EITC and Child Tax Credit Promote Work, Reduce Poverty, and Support Children’s Development, Research Finds

By Chuck Marr, Chye-Ching Huang, Arloc Sherman, and Brandon DeBot

The Earned Income Tax Credit (EITC) and Child Tax Credit (CTC), which go to millions of low- and moderate-income working families each year, provide work, income, educational, and health benefits to its recipients and their children, a substantial body of research shows. In addition, recent groundbreaking research suggests the income from these tax credits leads to benefits at virtually every stage of life. For instance, research indicates that children in families receiving the tax credits do better in school, are likelier to attend college, and can be expected to earn more as adults.

Numerous studies show that working-family tax credits boost work effort. The EITC expansions of the 1990s contributed as much to the subsequent increases in work among single mothers and female heads of households as the welfare changes of that period, extensive research has found. Women who benefited from those EITC expansions also experienced higher wage growth in subsequent years than otherwise-similar women who didn’t benefit. And, by boosting the employment and earnings of working-age women, the EITC boosts the size of the Social Security retirement benefits they ultimately will receive.

In addition, the research shows that by boosting the employment of single mothers, the EITC reduces the number of female-headed households receiving cash welfare assistance. As the University of California’s Hilary Hoynes writes, the EITC “may ultimately be judged one of the most successful labor market innovations in U.S. history.” The CTC is newer and has not been studied to the same extent, but it shares key design features with the EITC: it is available only to working families and phases in as earnings increase.

The EITC may also improve the health of infants and mothers, research indicates. Infants born to mothers who could receive the largest EITC increases in the 1990s had the greatest improvements in such birth indicators as low-weight births and premature births. As one researcher

1 Indivar Dutta-Gupta and Jimmy Charite co-authored previous versions of this paper.
notes, “income transfers to pregnant women through a work-conditional tax subsidy substantially improves the health of their new born children.” Similarly, mothers who received the largest EITC increases in the 1990s had greater improvements in their own health indicators.

Moreover, research suggests that income from the EITC and CTC leads to improved educational outcomes for young children in low-income households. For each $1,000 increase in annual income over two to five years, children's school performance improves on a variety of measures, including academic test scores. A credit that's worth about $3,000 (in 2005 dollars) during a child's early years may boost his or her achievement by the equivalent of about two extra months of schooling.

The credits’ success in boosting work effort and earnings extends into the next generation, the new research indicates. Children whose families receive more income from refundable tax credits do better in school, are likelier to attend college, and likely earn more as adults; they also are likelier to avoid the early onset of disabilities and other illnesses associated with child poverty, which further enhances their earnings ability as adults, some research suggests.

Finally, the EITC and CTC greatly reduce poverty for working families. These working-family tax credits lifted 9.4 million people out of poverty in 2013, including 5 million children, and made 22 million other people less poor. And by encouraging work, the EITC and CTC have an additional anti-poverty effect not counted in these figures. Recent research on EITC’s effects on single mothers’ employment shows that counting the employment-boosting effect of the EITC nearly doubles its anti-poverty effect for these families. These anti-poverty effects are particularly important since large numbers of Americans work for low wages, the minimum wage's purchasing power is substantially lower than in the 1960s and 1970s, and job growth thus far in the economic recovery has been disproportionately concentrated in low-wage occupations.

As economists Austin Nichols and Jesse Rothstein summarize in a recent review of the literature on the EITC:

Researchers have documented beneficial effects on poverty, on consumption, on health, and on children's academic outcomes. The magnitude of these effects is large: Millions of families are brought above the poverty line, and estimates of the effects on children indicate that this may have extremely important effects on the intergenerational transmission of poverty as well. Taking all of the evidence together, the EITC appears to benefit recipients — and especially their children — substantially.4

See the chart below for a summary of the research on the EITC and CTC.5

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How the EITC and CTC Work

The Earned Income Tax Credit (EITC) and Child Tax Credit (CTC) not only reward work and reduce poverty for low- and moderate-income working families with children, but a growing body of research shows that they help families at virtually every stage of life:

**Improved infant and maternal health:** Researchers have found links between increased EITCs and improvements in infant health indicators such as birth weight and premature birth. Research also suggests receiving an expanded EITC may improve maternal health.

