model the impact of any particular "solution" to fix the current system. As described in the introduction, there are many reasons that the current system gets the outcomes it does, from budget and staffing challenges in individual agencies to broader, systemic problems, like fragmentation across agencies. We don't attempt in this calculation to disentangle these challenges, and we also don't attempt to model the impacts on the system of a particular approach. Instead, we simply hypothesize a future state in which the system works as it should, the first time a young person interacts with it.

## Conclusion

Taxpayers spend millions of dollars annually on services to support young people when they experience traumatic, disruptive events. There are a host of reasons why it's often difficult for young people to get the services they need to manage their circumstances, heal from trauma, and return to school, work, and life. Without this support and healing, these young people go on to experience challenges in adulthood, including homelessness, incarceration, reliance on public benefits, and un- and under-employment, at rates much higher than their peers.

We wanted to understand how much money could be repurposed for other investments if these systems worked most of the time. This is by no means an authoritative model; rather, it is an initial attempt to build a coherent model across multiple, siloed data sets. There's a lot of room for improvement here, and this is an open invitation to other scholars, researchers, and academics to build on what we've begun.



## Appendix

As described in the limitations section of this report, we rely on data from a wide variety of sources, including government agencies and nonprofits, as well as on research by universities, think tanks, and other organizations. The data do not align perfectly across all these sources; however, we feel that the data we included are the best, most reliable sources of data that exist given the differences in how agencies and organizations collect and report information.

Throughout our review of data and research, we sought to balance reliability with recency. As a result, some of the cost estimates found in the sources above are quite old. We applied a 2% inflation rate to convert all dollar amounts to 2021 dollars. This inflation rate was also applied to the long-term cost estimations, inflating the annual cost of the adult outcome to the year in which the adult is expected to experience it.

The following tables provide links to the sources we used for all our data inputs, as well as any notes, caveats, or assumptions we made when we used those data in the model.

Disruption	Age ranges of youth
Foster care placement	All individuals ages 0-20
Early, unplanned, unwanted pregnancy	All females under 19
Incarceration	All youth included in the state juvenile justice system (0-18), state adult system (ages 18-24), and federal justice system
Homelessness	In calculating direct costs to the system, we included only those children and youth 0-18 (unaccompanied or in families) classified as sheltered homeless. In projecting the impact of homelessness on adult outcomes, we included all children and youth 0-18 (unaccompanied or in families) classified as sheltered, unsheltered, and "doubled-up."

#### Table 1. Age ranges of youth included in calculations

#### Table 2. Data sources for inputs to current state calculations for youth disruptive events

Data point	Source	Notes
Foster care		
Total youth in foster care	"The AFCARS Report: Preliminary FY 2019 Estimates as of June 23, 2020 — No. 27," U.S. Department of Health and Human Services, Administration for Children and Families, Administration on Children, Youth and Families, Children's Bureau, https://www.acf.hhs.gov/sites/default/files/docume nts/cb/afcarsreport27.pdf.	
Average months spent in foster care	"Foster Care Statistics 2018," U.S. Department of Health and Human Services, Administration for Children and Families, Children's Bureau, May 2020, https://www.childwelfare.gov/pubPDFs/foster.pdf.	Median amount of time spent in care was 14.7 months, converted to days.



Cost per month spent in foster care	Dana Connelly and Kristina Rosinsky, "Federal and State/Local Child Welfare Agency Spending per Child, 2004–2014," Child Trends, June 2018, <u>https://www.childtrends.org/wp-</u> <u>content/uploads/2018/06/Federal-and-State-</u> <u>Local-Child-Welfare-Agency-Spending-per-</u> <u>child_ChildTrends_June2018.pdf</u> .	This represents approximately \$172 in federal spending per child- by-child welfare agencies during that fiscal year. In SFY 2014, child welfare agencies in the United States spent \$16.3 billion in state and local funds, or approximately \$222 per child.
Unplanned, unwanted	d, early pregnancy	
Number of births per year	Table 21. Births, by gestational age (weeks) and by age and race and Hispanic origin of mother: United States, 2018, Sum of Under 15 and 15-19. Joyce A. Martin, Brady E. Hamilton, Michelle J.K. Osterman, and Anne K. Driscoll, "Births: Final Data for 2018," U.S. Department of Health and Human Services and Centers for Disease Control and Prevention <i>National Vital Statistics Report</i> 68, no. 13 (November 27, 2019), https://www.cdc.gov/nchs/data/nvsr/nvsr68/nvsr6	
Percentage of teen moms having repeat (second, third) births	8 13-508.pdf. "Preventing Repeat Teen Births," Centers for Disease Control and Prevention Vital Signs, April 2013, https://www.cdc.gov/vitalsigns/teenpregnancy/ind ex.html.	Nearly one in five births to teen mothers, ages 15 to 19, is a repeat birth. Most repeat births (86%) are second births; 13% are third. We increased the number of teen births to account for the 20% of births that are first and second children. In the future state, we did not include these repeat births, assuming the youth received the help they needed from the system after the first early, unplanned pregnancy.
Average Medicaid charges for vaginal birth	"The Cost of Having a Baby in the United States," Truven Health Analytics, January 2013, <u>https://www.nationalpartnership.org/our-</u> work/resources/health-care/maternity/archive/the- cost-of-having-a-baby-in-the-us.pdf.	
Average Medicaid charges for cesarean birth	"The Cost of Having a Baby," <u>https://www.nationalpartnership.org/our-</u> <u>work/resources/health-care/maternity/archive/the-</u> <u>cost-of-having-a-baby-in-the-us.pdf.</u>	



