How the 1963 Equal Pay Act and 1964 Civil Rights Act Shaped the Gender Gap in Pay

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July 23, 2023

Abstract

In the 1960s, two landmark statutes—the Equal Pay and Civil Rights Acts—targeted the long-standing practice of employment discrimination against U.S. women. For the next 15 years, the gender gap in median earnings among full-time, full-year workers changed little, leading many scholars and advocates to conclude the legislation was ineffectual. This paper uses two different research designs to show that women's relative wages grew rapidly in the aftermath of this legislation. The data show little short-term changes in women's employment but some evidence that firms reduced their hiring and promotion of women in the medium to long term.

JEL Codes: J16, J71, N32

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Acknowledgements

This work was generously supported by the University of Michigan (UM) Department of Economics (MITREG022729) and the UCLA Department of Economics. We gratefully acknowledge the use of the services and facilities of the California Center for Population Research at UCLA (P2C HD041022), which receives funding from the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD). During work on this project, Bryan A. Stuart was supported by the NICHD (T32 HD0007339) as a University of Michigan Population Studies Center trainee. We thank Francine Blau, Claudia Goldin, Hilary Hoynes, Lawrence Katz, and numerous seminar and conference participants for helpful comments and discussions. We also thank Kelsey Figone and Deniz Gorgulu for excellent research support. The views expressed here are solely those of the authors and do not necessarily represent the views of the Federal Reserve Bank of Philadelphia or the Federal Reserve System.

In the 1960s, two landmark pieces of legislation targeted the long-standing practice of employment discrimination against U.S. women. The Equal Pay Act of 1963 became the first piece of federal legislation to mandate equal pay for equal work through an amendment to the Fair Labor Standards Act (FLSA) (P.L. 88-38). The following year, Title VII of the Civil Rights Act of 1964 went further to ban sex-based discrimination in hiring, firing, and promotion (P.L. 88-352). In the context of the 1960s, these Acts were nothing short of revolutionary: according to the 1963 Occupational Wage Survey (OWS), women earned around 17 log points less than men working in the same narrowly defined jobs (U.S. Department of Labor 1963).

Today, few histories conclude that the legislation succeeded, at least in its early years. Annual estimates reported for decades by the Census Bureau show that—among full-time, full-year workers—women's median annual wage earnings hovered around 60 percent of men's for 15 years after the legislation passed (Figure 1A). Goldin (1990) argues that "equal pay for equal work has been ... a rather weak doctrine to combat discrimination" (p. 201) and that "Title VII of the 1964 Civil Rights Act has also been weak in counteracting pay inequities that arise from differences in jobs and promotion" (p. 209). Given high rates of occupational segregation (Blau 1977, Groshen 1991), the legal standard of "equal work" meant that firms could segregate workers across occupations or establishments to comply with the letter of the law, while maintaining discriminatory pay practices. Gunderson (1989) notes that, "because differences in pay across establishments and industries account for a substantial portion of the gap, this severely restricts the scope of policies like equal pay and comparable worth, both of which are limited to comparisons within the same establishment" (p. 68). In addition, there is little evidence of enforcement of Title VII for sex discrimination until the 1970s (Simchak 1971), which has led research on the law's consequences to focus on this later period (Beller 1979, 1982a, b). Blau and Kahn's (2017) article in the *Journal of Economic Literature* summarizes the professional consensus: "we see no indication of a notable improvement in women's

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¹ The Census Bureau has reported the gender gap at the median for full-time, full-year workers for decades in order to characterize pay gaps for individuals with a similar level of labor-market attachment. However, full-time full-year women workers comprised only 45 percent of working women in 1964.

relative earnings in the immediate post-1964 period that might be attributable to the effects of the government's antidiscrimination effort; the gender pay ratio remained basically flat through the late 1970s or early 1980s, after which it began to increase" (p. 848).

Yet a closer examination of the earnings distribution for a broader set of workers hints that the legislation mattered more than previously believed. Figure 1B shows that the gender gap converged rapidly after 1964 for lower-wage workers if one broadens the Census Bureau's sample to include full-time women working at least 27 weeks—a sample more similar to modern analyses (Blau and Beller 1988, Bailey, Helgerman, and Stuart 2021). The historical record supports this conclusion as well. The Department of Labor reported great success with the Equal Pay Act's enforcement (Moran 1970), and the *Wall Street Journal* celebrated ten years of the legislation, headlining that \$475 million (2022 dollars) had been awarded to 140,000 workers in the legislation's first decade (Hyatt 1973). Although few contemporaries claimed that Title VII affected sex discrimination before 1971, the law's timing and potential role in strengthening and broadening the Equal Pay Act make its effects difficult to rule out.

This paper reexamines the combined effects of the Equal Pay Act and Title VII on women's labor market outcomes in the 1960s using two complementary approaches. Motivated by Neumark and Stock (2006), our first approach is based on the logic that federal anti-discrimination legislation—if effective—should have larger effects in the 28 states without pre-existing equal pay laws. Drawing on the 1950-1960 Decennial Census and 1962-1975 Annual Social and Economic Supplement (ASEC) of the Current Population Survey (CPS), we find that women's weekly wages rose by around 9 percent (8.7 log points) more in states without pre-existing equal pay laws after the federal legislation took effect. These estimates are robust to controlling for state-by-birth-cohort fixed effects, which flexibly account for cohort-level shifts in women's aspirations and skills (Goldin, Katz, and Kuziemko 2006, Goldin 2006a, b), as well as industry-by-year and occupation-by-year fixed effects, which flexibly account for national changes in the economy and help focus the analysis on the narrowly defined types of discrimination targeted by Equal Pay legislation. While this research design has the advantage of characterizing broad changes in the labor market, its internal validity is limited to the extent that unobserved forces may have differentially affected

labor markets in states without pre-existing equal pay laws.

Our second approach addresses this concern by examining within-state changes in women's weekly wages following the passage of the legislation. This approach follows Card's (1992) influential work on the minimum wage, which exploits the fact that a national policy has greater incidence in areas where more individuals are affected. Although we do not observe sex discrimination in the data, this paper hypothesizes that the observed gender gap in pay within industry-occupation-state-group cells is correlated with this latent variable. If this hypothesis holds and federal anti-discrimination legislation was somewhat effective, we expect women's wages to rise more quickly after 1964 in job cells with larger pre-existing gender gaps. An advantage of this research design is that it permits the inclusion of state-by-year fixed effects to absorb potentially confounding time-varying state-level factors that could compromise the internal validity of the first research design.

Consistent with federal legislation narrowing gender gaps, we find that women's weekly wages grew more quickly after 1964 in job cells with larger pre-existing gender gaps—an effect equivalent to 11 percent (10 log points) at the mean gender gap. Noteworthy is that effect sizes do not differ for White and Black women, which suggests that the estimates are not driven by the Civil Rights Act's effects on racial discrimination. In addition, the research design recovers no effects of the legislation on men's wages, which ameliorates concerns that alternative labor-market shocks or policies drive these findings.

