changes in family structure and welfare participation since the 1960s: the role of legal services*

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july, 2022

abstract
this paper evaluates the effects of the war on poverty’s legal services program (lsp) on family structure and welfare participation. lsp provided subsidized legal assistance to poor communities, focusing on divorce and welfare access. we use a difference-in-differences research design based on the rollout of the program to 269 counties from 1965 to 1975. we find temporary increases in the rate of new divorces and persistent increases in the level of welfare participation, consistent with lsp activities. we also find that increases in nonmarital birth rates that stem not from rising birth rates overall, but from falling marriage rates. expanded access to legal institutions thus contributed, directly and indirectly, to changes in family structure in the 1960s.

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*acknowledgements: data collection for this project was generously supported by the national institutes of health (r03-hd066145). we gratefully acknowledge the use of the services and facilities of the population studies center at the university of michigan (funded by nichd center grant r24 hd041028), and martha bailey for feedback and for helping to fund and prepare some of the outcome data. we also thank marianne bitler, kitt carpenter, bill collins, hilary hoynes, lucie schmidt, and seminar participants at southern methodist university, university of california santa barbara, university of california irvine, university of memphis, university of mississippi, yale university, population association of america, tennessee empirical applied micro fest, university of wisconsin institute for research on poverty, and the nber children’s summer institute for helpful feedback. all remaining errors are our own. disclaimer: the views expressed here are those of the author and do not necessarily represent those of the federal reserve bank of minneapolis or the federal reserve system.
American families changed suddenly and dramatically in the 1960s. Marriage rates fell while divorces and nonmarital births increased (Lundberg and Pollak 2007). The share of mothers who were not married quadrupled between 1960 and 2010 (Figure 1). At the same time, married women’s employment and unmarried women’s welfare participation skyrocketed (Moffitt 1987, Goldin 2006). By 1980, mothers brought in one-third of family income, double their share in 1960. In 1991, Gary Becker reflected that “the family in the Western world has been radically altered—some claim almost destroyed—by the events of the last three decades” (Becker 1991, p. 1).

Understanding what caused these changes, however, has proven difficult.¹ The range of explanations include a lack of marriageable men (Wilson 1987), intergenerational effects of a “matriarchal” family structure (Moynihan 1965), contraceptive technology (Akerlof, Yellen, and Katz 1996), second-wave feminism (Chafetz 1995), and the growth of welfare programs (Murray 1984). Evidence on broad trends in family structure tends to be correlational, while causal evidence focuses on small interventions (e.g. Hannan, Tuma, and Groeneveld 1977) or local changes (e.g. Black, McKinnish, and Sanders 2003) that cannot explain family change on such a large scale.

This paper quantifies the role of an overlooked catalyst of shifts in family structure: an expansion in poor communities’ access to the legal system brought about by the Neighborhood Legal Services Program (LSP). This understudied piece of the War on Poverty began in 1965 and tripled the availability of free civil legal consultation in poor areas (Brownell 1971, Subcommittee on Employment Manpower and Poverty 1970). LSPs handled individual disputes on issues like divorce, housing, debt collection, welfare, and employment; engaged in community outreach on

¹ Ellwood and Jencks (2004, p. 1) argue that “is only a slight exaggeration to say that quantitative social scientists’ main contribution to our understanding of this change has been to show that nothing caused single-parent families to become more common.”
policing issues and economic empowerment; and sued local bureaucracies perceived as treating the poor unfairly (Johnson 1977). Its originators believed that by translating poor people’s demands into effective legal action, the LSP “would possibly be the single most important thing… in the poverty program” (OEO Assistant General Counsel Stephen Pollak quoting Sargent Shriver in Gillette 1996).

Embodying the rights-based legal movement of the 1960s, LSPs worked to improve poor people’s access to government services, protections, and institutions, many of which matter for decisions about family structure. LSPs directly served thousands of families in divorce cases, routinely consulted with families about welfare rules, and represented them in administrative appeals over benefit reductions or terminations. They also indirectly expanded welfare access by working with welfare advocacy groups, writing plain language “welfare manuals” urging poor families to apply for benefits (Davis 1993), and suing local welfare departments over eligibility restrictions. LSP advocacy and litigation created a plausibly permanent shift in expected public benefits even for those not directly served by LSPs, changing the financial incentive to form single-parent families. By making poor people’s theoretical legal access a practical reality, LSPs had the potential to shift equilibrium welfare take-up and family formation in communities it served.

We use a staggered difference-in-differences (DD) research design based on the program’s rollout to 269 counties between 1965 and 1975 (Cunningham 2016) to estimate LSPs’ average treated effect in treated counties (Callaway and Sant’Anna 2020) on newly digitized county-level

2 Sar Levitan (1969, p. 187) argued that “the indirect impact of the Legal Services Program should not be minimized… Administrative agencies, too, may treat their clients in less arbitrary fashion and not view welfare recipients as passive wards of the state.” Gilbert Steiner, then director of Governmental Studies at the Brookings Institution, noted that without the LSP “there would have been no expansion of public assistance in the 1960s, just as there had been none in the 1940s and 1950s” (Ginzberg and Solow 1974, p. 65).
outcomes including divorces, marriages, nonmarital births, and welfare participation. Because the LSP rollout was concentrated within 5 years, we use two complementary methods to find valid control counties. One specification creates a control group of similarly urbanized counties without LSPs in the same state as LSP counties (Bailey and Goodman-Bacon 2015, Cunningham 2016). The second specification creates a control group with similar pretreatment characteristics using a doubly robust estimator that reweights never-treated counties by their inverse propensity to have an LSP and models outcome differences (Sant’Anna and Zhao 2020). The results from both approaches are quite close, which supports the validity rollout design.

Our estimates suggest that the LSP had large effects on local-level family structure and welfare participation. We find no evidence that these outcomes changed differently in LSP versus comparable non-LSP counties in the years before the program began. LSP establishment, however, is associated with short-run increases in divorce rates, and persistent increases in participation in the receipt of welfare payments for single parents (Aid to Families with Dependent Children; AFDC) and nonmarital births. Nonmarital births rise because women forego marriages, not because they have more children, and we view increased access to welfare programs that target single parents as the most likely mechanism.³ Evidence from Census data supports the county-level findings, verifies that living arrangements changed, and shows that, as expected, the effects are driven by mothers with less education.

³ We also take steps to rule out several alternative explanations. Neither male/female sex ratios, economic conditions, nor other local War on Poverty initiatives changed coincidentally with LSP introduction. We find similar effects when we restrict comparisons to counties treated at different times or to counties that received a broader measure of War on Poverty funding. Our effects are similar in counties that did and did not experience riots (Cunningham and Gillezeau 2018b)—a noted catalyst for urban decay and white flight (Collins and Margo 2007, 2004). We also estimate null placebo effects for Community Health Centers, a program that likely shares confounding unobservables with LSPs.
These results are both plausible and meaningful. They match historical accounts of LSPs’ aggressiveness on divorce and welfare questions and their sizes are well within reported LSP workloads. We find that LSP’s local effects account for 17 percent of the nationwide growth in AFDC participation from 1964 to 1979 and 21 to 33 percent of the growth in nonmarital births.

These results provide a new window onto old questions about families and the safety net. We provide some of the first plausibly causal evidence on the massive changes in family structure that occurred in the 1960s. Our results show that policy mattered in the 1960s: the War on Poverty contributed to increases in welfare use and nonmarital births. But these changes came from expanded legal access, not statutory changes in “generosity.” The LSP facilitated access to a package of benefits that had long been available in theory, but in practice was restricted to the “deserving poor” (Katz 1986). As the program’s architects envisioned, LSPs broke down financial and institutional barriers to the legal system and safety net. What policymakers might not have foreseen is that this large shift in access would alter family structure as well.

I. THE NEIGHBORHOOD LEGAL SERVICES PROGRAM

American legal aid societies date to the 19th century settlement house movement. For much of their history, they provided limited services on noncontroversial areas that would not alienate their philanthropic base.4 By the 1960s, new advocates sought to expand legal services in both size and scope. In a 1964 Yale Law Review article, Jean and Edgar Cahn, attorneys with the Ford Foundation’s Gray Areas program, proposed that university-affiliated neighborhood law firms should provide free civil legal representation and advice in poor communities and incorporate the

4 Energized by Great Britain’s federally funded legal aid society, American legal aid grew in the 1950s. There were about 49 legal aid societies in 1949, and 236 by 1961 (Brownell 1971). These organizations provided limited services because they could not afford lengthy appeals and turned away controversial cases (bankruptcy, divorce, or challenges to corporations or government agencies).
“civilian perspective” into policy by supplying these communities with “the means with which to represent the felt needs of its members” (Cahn and Cahn 1964, p. 1334). In contrast, Ed Sparer, head of the legal unit for the influential juvenile delinquency program Mobilization for Youth, argued for a test-case approach based on “legal action that would create new legal rights for the poor” (quoted in Davis 1993, p. 33). Almost immediately after passage of the 1964 Economic Opportunity Act, Sargent Shriver, head of the Office of Economic Opportunity (OEO), made legal services a National Emphasis Program that would do both.5

LSPs sharply expanded the quantity of legal services available to the poor. The OEO prioritized the program’s funding early in the War on Poverty, issuing more than 20 million (nominal) dollars in grants in 1965. By 1968 LSP spending had doubled, and Figure 2 shows that by 1975 LSPs had been rolled out to 273 counties in 48 states. Figure 3 plots the number of cases handled by traditional legal aid societies from 1905 to 1965, and by LSPs from 1967 to 1971. After 60 years in existence, aid societies handled about 300,000 cases a year. In contrast, the LSP handled 282,000 cases in 1968 and over a million by 1971. The average LSP center had five lawyers, each working hundreds of cases per year (Cunningham 2016).

Rather than simply crowding out existing legal aid, LSPs provided new services.6 The OEO-funded facilities served populations and handled cases such as divorce and bankruptcy that existing legal aid societies had been reluctant to take on (Cantrell 2003). Grantees opened new law

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5 Sparer set up the Center for Social Welfare Policy and Law at Columbia University’s School of Social Work in 1965 to provide backup support for test cases brought by LSP attorneys.

6 Thanks to early endorsements from the American Bar Association and the American Trial Lawyers’ Association, legal aid societies received about 40 percent of the initial grants in order to expand services or open new facilities. Law schools facilitated the rollout by providing cheap labor in the form of newly trained lawyers, designing new curricula in poverty law, and sometimes operating LSP offices directly (Johnson 2014, Cunningham 2016).
offices in poor neighborhoods with expanded hours of operation to increase accessibility. LSPs served poorer clients and a higher share of black women than traditional legal aid societies did, and challenged public officials more (Fisher and Ivie 1971). Silverstein (1967) concludes that LSPs “unquestionably had a liberalizing effect on both financial and subject-matter rules of eligibility.”

Nearly 40 percent of LSP cases involved family problems like divorce, nonsupport, or paternity, where free legal assistance and court fee waivers represented meaningful savings to those served (Stumpf 1975). The median divorce in 1968 cost between $200 and $299 (University of Michigan Survey Research Center 1984), about one tenth of the poverty line for a family of four. Critics quickly accused the LSP of dissolving families. One judge called them “divorce mills” (Stumpf and Janowitz 1969) and coverage in the New York Times carried the subtitle “How to Get a Free Divorce” (Graham 1966). Supporters countered that the poor had the same right to obtain a divorce as the rich and that these efforts protected poor women’s economic interests (Foster and Freed 1967).