		1
Percentage of total	Table 2, page 12: "The Cost of Having a Baby,"	
births that are	https://www.nationalpartnership.org/our-	
vaginal	work/resources/health-care/maternity/archive/the-	
	cost-of-having-a-baby-in-the-us.pdf.	
Percentage of total	Table 2, page 12: "The Cost of Having a Baby,"	
births that are	https://www.nationalpartnership.org/our-	
cesarean	work/resources/health-care/maternity/archive/the-	
	cost-of-having-a-baby-in-the-us.pdf.	
Percentage of teen	"The Cost of Having a Baby,"	
mothers receiving	https://www.nationalpartnership.org/our-	
public benefits	work/resources/health-care/maternity/archive/the-	
public belients	cost-of-having-a-baby-in-the-us.pdf.	
Dereentege of		
Percentage of	Fully formula fed + partially breastfed. See: "Table	
mothers using WIC	7-1: Participant Distributions Used to Estimate	
formula	Costs for Current and Revised Food Packages,"	
	National Academy of Sciences, May 1, 2017,	
	https://www.ncbi.nlm.nih.gov/books/NBK435907/t	
	able/tab_7-1/?report=objectonly.	
Cost to feed an	Monthly per-participant WIC food package costs	
infant	after rebates as redeemed for infants and	
	mothers. See: Victor Oliveira, Mark Prell, and	
	Xinzhe Cheng, "The Economic Impacts of	
	Breastfeeding:	
	A Focus on USDA's Special	
	Supplemental Nutrition Program for	
	Women, Infants, and Children (WIC)," U.S.	
	Department of Agriculture Economic Research	
	Report Number 261, February 2019,	
	https://www.ers.usda.gov/webdocs/publications/9	We limited our calculation
	<u>1273/err-261.pdf?v=5277.9</u> .	of the direct costs
Cost to feed a	Table 4.1: Nicole Kline, Kevin Meyers Mathieu,	associated with raising a
toddler	and Jeff Marr, "WIC Participant and Program	child to only include the
	Characteristics 2018 Food Packages and Costs	expense of a child to the
	Final Report," U.S. Department of Agriculture,	first four years of a child's
	November 2020, <u>https://fns-</u>	life. This four-year limit
	prod.azureedge.net/sites/default/files/resource-	corresponds with the
	files/WICPC2018FoodPackage.pdf.	
Monthly cost for	Figure 1, Center-based infant child care: Simon	mom's age upon reaching
infant childcare	Workman and Steven Jessen-Howard,	"adulthood" rather than the
	"Understanding the True Cost of Child Care for	entire cost over the child's
	Infants and Toddlers," Center for American	lifetime.
	Progress, November 15, 2018,	
	https://www.americanprogress.org/issues/early-	
	childhood/reports/2018/11/15/460970/understandi	
	ng-true-cost-child-care-infants-toddlers/.	
Monthly cost for		4
Monthly cost for	Figure 1, Center-based toddler child care:	
toddler childcare	Workman and Jessen-Howard, "Understanding	
	the True Cost,"	
	https://www.americanprogress.org/issues/early-	
	childhood/reports/2018/11/15/460970/understandi	
	ng-true-cost-child-care-infants-toddlers/.	



Number of years in		Setting equal to the number
childcare		of years that teen moms collect WIC benefits, this assumption should be consistent across benefits.
Percentage of children ages 0-4 in center-based childcare program	Figure 2. Primary Child Care Arrangement for Preschoolers (Ages 0-4): "Child Care in State Economies – 2019 Update," Committee for Economic Development of the Conference Board, https://www.ced.org/childcareimpact.	
Youth incarceration		
Youth in custody (0- 18)	"Statistical Briefing Book: Juveniles in Corrections, One Day Count of Juveniles in Residential Placement Facilities, 1997-2018," U.S. Department of Justice, Office of Juvenile Justice and Delinquency Prevention, <u>https://www.ojjdp.gov/ojstatbb/corrections/qa0820</u> 1.asp?qaDate=2018.	The count of state prisoners aged 18-24 was limited to 2013. The Bureau of Justice Statistics (BJS) only conducts a study on the age of state prison populations every 10 years.
Youth on probation (0-18)	Page 50: Cases resulting in formal probation: Sarah Hockenberry and Charles Puzzanchera, "Juvenile Court Statistics 2018," National Center for Juvenile Justice, April 2020, <u>https://ojjdp.ojp.gov/sites/g/files/xyckuh176/files/m</u> <u>edia/document/juvenile-court-statistics-2018.pdf</u> , and "Statistical Briefing Book: Juveniles in Corrections, One Day Count of Juveniles in Residential Placement Facilities, 1997-2018," U.S. Department of Justice, Office of Juvenile Justice and Delinquency Prevention, <u>https://www.ojjdp.gov/ojstatbb/corrections/qa0820</u> <u>1.asp?qaDate=2018</u> .	The next report will not be released until 2023. The count of persons aged 18-24 on parole is limited to 15 states only. BJS releases an annual survey of those on probation/parolees, but it doesn't include any age data. The only report we could find that had age ranges of the parolee
Youth in custody (19-24) Youth on probation (19-24)	Federal: Sum of Under 18, Ages 18-21, Ages 22- 25: "Statistics: Inmate Age," Federal Bureau of Prisons, February 12, 2021, <u>https://www.bop.gov/about/statistics/statistics_inm</u> <u>ate_age.jsp.</u> Table 2: Page 663, No. of Persons on Probation Age Group 18-24: Christopher Wildeman, Alyssa W. Goldman, and Emily A. Wang, "Age-Standardized Mortality of Persons on Probation, in Jail, or in State Prison and the General Population, 2001-2012," Public Health Reports, October 11, 2019,	population was limited to 15 states (Arkansas, Florida, Kentucky, Louisiana, Maryland, Montana, New York, North Carolina, Ohio, Oregon, South Carolina, Tennessee, Texas, Utah, and Wisconsin) and is therefore missing probation counts for the other 35 states.
	https://journals.sagepub.com/doi/full/10.1177/003 3354919879732.	The youth on probation (19- 24) data set shows the population of youth on probation for the period of 2001-2012. This is not a snapshot in time; therefore, data has been divided by number of years to come up with an annual average.