Heterogeneity tests underscore the complementarity and validity of the two empirical approaches. In states without pre-existing equal pay laws—where federal anti-discrimination legislation should have been more effective—women's weekly wages grew by 18 percent at the mean after 1964, whereas women's wages grew by one-third that amount (6 percent) in states with pre-existing equal pay laws. Recentered-influence-function (RIF) regressions show that the largest effects of the legislation accrued to women in the lowest percentiles of the wage distribution (Firpo, Fortin, and Lemieux 2009), which connects these findings to the large wage growth among women earning below the median after 1964 in Figure 1B. These patterns are consistent with pay equalization being greater in jobs where the "equality of work" was more easily judged and where the Wage and Hour Division (WHD)—the agency tasked with enforcing the Equal

Pay Act—focused its investigations of compliance with the minimum wage.

A final analysis investigates how federal anti-discrimination legislation affected women's employment. Consistent with firms having some monopsonistic power to set wages, the data provide little evidence that women's employment or annual hours fell in response to wage increases in the short run—findings that align closely with Manning's (1996) study of the Equal Pay Act in the United Kingdom. In the long run, however, we find some evidence that women's employment grew more slowly in more affected job cells, which is consistent with Neumark and Stock's (2006) study of state-level anti-discrimination legislation before 1960. Contemporary accounts provide direct evidence as to why this might have been the case. After the passage of the Equal Pay Act but prior to the Civil Rights Act (which made the practice illegal), employers told journalists that they planned to "segregate male and female job classifications" and "downgrade job classifications for women and assign higher-paying duties to men" in response to the Equal Pay Act (Washington Post 1964).

In summary, these results imply an important role for the Equal Pay Act and Title VII in reducing pay discrimination against U.S. women in the 1960s. The magnitudes of our findings suggest that federal anti-discrimination legislation reduced the within-job gender gap in pay by at least 58 percent between 1964 and 1968 but may have slowed the integration of women into higher-paying, historically male jobs in the longer term. These findings contribute to a long but mixed literature on the role of anti-discrimination legislation in reducing the gender gap in the U.S., which has focused on the effects of affirmative action after 1967 or the later expansion or enforcement of Title VII after 1970 (Beller 1979, 1982a, b, Leonard 1984, Carrington, McCue, and Pierce 2000, Holzer and Neumark 2006, Kurtulus 2012, Helgerman 2023). Little evidence exists regarding the effects of the 1963 Equal Pay Act, and studies of equal pay initiatives in other countries suffer from a dearth of data, limited internal validity, and differences in policies and implementation (Gunderson 1989). This paper develops two new empirical strategies to show that the *implementation* of the Equal Pay Act, which was potentially strengthened by Title VII, reduced the gender gap in pay in the mid-1960s across the U.S. labor market.

I. A History of the Equal Pay Act and Title VII of the Civil Rights Act

In the early 1960s, sex discrimination in labor markets was not only widely accepted, it was also institutionalized and legal. State laws mandated different minimum wage, break, and rest requirements for men and women and placed different restrictions on the jobs men and women could hold (Moran 1970, Marchingiglio and Poyker 2021). Union contracts delineated different pay schedules by sex for the same job (Eaton 1965). Newspapers posted help-wanted advertisements for male and female jobs (Pedriana and Abraham 2006), along with explicitly different pay scales for what appear to be the same jobs.² Firms often fired women when they got married (Goldin 1991) and more routinely when they became pregnant (Gruber 1994).

After World War II opened many jobs to women, their labor-force participation rates grew rapidly, rising from around 26 percent to 35 percent between 1940 and 1960 (Goldin 1990, p. 17). The rise of scheduled part-time work in the 1940s and 1950s pulled significant numbers of married women into the labor force, many of whom worked fewer than 35 hours per week. Changes in part-time work were particularly pronounced in certain sectors. For example, only 14 percent of the female sales sector worked part-time in 1940 but 40 percent did by 1960 (Goldin 2006a). The increase in part-time work also reinforced the segregation of women into certain jobs. Women tended to work as secretaries, teachers, nurses, librarians, and social workers. In the 1960 Census, approximately 83 percent of male workers were employed in occupations in which no more than 20 percent of the workers were female (Blau 1977, p. 12), but some women were entering male-dominated fields: 58 percent of women worked in occupations where they comprised more than 80 percent of the workers, with the other 42 percent working in more integrated occupations (Ibid).

Between 1950 and 1960, men's weekly wages grew by 32 log points, whereas women's weekly wages only grew by around half that figure, increasing the gap in pay by around 16 log points (Appendix Table 1A). A Kitagawa-Blinder-Oaxaca decomposition using basic demographic variables (log hours

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² In an analysis of these advertisements, Hunt and Moehling (2021) find an advertised gender wage gap of 38 log points in three cities in 1960, 28 log points of which corresponds to within-agency differences in pay.

worked per week, years of schooling, years of potential experience, an indicator for being married, and an indicator for race) shows that only 13 percent (=0.022/0.164) of the growing gender gap is explained by changes in women and men's characteristics (primarily hours worked). Much of the gender gap, however, is explained by occupational segregation. Adding detailed indicators for industry (143 categories) and occupation (263 categories) raises the explained share of the increase in the gender gap to 60 percent.

A. State and Federal Equal Pay Acts

Within this broader context of a rising gender pay gap, the 1963 Equal Pay Act represented a watershed moment following decades of advocacy. Federal equal pay legislation was first introduced to Congress in 1945 after wage studies showed pervasive wage inequality between women and men in wartime industries. The Women's Bureau in the Department of Labor documented multiple examples of sex-based pay discrimination, including discrepancies in entry wages and pay for more experienced workers in identical jobs (Fisher 1948).³ Although federal legislation failed to pass for two decades, 22 states passed equal pay laws before 1963 (U.S. Congress 1963). State equal pay laws were primarily in the Northeast, Midwest, and West (Figure 2), where their aim was often to keep women from undercutting men's wages rather than raising women's earnings. Arkansas was the sole state in the South to pass equal pay legislation.

State equal pay laws varied in their language and enforcement. Michigan and Montana, the two states that passed the first equal pay laws in 1919, illustrate these differences well. While Montana's law applied to nearly any enterprise employing men and women, Michigan's law applied only to employees in manufacturing. A common thread across these two states is that neither one went beyond making a "general declaration of law," which made these laws difficult to enforce (Fisher 1948, p. 54). In making the case for a national Equal Pay Act to Congress, the Women's Bureau noted that state laws "leave large groups of workers out, and often have inadequate provisions for administration and enforcement" (U.S. Congress 1963, p. 20).

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³ Fisher (1948) reports one particularly egregious example: "In the gun manufacturing industry...where *experienced* men and women worked on five different types of machines, the *lowest* rate for men was at least ten cents *above* the highest wage paid to women" (p. 51).

The momentum to pass federal anti-discrimination legislation in the 1960s grew out of President John F. Kennedy's Commission on the Status of Women. The Equal Pay Act was first introduced to Congress in August of 1961 and managed to pass in both houses, but the business lobby undermined the bill during the reconciliation process (Harrison 1989). Esther Peterson, the Assistant Secretary of Labor and Director of the U.S. Women's Bureau under Kennedy, redoubled her efforts and revived the Equal Pay Act as an amendment to the FLSA (P.L. 75-718). In addition to producing detailed reports to document pay differences (U.S. Congress 1962), Peterson used her Congressional testimony to describe pervasive sex discrimination in employment. Analyzing pay differences among similarly experienced bank tellers working comparable hours, the Department of Labor found that women had lower weekly earnings in every city studied (U.S. Congress 1963, p. 31). Furthermore, surveys found that men outearned women with the same title in nearly all establishments (p. 30, 37).