**Better school performance:** Elementary and middle-school students whose families receive larger refundable credits (such as the EITC and CTC) tend to have higher test scores in the year of receipt.

**Greater college enrollment:** Young children in low-income families that benefit from expanded state or federal EITCs are more likely to go to college, research finds. Researchers attribute this to lasting academic gains from higher EITCs in middle school and earlier. Increased tax refunds also boost college attendance by making college more affordable for families with high-school seniors, research finds.

**Increased work and earnings in the next generation:** For each $3,000 a year in added income that children in a working-poor family receive before age 6, they work an average of 135 more hours a year between ages 25 and 37 and their average annual earnings increase by 17 percent, leading researchers have found.

**Social Security retirement benefits:** Research suggests that by boosting the employment and earnings of working-age women, the EITC boosts their Social Security retirement benefits, which should reduce poverty in old age. (Social Security benefits are based on how much one works and earns.)

Note: For further details on the research see Chuck Marr, Chye-Ching Huang, Arloc Sherman, and Brandon DeBot, “EITC and Child Tax Credit Promote Work, Reduce Poverty, and Support Children’s Development, Research Finds,” CBPP.
“refundable,” meaning that if it exceeds a low-wage worker’s federal income tax liability, the Internal Revenue Service refunds the balance to the taxpayer.

The EITC’s primary recipients are working parents with children, though a small EITC is available to working adults without dependent children. The credit rises with earned income until reaching a maximum (which varies by the number of qualified children) and then phases out as income rises further. For 2015, the phase-outs begin at about $18,810 for single filers with children and about $23,630 for married filers with children, and the average size of the credit is likely to be close to its 2013 value of $3,074 for a family with children and $281 for a family without children. Twenty-six states plus the District of Columbia also offer a state EITC, typically set at a percentage of the federal EITC.

The CTC, which provides taxpayers up to $1,000 for each dependent child under age 17, is designed to help families offset the costs of raising children. Unlike the EITC, the CTC not only helps low- and moderate-income families but extends to middle-income and most upper-middle-income families as well, because it phases out at higher income levels than the EITC.

Like the EITC, the CTC increases with earnings, but unlike the EITC, the first $3,000 in earnings do not count when determining the CTC. Families receive a refund equal to 15 percent of their earnings above $3,000, up to the credit’s full $1,000-per-child value. For example, a mother with two children who works full time at the federal minimum wage — earning $14,500 in 2015 — will receive a refund of $1,725 (15 percent of $11,500). This refundable part of the CTC, called the Additional Child Tax Credit, is particularly beneficial to lower-wage workers.

The CTC is newer than the EITC and has not been studied to the same extent, but like the EITC it is available only to working families and phases in as earnings increase. Research strongly suggests that low-income families do not understand how much of their tax refund comes from the EITC or the CTC, but they do understand that if they work they can qualify for significant tax-based

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7 The credit value is determined by IRS tables in the Form 1040 instructions that use $50 increments for the filer’s earned income amount. For example, if a filer earned $8,278, the filer would be in the $8,250-$8,300 earnings bracket, which uses $8,275 to calculate the dollar amount for the EITC for all filers with earnings in that bracket.

8 CBPP calculations based on Internal Revenue Service Compliance Data Warehouse data.


11 The CTC begins to phase out at incomes of $75,000 for single parents filing as heads of household, $110,000 for married couples filing jointly, and $55,000 for married couples filing separately. The income level at which the credit phases out completely depends on the number of qualifying children. For example, the credit phases out at $150,000 for married couples filing jointly with two children.
benefits. Moreover, research shows that boosting working families’ incomes is associated with improvements in children’s educational (and other) outcomes, strongly suggesting that both credits improve opportunities for children.

**Encouraging Work**

The EITC significantly increases recipients’ work effort, according to substantial research over the past two decades. (As noted, the CTC shares key design features with the EITC, suggesting that it may also have positive work effects.)