In addition to family law cases, about 7 percent of LSP cases challenged welfare bureaucracies. Their primary target was Aid to Families with Dependent Children (AFDC), the means-tested cash welfare program for single-parent families. State and federal governments financed AFDC but localities controlled almost all aspects of it. From its inception in 1935, local caseworkers exercised wide and often arbitrary discretion over case acceptances, benefit amounts, and case terminations (Bell 1965). This behavior stemmed from traditional notions of

\[\text{\textsuperscript{7}}\text{ The OEO argued that “accessibility has long been recognized to be a prerequisite of effective legal assistance. The impoverished are the least capable of traveling long distances to reach a lawyer. Even carfare may be beyond the means of a slumdweller in legal trouble. Equally important, studies have demonstrated that a psychological barrier exists between the inhabitants of a ghetto and the alien world of a bustling downtown area” (OEO 1966).} \]
deservingness (Skocpol 1992), local labor demand conditions (Alston and Ferrie 1985), and racial discrimination (Quadagno 1994). LSP lawyers brought dozens of Supreme Court cases, including notable victories that struck down residency requirements (Shapiro v. Thompson 1969) and restrictions on cohabitation (King v. Smith 1968), and guaranteed a right to administrative appeals (Goldberg v. Kelly 1970 and Wheeler v. Montgomery 1970).

Importantly, poverty lawyers also changed local public officials’ actions toward the poor. They helped individual clients to fill out applications and frequently represented them in appeals (“fair hearings”; Hollingsworth 1977). One welfare official testified in the Senate Appropriations committee in 1968 that “the OEO neighborhood legal attorneys are requesting more fair hearings…[and] if we rule in their favor they immediately want to go back and review every similar case” (quoted in Piven and Cloward 1971). LSPs also provided crucial expertise for the growing welfare rights movement, which had “no access to lawyers, at least until federal legal services grants were made available in 1966” (Davis 1993 p. 41). Welfare rights groups organized recipients to protest administrative decisions, petitioned for additional benefits, and disseminated “welfare manuals” that described regulations in simple language (see Online Appendix A).

A. Expected Effects of LSPs
This history suggests that establishment of a neighborhood LSP should temporarily increase divorce rates. Handler, Hollingsworth, and Erlanger (1978) describe a spike in LSP divorce cases due to the “backlog of families with marital problems waiting for legal services” but a fall in the share of time devoted to family law between 1967 and 1972.9 A higher divorce hazard also shrinks

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8 Fair hearings are formal challenges to administrative decisions about eligibility and benefits. LSP lawyers represented recipients at these hearings and encouraged them to file the appeals.

9 Coverage of one LSP in rural Wisconsin in its sixth week described this phenomenon: “Statistics released by the Judicare office here revealed that 84 percent of its cases so far have involved divorces…Judicare officials predict that
the at-risk population and, ultimately divorce rates (Wu and Wen 2019), with larger effects if surviving marriages have lower divorce propensities.

We also expect LSPs to increase AFDC participation (a stock) substantially. Local restrictions on eligibility and arbitrary caseworker decisions were the norm for much of AFDC’s history. Families likely did not respond to statutory changes in benefits because the probability that they could get and keep those benefits appeared low (Hoynes 1997, Moffitt 1994). The simplest connection between LSPs and AFDC is that they boosted acceptances and reduced terminations for individuals they represented. LSP advocacy and legal action against welfare offices, however, had the same effect for a much larger class of people, increasing take-up even among eligible families not served by LSPs (Ashenfelter 1983, Moffitt 1983).10

Finally, economic models predict that by making public assistance for single parents a reliable and available source of income, LSPs should have reduced marriage and increased divorce (Rosenzweig 1999, Willis 1999, Neal 2004).11 Unitary models imply an increase in single motherhood stemming from women’s choices (Rosenzweig 1999, Neal 2004, Lundberg and Plotnick 1990), and bargaining models show how men can use the availability of welfare as a pretext for desertion (Willis 1999, Lundberg and Pollak 1996).12 Growing prevalence of welfare

its high ratio of divorce cases will go down as soon as the first rush for long-delayed divorces is over” (Graham 1966). Graham also cites a similar experience soon after legal services began in the UK: “When England started its program in 1950, 80 percent of the clients wanted divorces. Since then the rate of matrimonial disputes among English legal aid cases has declined to about 40 percent” See also the discussion in Wolfers (2006) in the context of unilateral divorce.

10 Divorces also raise AFDC eligibility, and AFDC applications raise divorces because many states required women to file for a divorce in order to receive welfare benefits after being deserted by their husband (Finman 1971).

11 The two programs that two-parent families with no disabilities could have received, General Assistance and AFDC for Unemployed Parents (AFDC-UP), each had between 50,000 and 60,000 cases through most of the 1960s. AFDC for single-parent families by contrast had 1 million cases in 1965 and 3 million by 1973. See section IV.E.

12 Ethnographic studies support this. Stack (1974, p. 113) concludes that “couples rarely chance marriage unless a man has a job...women come to realize that welfare benefits and ties within kin networks provide greater security for them and their children.”
participation, divorce, and single motherhood can also have feedback effects by changing their social costs (Bertrand, Luttmer, and Mullainathan 2000, Nechyba 2001, Solon et al. 1988). In fact, Americans became much more accepting of these choices in the 1960s (Thornton 1989).

II. DATA ON THE LEGAL SERVICES PROGRAM, FAMILY STRUCTURE, AND WELFARE

Studying LSPs with existing datasets is challenging because the data exist in only a few years (like the Census) or begin after the LSP rollout (like the Panel Study of Income Dynamics). To address this, we digitized new county-by-year data on family structure outcomes and welfare participation using a number of sources (see Online Appendix B for further details).

A. Treatment Variable: Legal Service Grants

Data on federal legal service grants funded by the OEO come from the National Archives Community Action Program files originally compiled in Cunningham (2016). Table 2 shows that 269 counties in our dataset received a grant for “legal services” between 1965 and 1975. We only consider new LSPs established through 1975, when the program was reorganized under the Legal Services Corporation (LSC). This defines 11 groups of counties that all received their first LSP grant in the same year, which we refer to as treatment cohorts. The remaining 2,618 never-treated counties do not receive a federal LSP grant by 1975.

B. Family Structure Flows: Divorce, Marriage, and Nonmarital Births

Data on the number of divorces and marriages that occurred in each county come from the 1960–1988 volumes of the Vital Statistics of the United States (DHEW various years). Our marriage and divorce outcomes are rates per 1,000 women ages 10–49 (flows). Population denominators come

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13 We use population counts down to age 10 because nonmarital births are recorded for women “under 15.” We use this as the denominator for all outcomes to facilitate comparisons across results.
from the 1960 Census (Haines and ICPSR 2010) and the Surveillance, Epidemiology, and End Results (SEER 2013) annual data, which begin in 1968 (interpolated between 1960 and 1968). We also digitized information on the number of births to unmarried residents of a subset of large counties (1960 population over 50,000, or 1970 population over 100,000). For comparability across outcomes we use a crude nonmarital birth rate: nonmarital births per 1,000 women ages 10–49.14

C. Welfare Stocks: AFDC Cases

County-level data on caseloads and spending on AFDC come from federal reports published in 1960, 1964, 1966, and annually from 1968 to 1988. Reports after 1980 only include counties in Standard Metropolitan Statistical Areas (SMSAs). Our welfare outcome is AFDC cases per 1,000 women ages 10–49. Our divorce, marriage, nonmarital birth, and AFDC data are all new and the only source of local-level, high-frequency information on these outcomes during this time period.

D. 1960 and 1970 Census Data

We also use a sample of 623,175 mothers living in 80 counties identified in the 1960 and 1970 Census to calculate probabilities that mothers are unmarried heads of household; live with the father of their children; or are poor.15 We collapse these outcomes to county-year averages so that all Census-based models have 160 observations.

14 Debates over family structure frequently focus on race. For example, Daniel Patrick Moynihan’s 1965 report, “The Negro Family: A Case for National Action,” both implicated racism in the prevalence of single-parent black families and argued, controversially (Rainwater and Yancey 1967), that it represented a “tangle of pathology” (Moynihan 1965). While Black mothers were more likely than white mothers to be unmarried (25 percent versus 6 percent in 1960), they were also significantly poorer even conditional on marital status. The proportional growth in the share of mothers who were unmarried between 1960 and 1980, however, was actually larger for white women (2.5 times; 6 to 15 percent) than Black women (2 times; 25 to 51 percent). Race-specific explanations for changing family structure in the 1960s are necessarily incomplete. Furthermore, we cannot measure county-level outcomes by race and so do not conduct a race-specific analysis in this paper.

15 We also construct dummy variables that describe the cumulative distribution of unearned income, earned income, and income from other family members. Each dummy equals one for mothers who report income (by source) greater
E. Estimation Samples

Because of differences in reporting across data sources, we use five estimation samples. After excluding Alaska and Hawaii because of inconsistent reporting, we start with 3,065 counties. Because we will use marriage and divorce rates to calculate propensity scores for all outcomes, we drop 132 “destination wedding” counties where the annual number of marriages ever exceeds 15 percent of the female population. Applying the same criteria to divorce rates drops an additional 13 counties. We also drop 13 small counties that are missing 1960 income data. We then drop counties that failed to report marriages or divorces in every year from 1960 to 1988 (339 counties) or AFDC cases in every available year from 1960 to 1980 (10 counties).

This yields a balanced panel of marriage and divorce rates from 1960 to 1988 for 2,568 counties that contain 94 percent of women in the US. For AFDC rates we focus on a balanced panel of 561 SMSA counties observed in each available year between 1960 and 1988 and covering 71 percent of women.\textsuperscript{16} Because we observe nonmarital births for so few counties we show results for a “short sample” 118 counties observed in every year from 1959 to 1979 (23 percent of women) and a “long sample” of 61 counties observed from 1959 to 1988 (20 percent of women). Finally, our Census results use 81 counties identified in both 1960 and 1970 (36 percent of women).

III. Empirical Strategy: Difference-in-Differences and the Rollout of the Legal Services Program

Our goal is to estimate average treatment effects of LSP on treated counties. We do so using the estimators for staggered DD designs in Callaway and Sant’Anna (2020). This approach first

\textsuperscript{16} We show AFDC results through 1980 for our full set of 2,887 AFDC counties in appendix figure C10.
estimates cohort- and time-specific average treatment effects on the treated, $\hat{ATT}(g, t)$, using two-period/two-group DD estimators and then aggregates them, weighting by the size of each treatment cohort, to produce summary treatment effect estimates.\[a\]

\textit{a. Estimating Treatment Effects by Cohort}

Let $G_j = g \in \{1965, ..., 1975\}$ represent treatment cohorts, and $C_j = 1$ for never-treated counties.