To quantify the gender gap in pay within narrowly defined jobs just before the Equal Pay Act passed, we digitized the 1963 Occupational Wage Survey (OWS), which contains weekly or hourly wage observations by sex from 82 cities and 58 narrowly defined job classifications (U.S. Department of Labor 1963). The OWS show a 32-log-point gap in pay across all cities and jobs in 1963 (Appendix Table 3), which is similar to the gap in weekly wages in the Census and ASEC. When including fixed effects for detailed job classifications, the within-job gap in weekly pay is 17 log points—a sizable wage gap within jobs that could be targeted by the Equal Pay Act. Jobs with hourly pay show a larger total gender gap in pay of 44 log points but a similar within-job difference in pay of 18 log points. The Labor Department noted that differences in pay occurred mostly in "large department stores, banks, airline reservation offices, chain stores, and other firms where men and women customarily perform similar work" (Eaton 1965).

Peterson's report also cited a National Office Management Association survey of employers in the U.S. and Canada, which asked, "Do you have a double standard pay scale for male and female office workers?" (U.S. Congress 1963, p. 27), where one third of employers answered, "Yes." In discussions with

⁴ Appendix Table 2 reprints tabulations of gender differences in average hourly earnings across several industry-occupation categories in Chicago, Winston-Salem, and Philadelphia.

members of Congress, Peterson often cited a personal anecdote as well, noting that a manager told her, "We pay them less because we can get them for less" (quoted in Harrison 1989, p. 95).

Under Peterson's stewardship, the revised equal pay bill was introduced on February 14, 1963, and—after replacing the phrase "comparable work" with "equal work"—passed into law on June 10, 1963. The Equal Pay Act prohibited sex-based *wage* discrimination between men and women in the *same* establishment who perform jobs that require substantially *equal* skill, effort, and responsibility under similar working conditions. For workers not covered under collective bargaining agreements, the Equal Pay Act took effect on June 10, 1964. For the 13 percent of women who were unionized in the early 1960s (LeGrande 1978), the Act took effect the following year on June 10, 1965. As an amendment to the FLSA, the Equal Pay Act only applied to workers covered under the FLSA.

B. Title VII of the Civil Rights Act

Just one year after the Equal Pay Act passed, Congress enacted the 1964 Civil Rights Act. Title VII of the Civil Rights Act largely overlapped with the Equal Pay Act in its coverage of pay discrimination but also extended its provisions by (1) expanding coverage to many workers not covered under the FLSA and (2) prohibiting sex-based discrimination in employment, including hiring, firing, and promotions. Coverage was not universal: Title VII did not apply to public sector employees until 1972 (Posner 1989), and the legislation covered only employers with at least 100 employees as of July 1965, a threshold that was gradually reduced to 25 employees by 1968.

⁵ Sex discrimination can take many different forms, including women being paid less than their productivity solely due to their sex, being hired less or receiving different job assignments, and receiving different promotion opportunities. The Equal Pay Act only addresses sex discrimination to the extent that it manifests as unequal pay for equal work.

⁶ Not all workers are covered under the FLSA, but its coverage was expanded in the 1961 and 1966 Amendments and in the 1972 Educational Amendments. The 1961 Amendments extended coverage to employees in retail or service, local transit, construction, and gasoline service stations. The 1966 Amendments expanded coverage to include employees on large farms, federal service contracts, federal wage board employees, and certain Armed Forces employees (e.g., post exchanges). It also narrowed or repealed exemptions for employees of hotels, restaurants, laundries and dry cleaners, hospitals, nursing homes, schools, auto and farm implement dealers, small loggers, local transit and taxi companies, agricultural processing, and food services. Finally, the 1966 FLSA included an indirect expansion of coverage through its reduction in the enterprise volume test from \$1 million (in the 1961 Amendments) to \$250,000. See Bailey, DiNardo, and Stuart (2021) for a discussion of changes in coverage and minimum wages in the 1960s. Another quirk of the FLSA is that section 13(a)(1) carves out an exemption to the minimum wage and overtime provisions for any worker employed in a *bona fide* executive, administrative, or professional (EAP) capacity. Consequently, when the Equal Pay Act Amendment prohibited discrimination on the basis of sex by amending the minimum wage provisions of the FLSA, EAP-exempt workers were not covered. In 1972, Title IX of the Educational Amendments amended Section 13(a) to remove the EAP exemption.

The goal of the Civil Rights Act had little to do with gender equality, and the initial legislation did not include sex among the protected classes of race, color, religion, and national origin. "Sex" was added to Title VII's protected classes just one day before the final vote by a segregationist, Representative Howard Smith (D-Virginia), who opposed the Act's passage. Many commentators believe Smith intended to make the bill unpassable (Harrison 1989). Thomas (2016) explains how Rep. Smith played his amendment for laughs, claiming a letter from his constituent had asked him to "protect our spinster friends." One of the twelve women House Representatives, Martha Griffiths (D-Michigan), silenced the laughter, saying, "if there had been any necessity to point out that women were a second-class sex, the laughter would have proved it" (p. 102). The next day the legislation passed, codifying prohibitions of sex-based employment discrimination into federal law.

C. The Effectiveness of Anti-Discrimination Legislation in the 1960s

As an amendment to the FLSA, the enforcement of the Equal Pay Act fell to the WHD in the Department of Labor, which monitors and enforces compliance with the FLSA (P.L. 75-718). Based on the WHD's long reputation, firms knew that non-compliance could be punished by mandating the payment of back wages and criminal prosecution, and courts had already settled many points of interpretation. Following the Equal Pay Act's effective date in 1964, the WHD instructed its field staff to check for compliance with the new equal pay provisions as part of *all* investigations under the FLSA (U.S. Department of Labor 1965). In addition, the Labor Department filed suits signaling its intent to enforce the law. *Wirtz v. Basic Incorporated* (1966) challenged an employer's claim that a male analyst was entitled to more money because he had greater experience and responsibility. The court supported the Labor Department's claim of discrimination, noting that the work of three employees (one man and two women) was the same and that the man's greater experience was not a requirement of the job. The ruling emphasized that the statutory requirement of "differences in working conditions" could not be established by job title alone and that the burden of proof for any exceptions to equal pay lay with the employer.

The Department of Labor continued to enforce compliance with the Equal Pay Act, both reviewing labor union contracts and bringing multiple lawsuits. By the end of 1964, investigators had found \$55,000

in discriminatory wage payments owed to women, and one firm voluntarily paid \$227,000 in back pay when the WHD began checking for discrimination (in 2022 dollars). By 1965, around 80 percent of sex-discrimination complaints had led to back payments to workers. Likely due to the WHD's enforcement, Secretary Wirtz reported to Congress that "voluntary" compliance with the Equal Pay Act was high (U.S. Department of Labor 1966, p. 18). Many unions and employers made voluntary changes to eliminate contractual differences in wage rates, welfare and pension plans, sick leave, rest periods, and "marriage provisions" that dictated the loss of seniority and possible dismissal for women getting married. At the same time, the courts strengthened the law by issuing rulings to eliminate employer justifications for unequal pay. (See Appendix D for contemporary newspaper articles about these enforcement efforts.)