The EITC is particularly effective at encouraging work among single mothers working for low wages. It is considered among the most effective policies for increasing the work and earnings of female-headed families.

Single mothers are the group most likely to be eligible for the EITC because they tend to have low earnings and qualifying children. As Figure 1 shows, single mothers experienced a marked increase in paid employment following the EITC expansions of the early 1990s, relative to married women and single women without children. Economic studies controlling for other policy and economic changes during this period also found that the most significant gains in employment attributable to the EITC occurred among mothers with young children and mothers with low education. In their literature review, Nichols and Rothstein note “essentially all authors agree that the EITC expansion led to sizeable increases in single mothers’ employment rates, concentrated among less-skilled women and among those with more than one qualifying child.”

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17 Nichols and Rothstein also note that the research finds “effects on hours of work were generally small.” Nichols and Rothstein, p. 40. For further discussion of the effects on hours worked, see footnote 24.
Other research has found that EITC expansions between 1984 and 1996 accounted for more than half of the large increase in employment among single mothers during that period. The EITC expansions of the 1990s “appear to be the most important single factor in explaining why female family heads increased their employment over 1993-1999,” University of Chicago economist Jeffrey Grogger has concluded. Those expansions, he found, actually had a larger effect in increasing employment among single mothers than the 1996 welfare law. (See Figure 2.) In addition, women who were eligible to benefit the most from those EITC expansions apparently had higher wage growth in later years than other similarly situated women.

By boosting employment among single mothers, the EITC also reduces cash welfare caseloads significantly. The EITC expansions of the 1990s induced more than a half a million families to move from cash welfare assistance to work, research shows. In fact, Grogger’s research found those EITC expansions likely contributed about as much to the fall between 1993 and 1999 in the

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number of female-headed households receiving cash welfare assistance as time limits and other welfare reform changes.\textsuperscript{22}

Moreover, by boosting the employment and earnings of working-age women, the EITC also boosts their Social Security retirement benefits, which are based on a person’s work history. Higher Social Security benefits, in turn, reduce the extent and severity of poverty among seniors.\textsuperscript{23}

There is little evidence that when EITC benefits phase down as a family’s income rises above certain levels, workers substantially reduce their work hours.\textsuperscript{24} Instead, research shows, the EITC has a powerful effect in inducing many more workers to enter the labor force and go to work.

**Improving Infant and Maternal Health**

The EITC may improve the health of infants and mothers, research finds. Research looking at the EITC’s effects on maternal health found that women who were eligible for the largest EITC expansion in the 1990s experienced significant improvement in a variety of health indicators, including reduced mental stress, compared to similar women who would not have been eligible for the expansion.\textsuperscript{25}

\begin{figure}
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\includegraphics[width=\textwidth]{figure2.png}
\caption{EITC Biggest Factor Boosting Single Mothers’ Employment, Research Finds}
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\textsuperscript{22} Grogger, 2003.


\textsuperscript{24} Once EITC recipients reach the phase-out range, recipients with no children have their EITC reduced by 8 cents for each additional dollar earned, recipients with one child have their EITC reduced by 16 cents, and recipients with two or more children have their EITC reduced by 21 cents. In theory, the phase-out could discourage additional hours of work among those with incomes in the phase-out range. The only studies to find a reduction in work hours, however, have found such effects to be small. Moreover, those studies generally found such effects only among married EITC recipients, and many analysts believe this effect is likely due largely to the fact that the additional income the EITC provides allows the second earner in some married families to choose to spend more time raising children and less time working out of the home. Analysts across the political spectrum have observed that the fact that the EITC may lead some married parents to make such a choice should not be regarded as an adverse policy outcome. See David T. Ellwood, “The Impact of the Earned Income Tax Credit and Social Policy Reforms on Work, Marriage, and Living Arrangements,” National Tax Journal, Vol. 53, No. 4, December 2000, \url{http://papers.ssrn.com/sol3/papers.cfm?abstract_id=251104}.