An unconditional estimator for $ATT(g, t)$, the average effect of LSP for cohort $g$ at time $t \geq g$ is:

$$\hat{ATT}_{un}^{nev}(g, t) = \frac{\sum_j \Delta Y_{j,g-1,t} 1\{G_j = g\}}{\sum_j 1\{G_j = g\}} - \frac{\sum_j \Delta Y_{j,g-1,t} 1\{C_j = 1\}}{\sum_j 1\{C_j = 1\}}$$

(1)

Where $\Delta Y_{j,g-1,t} \equiv Y_{j,t} - Y_{j,g-1}$. $\hat{ATT}_{un}^{nev}(g, t)$ identifies cohort $g$’s $ATT(g, t)$ under the assumption that the average change in untreated potential outcomes from $g - 1$ to $t$ is the same for cohort $g$ counties and never-treated counties.

In the context of the War on Poverty this unconditional parallel trends assumption is unlikely to hold. LSP funds went mainly to cities because of the OEO’s focus on urban poverty (Bailey and Duquette 2014) and local actors had to be aware, interested, and able to apply for federal grants. LSPs’ also needed to hire trained lawyers so they typically located near law schools (Cunningham 2020). Columns 1 and 2 of Table 3 show strong pretreatment imbalance between LSP and non-LSP counties. Cities dominate the treatment group, which has 9 percent of counties but over half of the 1960 population. Non-LSP counties are less urban, poorer; have lower levels of education and divorce, but higher AFDC and marriage rates.

\[a\] This estimator has at least two advantages over a two-way fixed effects regression. First, it is not biased by time-varying treatment effects because it only uses untreated comparison groups. Second, it aggregates the cohort-specific treatment effect parameters by the share of treated units, while two-way fixed effects weights subgroup parameters by treatment variances as well. See Goodman-Bacon (2021) and Sun and Abraham (2020) for a fuller discussion.
In response to this imbalance we use two complementary approaches to select a valid control group of never-treated counties. First, we estimate specifications that compare treated counties to comparison counties in the same state with similar 1960 urbanicity. Let $S(j)$ denote county $j$’s state, and $U(j)$ indicate if county $j$ was 0 percent, 1-50 percent, or 50-100 percent urban in 1960. Using the outcome regression (OR) approach in Sant’Anna and Zhao (2020), we first estimate the change in outcomes among never-treated counties for each state-by-urban group $(S(j) \times U(j))$:18

$$
\Delta \hat{\mu}_{g-1,t}(s, u) \equiv \frac{\sum_j \Delta Y_{jg-1,t} 1\{C_j = 1\} 1\{S(j) = s\} 1\{U(j) = u\}}{1\{C_j = 1\} 1\{S(j) = s\} 1\{U(j) = u\}}.
$$

(3)

The within-state/urban DD estimator for a given $ATT(g, t)$ is then:

$$
\overline{ATT}_{OR, SU}^{n_eu}(g, t) = \frac{\sum_j \left( \Delta Y_{jg-1,t} - \Delta \hat{\mu}_{g-1,t}(S(j), U(j)) \right) 1\{G_j = g\}}{\sum_j 1\{G_j = g\}}.
$$

(4)

This estimator relies on parallel trends between treated and untreated counties within the same state/urbanicity cell. Column 4 of Table 3 suggests that this assumption is more plausible than the unconditional parallel trends. Conditioning on state-by-urban group reduces imbalance in almost all characteristics (see $p$-values in column 5), though most differences are still statistically significant. The last two rows of column 5 test whether characteristics predict LSP treatment status within state and urban groups. They do, but the $F$-statistic as large as it is in the unadjusted comparison, and falls by half if we omit the urban share.

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18 There are up to 147 state-by-urban groups (49 states and 3 urban groups), but because not all states have counties in each urbanicity bin we have 140 groups in our largest sample. Moreover, the within-state-urban $ATT(g, t)$s are only identified for $S(j) \times U(j)$ cells that contain treated and never treated observations, so only up to 80 cells contribute to the estimates.
Our second strategy creates a control group based on pretreatment characteristics using the doubly robust (DR) estimator from Sant’Anna and Zhao (2020). The first step estimates a logit propensity score for being in cohort \( g \), \( \hat{p}_g(X_j) \), and forms inverse-propensity score weights for untreated counties, \( \hat{w}_g(X_j) \propto \frac{\hat{p}_g(X_j)C_j}{1-\hat{p}_g(X_j)} \). The second step uses untreated counties and regresses \( \Delta Y_{j,g-1,t} \) on \( X_j \), weighting by \( \hat{w}_g(X_j) \), to predict the change in untreated outcomes by \( X_j \):

\[
\Delta \hat{\mu}_{g-1,t}(X_j) \equiv \hat{\beta}_{g-1,t}^X X_j.
\]

Finally, the DR estimator for \( ATT(g,t) \) is:

\[
ATT_{DR,X}^{new}(g,t) = \frac{1}{N} \sum_j \left[ \frac{(D_j\hat{X}_j - \frac{\hat{w}_g(X_j)C_j}{\bar{C}_j})}{\bar{D}_j}\left(\Delta Y_{j,g-1,t} - \Delta \hat{\mu}_{g-1,t}(X_j)\right) \right]
\]

(5)

Where \( \hat{w}_g^*(X_j) \) is inverse propensity score weight normalized to one within the set of never-treated counties, \( \frac{\hat{w}_g(X_j)}{\sum_j \hat{w}_g(X_j)C_j} \). and \( \bar{D}_j \) and \( \bar{C}_j \) are sample averages. The identifying assumption of \( ATT_{DR,X}^{new}(g,t) \) is parallel trends in untreated potential outcomes between counties with the same covariates. It simultaneously accounts for the change in observed outcomes for untreated counties with similar characteristics to LSP counties (the reweighting; \( \hat{w}_g^*(X_j) \)) and for the predicted change in outcomes given each county’s characteristics (the outcome modeling; \( \Delta \hat{\mu}_{g-1,t}(X_j) \)). Only one of these two approaches needs to be correct for the doubly robust estimator to recover \( ATT(g,t) \).

The history of the War on Poverty, especially the initial stages during which most LSPs received grants, supports the assumption of parallel trends between observationally similar

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19 Appendix Figure C6 plots mean outcomes over time for LSP counties as well as unweighted and inverse-propensity-score reweighted mean outcomes for non-LSP counties. Treatment outcomes diverge from unweighted comparison outcomes starting in the mid-1960s even without covariate adjustment, but reweighting brings the two series much closer together in the early 1960s and makes the post-LSP divergence more apparent.

20 These predictions are analogous to equation (3) except they use covariates \( X_c \) instead of state-by-urban dummies to model untreated outcomes.
The early OEO was a “wild sort of operation” that fielded proposals from “various and sundry groups” (Davis 1993, Johnson 1974, Gillette 1996). According to Earl Johnson, Jr., the director of the LSP from 1966 to 1968, “we were committed to building a national institution overnight and could not afford to screen grantees through a fine mesh” (Johnson 2014, p. 102). Regional offices, in consultation and conflict with OEO officials (Clark 2002), made LSP grants based “neither on demographic nor geographic considerations…but quite simply, on the desire to give out as much money as quickly as possible” (Goodman and Walker 1975, p. 7). Column 6 of Table 3 verifies that reweighting alone achieves balance jointly and for each covariate individually, except in the urban share, which differs by only 4.1 percentage points.

We modify these estimators in two ways to accommodate our small sample sizes for nonmarital births and Census outcomes. We use regions instead of state/urbanicity in equations (3) and (4) and we only use inverse propensity score reweighting instead of the doubly robust estimator in equation (5).

b. Aggregating Cohort-Specific Treatment Effects

Because the estimators in (3) and (5) yield an $\hat{ATT}(g, t)$ parameter for each of the 11 cohorts at up to 29 time periods, we aggregate them by time since LSP establishment, event-time $e = t - g$, or by groups of event-times.\footnote{We use the Stata command csdid (Rios-Avila, Sant’Anna, and Callaway 2022) to estimate our effects, which automatically implements the outcome models and reweighting described above.} This aggregation weights each $\hat{ATT}(g, t)$ by the share of treated counties in cohort $g$ observed at event-time $e$. Our 95 percent confidence intervals are uniform to account for the estimation of multiple event-study effects and are generated by a multiplier bootstrap procedure that is clustered by county.
IV. AVERAGE TREATMENT EFFECT ON THE TREATED ESTIMATES

Figures 4 through 6 plot summary event-study estimates, $\hat{\text{ATT}}(e)$, from our within state/urban and doubly robust estimators. Table 4 presents average $\hat{\text{ATT}}(e)$ estimates for groups of event-times.

A. Divorces

Figure 4 shows that divorce rates have a hump-shaped response to LSP establishment, rising for about four years then falling and returning to zero after about eight years. Consistent with our identifying assumption, neither specification provides any evidence of differential pre-LSP trends. Divorce rates in treated counties only change after LSP begins.\(^{22}\) Four years after LSP establishment, divorce rates in treated counties rose by between 0.76 and 1.31 per 1,000 women relative to untreated counties, or about 9 to 15 percent over the baseline mean of 8.72 divorces per 1,000 women. Table 4 reports average short-run increases in years 0–5 of 0.56 (se = 0.16) in the state/urban specification and 0.88 (se = 0.17) in the doubly robust specification. After 13 years the average estimated effect of LSP on divorce rates is zero or slightly negative. This is consistent with both an increase in the divorce hazard shrinking the pool of at-risk marriages, and with surviving marriages being those least likely to divorce.

Relative to poor women’s divorce rates, these magnitudes are large but plausible. If all divorces came from the 15 percent of urban women who were poor in the 1960s, our largest event-study estimates suggest increases of at most 5 to 8.7 divorces per 1,000 poor women per year. Rescaling the event-study coefficients this way and summing them implies that in their first five

\(^{22}\) The LSP effects do not appear in the first year (event year 0), partly because we do not distinguish when in a year LSP grants were made and also because LSP grantees had to hire staff, find volunteers, and build community support in order to be able to begin providing services. Finally, a few LSPs restricted the number of divorce cases handled or only took clients for divorce on certain days of the week, partly due to their perception of the social ills associated with female-headed households (Silver 1969, Pious 1971, Katz 1978, Hannon 1969).
years of operation, LSPs could have led to an increase of between 1.9 and 2.7 percent in the number of poor women getting divorced. Between 1960 and 1970, the share of poor women who were currently divorced rose from 5.1 to 8.5 percent (and this understates the probability of ever divorcing, because some women remarry). These upper-bound calculations suggest an important role for LSPs in the short-run surge in divorces.

LSPs could have easily handled this number of divorces. The average treated county in our sample had 122,000 women aged 10 to 49 when LSPs began operating, so the largest ITT estimates come from just 93 to 160 additional divorces per year. For reference, the average LSP lawyer handled 50 to 100 new cases each month. Summing this maximum number of additional divorces across 273 treated counties implies that at its peak, LSP caused 25,000 to 44,000 divorces per year, 45 to 78 percent of the 56,000 divorces they handled in 1968 (one-fifth of 282,000 cases; Levitan 1969). The concordance of these divorce results with LSPs’ documented activities, LSP capacity, and historical reports of pent-up demand provides “first-stage”-type evidence that our identification strategy successfully picks up the effects of changing legal access brought on suddenly by LSP establishment.