Building on the federal Equal Pay Act, many states extended existing fair employment practice laws to prohibit pay discrimination on the basis of sex, while others passed new equal pay legislation. These state measures supplemented the federal law by extending the equal pay principle to areas not covered by federal statutes (Simchak 1971). By the end of the 1960s, some contemporaries concluded that the Equal Pay Act had been successful in achieving its aims (Moran 1970). Hole and Levine (1971) argue that "the Equal Pay Act [is] the only law dealing with sex discrimination that is anywhere near properly enforced" (p. 29).

The enforcement of Title VII was a different story. The Equal Employment Opportunity Commission (EEOC)—the newly created agency tasked with the enforcement of the 1964 Civil Rights Act—had limited will and authority to enforce the law's sex-based provisions (Munts and Rice 1970). The EEOC regarded its primary mission as reducing racial discrimination, maintaining that "the addition of *sex* to the law had been illegitimate—merely a ploy to kill the bill" (Harrison 1989, p. 187).⁷ Another complication was that Title VII challenged decades of state protective legislation that explicitly set different standards by sex. Because the 1965 EEOC did not see "any clear Congressional intent to overturn all of

⁷ When a reporter asked Franklin D. Roosevelt, Jr., the EEOC's first commissioner, "What about sex?" Roosevelt joked, "I'm all for it." Similarly, the EEOC's second executive director, Herman Edelsberg, dismissed the sex provision as a "fluke" that was "conceived out of wedlock" (Thomas 2016). Title VII became known as the "Bunny Law," named after a satirized case in which Playboy turned down a man for a job as a Playboy bunny.

these [state] laws" (Ibid), it created a task force to provide states with guidelines—a process that took years (Munts and Rice 1970). Unlike the Labor Department, the EEOC was initially unable to bring its own lawsuits and could only refer cases to the Department of Justice. Consequently, the EEOC had pursued very few sex discrimination cases by 1970. Simchak (1971) notes, "Of the total number of court cases filed by the Department of Justice to date (approximately fifty) under all the discrimination criteria in Title VII, only one has pertained to sex discrimination" (p. 555).

Ambivalence about sex discrimination outside the Labor Department is also evident in President Johnson's 1965 Executive Order 11246, an affirmative action mandate that omitted "sex" entirely (Johnson 1965). The order prohibited the federal government and federal contractors from employment discrimination on the basis of race, color, religion, or national origin only. This inaction galvanized women's groups and advocacy efforts and eventually resulted in Executive Order 11375 in 1967, which amended Order 11246 to include "sex" (Johnson 1967, Harrison 1989). But the EEOC's active enforcement of Title VII's sex provisions did not increase in earnest until after the U.S. Supreme Court's first decision in *Phillips v. Martin Marietta Corporation* (1971), which ruled that an employer cannot hire men with young children while maintaining a policy to prohibit hiring women with young children.⁸ Title VII was strengthened further by the amendments in the Equal Employment Opportunity Act of 1972, which gave the EEOC the authority to pursue independent lawsuits and expanded the Act's coverage of individuals employed by the government and smaller firms (P.L. 92-261).

Overall, the historical record provides a mixed picture of the success of the Equal Pay Act and Title VII in addressing labor-market discrimination against women in the 1960s. While the Equal Pay Act's provisions were seriously enforced starting in 1964 and extended through state legislation, the law's effects were likely limited by "equal work" requirements, which failed to address pay discrimination arising from differential hiring, assignment, and promotion of men and women. Title VII's provisions were broader, but

⁸ Following *Marietta*, considerable ambiguity about sex discrimination remained. For instance, the U.S. Supreme Court in *General Electric Co. v. Gilbert* (1976) held that Title VII did not guarantee pregnant women equal coverage under employee benefit plans covering non-occupational sickness and accidents, which Congress remedied with the Pregnancy Discrimination Act of 1978 (Posner 1989).

the EEOC's reluctance to enforce the law's sex provisions and the EEOC's limited enforcement authority likely curbed the statute's effectiveness until the 1970s. Consistent with this history, research on the implications of Title VII for sex discrimination focuses on this later period (Beller 1979, 1982a, b).

II. Data and Research Design 1: Variation in the Incidence of Anti-Discrimination Legislation due to State Equal Pay Laws

Our analysis complements these historical accounts by quantifying the effect of the Equal Pay Act and Title VII on women's wages and employment. We combine the one-percent sample of the 1950 Decennial Census, the five-percent sample of the 1960 Decennial Census, and the 1962 to 1975 CPS ASEC to document labor-market outcomes for non-agricultural wage earners ages 25 to 64 in nationally representative data (Ruggles et al. 2023, Ruggles et al. 2021). Some analyses also use the combined one-percent Form 1 and Form 2 state samples of the 1970 Decennial Census, as well as the full count 1940 Decennial Census (Ruggles et al. 2021).

A. Data Processing and Sample Restrictions

Our sample focuses on prime-age wage earners and excludes individuals under age 25 who may not have completed their schooling. To increase consistency between the ASEC and censuses, we restrict the censuses to individuals not in the Armed Forces or institutionalized. We additionally require that observations have non-missing data for industry, occupation, and state group of residence, which are critical for our empirical strategy. Our analysis uses nine industries (n), eight occupations (o), and 21 state groups (s). We exclude individuals working in agriculture by dropping individuals with the occupation of "farmer" or "farm laborer" or the industry of "agriculture, forestry, and fishing." We also exclude individuals if they report being self-employed in the survey reference week or if the ratio of their self-employment and farm income to labor income exceeds 10 percent in absolute value (Lemieux 2006).

We convert annual wage earnings into 2022 dollars using the CPI-U. The census and ASEC ask

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⁹ The nine industries are mining, construction, manufacturing, transport/communications/electric/gas/sanitary services, wholesale trade, retail trade, finance/insurance/real estate, services, and public administration. The eight occupations are professional/technical, managers/officials/proprietors, clerical, sales, craftsmen, operatives, service, and non-farm laborers. The public ASEC only identifies 21 state groups consistently in our period of interest, which dictates our use of 21 "state groups."

about annual earnings and weeks worked in the year before the survey, so we index wages and employment to the appropriate year (e.g., the 1965 ASEC provides information about wages and employment in 1964). We construct log weekly wages by subtracting from log annual wage earnings the mean log number of weeks worked within each reported interval.¹⁰ Because weekly wage earnings are measured with error due to (1) the aggregation of weeks worked into intervals and (2) misreporting by respondents about wage earnings and weeks worked, we evaluate the sensitivity of our results to using annual earnings and hourly wage earnings (see Appendix A) and to winsorizing the lowest ten percentiles (see Appendix B).

Figure 3 describes the evolution of mean log weekly wages in states with and without pre-existing equal pay laws for both women and men. Several features of these plots stand out. First, weekly wages show a dip in the early 1960s relative to the 1960 Census, which likely reflects changes in the CPS sampling frame between 1961 and 1963. The dip in weekly wages is slightly larger for women and in states without equal pay laws, which should be kept in mind when interpreting our estimates. Second, states without equal pay laws tended to have lower average weekly wage earnings, which is not surprising given that the standards of living were lower in the South and western Midwest, which were less likely to have equal pay laws (Figure 2). Third, women's wages in states without pre-existing equal pay laws converge on those of women in states with equal pay laws after the mid-1960s—a pattern less evident among men.