Researchers at the University of California at Davis compared changes in birth outcomes for mothers who likely received the largest increases in their EITCs under the expansions of the 1990s and mothers who likely received the smallest increases. They found that infants born to mothers who likely received the largest increases had the greatest improvements in a number of birth indicators, such as fewer low-weight births and premature births. Also, mothers who likely received the largest increases were likelier to receive prenatal care, including care before the critical third trimester, and to smoke and drink less during pregnancy. Changes in health insurance coverage did not seem to be a primary explanation for these improved health outcomes.

Other studies have also found strong associations between EITC expansions and improvements in birth weight and indicated that mothers receiving the EITC were less likely to smoke during pregnancy than similarly situated mothers who did not receive it.

**Boosting Children’s School Achievement and College Attendance Rates**

Income support from the EITC and CTC has been linked to better academic achievement for elementary and middle-school students. Studies have found that children in low-income families that receive larger state or federal EITCs tend to score better on tests of reading and (particularly) math, compared with children from largely similar families not targeted for large credit expansions. They also are more likely to finish high school and go on to college.

In addition, larger tax refunds make college more affordable for low-income families with high-school seniors and are associated with significant increases in their college attendance.

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26 The authors controlled for welfare reform, changes in Medicaid or CHIP income eligibility thresholds, the unemployment rate, and the unique impact that belonging to a particular demographic or socio-economic group, living in a particular state, having a particular number of children, and idiosyncrasies of a particular year might have on the incidence of low birth weights for each group of women in their analysis.


A recent working paper examining data from before and after changes to federal and state EITCs finds that children receiving larger EITCs tend to do better academically in both the short and long term. 31 Receipt of larger EITCs is linked to:

- **Higher test scores, particularly in math.** Larger EITCs are linked to improved test scores in the year of receipt for both elementary and middle-school students.
- **Higher high-school graduation rates.** Children who qualify for a larger EITC in childhood are more likely to graduate high school or complete a General Educational Development (GED) degree.
- **Higher college attendance rates.** The larger the EITC a child’s family receives, the more likely he or she will enter college by age 19 or 20.

The size of these effects is noteworthy. The paper estimates that a child in a family eligible for the largest EITC expansion in the early 1990s would have a 4.8 percentage-point higher probability of completing one or more years of college by age 19 — an improvement comparable to the effect of major educational interventions such as reducing classroom size. Moreover, the findings show that the academic benefits of larger EITCs extend to children of all ages and racial and ethnic groups, with some suggestive evidence that the benefits are slightly larger for minority children and boys.

This paper adds to an already substantial body of evidence that the EITC and CTC boost school performance:

- Researchers who analyzed data for grades 3-8 from a large urban school district and the corresponding U.S. tax records for families in the district linked additional income from the EITC and CTC with significant increases in students’ test scores. 32
- Likewise, researchers who studied nearly two decades of data on mothers and their children concluded that students with additional income from the EITC had higher combined math and reading test scores by large magnitudes. 33

Research not directly on the tax credits also suggests that income-boosting policies like the EITC and CTC improve school performance. Researchers analyzing ten anti-poverty and welfare-to-work experiments found a consistent pattern of better school results for low-income children in programs that provided more income. Each $1,000 increase (in 2001 dollars) in annual income — the equivalent of a full CTC for one child — for two to five years led to modest but statistically significant increases in young children’s school performance on a number of measures, including test scores. The researchers noted that their results have important implications for policies that link increases in income to increases in employment, like the EITC and CTC. 34

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34 Duncan, Morris, and Rodrigues, 2011.
The working-family tax credits can also improve a low-income child’s chances of attending college by making it more affordable. A recent paper finds that college enrollment rates tend to rise with family earnings up to the earnings level where a family qualifies for the maximum EITC (the EITC “kink point”), at which point both enrollment rates and the size of a family’s EITC level off.35 (See Figure 3, reproduced from the study.) This striking relationship, the researchers conclude, is evidence that, for a high-school senior whose family almost or just qualifies for the maximum EITC, a $1,000 increase in tax refunds received in the spring increases college enrollment rates the next fall by roughly 10 percent.