B. Welfare Participation

Figure 5 shows that AFDC participation increased sharply after LSP establishment.23 Relative to the pre-LSP trends, the estimated \( \hat{ATT} \)s rise steadily in both the doubly robust and within

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23 Because the AFDC data are not available annually in the 1960s, for the pre-period of Figure 5 we plot the average \( \hat{ATT}(g, t) \) from period -7 to -2 against the average pre-treatment event-time both weighted by the number of treated counties in each treatment cohort \( g \) and event-time \( e \) cell.
state/urban-group specifications and stabilize after about 6 years. After 13 years, the $ATT$ estimates from both specifications are about 12 cases per 1,000 women.\(^{24}\)

Figure 5 shows a small pre-existing differential trend of about 0.2 cases per 1,000 women per year. To judge whether this affects the conclusion that LSPs had any effect on AFDC or what magnitude we should interpret, Appendix Figure C11 plots event-study estimates that net out differential post-period trends that are range from 0.1 to 0.4 cases per year. The longer-run point estimates under these assumptions are between about 7.5 and 10.5 cases per 1,000 women. We also plot confidence intervals for the set of identified $ATT$ estimates under a weaker assumption that parallel trends violations that may get worse by up to 0.1 cases per year (Rambachan and Roth 2022). Even under nonlinearly rising bias of this magnitude, we can reject the null of no effects on AFDC rates for all event-times except the last two.

Table 5 puts these magnitudes in context by using the estimated effects to calculate counterfactual outcomes in 1979.\(^{25}\) In 1979, 63.7 women per 1,000 in treated counties received AFDC (column 1 row b), and the LSP treatment effects imply a counterfactual rate of 53 to 54 cases per 1,000 women (column 1 rows d and e). This suggests that LSPs raised AFDC rates by about 10 women per 1,000, an 18 to 20 percent increase over the counterfactual (rows h and i). Scaling by the actual change in AFDC rates in treated counties from 1964 to 1984 (43.8 women per 1,000) suggests that LSPs explain 22 to 24 percent of the observed growth in treated counties.

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\(^{24}\) Note that these results only reflect LSPs local effects. Supreme Court victories striking down residency and cohabitation restrictions and guaranteeing fair hearings affected welfare eligibility everywhere, but our design necessarily differences out these effects. The within state/urban estimator also capture LSP victories in state courts or through threat effects that led to immediate changes in rules and regulations to avoid litigation (Champagne 1974).

\(^{25}\) To accommodate the small upward pre-trends, this exercise subtracts the pre-trend (0.18 cases per year) from the uses point estimates throughout the post-period.
(rows j and k). Column 2 shows these calculations for all counties. LSPs explain between 11 and 13 percent of the AFDC rate nationwide and 16 to 17 percent of its growth relative to 1965.

As with the divorce results, rising AFDC rates track high-profile activities undertaken by LSP attorneys. Scaling the calculations in Table 5 to reflect counts shows that LSPs generated from 343,000 to 379,000 additional AFDC cases by 1979; 1,200 to 1,400 in the average treated county. These are plausible effects over 15 years. Fair hearings, a common way that attorneys helped clients remain on aid, rose from about 29,300 in the last six months of 1970 (the earliest data available) to more than 86,000 in the first six months of 1975 (National Center for Social Statistics 1976b). Applications grew from 230,000 in the first quarter of 1965 (Federal Security Agency 1948-1950) to 665,000 in the first quarter of 1975 (National Center for Social Statistics 1976a). The AFDC estimates further supports the rollout design because they correspond closely with historical reports of LSP efforts in this area.

C. Nonmarital Births

Figure 6 shows that LSP establishment is also associated with sharp increases in nonmarital births. During the 6 years before LSP establishment we find no evidence of increases in nonmarital birth rates in LSP counties relative to never-treated counties either in the same region or with similar characteristics. The pattern of estimates is almost identical to the AFDC results in Figure 5: after LSP establishment, nonmarital births grow at first but stabilize after about 6 years. Columns 5 and 6 of Table 4 show short-run increases of 0.41 nonmarital births per 1,000 women per year (se = 0.17) in the within-region specification and 0.43 nonmarital births (se = 0.16) in the reweighted model; about 9 percent over the baseline mean of 4.7.

Table 5 shows that these changes explain 27 to 43 percent of the growth in nonmarital birth rates in the 72 treated counties observed through 1979. Extrapolating this finding to all counties is
straightforward. We first assume that the proportional effects in Table 5 apply to all 273 treated counties. This is plausible because most unobserved treated counties are in non-reporting states (rather than being too small to report), so they are quite similar to those in our sample. These 273 treated counties contain 57 percent of women ages 10-49. Lastly we use the fact that in states that contribute to our sample, the change in nonmarital birth rates in treated counties (4.8 births per 1,000 women) was 36 percent higher than the statewide average (3.5 births). This suggests that LSP’s contribution to the national change in nonmarital births is about 0.77 (=0.57*1.36) times their estimated ATT in treated counties (see Appendix D for details), which equals 21 to 33 percent.

Another way to gauge these magnitudes is to sum up the effects of LSPs on nonmarital birth flows and compare them to the effect of LSPs on AFDC stocks. The short-run within-region estimates in Table 4 imply an aggregate increase of 2.46 nonmarital births per 1,000 women (6 years*0.41). The AFDC effect in event-year 5 (adjusting for the small pre-trends) is about 8.8 cases per 1,000 women, implying that over this time frame new nonmarital births could account for at most 28 percent of new AFDC cases. As we would expect given that LSPs both worked on behalf of current AFDC recipients and boosted take-up, only part of the LSP-induced growth in welfare cases comes from new nonmarital births.

D. Why did nonmarital births change?
For births to unmarried women to increase, either births per unmarried woman must rise or the number of marriages must fall. Figure 7 shows that both marriage and fertility fell after LSP establishment, suggesting that marriage behavior rather than conceptions drives the increase in

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26 Unobserved treated counties include places like New York, Detroit, and Los Angeles. Nonmarital birth rates in states outside of our estimation sample are about 5/6 as large as average rates in observed counties in the early 1960s.
nonmarital births. The reduction in marriages mechanically explains why we find increasing nonmarital births: after LSPs begin operating, pregnant women forego marriage. Prior to LSP establishment some women likely entered into undesirable marriages to avoid poverty, but after LSP improved the outside option to marriage (cash welfare) they no longer needed to. Figure 7 also provides another reason why divorce point estimates eventually become negative. Fewer marriages immediately after LSP establishment mean that fewer divorces can occur later.

This matches nationwide results showing flat premarital conceptions for these cohorts but falling shotgun marriage rates (England, Wu, and Shafer 2013). Lower marriage rates also help explain falling fertility rates overall. In the 1960 Census, 12.7 percent of married women and 0.8 percent of unmarried women ages 10-49 had an infant. Using the Census sample (discussed below), Online Appendix Table C5 finds a 1.3-2.3 percentage point reduction in the share of women who are married. This implies a reduction in fertility rates of 1.5-2.7 births per 1,000 women; close to the event-study estimates in Panel B of Figure 7.

**E. Heterogeneity by State Divorce and Welfare Policy**

If the short-run increase in divorces in Figure 4 were due to LSP attorneys, we would expect to find larger effects in states with legal environments that made it easier for poor families to initiate divorce proceedings and for LSPs to finish them. Table 6 reports results that split the sample into states that implemented no-fault divorce after (Panel A) or before (Panel B) 1970. We find much larger divorce effects in the early reform states. Consistent with welfare incentives (rather than divorces per se) as the main mechanism for the AFDC and nonmarital birth effects, we find very similar short-run changes in both outcomes in the earlier and later divorce reform states.

We also estimate separate results by whether or not states operated an AFDC-UP (Unemployed Parent) program that allowed married women to get welfare. Here we expect larger
effects on AFDC in states with more expansive eligibility criteria because of the UP program, but smaller nonmarital birth effects because women did not need to divorce or forego marriage altogether to receive aid. In panels C and D of Table 6 we find that in states with an UP program by 1975, post-LSP changes in AFDC are twice as big as in non-UP states (and statistically distinguishable). We do not find any difference in nonmarital birth rates, however. These patterns of heterogeneity generally conform to expectations about how LSPs interacted with different legal and policy environments.

F. Effects on Stock Measures of Family Structure and Household Income

Our county-by-year data allow inference about pre-trends and dynamic ITT effects, but not about living arrangements or other sources of household income. This section addresses these limitations using our Census sample.

Table 7 shows that LSP’s effects on demographic flows—divorce, marriage, and nonmarital births—translate to changes in household structure. We find increases of between 1.2 and 2 percentage points in the probability that mothers were unmarried heads of household, and offsetting reductions in the probability that they lived with the father of their children. Consistent with LSPs’ mission to serve poor communities, columns 2–4 show the largest effects for mothers with less than a high school degree.27

Figure 8 uses the reweighting estimator and a distribution regression approach (Chernozhukov, Fernández-Val, and Melly 2013) to estimate post-LSP changes in the distribution

27 The within-region results for living with the father of one’s children are negative and marginally significant for college-educated mothers. It is not implausible that LSPs served some college-educated women and the effect is still much smaller than the estimated ATT for women with less than a high school degree. Appendix Table C6 also presents the result of a falsification test that uses data on 293 counties identified in the 1940 and 1960 public use Census samples. Estimates from both our strategies yield differential changes per decade that are much smaller than the ATT estimates in Table 7.
of mother’s income by source. While the 1960 Census does not record welfare income, we find clear increases in low levels of unearned income. This likely represents welfare income, however, because the pattern almost perfectly matches the annualized distribution of AFDC benefits from 1967 administrative data (see Online Appendix Figure C8) and is only present for unmarried mothers (see Online Appendix Figure C9). Earned income falls to some extent, although these findings are quite imprecise. Notably, other family income, which primarily consists of husband’s earnings, falls at the low end of the distribution. This follows from the finding that fathers are less likely to be in the household.

The last row in each panel of Table 7 shows that the combination of falling income and falling household size leaves poverty rates largely unchanged. The within-region results suggest that family structure did change in meaningful ways, but that poverty did not rise because reductions in father’s income were matched by changes in household size and offset by welfare income. The reweighted results in Table 7 and in Figure 8 show larger reductions in father’s presence and imprecisely estimated increases in poverty.

V. Ruling Out Alternative Explanations

The evidence presented so far uses two distinct control groups and shows changes in outcomes that only occur after LSP establishment. Given the profound social changes that occurred in the 1960s, however, a number of threats to a causal interpretation of our results remain. Figures 9, 10, and 11 plot estimates from a range of specifications that test alternative explanations for changes in divorce rates, AFDC participation, and nonmarital birth rates, respectively. For comparison, we reproduce the estimates from Table 4 in the first two rows of each figure.
A. Different Ways to Use LSP Timing

Since so many counties received LSP funding in 1966 or 1967, determinants of family structure that changed sharply in these years, such as cultural shifts that affected cities, could bias our estimates. Row 3 shows doubly robust estimates that drop the 1966 and 1967 LSP counties and are identified by the 68 counties that introduced the LSP in other years. Standard errors increase substantially but the point estimates do not change, except for AFDC where the remain positive.