Cost per day spent	"Policy Brief 2020—Sticker Shock: The Cost of	
in custody	Youth Incarceration," Justice Policy Institute, July	
/incarcerated	30, 2020,	
	http://www.justicepolicy.org/research/12928.	
Average deve epent		Weighted everage of dave
Average days spent	"Statistical Briefing Book: Juveniles in	Weighted average of days
in custody	Corrections, Percent of Residents Remaining in	since admission by
/incarcerated	Placement by Placement Status, 2017," U.S.	percentage of population in
	Department of Justice, Office of Juvenile Justice	custody.
	and Delinquency Prevention,	
	https://www.ojjdp.gov/ojstatbb/corrections/qa0840	
<u> </u>	1.asp?qaDate=2017&text=no&maplink=link1.	
Cost per month	"Supervision Costs Significantly Less Than	Daily cost of supervision by
spent on probation	Incarceration in Federal System," United States	probation officers.
	Courts, July 18, 2013,	
	https://www.uscourts.gov/news/2013/07/18/super	
	vision-costs-significantly-less-incarceration-	
	federal-system.	
Average months on	"States Can Shorten Probation and Protect Public	
probation	Safety," Pew Charitable Trusts, December 3,	
	2020, <u>https://www.pewtrusts.org/en/research-and-</u>	
	analysis/reports/2020/12/states-can-shorten-	
	probation-and-protect-public-safety.	
Youth homelessness		
Sheltered homeless	EXHIBIT 3.3: Demographic Characteristics of	
youth (0-24)	Homeless People in Families With Children	
	(Sheltered People in Families Under 18 and Ages	
	18-24) PLUS EXHIBIT 4.1: PIT Estimates of	
	Unaccompanied Homeless Youth (Sheltered	
	Unaccompanied Youth Under 18 and Aged 19-	
	24): Meghan Henry et al., "The 2019 Annual	
	Homeless Assessment Report (AHAR) to	
	Congress—Part 1: Point-in-Time Estimates of	
	Homelessness,"	
	U.S. Department of Housing and Urban	
	Development, Office of Community Planning and	
	Development, January 2020,	
	https://www.huduser.gov/portal/sites/default/files/	
	pdf/2019-AHAR-Part-1.pdf.	
Unsheltered	EXHIBIT 3.3: Demographic Characteristics of	
homeless youth (0-	Homeless People in Families With Children	
24)	(Unsheltered People in Families Under 18 and	
	Ages 18-24) PLUS EXHIBIT 4.1: PIT Estimates of	
	Unaccompanied Homeless Youth (Unsheltered	
	Unaccompanied Youth Under 18 and Aged 19-	
	24): Meghan Henry et al., "The 2019 Annual	
	Homeless Assessment Report (AHAR) to	
	Congress—Part 1: Point-in-Time Estimates of	
	Homelessness,"	
	U.S. Department of Housing and Urban	
	Development, Office of Community Planning and	
	Development, January 2020,	



	https://www.huduser.gov/portal/sites/default/files/	
Doubled-up/couch- surfing youth (grades K-12) Average cost per day in a homeless shelter	pdf/2019-AHAR-Part-1.pdf.Table 6. Number of enrolled homeless students, by primary nighttime residence: "Federal Data Summary School Years 2015-16 Through 2017-18: Education for Homeless Children and Youth," National Center for Homeless Education, January 2020, https://nche.ed.gov/wp- content/uploads/2020/01/Federal-Data-Summary- SY-15.16-to-17.18-Published-1.30.2020.pdf.Dennis P. Culhane, "Testing a Typology of Family Homelessness Based on Patterns of Public Shelter Utilization in Four U.S. Jurisdictions: Implications for Policy and Program Planning," University of Pennsylvania, School of Social Policy and Practice, May 15, 2007, https://repository.upenn.edu/cgi/viewcontent.cgi?a rticle=1069&context=spp_papers.	Because shelter days can be readily converted into estimated costs based on jurisdictional reimbursement rates, estimated average household costs by cluster are provided in Table 1. The long-stay groups have an average cost of \$21,692 in Columbus (\$116 per day); \$30,812 per family in Philadelphia (\$94.23 per day); \$48,440 in
		Massachusetts (\$110 per
		day); and \$55,200 in New York (\$100 per day).
Average length of stay in a homeless shelter	EXHIBIT F.1: Average Lengths of Time Homeless (in Days) in Emergency Shelter and Transitional Housing by Geographic Category: Meghan Henry, Anna Mahathey, and Meghan Takashima, "The 2019 Annual Homeless Assessment Report (AHAR) to Congress—Part 2: Estimates of Homelessness in the United States," U.S. Department of Housing and Urban Development, Office of Community Planning and Development, January 2020, <u>https://www.huduser.gov/portal/sites/default/files/ pdf/2018-AHAR-Part-2.pdf</u> .	
Number of times spent homeless throughout life	Figure 3.1: Number of Homeless Episodes (n = 650), weighted average: "Final Report — Street Outreach Program Data Collection Study," United States Department of Health & Human Services, Family and Youth Services Bureau, April 12, 2016, <u>https://www.acf.hhs.gov/archive/fysb/report/final-report-street-outreach-program-data-collection- study</u> .	