The study’s authors suggest that receiving the EITC in the spring before college helps cash-strapped families afford college: “[T]he tax refunds that we study may effectively alleviate credit constrains for families with high-school seniors, allowing youths from these families to attend college.” They also find that both federal and state EITCs increase college enrollment, noting, “[T]he enrollment response is larger in states that offer tax refunds tied to federal refundable credits.”

Nichols and Rothstein conclude from their review of the literature: “Taking all of the estimates together, there is robust evidence of quite large effects of the EITC on children’s academic achievement and attainment, with potentially important consequences for later-life outcomes.”36

**Boosting Work Effort and Earnings When Children Reach Adulthood**

Not only do the EITC and CTC boost the work effort of parents, particularly single mothers, but the benefits extend to the next generation, recent research suggests.

Because higher family income from working-family tax credits is associated with higher skills, children in the family likely earn more as adults. In fact, researchers projected that each dollar of income through tax credits may increase the real value of the child’s future earnings by more than one dollar.37


36 Nichols and Rothstein, p. 39.

37 Chetty, Friedman, and Rockoff 2011.
For young children raised in low-income families, even slight increases in family income — regardless of the source — are associated with more work and higher earnings in adulthood, relative to children raised in otherwise similar circumstances. For children in low-income families, an extra $3,000 in annual family income (in 2005 dollars) between their prenatal year and fifth birthday is associated with an average 17 percent increase in annual earnings and an additional 135 hours of work when they become adults, compared to similar children whose families do not receive the added income, researchers have found. (See Figure 4.)

One reason for poorer children’s lower work effort and earnings, according to an emerging field of research, may be that they are more likely to experience poor health as children, which in some cases carries into adulthood. Thus, children in households that receive slightly higher incomes appear likelier to avoid the early onset of disabilities and other illnesses associated with child poverty, which apparently helps them earn more as adults.

In short, studies indicate that young children in low-income families that receive income support (which could include the EITC and CTC) perform better in school, on average. They also are likely to be born healthier and to grow up to work more and earn more. “When analyzing the costs and benefits of policies such as the Earned Income or Child Tax Credit,” researchers from Harvard and Columbia University advised, “policymakers should carefully consider the potential impacts of these programs on future generations.”

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38 The authors refer to pre-tax income here. However, they had fairly similar findings when they re-estimated their models using childhood income after federal income taxes.

39 The paper says 19 percent, but our calculations, confirmed by one of the authors, show that this is a typographical error and 17 percent is correct. Duncan, Ziol-Guest, and Kalil, 2010.


41 Chetty, Friedman, and Rockoff, 2011.
Reducing Poverty

The EITC and CTC reduce current poverty and inequality in at least two ways (1) by supplementing the wages of low-paid poor or near-poor workers; and (2) by encouraging work.

Many Americans work for low wages. For example, the food-preparation sector (cooks, servers, dishwashers, and the like), which employs more than 12 million people and accounts for about one in every 11 jobs, provided a median wage of only $9.20 an hour in 2014. A full-time, year-round worker at that wage level would have annual earnings of $18,400 — or less than 80 percent of the poverty line for a two-adult, two-child family.42

For many workers, working substantial hours is not enough to lift them out of poverty.43 The recent recession and slow recovery have aggravated the situation. The share of workers paid below-poverty wages (hourly wages too low to support a family of four at the poverty line even with full-time, year-round work) rose from 25.5 percent in 2009 to 28 percent in 2012.44 While mid-wage jobs made up 60 percent of the jobs lost during the recession, they made up only 22 percent of the jobs gained during the recovery, according to an analysis by the National Employment Law Project that goes through the first quarter of 2012.45 Lower-wage jobs, in contrast, represented 21 percent of the jobs lost during the recession but 58 percent of jobs gained during the recovery.

The share of Americans earning low wages may keep growing even as labor market conditions improve. “Good jobs are not disappearing for everyone, but . . . they are largely disappearing for less-educated workers,”46 Urban Institute economist Harry Holzer and his coauthors from the National Science Foundation, the University of Chicago, and the Treasury Department have written.