B. Research Design 1: Pre-existing State Equal Pay Laws

Our first research design posits that anti-discrimination legislation should have larger effects in areas with more sex discrimination. Motivated by Neumark and Stock (2006), we test whether women's wages grew more quickly after 1964 in the 28 states that did not have pre-existing equal pay laws. This would be the case if state equal pay laws had already somewhat lowered sex discrimination, so that federal

the 1962-1979 ASEC by sex, race, and 10-year age bin.

¹⁰ The 1960 Census and 1962-1975 ASEC report weeks worked last year in categories (1-13, 14-26, 27-39, 40-47, 48-49, and 50-52 weeks), whereas the 1976-1979 ASEC report weeks worked in integers. We use the 1976-1979 ASEC to estimate the mean log number of weeks worked within each category in the 1962-1975 ASEC by sex, race, and 10-year age bin. Similarly, the 1960 Census reports hours worked in categories. For this year, we use the mean log hours worked within each category estimated from

¹¹ Changes to the sampling frame reflect changes in the population size and distribution as well as the industrial mix between areas as revealed in the 1960 Census. Interested readers may find a history of the CPS here, https://www2.census.gov/programs-surveys/cps/methodology/Techincal%20paper%2066%20chapter%202%20history.pdf (accessed December 30, 2021).

anti-discrimination legislation would have smaller effects in these states.

Event-Study Specification

We estimate the following event-study specification using ordinary least squares:

$$Y_{it} = \sum_{\tau=1949, \tau \neq 1964}^{1974} \alpha_{\tau} D_{\tau} NoEPL_{s(i)} + X'_{it} \beta + \gamma_{n(i)o(i)s(i)} + \delta_{s(i)b(i)} + \delta_{n(i)t} + \delta_{o(i)t} + \varepsilon_{it}.$$
 (1)

The outcome, Y_{it} , is log weekly wage earnings of individual i in calendar year t=1949, 1959, 1961-1974. The independent variable of interest, $NoEPL_s$, is equal to 1 if a state group did not have an equal pay law as of January 1, 1963. In the three state groups containing states with and without equal pay laws, we use the share of workers residing in states without an equal pay law rather than a 0/1 coding. We identify whether states had an equal pay law using statutory coding from U.S. Congress (1963), which agrees with Neumark and Stock (2006, Table 2). Note that $NoEPL_s$ does not vary across time—it captures a state's legal environment as of 1963.

We interact $NoEPL_s$ with a set of year indicator variables, D_{τ} , omitting 1964—the year the Equal Pay Act took effect. Our parameter of interest, α_{τ} , captures the combined effects of the Equal Pay Act and Title VII on women's wages. If (1) sex discrimination in pay was larger in 1963 in states without state-level equal pay legislation and (2) national anti-discrimination legislation reduced sex discrimination in pay, we expect that $\alpha_{\tau} > 0$ for $\tau > 1964$. If the parallel trends assumption holds and states without equal pay laws were trending similarly before the Equal Pay Act and Title VII took effect, then we expect $\alpha_{\tau} = 0$ for $\tau < 1964$. To the extent that the federal legislation affected discrimination in states with pre-existing equal pay laws, this approach will understate the legislation's effects on states without equal pay laws—a point we revisit with the second research design. Changes in state laws after 1964 that target labor market discrimination tended to bring states into accord with federal law, and we regard these changes as part of

existing equal pay law status.

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¹² We calculate the share of workers within a state group that live in a state without an equal pay law using the 1960 Census. In Arkansas-Louisiana-Oklahoma, 76 percent of wage earners were in a state without an equal pay law (Louisiana, Oklahoma). In Arizona-Colorado-Idaho-Montana-Nevada-New Mexico-Utah-Wyoming, 40 percent of wage earners were in a state without an equal pay law (Idaho, Nevada, New Mexico, Utah). In Maine-Massachusetts-New Hampshire-Rhode Island-Vermont, 5 percent of wage earners were in a state without an equal pay law (Vermont). Appendix Table 4 reports summary statistics by states' pre-

the treatment effect of the federal legislation.

We include additional covariates to account for changes in workforce composition and improve precision. The vector X_{it} includes log hours worked in the reference week, an indicator variable for nonwhite race, and a quadratic in the worker's age. Fixed effects for single-digit industry n by single-digit occupation o by state-group s, γ_{nos} , account for average differences in wages across job classifications and labor markets. While these fixed effects focus the analysis on within industry-occupation-state-group wage changes, these cells are broader than the within-firm jobs targeted by the Equal Pay Act. To the extent that men shifted to higher-paying jobs within industry-occupation-state-group cells, our results may understate the wage effects of the legislation within the same jobs. We view this as a feature: the research design recovers changes in women's pay net of these potentially offsetting shifts in employment as long as they occur within a single-digit industry-occupation-state group cell.

Although this specification cannot include state-by-year fixed effects to account for time-varying within-state changes in labor markets or policies (Chay 1998, Almond, Chay, and Greenstone 2003, Cascio et al. 2010, Bailey and Duquette 2014, Bailey and Goodman-Bacon 2015, Goodman-Bacon 2018), it can accommodate other flexible controls. In some specifications, we include state-group-by-birth-year (b) fixed effects, δ_{sb} , which flexibly account for cohort-level shifts in women's aspirations and skills (Goldin 2006a, b) as well as differential state-level changes in labor-market skills (including educational quantity and quality, potential labor-market experience, and other unobserved cohort characteristics). Industry-year and occupation-year fixed effects, δ_{nt} and δ_{ot} , capture unobserved, national changes that affect all workers in these groups.¹⁴

A triple-differences specification (DDD) accounts for gender neutral labor-demand or supply shocks by using men as an additional comparison group. To the extent that the Equal Pay Act and Title VII

¹³ The grouping of "nonwhite" is an aggregation necessitated by the data. Detailed race/ethnicity coding that would be used today is not consistently reported during the 1960s. Hispanic/Latinx origin is not available in the ASEC until 1971.

¹⁴ Educational attainment is available in all years except the 1963 ASEC. We omit this covariate from our main specifications to avoid dropping 1963 as a pre-treatment observation. Including education as a covariate changes the estimates very little (see Appendix Figures 5 and 13).

reduced men's wages (either as a means for firms to comply with the law or in response to general increases in the cost of labor), this specification may overstate the resulting gains in women's wages. On the other hand, this specification could understate the effect on women's wages if the legislation caused firms to increase men's responsibilities (and pay) to maintain pre-existing wage hierarchies. Consequently, this exercise provides a complementary characterization of labor-market adjustments, rather than a falsification test. This specification interacts all variables in equation (1) with an indicator variable for sex, which allows the relationship of all covariates and fixed effects to differ between men and women.