## Table 3. Data sources for long-term outcomes of youth who experienced disruptive events

Data point	Source	Notes
Education outcomes		
	Molly Sarubbi, Emily Parker, and Brian A.	
	Sponsler, "Strengthening Policies for Foster	
	Youth Postsecondary Attainment," Education	
Percentage of youth	Commission of the States, October 2016,	
in foster care who	https://www.ecs.org/wp-	
don't receive a HS	content/uploads/Strengthening_Policies_for_Fost	
diploma	er Youth Postsecondary Attainment-1.pdf.	
Percentage of youth	"Reproductive Health: Teen Pregnancy," Centers	
who experience an	for Disease Control and Prevention, March 1,	
early, unplanned	2019,	
pregnancy who don't	https://www.cdc.gov/teenpregnancy/about/index.	
receive a HS	<u>htm</u> .	
diploma		
	Appendix data: Highest educational attainment	
	for formerly incarcerated people: Lucius	
Deveryte as of worth	Couloute, "Getting Back on Course: Educational	
Percentage of youth	Exclusion and Attainment Among Formerly	
who are	Incarcerated People," Prison Policy Initiative,	
incarcerated who	October 2018,	
don't receive a HS diploma	https://www.prisonpolicy.org/reports/education.ht ml - table3.	
	Average of state data from Table 12. Adjusted	
	cohort graduation rates among homeless	
	students: "Federal Data Summary School Years	
	2015-16 Through 2017-18: Education for	
	Homeless Children and Youth," National Center	
Percentage of youth	for Homeless Education, January 2020,	
who experience	https://nche.ed.gov/wp-	
homelessness who	content/uploads/2020/01/Federal-Data-	
don't receive a HS	Summary-SY-15.16-to-17.18-Published-	
diploma	<u>1.30.2020.pdf</u> .	
	Sarubbi, Parker, and Sponsler, "Strengthening	
Percentage of youth	Policies,"	
in foster care who	https://www.ecs.org/wp-	
don't graduate	content/uploads/Strengthening_Policies_for_Fost	
college	er Youth Postsecondary Attainment-1.pdf.	
Demonstration	"Postcard: Teen Pregnancy Affects Graduation	
Percentage of youth	Rates," National Conference of State	
who experience an	Legislatures, June 17, 2013,	
early, unplanned pregnancy who don't	https://www.ncsl.org/research/health/teen- pregnancy-affects-graduation-rates-	
graduate college	postcard.aspx.	
Percentage of youth	Appendix data: Highest educational attainment	
who are	for formerly incarcerated people: Couloute,	
incarcerated who	"Getting Back on Course,"	
don't graduate	https://www.prisonpolicy.org/reports/education.ht	
college	ml - table3.	
oonege		



	"Data Quest," California Department of Education, <u>https://data1.cde.ca.gov/dataquest/</u> .	CA homeless college enrollment rates: Students experiencing homelessness in California who graduate from high school are less likely to enroll in college: 50% compared to 64% of all high school graduates, per CDE.
		This is enrollment in college, NOT college graduation rates. This is a data limitation.
Percentage of youth who experience homelessness who don't graduate college		We reduced this enrollment statistic by the national average dropout rate: About 62% of students who began seeking a bachelor's degree at a four-year institution in fall 2012 completed that degree at the same institution within six years.
Adult incarceration		
Percentage of youth in foster care who become incarcerated	Average of female and male data in Table 103: Mark E. Courtney et al., "Midwest Evaluation of the Adult Functioning of Former Foster Youth: Outcomes at Age 26," Chapin Hall at the University of Chicago, 2011, <u>https://www.chapinhall.org/wp-</u> <u>content/uploads/Midwest-Eval-Outcomes-at-Age-</u> <u>26.pdf</u> .	
Percentage of youth who experience an early, unplanned pregnancy who become incarcerated		Because there aren't rigorous data on the likelihood of early, unplanned pregnancy leading to incarceration in adulthood, we cannot establish a causal or correlational relationship. We have made a simplifying assumption that there is no link between these two disruptive life events.
Percentage of youth who are incarcerated who become	Anna Aizer and Joseph J. Doyle, "Juvenile Incarceration, Human Capital and Future Crime: Evidence from Randomly-Assigned Judges," <i>Quarterly Journal of Economics</i> 130, no. 2 (2015): 759-803,	Sum of normal chances of becoming incarcerated to increased chances of incarceration as an adult if incarcerated as a youth