Meanwhile, policymakers have let the minimum wage erode substantially. At $7.25 an hour in 2015, the federal minimum wage is 24 percent below its 1968 level, after adjusting for inflation.47 The minimum wage and EITC are both important policies that help low-wage workers make ends meet, and both should be strengthened. They are also complementary: they function best when

43 For example, over 11 million workers lived below the official poverty line in 2013. Among these workers, the median number of weeks worked per year was 40. The median number of hours worked per week was 35. CBPP analysis of March 2014 Current Population Survey.
45 The figures here contrast job losses between the first quarter of 2008 and the first quarter of 2010 with job gains between the first quarter of 2010 and the first quarter of 2012. The National Employment Law Project defines lower-wage jobs as those with median hourly wages from $7.69 to $13.83 (in 2012 dollars) and mid-wage jobs as those with median hourly wages from $13.84 to $21.13. To place these figures in context, in 2012, the year-round, full-time earnings of a lower-wage job are equivalent to between 66 percent and 119 percent of a two-adult, two-child family’s federal poverty threshold. National Employment Law Project, “The Low-Wage Recovery and Growing Inequality,” August 2012, http://nelp.3cdn.net/8ce4a46a37e56939c0_qim6bkhe0.pdf.
both are strong because each helps fill gaps that the other can’t fully address on its own, and neither is sufficient by itself.\footnote{For example, the EITC adjusts to reflect family size and income, while the minimum wage doesn’t. The EITC’s pro-work effects may put modest downward pressure on wages, an effect that the minimum wage counters by establishing a wage floor. The EITC is provided as a tax refund that comes once a year and can help with large, one-time expenses, while the minimum wage is reflected in each paycheck. For more, see: Robert Greenstein, “Strengthen Minimum Wage – and EITC,” Center on Budget and Policy Priorities, May 27, 2015, \url{http://www.cbpp.org/blog/strengthen-minimum-wage-and-eitc}.}

In addition, the median or typical wage paid for half of the ten occupations that the Bureau of Labor Statistics expects to generate the most new jobs over the 2012-2022 period — home health aides, food preparers, personal care aides, retail salespersons, and janitors and cleaners — was below a poverty-level wage in 2012.\footnote{Bureau of Labor Statistics, Occupational Outlook Handbook, \url{http://www.bls.gov/ooh/most-new-jobs.htm}. We define the poverty-level wage as the wage level needed to bring a family of four to the poverty line with full-time, year-round work. For 2014, this is $24,008.}

By supplementing the earnings of low-paid workers, the EITC and CTC lifted 9.4 million people out of poverty in 2013 and made 22 million others less poor (see Figure 5). (These figures are based on the federal government’s Supplemental Poverty Measure, which many analysts favor because it counts non-cash public benefits and refundable tax credit payments as income,)\footnote{CBPP analysis of the Census Bureau’s March 2014 Current Population Survey and SPM public use file. For state-by-state anti-poverty and other numbers relating to the credits, see our state fact sheets at \url{http://www.cbpp.org/research/federal-tax/state-fact-sheets-the-earned-income-and-child-tax-credits}.} These working-family tax credits lifted 5 million children out of poverty, more than any other program.

These figures do not count a second way that the EITC and CTC may reduce poverty — by encouraging work. When the income gains from the increase in employment the EITC generates are taken into account, the EITC’s impact in reducing poverty significantly increases, University of California economist Hoynes and the Treasury Department’s Ankur Patel find in recent research. Analyzing the 1990s EITC expansions for single mothers aged 24-48 who lack a college degree, Hoynes and Patel find that the EITC significantly increases the probability of employment.

\begin{figure}
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\caption{Earned Income Tax Credit and Child Tax Credit Have Powerful Antipoverty Impact}
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\textbf{FIGURE 5}

\textbf{Earned Income Tax Credit and Child Tax Credit Have Powerful Antipoverty Impact}

Millions of persons lifted out of poverty or made less poor (using Supplemental Poverty Measure) by EITC and CTC, 2013

\begin{tabular}{llll}
\hline
 & Lifted out of poverty & Made less poor \\
All persons & 31.7 million & 9.4 & 22.2 & 13.1 million & 5.0 & 8.1 \\
Children & & & & & & \\
\hline
\end{tabular}

Note: Unlike the Census Bureau’s official poverty measure, the SPM counts the effect of government benefit programs and tax credits. Figures may not add due to rounding.