Both of our specifications would be biased if the OEO allocated LSP funding to places that experienced the upheaval of the 1960s differently than untreated counties. Row 4 addresses this concern by using a comparison group of LSP counties treated in the future. Reassuringly, restricting comparisons to counties chosen by the OEO does not change our short-run ATT estimates.28

B. Racial Uprisings

Racial uprisings that led to widespread violence and property damage, spikes in deaths due to law enforcement (Cunningham and Gillezeau 2018a), a permanent depression of property values (Collins and Margo 2007), worse labor market conditions for black Americans (Collins and Margo 2004), white flight, and a shrinking tax base (Boustan 2010). To test whether the aftermath of these uprisings explains our results, row 5 re-estimates our models on a sample of counties that never experienced a riot. We find the same pattern of results in these areas as in the full sample.29

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28 Online Appendix Table C1 shows that using a control group of “contiguous” untreated counties produces similar results. We also compare non-treated contiguous counties to non-treated counties further away from treated counties and find no statistical difference in family structure and AFDC take-up. This suggests limited spillovers.

29 Out of 118 counties in the short-run nonmarital birth sample, 76 experienced a riot, so we add a riot indicator variable to the controls instead of dropping observations. Panel A of Online Appendix Table C2 shows that dropping the counties in the highest quintile of growth in their black share, a consequence of riots, does not alter our estimates.
C. Urban Decay and Marriage Markets

Figure 12 provides more evidence on the possibility of bias from changing marriage markets or eroding economic conditions. Panel A uses local-level sex ratios calculated from the 1930–1990 Censuses (Haines and ICPSR 2010) as outcomes, and finds no change in sex ratios after the 1960s either in the decadal point estimates or in linear trends fit to the pre- and post-1960 data points. At least on the county level the supply of men to marriage markets appears not to bias our results.30 To test for differential changes in “marriageability,” Panel B uses data on payroll per worker from the Bureau of Economic Analysis (available since 1962). We find no evidence that earnings diverged after LSPs began.31 Falling male earnings therefore cannot explain the changing family structure and welfare participation we document.

D. Other War on Poverty Initiatives

The OEO set up many local programs besides the LSP. If LSP counties also systematically received grants for other programs that encouraged welfare take-up, for example, we would overstate the effect of LSP alone. Figure 13 uses data on annual grants for Community Action Programs (CAP), Head Start, Community Health Centers (CHC)s, and Family Planning clinics to test how often these new social programs rolled out together. Similar to Bailey and Goodman-

30 Online Appendix Figure C1 shows no relative changes in race-specific sex ratios either.
31 Online Appendix Figure C2 shows a reduction in log employment (only for the doubly robust estimator) that does not begin until six years after LSP establishment. Online Appendix Figure C3 shows no sharp changes in female population around LSP establishment. The female population aged 10–49 (the denominator in the Vital Statistics analyses) fall in LSP counties in the fixed effects specification but only after about 5 years. Online Appendix Figure C4 uses the Census sample to estimate reweighted distributional effects on men’s earnings using the same method as in Figure 8. Neither all men ages 18–54 nor men without a high school diploma show evidence of differential changes in the distribution of earnings between 1960 and 1970, further suggesting that marriageability cannot explain our findings.
Bacon (2015), we find little evidence of bundling. Compared to the (mechanically) large and sustained increase in LSP grants, no other program increases very much.

The largest change is in CAP grants, which precede LSP funding by a few years. CAPs had oversight over many experimental programs and development projects funded by the OEO, but they also served a community organizing function that could conceivably influence public assistance. Row 6 in Figures 9, 10, and 11 add dummies for each county’s CAP year to the covariates in the doubly robust specification and our main estimates do not change.32

E. The National Welfare Rights Organization

Our results may also confound the effect of LSPs with the independent effects of local chapters of the National Welfare Rights Organization (NWRO; West 1981). As we discussed, LSPs often served as the legal wing for welfare rights groups (Davis 1993) but the two did not always coincide. We gathered information on the spread of WROs from membership reports and national conference attendance sheets from the archives of NWRO founder George Wiley. Row 7 in Figures 9, 10, and 11 shows that our results are robust to adding dummies for the year of NWRO establishment to the covariates. LSPs’ work with WROs is a likely mechanism, but the welfare activism occurring more broadly cannot explain our results.33

32 We also estimated models on a sample of counties that ever received a CAP. This limits the controls to counties selected by the OEO for some bundle of programs. If our main estimates are biased by comparing counties that did or did not apply/receive funds, this sample restriction should eliminate our effects. In fact they do not change.

33 These are not admissible controls if LSPs causally affect WRO establishment. If, on the other hand, WROs spring up independently but LSPs make them more effective, these estimates net out the effect of a WRO alone. Online Appendix A provides archival evidence on how LSPs and WROs worked together that is consistent with the second explanation.
F. Placebo Treatment: Community Health Centers

Lastly, Row 9 uses a similar War on Poverty program, CHCs, as a placebo test. CHCs share important characteristics and probably unobservables with LSPs. They received local funding from the OEO in similar patterns over time and space. They required high-skilled labor (doctors instead of lawyers) and hired young, idealistic professional school graduates. We have no reason to expect that CHCs should affect family structure or welfare participation, however, as they focused almost exclusively on providing health services. We take CHC treatment dates from Bailey and Goodman-Bacon (2015) and present reweighted ATT estimates for this placebo program. We find no strong evidence of changes in divorce, AFDC participation, or nonmarital birth rates after CHC establishment, even though the program arose from a nearly identical process to that of LSPs.

VI. Discussion: LSP Effects in Historical Context

The evidence presented above is consistent with a causal interpretation of the relationship between LSP establishment and divorce, welfare participation, and nonmarital births. Event-study estimates show no evidence of pre-trends and match LSPs’ reported activities both in sign and scale. Census results show larger changes among lower-educated mothers, those most likely to use LSPs. War on Poverty policies, welfare activism, urban riots, white flight, economic conditions, and sex ratios fail to account for our results. Lastly, other programs allocated in the same way bear no relationship to our main outcomes. We highlight three main implications of these findings for our historical understanding of the 1960s, evidence on economic models of family formation, and current policy.

A. LSPs as a Cause of Family Change in the 1960s

Public discourse and policy have rightly focused on the unprecedented changes to American families in the last 50 years. The controversial 1965 Moynihan report argued that a self-perpetuating “tangle of pathology” was generating skyrocketing black single motherhood rates
Moynihan’s analysis came under immediate attack for its assumptions about the causality between poverty and “family breakdown” and the fact that he ignored similar trends in white single parenthood (Rainwater and Yancey 1967). Single motherhood returned to the spotlight in the 1980s, its prevalence alternately ascribed to decades of safety net growth (Murray 1984) or the shrinking pool of “marriageable” (Black) men (Wilson 1987). Recent evidence shows that in addition to their “marriageability,” men’s physical absence through incarceration can partly explain changing family structure (Charles and Luoh 2010).

Our results show that policy mattered and highlight the previously overlooked LSP. Some of the LSPs’ effects lined up clearly with their goals. One lawyer observed that “if you can help a woman who was deserted ten years ago get a divorce now, I think that is breaking the cycle of poverty” (Finman 1971). LSP lawyers challenged welfare bureaucracies because they were especially unresponsive and arbitrary, and because they envisioned a constitutional right to guaranteed income (Krislov 1973). Increasing divorce and AFDC rates were therefore intended consequences of the LSP program. Importantly, these changes came from a policy of expanding access to legal services, institutions, and benefits, not a policy of expanding the “total welfare package,” as is commonly claimed (Murray 1993, p. S225). This is a new historical interpretation based on the reduced-form effect of LSPs specifically.35

Both explanations already had a long history. Skocpol (1992, p. 467) quotes a 1914 argument against providing Mothers Pensions to groups other than widows from the Report of the New York State Commission on Relief for Widowed Mothers: “To pension desertion or illegitimacy would, undoubtedly, have the effect of putting a premium on these crimes against society.” Du Bois and Eaton (1899, p. 53) note in their study of Philadelphia that “the first thing that strikes one is the unusual excess of females. This fact, which is true of all Negro urban populations, has not often been noticed, and has not been given its true weight as a social phenomenon.” They credit sociologist Kelly Miller of Howard University with the observation (a fact brought to our attention by Gerald Jaynes).

35 Our estimates do not speak to historical interpretations of changing Black family structure. The government did not publish tables of divorce, marriage, and AFDC participation by race, and only broke out nonmarital births by race for a handful of counties. We do not view this as a significant limitation, however, because both Black and White families
LSPs appear to have led to demographic changes that were similar in size to other well-studied state or national-level policies or shocks. County-level divorce rates responded to LSP establishment with the same pattern and magnitude as state-level rates did to unilateral divorce reforms (Wolfers 2006). LSP’s effects on single motherhood—between 1.2 and 2 percentage points—are as big as the effects of the coal bust, which reduced county-level earnings in the 1980s in the most coal-intensive areas by almost 40 percent (Black, McKinnish, and Sanders 2003; Table 4). These comparisons underscore that LSPs had large effects on the populations they served.

Improved fertility control, on the other hand, had opposite-signed but similarly sized effects on single motherhood and welfare use. Gruber, Levine, and Staiger (1999), for example, find that access to legal abortion reduced the share of children who lived with a single mother or in a household that received welfare in 1980. Ananat and Hungerman (2012) find similar effects of access to oral contraceptives on single motherhood, but no strong evidence of public assistance effects, while Bailey, Malkova, and McLaren (2019) find that federally funded family planning clinics reduced welfare use but had no detectable effect on single motherhood. LSPs shifted how women formed families and used benefits conditional on having a child, but birth control access helped as many women avoid such a choice by having no children, fewer children, or better-timed births.

36 These downstream effects stem from larger changes in period fertility than we observe after LSP establishment. Pill access reduced state-level general fertility rates by 5 fewer births per 1,000 women (Bailey 2010), family planning clinics reduced county-level rates by 3 births (Bailey 2012), and early abortion access reduced state-level rates by 4 births (Levine et al. 1999). Figure 7 shows average post-LSP reductions in general fertility rates of less than 2 births per 1,000 women.
B. Welfare as a Mechanism

We view the incentives created by AFDC and unlocked by LSPs as a key explanation for our finding that marriage rates fell and nonmarital birth rates rose after LSP establishment. One reason is that LSPs’ other activities, such as representing tenants in housing dispute, are unlikely to have the same effects on families. Second, theoretical predictions from unitary models (Becker 1991, Neal 2004) and bargaining models (Willis 1999) as well as ethnographic research (Stack 1974) support the interpretation that a benefit specifically for single parents should raise single parenthood. Moffitt (1992, p. 27) concludes that “virtually any model of marital status and childbearing behavior will have these implications.”


Our results suggest that changes in the ease with which poor women could actually receive welfare benefits can help explain this discrepancy. Local restrictions on eligibility and arbitrary

37 Charles and Stephens (2004) highlights how financial stress due to layoff increases the likelihood of divorce. However, it is unclear if evictions themselves would lead to divorce as tenants typically show signs of financial distress well before an eviction filing (Humphries et al. 2019). Relatedly, once controlling on other observables, there is no evidence that relationship dissolution is correlated with future evictions (Desmond and Gershenson 2017).
Caseworker decisions were the norm for much of AFDC’s history. Families may not have responded to benefit changes because the probability that they could get and keep those benefits appeared low. LSPs drastically changed this situation. They ensured that eligible families could get benefits, in one sense exposing them to welfare incentives for the first time. Moreover, shifts in how welfare bureaucracies treated recipients, the spread of information about rules, and the newfound willingness to apply for aid and challenge terminations these changes were plausibly permanent. Economic models of cash programs and family structure therefore have more empirical support than evidence from short-run changes in an uncertain benefit suggested.