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incarcerated as	https://mitsloan.mit.edu/shared/ods/documents/?	
Adults Percentage of youth who experience homelessness who	DocumentID=4287. Stephen Metraux, Caterina G. Roman, and Richard S. Cho, "Incarceration and Homelessness," 2007 National Symposium on Homelessness Research, https://www.huduser.gov/portal/publications/pdf/p 9.pdf.	Only a handful of studies examine the overlap of prison and homelessness, and the extant literature has limited comparability due to variation in the study populations and the time frames used. However, taken together, the research suggests that about a tenth of the population coming into prisons have recently been homeless, and at least the same percentage of those who leave prisons end up
become		homeless, for at least some
incarcerated		period of time.
Adult homelessness	L	
Percentage of youth in foster care who experience homelessness in adulthood	Table 10. Homelessness and Couch Surfing Since Most Recent Interview — "Ever since last interview": Courtney et al., "Midwest Evaluation," <u>https://www.chapinhall.org/wp-</u> <u>content/uploads/Midwest-Eval-Outcomes-at-Age-</u>	
Percentage of youth who experience an early, unplanned pregnancy who experience homelessness in adulthood	26.pdf. "Shelter and Housing Options for Domestic and Sexual Violence Victims in Massachusetts— Recommendation Report," Housing and Shelter Study Commission of Chapter 260 of the Acts of 2014, Massachusetts Office for Victim Assistance (MOVA), August 2017, <u>https://malegislature.gov/Bills/190/SD2315.pdf</u> . Appendix Table 2: 98 Sheltered Homeless (per 10,000): Lucius Couloute, "Nowhere to Go:	Thirty percent of expectant and parenting teens in Massachusetts experienced homelessness in fiscal year 2012. The original source is no longer available online but is quoted in this MA house bill. Data limited to pregnant teens in MA. Using the Sheltered Homeless population ONLY
Percentage of youth who are incarcerated who experience homelessness in adulthood Percentage of youth	Homelessness Among Formerly Incarcerated People," Prison Policy Initiative, August 2018, https://www.prisonpolicy.org/reports/housing.html	Research based on HUD's
who experience homelessness who experience homelessness in adulthood	Assistance for Children and Families," <i>Journal of Children and Poverty</i> 26, no. 2 (2020): 293-313, https://www.tandfonline.com/doi/full/10.1080/107 96126.2020.1813535.	own data shows that parents who had experienced childhood homelessness were 37% more likely to have



Use of public benefits		experienced repeated or persistent homelessness in adulthood before a shelter stay than parents who had not experienced childhood homelessness (Zachary and Shinn, 2018).
	Table 51. Receipt of Government Benefits During	
Percentage of youth in foster care who access public benefits in adulthood	the Past Year by Gender, Average of Female and Male "Any Means Tested Program": Courtney et al., "Midwest Evaluation," <u>https://www.chapinhall.org/wp-</u> <u>content/uploads/Midwest-Eval-Outcomes-at-Age-</u> <u>26.pdf</u> .	
Percentage of youth who experience an early, unplanned pregnancy who access public benefits in adulthood	See note.	There is no data on the relationship between youth early, unplanned pregnancy and adult use of public benefits. Instead, we make the simplifying assumption that all youth who experience unplanned, unwanted, and early pregnancy and do not graduate HS will access public benefits.
Percentage of youth who are incarcerated who access public benefits in adulthood	See note.	There is no data on the relationship between youth incarceration and adult use of public benefits. Instead, we make the simplifying assumption that all youth who are incarcerated and do not graduate HS will access public benefits.
Percentage of youth who experience homelessness who access public benefits in adulthood	See note.	There is no data on the relationship between youth homelessness and adult use of public benefits. Instead, we make the simplifying assumption that all youth who experience homelessness and do not graduate HS will access public benefits.