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find that when the EITC’s employment and earnings effects are taken into account, the number of people in such families that the EITC lifts out of poverty nearly doubled.\textsuperscript{51}

Hoynes and Patel examined these families, not EITC beneficiaries as a whole, so they could not similarly calculate the extent to which the EITC’s employment and related earnings effects increase the overall number of people the EITC lifts out of poverty. But based on the anti-poverty impacts they find with respect to the mothers and children they examined, they provide a rough estimate that the standard estimate of the total number of people the EITC lifts out of poverty may understate the true number by “as much as 50 percent.”\textsuperscript{52}

Further, the emerging research discussed above suggests that by improving children’s health and educational outcomes, and by leading to higher earnings as adults, the working-family tax credits also may reduce poverty in the next generation.

Each of these factors also reduces inequality by boosting the after-tax income of low-wage workers relative to high-income earners.

Additionally, as noted above, 26 states and the District of Columbia have built on the success of the federal credits by offering their own EITCs, which further reduce poverty and inequality.\textsuperscript{53}


\textsuperscript{52} As Hoynes and Patel note, their findings do not reflect any downward pressure on market wages caused by more workers looking for jobs due to the EITC.

\textsuperscript{53} Erica Williams, “State EITCs Narrow the Gap Between Rich and Poor,” Center on Budget and Policy Priorities, June 1, 2015, \url{http://www.cbpp.org/blog/state-eitcs-narrow-the-gap-between-rich-and-poor}. 
How Families Use Their Tax Credits

The Earned Income Tax Credit (EITC) and the Child Tax Credit (CTC), also known as the working-family tax credits, represent a substantial share of many families’ annual budgets. Because the tax credits are delivered in a lump sum once a year at tax time, they not only help families pay routine bills, but also make major purchases, such as a car to get to work or security deposit on a new apartment, that they’re often not able to make otherwise. Research suggests that families receiving the EITC typically spend their tax refunds on these expenses and paying current bills, as well as paying down debt and building assets.a

One major study conducted a short survey and in-depth follow-up interview of 194 families that received an EITC of at least $1,000 in tax year 2006 to discern how families actually used their refunds. The study found that the families spent roughly half of EITC refunds on current consumption, such as groceries, child expenses, and furniture.b They spent the other half paying off past-due bills and debt, and for “asset-building” such as savings, education, or home ownership and home repairs. Nearly two-thirds of families spent part of their refunds on expenses related to raising children, and about one-third made car purchases or repairs.

These findings, particularly for major expenses, are consistent with expenditure patterns and self-reported use of tax refunds. For example, two Chicago Federal Reserve Bank economists found that EITC recipients were devoting a sizable share of their tax refunds to large expenses over 1997 to 2006.c They found that households likely to be eligible for the EITC spent more on durable goods in February — presumably after they’d received their tax refunds (including the EITC) — than in other months, and also relative to other households that were not likely to receive the EITC. EITC-eligible households were particularly likely to purchase vehicles in February. Similarly, various other surveys of EITC recipients have found that most intend to use their refunds to invest in economic and social mobility, such as savings for improved housing or children’s education and car or other transportation expenses that are vital for employment opportunities, as well as making ends meet in the short term.d

a While the research focuses on people who are likely eligible for the EITC, the findings also strongly suggest that low-income families do not understand how much of their tax refund comes from the EITC or the CTC (or other tax benefits or tax withholding), which implies that low-income families likely use the CTC similarly.


d See, for example: Timothy M. Smeeding et al., “The EITC: Expectation, Knowledge, Use, and Economic and Social Mobility,” National Tax Journal, December 2000; Sarah Halpern-Meekin et al., It’s Not Like I’m Poor, University of California Press, January 2015.
Providing a Short-Term Safety Net