Employment Outcomes

Equation (1) cannot be estimated using employment as an outcome, because industry and occupation tend to be reported only for individuals who are employed. To test for the legislation's employment effects, we define the dependent variable as the log of the survey-weighted number of employees or annual hours worked in a sex-specific industry-occupation-state-group (nos) cell in year t, where annual hours worked is the survey-weighted sum of the number of weeks worked last year multiplied by the number of hours worked in the reference week.¹⁵ We estimate the following specification, which is similar to equation (1) with several modifications:

$$Y_{nost} = \sum_{\tau=1949, \tau\neq 1964}^{1974} \alpha_{\tau} D_{\tau} NoEPL_{s} + X'_{nost} \beta + \gamma_{nos} + \delta_{nt} + \delta_{ot} + \varepsilon_{nost}.$$

$$(2)$$

The first modification is that we replace the individual covariates with *nos* cell averages, including a quadratic in age and the share of workers that are nonwhite (we omit hours worked). Second, we make two further adjustments to minimize the importance of small *nos* cells. We limit the employment regressions to *nos* cells that have at least one wage earner in each of our years of interest and weight by the product of each cell's share of observations in the 1960 Census and the total number of observations in each survey year. These two adjustments maintain the representation of different cells over time and account for year-to-year changes in census and ASEC sample sizes. This approach places higher weight on cells which have

¹⁵ We first construct annual hours worked for individuals by multiplying the *level* of weeks worked by hours worked, where the level is calculated using the procedure described in footnote 10. Then, we aggregate to the *nos* cell.

more observations in 1960 or come from survey years with larger total sample sizes, which reduces the influence of small, noisy cells (Solon, Haider, and Wooldridge 2015). The weight does not depend on the number of industry-occupation-state observations in each survey year, as this would generate weights that reflect shifts in employment which might be driven by the legislation.

Spline Specification

Although the event-study specification provides a highly flexible and transparent description of the data, the estimates for individual years are often noisy. We, therefore, complement the event-study with a three-part spline specification with knots in 1964 and 1968, which summarizes the event-study estimates and improves precision. Using log weekly wage earnings as an outcome, the spline specification is,

$$Y_{it} = \widetilde{\alpha_0} NoEPL_{s(i)}t + \widetilde{\alpha_1} 1(t > 1964) NoEPL_{s(i)}t + \widetilde{\alpha_2} 1(t > 1968) NoEPL_{s(i)}t$$

$$+ X'_{it}\widetilde{\beta} + \widetilde{\gamma}_{n(i)o(i)s(i)} + \widetilde{\delta}_{s(i)b(i)} + \widetilde{\delta}_{n(i)t} + \widetilde{\delta}_{o(i)t} + \widetilde{\varepsilon}_{it}.$$

$$(3)$$

The first three terms interact linear time trends, t, with the $NoEPL_S$ variable as well as with indicator variables for the post-1964 and post-1968 period. Thus, the spline succinctly summarizes trends in the data without placing too much emphasis on one (potentially noisy) point estimate or year. The remaining covariates correspond to those defined in equation (1). The spline provides a parsimonious method to test and, if necessary, adjust for pre-trends, as captured in $\widetilde{\alpha_0}$. The coefficient, $\widetilde{\alpha_1}$, and corresponding standard error also admit a formal test for a trend break in outcomes after 1964, when the federal legislation first took effect. The coefficient, $\widetilde{\alpha_2}$, allows the effects of the legislation to differ in the longer (1969-onwards) and the shorter terms (1965-1968). Specifications for employment outcomes are analogous but estimated at the aggregated *nos* level as previously described.

Standard Error Calculations

In all regressions for research design 1, we cluster standard errors to correct for heteroskedasticity and account for an arbitrary covariance structure at the state-group level (Huber 1967, White 1980, Arellano

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¹⁶ Note that the terms, $\widetilde{\alpha_3}t + \widetilde{\alpha_4}1(t > 1964)t + \widetilde{\alpha_5}1(t > 1968)t$, are not identified due to the inclusion of year fixed effects.

¹⁷ For a discussion of pre-trend adjustments, see Freyaldenhoven, Hansen, and Shapiro (2019) and Rambachan and Roth (2022).

1987, Bertrand, Duflo, and Mullainathan 2004). Because we only have 21 state groups, our tables also report *p*-values for tests of two null hypotheses, $\widetilde{\alpha_0} = 0$ and $\widetilde{\alpha_1} = 0$, from a wild cluster bootstrap procedure with 499 replications (Cameron, Gelbach, and Miller 2008).

III. Results: Using Pre-Existing State Equal Pay Laws to Quantify the Effects of the Federal Anti-Discrimination Legislation on Labor-Market Outcomes

Figure 4 presents event-study estimates for three different specifications: one that includes only industry-occupation-state-group fixed effects, year fixed effects, and demographic controls (model 1), one that adds industry-year and occupation-year fixed effects to model 1 (model 2), and one that adds state-group-by-year-of-birth fixed effects to model 2 (model 3). The estimates are highly robust to additional controls. The three models show that wages grew more slowly for women in states without equal pay laws between 1949 and 1963 relative to states with equal pay laws, but this pattern reversed after 1964. The event-study coefficients in Figure 4A show that women's wages in states without equal pay laws rose by 7.3 log points (s.e. 1.9) more than in other states between 1964 to 1965, followed by more gradual gains through the late 1960s.¹⁸

The timing of effects helps alleviate concerns that our results are driven by several other factors, such as the differential effects of the 1961 FLSA amendments, which raised the minimum wage and increased coverage (Bailey, DiNardo, and Stuart 2021), 19 and the adoption of Executive Order 11375, which

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¹⁸ This estimate is the event-study coefficient on the year 1965 for the model 2 specification (Appendix Table 5). Appendix Figure 2 shows that results are similar when examining log hourly or annual wages instead of log weekly wages, which addresses the concern that our results might be driven by measurement error in the weeks or hours worked variables. We construct log hourly wages as log annual wages minus the sum of log weeks worked and log hours worked, using the procedure described in footnote 10 to calculate mean log weeks and hours within categories when necessary. In addition, Appendix Figure 3 shows the robustness of our findings to winsorizing up to the tenth percentile of the 1960-1964 wage distribution for women, which is equivalent to around one-half of the 1964 minimum wage, which covered fewer workers and was higher relative to more recent periods. One-half the minimum wage is similar to Katz and Murphy (1992) and more aggressive than Blau and Kahn (2017), whose average "too-low-wage" is 29 percent of the federal minimum wage. Appendix Figure 4 shows that our results are similar when limiting to a sample of more attached workers, Appendix Figure 5 shows that our estimates are robust to controlling for education, and Appendix Figure 6 provides a similar conclusion when dropping states that adopted equal pay laws between 1959 and 1962.

The 1961 FLSA raised the minimum wage for previously covered workers from \$1 to \$1.15 an hour effective in September 1961 and \$1.25 per hour in September 1963. If our estimates capture the fact that women were disproportionately affected by the 1961 FLSA's minimum wage hikes, we expect to see gains in their wages in 1962 and 1964. Instead, Figure 4A shows gains in 1965, which occurred in the aftermath of the Equal Pay Act's implementation. In addition, the 1961 FLSA extended coverage to around 663,000 workers who were paid less than the minimum wage and worked primarily in large retail enterprises and construction (Martin 1967). For previously uncovered workers, a minimum wage of \$1 per hour was implemented in September 1961, raised to \$1.15 per hour in September 1964, and again raised to \$1.25 per hour in September of 1965. If our empirical strategy is capturing

prohibited sex-based discrimination by the federal government after November 1967 and federal contractors after October 1968. The timing of these effects also alleviates concerns that our results are driven by the 1966 Amendments to the FLSA (effective in 1967), which increased the minimum wage and expanded its coverage, or 1967 revisions to the ASEC sampling frame and definition of employment: the estimates show little change between 1966 and 1967.