## Table 4. Data sources for long-term costs to the system for adult outcomes

Data point	Source	Notes
Adult incarceration		



	"Policy Brief 2020—Sticker Shock: The	
	Cost of Youth Incarceration," Justice	
	Policy Institute, July 30, 2020,	
	http://www.justicepolicy.org/research/12	
Annual cost of confinement	928.	
Annual cost of commercial	"A Matter of Time: The Causes and	We task the average of all
		We took the average of all
	Consequences of Rising Time Served	states that had available
	in America's Prisons," Urban Institute,	data.
	July 2017,	
	https://apps.urban.org/features/long-	
Average time served in years	prison-terms/trends.html.	
	"Supervision Costs Significantly Less	
	Than Incarceration in Federal System,"	
	United States Courts, July 18, 2013,	
	https://www.uscourts.gov/news/2013/07	
Cost per month spent on	/18/supervision-costs-significantly-less-	
probation	incarceration-federal-system.	
	"States Can Shorten Probation and	
	Protect Public Safety," Pew Charitable	
	Trusts, December 3, 2020,	
	https://www.pewtrusts.org/en/research-	
	and-analysis/reports/2020/12/states-	
Average months spent on	can-shorten-probation-and-protect-	
probation	public-safety.	
probation	E. Ann Carson and William J. Sabol,	The median age at
		The median age at
	"Aging of the State Prison	admission increased from
	Population, 1993–2013," U.S.	29 years in 1993 to 32
	Department of Justice, Bureau of	years in 2003 and 2013.
Average admission age of	Justice Statistics, May 2016,	
adults who become	https://www.bjs.gov/content/pub/pdf/asp	
incarcerated	p9313.pdf.	
Adult homelessness		
	Dennis P. Culhane, "Testing a Typology	
	of Family Homelessness Based on	
	Patterns of Public Shelter Utilization in	
	Four U.S. Jurisdictions: Implications for	
	Policy and Program	
	Planning," University of Pennsylvania,	
	School of Social Policy and Practice,	
	May 15, 2007,	
1	may 10, 2001,	
	https://repository.upenn.edu/cgi/viewco	
Average cost per dav spent in	https://repository.upenn.edu/cgi/viewco	
Average cost per day spent in a homeless shelter	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa	
Average cost per day spent in a homeless shelter	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa pers.	
	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa pers. Meghan Henry, Anna Mahathey, and	
	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa pers. Meghan Henry, Anna Mahathey, and Meghan Takashima, "The 2019 Annual	
	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa pers. Meghan Henry, Anna Mahathey, and Meghan Takashima, "The 2019 Annual Homeless Assessment Report (AHAR)	
	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa pers. Meghan Henry, Anna Mahathey, and Meghan Takashima, "The 2019 Annual Homeless Assessment Report (AHAR) to Congress—Part 2: Estimates of	
	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa pers. Meghan Henry, Anna Mahathey, and Meghan Takashima, "The 2019 Annual Homeless Assessment Report (AHAR) to Congress—Part 2: Estimates of Homelessness in the United States,"	
	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa pers. Meghan Henry, Anna Mahathey, and Meghan Takashima, "The 2019 Annual Homeless Assessment Report (AHAR) to Congress—Part 2: Estimates of	
	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa pers. Meghan Henry, Anna Mahathey, and Meghan Takashima, "The 2019 Annual Homeless Assessment Report (AHAR) to Congress—Part 2: Estimates of Homelessness in the United States,"	
a homeless shelter	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa pers. Meghan Henry, Anna Mahathey, and Meghan Takashima, "The 2019 Annual Homeless Assessment Report (AHAR) to Congress—Part 2: Estimates of Homelessness in the United States," U.S. Department of Housing and Urban Development, Office of Community	
	https://repository.upenn.edu/cgi/viewco ntent.cgi?article=1069&context=spp_pa pers. Meghan Henry, Anna Mahathey, and Meghan Takashima, "The 2019 Annual Homeless Assessment Report (AHAR) to Congress—Part 2: Estimates of Homelessness in the United States," U.S. Department of Housing and Urban	



	https://www.huduser.gov/portal/sites/def	
	ault/files/pdf/2018-AHAR-Part-2.pdf.	
	Culhane, "Testing a Typology of Family	
	Homelessness,"	
Average number of homeless	https://repository.upenn.edu/cgi/viewco	
stays for adults experiencing	ntent.cgi?article=1069&context=spp_pa	
episodic homelessness	pers.	
	Brooke Spellman et al., "Costs	
	Associated With First-Time	
	Homelessness for Families and	
	Individuals," U.S. Department of	
	Housing and Urban Development,	
	Office of Policy Development and	
	Research, March 2010,	
Average age of adults at first	https://www.huduser.gov/publications/p	
entry into homeless shelters	df/Costs Homeless.pdf.	
Public benefits	<u>di/Costs_Homeless.pdi</u> .	
	"SNAD: Fraguently Asked Outstiers"	
	"SNAP: Frequently Asked Questions," SNAP to Health!,	
	https://www.snaptohealth.org/snap/snap	
Monthly SNAP benefit	<u>-frequently-asked-questions/</u>	
	"SNAP: Frequently Asked Questions,"	
Average number of months	https://www.snaptohealth.org/snap/snap	
receiving benefit	-frequently-asked-questions/.	
	"Final Rule: SNAP Requirements for	
	Able-Bodied Adults Without	
	Dependents," U.S. Department of	
	Agriculture Food and Nutrition Service,	
Frequency of eligibility to	December 5, 2019,	
apply for SNAP benefits	https://www.fns.usda.gov/snap/fr-	
(years)	<u>120419</u> .	
	See note.	The model assumes that
		SNAP benefits are received
Age of first using SNAP		starting in the first year of
benefits		adulthood.
	Figure 4. TANF Cash Assistance	
	Maximum Monthly Benefit Amounts for	
	a Single Parent Family with Two	
	Children, 50 States and the District of	
	Columbia, July 2018   Average of	
	Maximum Monthly Benefit Across Each	
	of the 50 States: Gene Falk and Patrick	
	A. Landers, "The Temporary Assistance	
	for Needy Families (TANF) Block Grant:	
	Responses to Frequently Asked	
	Questions," Congressional Research	
	Service, January 25, 2021,	
· · · · · · · · · · · · · · · · · · ·	https://fas.org/sgp/crs/misc/RL32760.pd	
Monthly TANF benefit	<u>f</u> .	
	"Policy Basics: Temporary Assistance	
	for Needy Families," Center on Budget	
Months using TANF	and Policy Priorities, February 6, 2020,	
		1