If AFDC is a key mechanism for the nonmarital birth effects in LSP counties, it may explain growing nonmarital births in non-LSP counties, too. Appendix Figure C6 shows that from 1964-1979, AFDC rates in non-LSP counties rose by 19 cases per 1,000 women, and nonmarital birth rates rose by 3.2 births per 1,000 women. If we assume LSPs raise nonmarital birth rates only through their effect on AFDC cases then the short-run effects in Table 5 suggest that one additional AFDC case per 1,000 women leads to about 0.067 more nonmarital births per 1,000 women (0.4/6). If this holds for the kinds of AFDC cases that were added in untreated areas, then the rise in welfare outside of LSP counties can account for up to 39 percent (0.067*19/3.2) of the growth in nonmarital birth rates in untreated counties. While we interpret our estimates as the packaged effect of LSP in treated counties, this calculation is consistent with the idea that welfare mattered for family structure change across the country yet cannot fully explain it.

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38 Moffitt (1987) describes a “structural shift” in take-up in the 1960s, concluding “(1) attitudes toward welfare changed over the period and the stigma of welfare receipt fell; and (2) a series of court and legislative decisions that liberalized eligibility during the period made participation easier.” The LSP is likely responsible to a degree for both. 39 Rosenzweig (1999) argues that family structure, a long-term decision, should not be strongly affected by short-run changes in benefits, and McKinnish (2008) provides empirical support in the case of AFDC and fertility by comparing short and long differences.
C. What does an LSP effect mean for policy?
Policymakers have relied on different interpretations of family structure changes to propose drastically different policies. In 1961, for example, President Kennedy expanded welfare to two-parent families because “too many fathers, unable to support their families, have resorted to real or pretended desertion to qualify their children for help” (Kennedy 1977). In 1965, on the other hand, Moynihan advocated a federal job guarantee and then a basic income in order to address rising single motherhood (O'Connor 2001). Murray (1984, p. 227) proposed “scrapping the entire federal welfare and income-support structure for working-aged persons.” Ultimately, 1996’s Personal Responsibility and Work Opportunity Reconciliation Act did dramatically shrink cash welfare for families. The legislation specifically sought to promote marriage, “reduce the incidence of out-of-wedlock pregnancies,” and “encourage the formation and maintenance of two-parent families.”

Our findings support the claim that cash welfare restricted to single parents, when recipients can access it, affects family structure. But our findings are not consistent with a story where families changed because the safety net became more generous. The LSP brought the de facto welfare system closer to the de jure welfare system. We do not know how family structure would have responded to a less generous safety net without these arbitrary restrictions, or a more generous safety net not limited to single parents. (In fact, a motivation for AFDC was to keep children and mothers together.) Moreover, we do not find that these changes increased poverty.

40 Charles and Luoh (2010), for example, conclude that increasing sentences for low-level drug crimes reduced marriage rates in the 1980s and 1990s by altering sex ratios and bargaining in marriage markets. An implication is that criminal justice policy affects families. Shenhav (2018) and Autor, Dorn, and Hanson (2017) show that strong labor markets for women relative to men reduce marriage. An implication is that labor market policy affects families.
Considering policy around legal services, it is hard to imagine policymakers “going the other way.” In 1975, the Neighborhood Legal Services Program went through sweeping changes with new oversight and restrictions from the newly created Legal Services Corporation (LSC). By 1980, tenant-landlord disputes dominated LSP caseloads and reform cases became essentially non-existent. But it is even harder to imagine a plausible, legal, or ethical policy that reimposes unconstitutional bureaucratic practices that were overturned by LSP lawyers. Facing loosened constraints presumably increased women’s utility, but the ultimate effects of the LSP on children, for example, remains an ambiguous and open question for future research.

D. What did the LSP mean for people’s well-being?
We cannot draw conclusions about how the changes we document matter for well-being. There are reasons to believe such changes could have made parents and children worse off. Single parents cannot “gain from a division of labor between market and household activities” (Becker 1991, p. 3). Single parenthood also “deprives children of important economic, parental, and community resources” (McLanahan and Sandefur 1994, p. 3) and it is the “strongest correlate of upward income mobility” across neighborhoods (Chetty et al. 2014).41

On the other hand, LSPs relaxed poor families’ budget constraints and altered their choices. Evidence from unilateral divorce reforms, for example, shows that increased access to divorce raised divorces but reduced female suicide rates (Stevenson and Wolfers 2006) All parties may be better off if marginal marriages break up. Moreover, easier access to welfare and divorce may have changed bargaining within marriages that did not break up, and we cannot measure well-being

41 Policymakers clearly believe that family structure matters. A planning paper for the White House’s 1966 Civil Rights conference argued “few would deny that a harmonious two-parent home offers the best prospect for a child to reach his full potential” (quoted in Rainwater and Yancey 1967, p. 322). Reflecting recently on the War on Poverty, Robert Rector (2014) blamed “the collapse of marriage in low-income communities” for persistent poverty, and former House Speaker Paul Ryan (2014, p. 4) argued that the “most important determinant of poverty is family structure.”
among these couples (Lundberg and Pollak 1996). Using the National Crime Victimization Survey from 1992 to 1998, Farmer and Tiefenthaler (2003) find that legal services for victims of domestic violence has a “significant negative effect on the likelihood that an individual woman is battered.” Lastly, we do not find any increases in poverty; the cash safety net worked. One way to examine how LSPs affected well-being among children would be to observe their adult outcomes. We leave this to future work.

VII. CONCLUSION
We provide the first evidence on the effect of federally subsidized legal assistance on welfare receipt and family structure during the 1960s. Our results suggest that improved access to legal advice and representation increased divorce in the short run and led to a permanent shift up in welfare receipt, as intended. We also find that the program raised nonmarital births. These changes in marital status at birth are reflected in a reduction in the probability that mothers lived with the father of their children between 1960 and 1970. Our findings contribute to debates about why single parenthood and welfare use increased so sharply in the 1960s, and help reconcile strong theoretical predictions about welfare and families with typically weak empirical evidence.
VIII. REFERENCES


Bingley, UK: JAI Press.


CSID: Sta module for the estimation of Difference-in-Difference models with multiple time periods.


Figure 1. Mothers’ Marital Status, 1880-2019

Notes: The figure plots the share of mothers in the Census and American Community Survey who are between ages 15 and 49 and who report a marital status other than married. We group married women with an absent spouse with those divorced and separated because “separated” was only added as a separate category in 1950. In 1930, the last pre-war Census before “separated” was added to the marital status question, about 2.6 percent of women reported that they were “married, spouse absent.” In 1950, after “separated” was available, the share was 1.4 percent. The figure omits widowhood, which fell continuously throughout this period and was essentially the only reported reason for unmarried motherhood before 1920.

Sources: Ruggles et al. (2010).
Figure 2. Establishment of Neighborhood Legal Services Programs by County, 1965-1975

Notes: The figure maps the 251 counties in Sample 1 that received their first LSP grant between 1965 and 1975. Darker shading indicates earlier grant receipt. Sources: National Archives Community Action Program files and Cunningham (2016).
Figure 3. Civil Cases Handled by Legal Aid Societies and OEO Legal Services Programs, 1905-1971

Sources: Data on legal aid cases were entered from Brownell (1951) and Brownell (1971) except for the estimated number of cases in 1965, which comes from a report by the John D. Ketelle Corporation (1971). Data on LSP cases for 1967–1971 were taken from Congressional testimony by Donald Rumsfeld.
Figure 4. Relationship between LSP Establishment and Divorces

Notes: The sample includes 2,568 counties. The dependent variable is the number of divorces that occur in county \( c \) and year \( t \) divided by the number of women ages 10–49 measured in thousands. The average dependent variable in treated counties in the year their LSP starts is 9 divorces per 1,000 women. The figure plots estimates of the average treatment effect on the treated using the doubly-robust estimator in Sant’Anna and Zhao (2020) and Callaway and Sant’Anna (2020) with all covariates listed in Table 3, and a specification that uses a comparison group of counties in each treated unit’s state and urbanicity bin. The comparison counties are those that never receive an LSP grant. We plot average ATT estimates for event-times observed for all treatment cohorts which includes periods -5 to +13. Dashed lines are uniform 95 percent confidence intervals based on standard errors from a multiplier bootstrap procedure clustered by county.
Figure 5. Relationship between LSP Establishment and Aid to Families with Dependent Children Cases

Notes: The sample includes 561 counties in metropolitan statistical areas. The dependent variable is the number of open AFDC cases in county $c$ and (a given month of) year $t$ divided by the number of women ages 10–49 measured in thousands. The average dependent variable in treated counties in the year their LSP starts is 23 cases per 1,000 women. The figure plots estimates of the average treatment effect on the treated using the doubly-robust estimator in Sant’Anna and Zhao (2020) and Callaway and Sant’Anna (2020) with all covariates listed in Table 3, and a specification that uses a comparison group of counties in each treated unit’s state and urbanicity bin. The comparison counties are those that never receive an LSP grant. We plot average ATT estimates for event-times through +13, but because data on AFDC cases are not available in every year before 1968, the pre-treatment event-study coefficients are estimated on different samples of treated counties. We present the average pre-treatment coefficient between event-times -7 to -2. Dashed lines are uniform 95 percent confidence intervals based on standard errors from a multiplier bootstrap procedure clustered by county.
Notes: The sample includes either 118 counties (results plotted through event-time +4) or 61 counties (results plotted through event-time +13). The dependent variable is the number of births to unmarried mothers in county $c$ and year $t$ divided by the number of women ages 10–49 measured in thousands. The average dependent variable in treated counties in the year their LSP starts is 5 births per 1,000 women. For the full nonmarital birth sample (Sample 3), the figure plots estimates of the average treatment effect on the treated using the inverse propensity score reweighted estimator in Sant’Anna and Zhao (2020) and Callaway and Sant’Anna (2020) with all covariates listed in Table 3, and a specification that uses a comparison group of counties in the same region. The comparison counties are those that never receive an LSP grant. We plot average ATT estimates for event-times observed for all treatment cohorts, which includes periods -5 to +4 for the shorter sample and -5 to 13 for the longer sample. Dashed lines are uniform 95 percent confidence intervals based on standard errors from a multiplier bootstrap procedure clustered by county.
Figure 7. Relationship between LSP Establishment, Fertility, and Marriage

A. General Fertility Rate

B. Marriage

Notes: The dependent variable in Panel A is the number of births in county $c$ in year $t$ divided by the number of women ages 10–49 measured in thousands (mean in treated counties in the year their LSP starts is 62.7 births per 1,000 women). The dependent variable in Panel B is the number of marriages that occur in county $c$ in year $t$ divided by the number of resident women ages 10–49 measured in thousands (mean in treated counties in the year their LSP starts is 29.5 marriages per 1,000 women). The figure plots estimates of the average treatment effect on the treated using the doubly-robust estimator in Sant’Anna and Zhao (2020) and Callaway and Sant’Anna (2020) with all covariates listed in Table 3, and a specification that uses a comparison group of counties in each treated unit’s state and urbanicity bin. The comparison counties are those that never receive an LSP grant. We plot average ATT estimates for event-times observed for all treatment cohorts, which includes periods -5 to +13. Dashed lines are uniform 95 percent confidence intervals based on standard errors from a multiplier bootstrap procedure clustered by county.
Figure 8. Relationship between LSP Establishment and the Distribution of Mother’s Income by Source, 1960-1970