The latest research, which covers years before the Great Recession and an EITC expansion, shows that the EITC provides ongoing income support for some low-wage workers but helps even more workers meet a temporary need.54 “The EITC,” researchers found, “acts as a short-term safety net to many taxpayers who claim the EITC for short periods during shocks to income or family structure” — a child’s birth, for instance, or one spouse’s loss of income — after which their earnings grow again.55

Some 61 percent of those who received the EITC between 1989 and 2006 did so for only a year or two at a time.56 (See Figure 6.) About half of all taxpayers with children used the EITC at least once during that 18-year period. With its broad but temporary reach, the EITC provides critical income insurance for working families that face hardship or must care for newborns or very young children.57

In addition, low-income households pay substantial taxes. Most state and local tax systems are regressive, meaning that low-income families pay a larger share of their incomes in these taxes than more affluent households do.58 The bottom fifth of households paid an average of 10.9 percent of their incomes in state and local taxes in 2012, according to the Institute on Taxation and Economic Policy (ITEP), compared to 9.4 percent for the middle fifth.

54 The CTC is meant to offset the costs of child rearing and has higher income phase-out levels to reach the broader middle class, so families may receive the CTC for longer periods of time than the EITC.

55 Dowd and Horowitz, 2011.

56 While the EITC and CTC can provide a safety net for families over short periods of time, this does not necessarily mean that credits are counter-cyclical (such that the aggregate amount of the EITC and CTC automatically increases in recessions). Researchers have found the EITC’s pro- and counter-cyclical effects overall to be ambiguous, and differ between family types. For example, some families who received a credit may receive a smaller credit or none at all if their incomes drop too low. See Marianne Bitler, Hilary Hoynes, and Elira Kuka, “Do In-Work Tax Credits Serve as a Safety Net?” NBER Working Paper No. 19785, January 2014, http://www.nber.org/papers/w19785.

57 These findings do not imply that EITC recipients only use the EITC once or twice over their entire working career. Rather, they suggest that the majority of EITC recipients use the credit for short periods at a time. Another study, covering EITC recipients over 2000 to 2006, had similar findings: about 30 percent of EITC recipients over the period claimed the EITC only once, while only 11 percent claimed the EITC each year. Deena Ackerman, Janet Holtzblatt, and Karen Masken, “The Pattern of EITC Claims Over Time: A Panel Data Analysis,” Internal Revenue Service, 2009, http://www.irs.gov/pub/irs-soi/09resconpatteitc.pdf.

58 Dowd and Horowitz, 2011.

and 5.4 percent for the top 1 percent. (ITEP also found that in most states, families in the bottom income fifth paid a larger share of their incomes in state and local income, property, sales, and excise taxes than families in the top end of the distribution.\(^6\)) Also, some EITC recipients pay significant federal income taxes over time, even though they may receive more in EITC benefits in a given year than they pay in federal income taxes in that year.\(^6\)

**Conclusion**

Recent ground-breaking research suggests that the EITC and CTC help families at virtually every stage of life. In addition to the credits’ well-established benefits of encouraging work and reducing poverty, recent research suggests that starting from infancy — when higher tax credits are linked to more prenatal care, less maternal stress, and signs of better infant health — children who benefit from tax credit expansions have been found to do better throughout childhood and have higher odds of finishing high school and thus going on to college. The education and skill gains associated with the CTC and EITC likely keep paying off for many years through higher earnings and employment, researchers say. This growing body of research highlights the positive long-term benefits of the working-family tax credits for millions of families.

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\(^6\) One study finds that taxpayers who claimed the EITC at least once from 1989 through 2006 paid several hundred billion dollars more in federal income taxes over that period than they received in EITC benefits. Note, however, that the research covers a period before the Great Recession and the 2009 EITC expansion and that policy changes since the 1990s have reduced taxes for average taxpayers. Tim Dowd and John B. Horowitz, “The Earned Income Tax Credit: Safety Net or Bootstrap,” National Tax Association Conference on Taxation, Philadelphia, PA, November 21, 2008.