		Γ
	https://www.cbpp.org/research/family-	
	income-support/temporary-assistance-	
	for-needy-families.	
Age of first using TANF benefits	See note.	The model assumes that TANF benefits are received starting in the first year of adulthood.
	United States spending for Adults: "State Health Facts: Medicaid Spending per Enrollee (Full or Partial Benefit, FY2014," Kaiser Family Foundation,	
Annual Medicaid spending	https://www.kff.org/medicaid/state- indicator/medicaid-spending-per- enrollee/?currentTimeframe=0&sortMod el=%7B"colld":"Location","sort":"asc"%7	
per enrollee	<u>D</u> .	
Age of first using Medicaid benefits	See note.	The model assumes that Medicaid benefits are received starting in the first year of adulthood.
Lost income as a result of lower	r educational outcomes	
Chances of long-term unemployment spell if didn't graduate HS Chances of intermediate-term unemployment spell if didn't graduate HS		
Chances of short-term unemployment spell if didn't graduate HS		
Chances of long-term unemployment spell if didn't graduate college Chances of intermediate-term	Table 1. Descriptive statistics of a sample of men, born in the years 1957–64, by whether they ever had an LT, IT, or ST unemployment spell from labor	
unemployment spell if didn't graduate college Chances of short-term	market entry through 2009   Less than high school "Had LT spell": Donna S. Rothstein, "An Analysis of Long-Term	
unemployment spell if didn't graduate college Length of long-term	Unemployment," Monthly Labor Review, U.S. Bureau of Labor Statistics, July 2016,	
unemployment (weeks) Length of intermediate-term unemployment (weeks)	https://www.bls.gov/opub/mlr/2016/articl e/an-analysis-of-long-term- unemployment.htm.	
Length of short-term unemployment (weeks) Number of long-term		
unemployment spells for those who experience long- term unemployment		
Number of intermediate-term unemployment spells for those who experience		



intermediate-term		
unemployment		
Number of short-term		
unemployment spells for		
those who experience short-		
term unemployment		
Median lifetime earnings: less		
than HS diploma		
Median lifetime earnings: HS	Figure 1: Anthony P. Carnevale,	
diploma only	Stephen J. Rose, and Ban Cheah, "The	
Median lifetime earnings:	College Payoff: Education Occupations,	
some college, no degree	Lifetime Earnings," Georgetown	
Median lifetime earnings:	University Center on Education and the	
associate's degree	Workforce,	
Median lifetime earnings:	https://www2.ed.gov/policy/highered/reg	
bachelor's degree	/hearulemaking/2011/collegepayoff.pdf.	
Median lifetime earnings:	· · · · · ·	
graduate or professional		
degree		
Percentage of U.S.		
population with less than HS		
diploma		
Percentage of U.S.		
population with HS diploma		
only		
Percentage of U.S.	"Educational Attainment (Table	
population with some college,	S1501)," United States Census Bureau,	
no degree	https://data.census.gov/cedsci/table?q=	Estimate for population 25
Percentage of U.S.	educational	years and over
population with associate's	attainment&tid=ACSST1Y2019.S1501&	
degree	<u>hidePreview=true</u> .	
Percentage of U.S.		
population with bachelor's		
degree		
Percentage of U.S.		
population with graduate or		
professional degree		
	Carnevale, Rose, and Cheah, "The	
	College Payoff,"	
Length of lifetime earnings	https://www2.ed.gov/policy/highered/reg	
(years)	/hearulemaking/2011/collegepayoff.pdf.	
	"Taxing Wages — The United States,"	Average of the tax wedge
	Organisation for Economic Co-	for a single worker
Average tax rate paid by both	operation and Development,	
employers and employees in	http://www.oecd.org/tax/tax-	
the U.S.	policy/taxing-wages-united-states.pdf.	

## Table 5. Data sources for relationships between disruptive events in youth



Chances of early, unplanned p	regnancy	
	Table 84: Mark E. Courtney et al.,	
	"Midwest Evaluation of the Adult	
	Functioning of Former Foster Youth:	
	Outcomes at Age 26," Chapin Hall at	
Chances of becoming	the University of Chicago, 2011, https://www.chapinhall.org/wp-	
pregnant if youth is in the	content/uploads/Midwest-Eval-	
foster care system	Outcomes-at-Age-26.pdf.	
		The current state already
		increases this population for
		the first and second children
		of youth who experience multiple early, unplanned
		pregnancies. As such, we
Chances of becoming		use the total births in one
pregnant if youth has already		year rather than the number
experienced an early,		of early, unplanned
unplanned pregnancy		pregnancies.
		Because there isn't rigorous
		data on the likelihood of incarceration leading to
		early, unplanned pregnancy
		in adolescence, we cannot
		establish a causal
		relationship. If data could
		become available, this could
		be updated for it. For now,
Chances of becoming		we have made a simplifying assumption that there is NO
pregnant if youth has been		link between these two
incarcerated		disruptive life events.
	Sanna J. Thompson, Kimberly A.	
	Bender, Carol M. Lewis, and Rita	
	Watkins, "Runaway and Pregnant:	
	Risk Factors Associated With	
	Pregnancy in a National Sample of	
	Runaway/Homeless Female Adolescents," <i>Journal of Adolescent</i>	
	Health 43, no. 2 (August 2008): 125-	
Chances of becoming	132,	
pregnant if youth has been	https://www.ncbi.nlm.nih.gov/pmc/articl	
homeless	es/PMC2742657/.	
Chances of incarceration		
	Nicholas Zill, "Report: Adoption From	
	Foster Care: Aiding Children While Saving Public Money," Brookings, May	
	19, 2011,	
Portion of the state prison	https://www.brookings.edu/research/ad	
population that were in foster	option-from-foster-care-aiding-children-	
care	while-saving-public-money/.	