Notes: The figure plots DD coefficients from the reweighting estimator with the outcome variable defined as the change from 1960–1970 in the county-level probability of having income greater than or equal to the amount on the x-axis (measured in $2,000 bins in 2017 dollars). For details on “distribution regression” see Chernozhukov, Fernández-Val, and Melly (2013). This reflects changes in the cumulative distribution of income by source. Sample 5 includes mothers living with their children in the 1960 and 1970 Census in 81 counties identified in both years with underlying samples of 390,599 mothers in 1960 and 170,941 mothers in 1970. Unearned income equals total individual income minus earned income (wage, business, and farm income). Other family income equals total family income minus the mother’s own income. The dotted lines are 95-percent pointwise confidence intervals for the unearned income results. None of the individual coefficients for other sources of income are statistically significant.
Figure 9. Robustness of Intention-to-Treat Effects for Divorce Rates

Notes: The figure plots shorter-run (years 0–5) and longer-run (years 6–13) estimates for alternative specifications discussed in section V. Estimates the control for CAP (Community Action Program) or NWRO (National Welfare Rights Organization) presence add dummies use an outcome modelling estimator that compares treated counties to comparison counties that first introduced those programs in the same year. The CHC (Community Health Center) placebo estimates come from a doubly robust estimator based on the timing of CHC establishment between 1965 and 1974. Confidence intervals are based on a multiplier bootstrap procedure clustered by county.
Figure 10. Robustness of Intention-to-Treat Effects for AFDC Participation Rates

Notes: The figure plots shorter-run (years 0–5) and longer-run (years 6–13) estimates for alternative specifications discussed in section V. Estimates the control for CAP (Community Action Program) or NWRO (National Welfare Rights Organization) presence add dummies use an outcome modelling estimator that compares treated counties to comparison counties that first introduced those programs in the same year. The CHC (Community Health Center) placebo estimates come from a doubly robust estimator based on the timing of CHC establishment between 1965 and 1974. Confidence intervals are based on a multiplier bootstrap procedure clustered by county.
Figure 11. Robustness of Intention-to-Treat Effects for Nonmarital Birth Rates

Notes: The figure plots shorter-run (years 0–5) and longer-run (years 6–13) estimates for alternative specifications discussed in section V. Estimates the control for CAP (Community Action Program) or NWRO (National Welfare Rights Organization) presence add dummies use an outcome modelling estimator that compares treated counties to comparison counties that first introduced those programs in the same year. The CHC (Community Health Center) placebo estimates come from a doubly robust estimator based on the timing of CHC establishment between 1965 and 1974. Confidence intervals are based on a multiplier bootstrap procedure clustered by county.
Figure 12. Relationship between LSP Establishment, Payroll per Worker, and Sex Ratios

A. Sex Ratio

Notes: The dependent variable in Panel A is the ratio of men to women ages 15–34 in county $c$ and year $t$ from Census population tabulations (Haines and ICPSR 2010). The dependent variable in Panel B is the log of payroll per worker in county $c$ and year $t$ from County Business Patterns data. Panel A plots event-study estimates from a version of equation (1) that interacts a dummy for receiving any LSP grant with Census year dummies. Panel B plots event-study estimates from equation (1).
Figure 13. Relationship between LSP Establishment and Other War on Poverty Grants

Notes: The dependent variables are annual grant probabilities for the listed programs taken from Bailey and Goodman-Bacon (2015). The figure plots event-study estimates from the doubly robust specification. CAP = Community Action Program; CHC = Community Health Center.
Table 1. Changes in Family Structure Outcomes, 1960–1980

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
<th>(5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonmarital Births per 1,000 Women</td>
<td>4.58</td>
<td>6.91</td>
<td>9.45</td>
<td>51%</td>
<td>106%</td>
</tr>
<tr>
<td>Teens</td>
<td>6.25</td>
<td>10.73</td>
<td>14.00</td>
<td>72%</td>
<td>124%</td>
</tr>
<tr>
<td>20s</td>
<td>9.42</td>
<td>10.77</td>
<td>15.32</td>
<td>14%</td>
<td>63%</td>
</tr>
<tr>
<td>30s</td>
<td>2.48</td>
<td>2.60</td>
<td>2.88</td>
<td>5%</td>
<td>16%</td>
</tr>
<tr>
<td>40+</td>
<td>0.23</td>
<td>0.24</td>
<td>0.20</td>
<td>3%</td>
<td>-13%</td>
</tr>
<tr>
<td>Divorces per 1,000 Women</td>
<td>7.55</td>
<td>11.79</td>
<td>17.40</td>
<td>56%</td>
<td>131%</td>
</tr>
<tr>
<td>Marriages per 1,000 Women</td>
<td>27.63</td>
<td>33.10</td>
<td>32.54</td>
<td>20%</td>
<td>18%</td>
</tr>
<tr>
<td>AFDC Cases per 1,000 Women</td>
<td>14.71</td>
<td>32.47</td>
<td>52.65</td>
<td>121%</td>
<td>258%</td>
</tr>
<tr>
<td>AFDC Children per Case</td>
<td>2.76</td>
<td>2.87</td>
<td>1.99</td>
<td>4%</td>
<td>-28%</td>
</tr>
<tr>
<td>AFDC Benefit per Recipient ($2012)</td>
<td>267.31</td>
<td>268.32</td>
<td>264.54</td>
<td>0%</td>
<td>-1%</td>
</tr>
</tbody>
</table>

Notes: The table gives population-weighted means based on the available counties described in Section II.E. Divorces, marriages, and AFDC outcomes are based on 2,683 counties. Nonmarital birth rates are based on 118 counties.
Table 2. Distribution of LSP Treatment Status

<table>
<thead>
<tr>
<th>Treatment Status</th>
<th>Number of Counties</th>
<th>Percent of Counties</th>
<th>Percent of Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated Year</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treated:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1965</td>
<td>7</td>
<td>0.2</td>
<td>6.6</td>
</tr>
<tr>
<td>1966</td>
<td>105</td>
<td>3.6</td>
<td>32.3</td>
</tr>
<tr>
<td>1967</td>
<td>97</td>
<td>3.4</td>
<td>13.2</td>
</tr>
<tr>
<td>1968</td>
<td>12</td>
<td>0.4</td>
<td>1.7</td>
</tr>
<tr>
<td>1969</td>
<td>7</td>
<td>0.2</td>
<td>0.9</td>
</tr>
<tr>
<td>1970</td>
<td>11</td>
<td>0.4</td>
<td>0.9</td>
</tr>
<tr>
<td>1971</td>
<td>7</td>
<td>0.2</td>
<td>0.3</td>
</tr>
<tr>
<td>1972</td>
<td>4</td>
<td>0.1</td>
<td>0.5</td>
</tr>
<tr>
<td>1973</td>
<td>11</td>
<td>0.4</td>
<td>0.6</td>
</tr>
<tr>
<td>1974</td>
<td>5</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>1975</td>
<td>3</td>
<td>0.1</td>
<td>0.2</td>
</tr>
<tr>
<td>Untreated</td>
<td>2,618</td>
<td>90.7</td>
<td>42.8</td>
</tr>
</tbody>
</table>

Notes: The table shows the number of counties, the percentage of counties, and the percentage of our largest sample first treated by LSPs in different years. In our second largest analysis sample (2,683 counties with divorce data in every year), 251 counties received LSPs.
### Table 3. Balance in Pretreatment Characteristics Between LSP and Non-LSP Counties

<table>
<thead>
<tr>
<th></th>
<th>(1) LSP Counties</th>
<th>(2) Difference in Non-LSP Counties</th>
<th>(3) Unweighted</th>
<th>(4) State-by-Urban-Group FE</th>
<th>(5) p-value</th>
<th>(6) Reweighted</th>
<th>(7) p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent of 1960 county population:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>in urban area</td>
<td>71.7</td>
<td>-42.5</td>
<td>&lt;0.01</td>
<td>-13.8</td>
<td>&lt;0.01</td>
<td>-3.6</td>
<td>0.06</td>
</tr>
<tr>
<td>nonwhite</td>
<td>9.0</td>
<td>1.3</td>
<td>0.10</td>
<td>-2.9</td>
<td>&lt;0.01</td>
<td>-0.7</td>
<td>0.52</td>
</tr>
<tr>
<td>under age 5</td>
<td>11.5</td>
<td>-0.4</td>
<td>&lt;0.01</td>
<td>-0.4</td>
<td>&lt;0.01</td>
<td>0.0</td>
<td>0.75</td>
</tr>
<tr>
<td>with more than 12 years of school</td>
<td>42.5</td>
<td>-7.8</td>
<td>&lt;0.01</td>
<td>-1.7</td>
<td>&lt;0.01</td>
<td>-0.1</td>
<td>0.95</td>
</tr>
<tr>
<td>with family income &lt;$3k</td>
<td>19.7</td>
<td>16.4</td>
<td>&lt;0.01</td>
<td>3.6</td>
<td>&lt;0.01</td>
<td>1.3</td>
<td>0.21</td>
</tr>
<tr>
<td>with family income &gt;$10k</td>
<td>14.6</td>
<td>-7.1</td>
<td>&lt;0.01</td>
<td>-2.7</td>
<td>&lt;0.01</td>
<td>-0.3</td>
<td>0.77</td>
</tr>
<tr>
<td>Median family income</td>
<td>$5,701</td>
<td>-$1,596</td>
<td>&lt;0.01</td>
<td>-$436</td>
<td>&lt;0.01</td>
<td>-$105</td>
<td>0.44</td>
</tr>
<tr>
<td>1960 levels of:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFDC cases/1,000 women 10-49</td>
<td>15.7</td>
<td>1.8</td>
<td>0.03</td>
<td>-1.4</td>
<td>0.13</td>
<td>-0.9</td>
<td>0.46</td>
</tr>
<tr>
<td>marriages/1,000 women 10-49</td>
<td>28.0</td>
<td>3.9</td>
<td>&lt;0.01</td>
<td>1.5</td>
<td>0.10</td>
<td>0.5</td>
<td>0.57</td>
</tr>
<tr>
<td>divorces/1,000 women 10-49</td>
<td>8.2</td>
<td>-1.3</td>
<td>&lt;0.01</td>
<td>-1.0</td>
<td>&lt;0.01</td>
<td>-0.1</td>
<td>0.75</td>
</tr>
<tr>
<td>1960-1964 change in:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFDC cases/1,000 women 10-49</td>
<td>3.0</td>
<td>-3.1</td>
<td>&lt;0.01</td>
<td>-1.9</td>
<td>&lt;0.01</td>
<td>-0.5</td>
<td>0.44</td>
</tr>
<tr>
<td>marriages/1,000 women 10-49</td>
<td>1.0</td>
<td>0.8</td>
<td>0.02</td>
<td>0.7</td>
<td>0.07</td>
<td>0.0</td>
<td>0.91</td>
</tr>
<tr>
<td>divorces/1,000 women 10-49</td>
<td>0.5</td>
<td>0.1</td>
<td>0.31</td>
<td>0.2</td>
<td>0.16</td>
<td>0.0</td>
<td>0.84</td>
</tr>
<tr>
<td><strong>Joint F-stat</strong></td>
<td><strong>37.04</strong></td>
<td><strong>16.02</strong></td>
<td><strong>&lt;0.01</strong></td>
<td><strong>&lt;0.01</strong></td>
<td><strong>&lt;0.01</strong></td>
<td><strong>&lt;0.01</strong></td>
<td><strong>0.99</strong></td>
</tr>
</tbody>
</table>