Our three-part linear spline specification averages across small ASEC samples (and noisy estimates) in the early 1960s, which Table 1A presents and Figure 4 plots for our preferred model. The event-study estimate for 1968 (Appendix Table 5) is almost identical to the spline estimate of 8.7 log points (s.e. 2.1, Table 1A, column 1). The spline also admits a formal pre-trend test, which shows no differential change in women's wages (column 1). Finally, the spline estimates confirm a statistically significant, positive trend-break in women's wages after 1964 in states without equal pay laws (2.2 log points, s.e. 0.5).

These estimates do not include changes after 1968, which are also noteworthy although more tenuously related to the 1964 implementation of the Equal Pay Act and 1965 implementation of Title VII of the Civil Rights Act. The event-study estimates show a slight increase in women's wages around 1972, which corresponds to changes in the coverage and enforcement of anti-discrimination legislation. For example, Title IX of the 1972 Educational Amendments amended the Equal Pay Act to include executive, administrative, and professional workers (who were initially excluded from the federal law's coverage as an amendment to the FLSA). The EEOC's active enforcement of Title VII's sex provisions increased in earnest after the U.S. Supreme Court's first decision in *Phillips v. Martin Marietta Corporation* (1971), which ruled that an employer cannot hire men with young children while maintaining a policy to prohibit

the fact that women's wages were disproportionately affected by the FLSA's expansion in coverage, one would expect to see gains in their wages in each of the three years when the minimum wage for this group was raised: 1962, 1965, and 1966. Instead, Figure 4A shows only one large increase in their wages in 1965, which occurred in the aftermath of the Equal Pay Act's implementation. In addition, the estimated wage increases are nearly identical when excluding individuals employed in retail trade and construction (Appendix Figure 7), the industries which experienced the largest expansion in coverage under the 1961 FLSA (Martin 1967). Moreover, if increases in the minimum wage or FLSA coverage are driving these findings, we would expect to find some increases for men's wages in the years of these changes. The estimates, however, show little evidence of a trend-break in men's wages in 1965 overall or below the median (Appendix Figure 8). Regarding the role of the 1966 FLSA, Bailey, DiNardo, and Stuart (2021) and Derenoncourt and Montialoux (2021) find effects of the legislation in 1967 after it was implemented. However, Figure 4A shows striking wage gains for women in 1965 before this legislation took effect and little change in 1967. In summary, the evidence is inconsistent with the 1961 or 1966 FLSA driving the results.

hiring women with young children. The amendments to the Equal Employment Opportunity Act in 1972 also gave the EEOC the authority to pursue independent lawsuits and expanded Title VII coverage of individuals employed by the government and smaller firms (P.L. 92-261).

The absence of similar changes in men's wages helps rule out the hypothesis that broad changes in labor markets or policies—rather than federal anti-discrimination legislation—are driving these results. Using the same specification and men's wages as the dependent variable, we find some evidence of gains in men's wages in states without equal pay laws after the mid-1960s (consistent with Figure 3B). However, gains in men's wages are entirely absent between 1964 and 1965 when the effects for women are largest. Figure 4B shows that men's wages in states without equal pay laws rose slightly *before* the legislation took effect (in 1963), failed to grow between 1964-1965 after the anti-discrimination legislation was implemented, and increased slightly in 1967 following the implementation of the 1966 FLSA amendments. Highlighting the benefits of event-study analyses, these mistimed effects show up in the spline estimates as a positive trend-break for men after 1964 (Table 1A, column 2), but with a magnitude about half as large as for women. For completeness, we report estimates from a triple-differences specification that uses men as an additional comparison group. However, the pre-treatment gains for men in the event-study suggest that this approach may understate women's wage gains.

The lack of wage changes among men also helps rule out that the Civil Rights Act's provisions to combat racial discrimination are driving these results (Heckman and Payner 1989, Donohue and Heckman 1991). While Southern states were less likely to have pre-existing equal pay laws, an obvious counterpoint is that the timing of women's wage gains, which occur between 1964 and 1965 (Figure 4A), largely predate the Civil Rights Act, which took effect in July of 1965, and are absent among men (Figure 4B), who show no wage gains between 1965 and 1966. It seems unlikely that the Civil Rights Act's race provisions would have such large effects between July and December 1965 but smaller effects in the subsequent years, when the legislation was in place for the full 12 months covered in the ASEC earnings question. A third piece of evidence is that the estimates are not statistically different for White women (8.4, s.e. 2.0) and Black women (8.5, s.e. 5.1) (Appendix Table 6, columns 3 and 4).

Altogether, the results suggest that the Equal Pay Act and Title VII boosted wages of working women—a group accounting for roughly one third of the U.S. labor force in 1960. If labor markets were perfectly competitive and women were being paid their marginal product, differentials in pay would arise due to differences in men and women's skills. Consequently, mandating equal pay would encourage firms to lay women off, reduce their hours, and hire more men. However, if women's labor-supply to a firm is not perfectly elastic, firms might counterintuitively respond to the equal pay act by *increasing* the employment of women in response to higher mandated wages for them (Manning 1996).

Figure 5 describes the evolution of the log of the number of employees and the log of annual hours worked by states' equal pay law status. The time series show different pre-trends in both outcomes for both sexes, as employment in states without equal pay laws caught up with the rest of the country. The event-study estimates in Figure 6 formalize these comparisons and also adjust for covariates, which also illustrates a violation of the parallel-trends assumption necessary for valid inference using a standard differences-in-differences estimator. (A differences-in-differences estimator would attribute the increase in the average difference in employment after 1964 to federal anti-discrimination policy, even though it is driven by a positive pre-trend, which is why we favor the spline in this context). Consistent with the visual impression in Figure 6, we find no trend-break after 1964 in women's employment or hours worked relative or relative to these outcomes for men, suggesting the legislation had little effect on women's employment at the extensive or intensive margins (Table 1, panels B and C).

In summary, these findings suggest that the Equal Pay Act and Title VII increased women's wages rapidly. To put these effect sizes in perspective, our preferred wage estimate from column 1 of Table 1 (8.7 log points) is just over half of the average within-occupation weekly wage gap (17 log points) in the 1963 OWS (Appendix Table 3, column 3). There is little evidence from this first empirical strategy of a decline in women's employment, which is consistent with Manning's (1996) findings of labor-market monopsony for women in the U.K. As state-level variation in pre-existing equal pay laws limits our ability to rule out alternative hypotheses, we use a second and complementary research design to narrow the scope for omitted variables.

IV. Research Design 2: Variation in the Incidence of Anti-Discrimination Legislation using the 1960 Gender Pay Gap

Our second research design also hypothesizes that the Equal Pay Act and Title VII—if effective—should have larger effects after 1964 in jobs with more pre-existing sex discrimination. Under the assumption that a larger 1960 gender gap in pay is correlated with more sex discrimination, we expect larger relative wage gains after 1964 for women in jobs with larger gender gaps. An additional benefit of this approach is that it allows us to account for state-level shifts in labor demand or supply, policies, and economic conditions, which could confound the state equal pay law design.