r	1	
	Zill, "Report: Adoption From Foster	
	Care,"	
Portion of the federal prison	https://www.brookings.edu/research/ad	
population that were in foster	option-from-foster-care-aiding-children-	
care	while-saving-public-money/	
Chances of becoming incarcerated if youth experienced an early, unplanned pregnancy		Note: Because there isn't rigorous data on the likelihood of early, unplanned pregnancy leading to incarceration in adolescence, we cannot establish a causal relationship. If data could become available, this could be updated for it. For now, we have made a simplifying assumption that there is NO link between these two disruptive life events.
	Figure 3: "No Place for Kids: The Case	
	for Reducing Juvenile Incarceration,"	
	Annie E. Casey Foundation, October	
Chances of becoming	4, 2011,	
incarcerated if youth has	https://www.aecf.org/resources/no-	
already been incarcerated	place-for-kids-full-report/.	
Chances of becoming incarcerated if youth has been homeless	Lisa Pilnik, "Implementing Change: Addressing the Intersections of Juvenile Justice and Youth Homelessness for Young Adults," <u>http://www.juvjustice.org/sites/default/fi</u> <u>les/resource-files/Implementing</u> <u>Change - Juvenile Justice and Youth</u> <u>Homelessness.pdf</u> .	
Chances of homelessness		
Chances of experiencing homelessness if youth is in the foster care system	Amy Dworsky, Laura Napolitano, and Mark Courtney, "Homelessness During the Transition From Foster Care to Adulthood," American Journal of Public Health (Suppl 2) 103, no. S2 (2013), <u>https://www.ncbi.nlm.nih.gov/pmc/articl</u> <u>es/PMC3969135/pdf/AJPH.2013.3014</u> <u>55.pdf</u> .	
		Because there isn't rigorous
Chances of experiencing homelessness if youth experienced an early,		data on the likelihood of early, unplanned pregnancy leading to homelessness in adolescence, we cannot establish a causal relationship. If data could
unplanned pregnancy		become available, this could



	the state of the Profile
	be updated for it. For now, we have made a simplifying assumption that there is NO link between these two disruptive life events.
Appendix Table 2: Lucius Couloute, "Nowhere to Go: Homelessness Among Formerly Incarcerated People," Prison Policy Initiative, August 2018, <u>https://www.prisonpolicy.org/reports/housing.html</u> .	
	Our current state cost of intervention for youth homelessness multiplies the per-stay cost in a homeless shelter times 3.6 (or the average number of times homeless youth in a survey reported experiencing homelessness throughout their adolescent lives). Instead of reducing the population number, we are reducing the total cost per disruption by removing the factor of 3.6 and assuming that the first time a youth goes to a homeless shelter, they are given the supports they need to avoid future periods of homelessness
ent	
See note.	Because of a lack of data, we did not attempt to establish a link between any of the disruptive events and subsequent foster care placement and did not adjust the future state foster care population.
	Among Formerly Incarcerated People," Prison Policy Initiative, August 2018, https://www.prisonpolicy.org/reports/ho using.html.

## Table 6. Education outcomes for the average population

Data point	Source	Notes
Average chances of not	"Educational Attainment (Table	Estimate for population 25
graduating HS	S1501)," United States Census	years and over



	B	
	Bureau,	
	https://data.census.gov/cedsci/table?q	
	<u>=educational</u>	
	attainment&tid=ACSST1Y2019.S1501	
	<u>&amp;hidePreview=true</u> .	
	"Educational Attainment (Table	
	S1501)," United States Census	
	Bureau.	
	https://data.census.gov/cedsci/table?q	
	=educational	
Average chances of not	attainment&tid=ACSST1Y2019.S1501	
graduating college	&hidePreview=true.	
9.52554119.001090	Thomas P. Bonczar and Allen J. Beck,	
	"Bureau of Justice Statistics Special	
	Report: Lifetime Likelihood of Going to	
	State or Federal Prison," U.S.	
	Department of Justice, Office of	
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Average changes of		
Average chances of	https://www.bjs.gov/content/pub/pdf/Ll	
becoming incarcerated	gsfp.pdf.	
	Jack Tsai, "Lifetime and 1-Year	
	Prevalence of Homelessness in the	
	U.S. Population: Results From the	
	National Epidemiologic Survey on	
	Alcohol and Related Conditions-III,"	
	Journal of Public Health 40, no. 1	
	(March 2018): 65-74,	
Average chances of	https://academic.oup.com/jpubhealth/a	
experiencing homelessness	rticle/40/1/65/3074503.	
	"Public Assistance Income or Food	Takes the number of
	Stamps/SNAP in the Past 12 Months	households with cash public
	for Households," United States Census	assistance or food
	Bureau,	stamps/SNAP divided by the
	https://data.census.gov/cedsci/table?g	total number of households
	=snap	in the U.S.
Average chances of using	use&tid=ACSDT5Y2019.B19058&hide	
public benefits	Preview=false.	



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