**Notes:** The table gives summary statistics for 2,568 counties from our outcome data or from Haines and ICPSR (2010).
Table 4. Estimated ATT Effects of LSPs on Divorce, Nonmarital Births, and AFDC Cases

<table>
<thead>
<tr>
<th></th>
<th>(1) Divorces per 1,000 Women</th>
<th>(2) Divorces per 1,000 Women</th>
<th>(3) AFDC Cases per 1,000 Women</th>
<th>(4) AFDC Cases per 1,000 Women</th>
<th>(5) Non-Marital Births per 1,000 Women</th>
<th>(6) Non-Marital Births per 1,000 Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-LSP</td>
<td>0.01</td>
<td>0.03</td>
<td>-0.81</td>
<td>-0.91</td>
<td>0.05</td>
<td>0.16</td>
</tr>
<tr>
<td>Years -5 to -2</td>
<td>(0.14)</td>
<td>(0.12)</td>
<td>(0.38)</td>
<td>(1.54)</td>
<td>(0.12)</td>
<td>(0.18)</td>
</tr>
<tr>
<td>Shorter-Run Post-LSP</td>
<td>0.58</td>
<td>0.88</td>
<td>6.36</td>
<td>5.77</td>
<td>0.41</td>
<td>0.43</td>
</tr>
<tr>
<td>Years 0-5</td>
<td>(0.16)</td>
<td>(0.17)</td>
<td>(0.69)</td>
<td>(0.83)</td>
<td>(0.17)</td>
<td>(0.16)</td>
</tr>
<tr>
<td>Longer-Run Post-LSP</td>
<td>-0.08</td>
<td>0.50</td>
<td>13.34</td>
<td>11.73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Years 6-13</td>
<td>(0.23)</td>
<td>(0.27)</td>
<td>(1.58)</td>
<td>(1.57)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Counties

<table>
<thead>
<tr>
<th>Specification</th>
<th>Within state/urban</th>
<th>Doubly-robust</th>
<th>Within state/urban</th>
<th>Doubly-robust</th>
<th>Within region</th>
<th>Inverse propensity score reweighted</th>
</tr>
</thead>
</table>

Notes: The table presents estimates from an inverse propensity score reweighted specification and an unweighted specification that controls for state-by-year and urban-group-by-year fixed effects that summarize the event-study figures by grouping event-times of years -6 to -2, 0 to 5, and 6 to 13. We do not observe event-times before -5 or after +13 for all treated counties.
## Table 5. Quantifying LSPs’ Role in Nonmarital Birth and AFDC Rates, 1964–1984

<table>
<thead>
<tr>
<th></th>
<th>(1) AFDC Cases per 1,000 Women</th>
<th>(2) AFDC Cases per 1,000 Women</th>
<th>(3) Nonmarital Births per 1,000 Women</th>
<th>(4) Nonmarital Births per 1,000 Women</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Treated Counties (273)</td>
<td>All Observed Counties (3,024)</td>
<td>Treated Counties (72)</td>
<td>All Observed Counties (118)</td>
</tr>
<tr>
<td><strong>Observed Outcomes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. 1964</td>
<td>19.9</td>
<td>17.9</td>
<td>5.5</td>
<td>5.2</td>
</tr>
<tr>
<td>b. 1979</td>
<td>63.7</td>
<td>51.5</td>
<td>10.4</td>
<td>9.5</td>
</tr>
<tr>
<td>c. Change</td>
<td>43.8</td>
<td>33.6</td>
<td>4.8</td>
<td>4.3</td>
</tr>
<tr>
<td><strong>Counterfactual Outcomes in 1979</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Rewighted Specification</td>
<td>54.1</td>
<td>46.2</td>
<td>9.1</td>
<td>8.4</td>
</tr>
<tr>
<td>e. Fixed Effects Specification</td>
<td>53.1</td>
<td>45.7</td>
<td>8.3</td>
<td>7.8</td>
</tr>
<tr>
<td><strong>Treatment Effect Magnitudes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Rewighted Specification: (b-d)/d</td>
<td>18%</td>
<td>11%</td>
<td>14%</td>
<td>12%</td>
</tr>
<tr>
<td>g. Fixed Effects Specification: (b-e)/e</td>
<td>20%</td>
<td>13%</td>
<td>25%</td>
<td>21%</td>
</tr>
<tr>
<td>h. Rewighted Specification: (b-d)/c</td>
<td>22%</td>
<td>16%</td>
<td>27%</td>
<td>24%</td>
</tr>
<tr>
<td>i. Fixed Effects Specification(b-e)/c</td>
<td>24%</td>
<td>17%</td>
<td>43%</td>
<td>38%</td>
</tr>
</tbody>
</table>

**Notes:** To calculate counterfactuals we subtract the event-study estimates from observed outcomes by county. Columns (1) and (2) contain averages for treated counties only and all counties in Sample 2, and columns (3) and (4) contain averages for treated counties only and all counties in Sample 4.
Table 6. Estimated Effects of LSPs Stratified by State Divorce and Two-Parent Welfare Policy

<table>
<thead>
<tr>
<th></th>
<th>(1) Divorces &lt;br&gt;per 1,000 &lt;br&gt;Women</th>
<th>(2) AFDC &lt;br&gt;Cases per &lt;br&gt;1,000 &lt;br&gt;Women</th>
<th>(3) Nonmarital &lt;br&gt;Births per &lt;br&gt;1,000 &lt;br&gt;Women</th>
<th>(4) Divorces &lt;br&gt;per 1,000 &lt;br&gt;Women</th>
<th>(5) AFDC &lt;br&gt;Cases per &lt;br&gt;1,000 &lt;br&gt;Women</th>
<th>(6) Nonmarital &lt;br&gt;Births per &lt;br&gt;1,000 &lt;br&gt;Women</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Early No-Fault Divorce States</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Shorter-Run Post-LSP</strong></td>
<td>1.33 (0.32)</td>
<td>9.03 (1.85)</td>
<td>0.59 (0.36)</td>
<td>0.81 (0.2)</td>
<td>7.47 (0.97)</td>
<td>0.44 (0.19)</td>
</tr>
<tr>
<td><strong>Longer-Run Post LSP</strong></td>
<td>0.78 (0.39)</td>
<td>10.21 (3.04)</td>
<td>0.42 (0.27)</td>
<td>13.17 (1.96)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>B. Late No-Fault Divorce States</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Shorter-Run Post-LSP</strong></td>
<td>0.62 (0.22)</td>
<td>4.77 (0.76)</td>
<td>0.60 (0.19)</td>
<td>0.73 (0.39)</td>
<td>2.79 (1.79)</td>
<td>0.41 (0.36)</td>
</tr>
<tr>
<td><strong>Longer-Run Post LSP</strong></td>
<td>0.31 (0.36)</td>
<td>12.18 (1.75)</td>
<td>0.86 (0.65)</td>
<td>7.11 (2.9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>C. AFDC-UP States</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Shorter-Run Post-LSP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>D. Non-AFDC-UP States</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>H0: Equal shorter-run coefficients</strong></td>
<td>0.07</td>
<td>0.03</td>
<td>0.98</td>
<td>0.84</td>
<td>0.02</td>
<td>0.93</td>
</tr>
<tr>
<td><strong>H0: Equal longer-run coefficients</strong></td>
<td>0.38</td>
<td>0.57</td>
<td>0.53</td>
<td>0.08</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: The table presents estimated effects from the reweighting specification stratified by state policy characteristics. Panels A and B split the sample into states with no-fault divorces laws in 1970 or earlier (12 states) and those that introduced no-fault divorce after 1970 (37 states). No-fault divorce simplified the legal process for obtaining a divorce, making it easier for LSP lawyers, for example, to perform divorces (Wolfers 2006). Panels C and D split the sample into states that had an AFDC-Unemployed Parent (AFDC-UP) program before 1981 (31 states, mostly implemented in the 1960s) and states that introduced AFDC-UP after a federal mandate in 1981 (18 states). AFDC-UP allowed benefits to be paid to families with both parents present and therefore meant that women need not be unmarried or non-cohabiting to receive assistance.

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unmarried Head of Household</td>
<td>0.020</td>
<td>0.028</td>
<td>0.017</td>
<td>-0.003</td>
</tr>
<tr>
<td></td>
<td>(0.004)</td>
<td>(0.007)</td>
<td>(0.004)</td>
<td>(0.011)</td>
</tr>
<tr>
<td>Living with the Father of Any Children</td>
<td>-0.021</td>
<td>-0.030</td>
<td>-0.018</td>
<td>-0.001</td>
</tr>
<tr>
<td></td>
<td>(0.005)</td>
<td>(0.008)</td>
<td>(0.004)</td>
<td>(0.012)</td>
</tr>
<tr>
<td>Poor</td>
<td>0.007</td>
<td>0.009</td>
<td>0.010</td>
<td>0.007</td>
</tr>
<tr>
<td></td>
<td>(0.005)</td>
<td>(0.01)</td>
<td>(0.004)</td>
<td>(0.008)</td>
</tr>
</tbody>
</table>

**A. Within-Region Specification**

**B. Reweighted Specification**

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
</tr>
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<tbody>
<tr>
<td>All</td>
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</tr>
<tr>
<td>Unmarried Head of Household</td>
<td>0.012</td>
<td>0.017</td>
<td>0.010</td>
<td>0.009</td>
</tr>
<tr>
<td></td>
<td>(0.007)</td>
<td>(0.01)</td>
<td>(0.004)</td>
<td>(0.01)</td>
</tr>
<tr>
<td>Living with the Father of Any Children</td>
<td>-0.026</td>
<td>-0.035</td>
<td>-0.022</td>
<td>-0.019</td>
</tr>
<tr>
<td></td>
<td>(0.012)</td>
<td>(0.007)</td>
<td>(0.019)</td>
<td>(0.009)</td>
</tr>
<tr>
<td>Poor</td>
<td>0.020</td>
<td>0.028</td>
<td>0.020</td>
<td>-0.008</td>
</tr>
<tr>
<td></td>
<td>(0.019)</td>
<td>(0.023)</td>
<td>(0.02)</td>
<td>(0.005)</td>
</tr>
</tbody>
</table>

Notes: The table presents difference-in-differences estimates using a sample of mothers living in 81 identified counties in 1960 (390,599 respondents) or 1970 (170,941 respondents). Panel A presents estimates from the fixed effects specification and Panel B presents reweighted estimates. Because there are so few counties, we use region fixed effects in Panel A instead of state fixed effects. We collapse the data to county-level changes and estimate a cross-sectional regression with a dummy for having an LSP by 1970 as the right-hand-side variable of interest. The underlying sample in column 1 uses all mothers, columns 2–4 use means calculated separately by mother’s education.