A. The 1960 Gender Gap as a Proxy for Labor-Market Discrimination

We do not observe jobs or establishments in the censuses or ASEC, but we compute the gender gap in single-digit industry (n), occupation (o), and state group (s) "job cells." We rely on the 1960 Census (rather than the 1964 ASEC), because the census offers a much larger sample size which yields more reliable gender wage gap estimates for a larger number of industry-occupation-state-group cells and mitigates concerns about mean reversion.²⁰ Nine single-digit industries, eight single-digit occupations, and 21 state groups yield 1,512 potential job cells. We exclude from our analysis 562 cells that have fewer than ten women or ten men working full-time in the 1960 Census and eight that have no observations in the ASEC during our period of interest.²¹ Our final sample consists of 942 industry-occupation-state-group job cells. For each job cell, we construct the unconditional gender wage gap in mean log hourly wages using the 1960 Census, $\widehat{Gap}_{nos} = logW_{nos}^m - logW_{nos}^w$, where m denotes men and m women, and the variable describes the extent to which men out-earn women.²²

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²⁰ The 1960 Census has over 600,000 women in the wage earner sample, whereas the 1964 ASEC has around 6,000 such women, allowing us to construct only 75 job cells. If a high gender gap (due to lower women's wages) in a job cell in the 1964 ASEC reflects sampling variation, these job cells would tend to see higher wage growth for women in the year afterwards due to mean reversion. Using the 1960 Census to measure the gender wage gap eliminates this mechanical relationship.

²¹ Included job cells are listed in Appendix Table 8 and excluded job cells are listed in Appendix Table 9. Appendix Table 10 describes the number of observations by sex, year, occupation, and industry.

We use the sample of full-time workers to calculate the gender wage gap. The gender wage gap is nearly identical when we control for individuals' demographic and education characteristics using a quadratic in age, an indicator for workers of a nonwhite race, and a set of indicators for each year of schooling. The correlation between the unadjusted gender gap and the covariate-adjusted gender gap is 0.97 (Appendix Figure 9A), so we use the unadjusted gender gap for simplicity. Appendix Figure 9B shows that the gender gap in hourly wages is very similar to the gender gap in weekly wages (correlation of 0.98), and Appendix Figure 9C shows that the gender gap in weekly wages is nearly identical after controlling for demographics and hours worked (correlation of 0.97).

B. Descriptive Evidence that Federal Legislation Was More Effective in Jobs with Larger 1960 Gender Gaps

A key assumption of our approach is that a larger gender gap in wages in 1960 is correlated with greater sex discrimination. It is difficult to verify this assumption directly. However, if this assumption does not hold or the federal legislation was ineffective, we should find no association between the 1960 gender gap and subsequent growth in women's wages. We begin by presenting descriptive evidence from the 1960 and 1970 Censuses regarding the association between the gender gap, \widehat{Gap}_{nos} , women's wages, and their representation in different job cells. Figure 7A shows that the share of employees that are women differs considerably across industries and occupations, but there is little relationship between the female employment share in a job cell and the 1960 gender gap. On the other hand, Figure 7B shows that the gender gap tends to be much larger in lower paying job cells, many of which were in services and retail sales (slope coefficient: -1.9, s.e. 0.2). (Of course, this relationship is not causal and could reflect some selection of women with more skill into better paying jobs, and vice versa.) Reassuringly, these findings hold when accounting for sampling variation using a split sample instrumental variables (IV) approach (slope coefficient: -1.9, s.e. 0.2; Inoue and Solon 2010), or when accounting for transitory wage shocks using the 1940 gender wage gap as an IV (slope coefficient: -2.0, s.e. 0.2). 23 Of course, this relationship is not causal and could reflect some selection of women with more skill into better paying jobs, and vice versa.

To motivate our research design, Figure 8A plots the change in women's relative wages over the 1960s against the 1960 gender gap in wages. Each point represents the difference in outcomes between women and men for an industry-occupation-state-group cell, and the size of each point represents the number of women working in the cell in 1960. Consistent with the Equal Pay Act and Title VII ameliorating pay discrimination and increasing women's relative wages, we find that women's wages grew more than men's during the 1960s in job cells with larger gender gaps at the start of the decade. The similarity of the results when using the split sample IV (slope coefficient: 0.35, s.e. 0.04) or 1940 gender gap IV (slope coefficient: 0.42, s.e. 0.04) provides reassurance that these patterns are not driven by mean reversion due

²³ We use the full-count 1940 Decennial Census to compute the gender gap in wages (Ruggles et al. 2021).

to measurement error or real transitory shocks to the labor market. Moreover, Figure 8D shows that this relationship did not exist in the 1950s, before federal anti-discrimination legislation should have affected sex discrimination in pay. In the 1960s, women's employment and annual hours grew more slowly than men's in job cells where women's relative wages grew more quickly (Figures 8B-8C). As with wages, these patterns depart from the 1950s, where the gender gap was not predictive of changes in employment (Figures 8E-8F).

C. Event-Study and Spline Specifications

We use the following event-study specification to test whether these changes align with the passage of the Equal Pay Act and Title VII:

$$Y_{it} = \sum_{\tau=1949, \tau \neq 1964}^{1974} \theta_{\tau} D_{\tau} \widehat{Gap}_{n(i)o(i)s(i)} + X'_{it} \beta + \gamma_{n(i)o(i)s(i)} + \delta_{s(i)t} + \delta_{n(i)t} + \delta_{o(i)t} + \varepsilon_{it}.$$
(4)

The dependent variable, Y_{it} , is log weekly wages of individual i in calendar year t=1949, 1959, 1961-1974, and \widehat{Gap}_{nos} is as defined previously. We interact \widehat{Gap}_{nos} with a set of year indicator variables, D_{τ} , and omit 1964, the year the Equal Pay Act became effective in June. Because \widehat{Gap}_{nos} varies within state groups, the addition of state-group-by-year fixed effects, δ_{st} , allows the analysis to account for unobserved state-level changes in labor markets and policies. The remaining notation remains as described previously. Specifications for employment outcomes are analogous to equation (2) but replace $NoEPL_s$ with \widehat{Gap}_{nos} on the right side in equation (4) and add state-group-by-year fixed effects. Standard errors are corrected for heteroskedasticity and arbitrary correlation within industry-occupation-state-group cells (Huber 1967, White 1980, Arellano 1987).²⁴

Our parameters of interest, θ_{τ} , capture changes across time in the correlation of women's wages with the gender pay gap in 1960. If federal legislation reduced labor-market discrimination against women, we expect women's wages to increase more after 1964 in job cells with a larger gender gap (i.e., $\theta_{\tau} > 0$ for

Appendix C uses a combination of a parametric bootstrap and a Bayesian bootstrap to show that accounting for sampling variability in estimates of the gender gap variable leads to standard errors that are very similar to those reported in the main tables.

 $\tau > 1964$). Testing for changes in this correlation before 1964 also helps rule out potential confounders and assess the validity of the parallel-trends assumption. For instance, if women's productivity and work intensity were increasing differentially in jobs with larger gender gaps pre-dating the legislation, we would expect θ_{τ} to increase in years prior to 1964, leading us to reject the parallel trends assumption.

We summarize the event-study estimates using a three-part spline, or

$$Y_{it} = \widetilde{\theta_0} \widehat{Gap}_{n(i)o(i)s(i)} t + \widetilde{\theta_1} 1(t > 1964) \widehat{Gap}_{n(i)o(i)s(i)} t + \widetilde{\theta_2} 1(t > 1968) \widehat{Gap}_{n(i)o(i)s(i)} t$$

$$+ X'_{it} \widetilde{\beta} + \widetilde{\gamma}_{n(i)o(i)s(i)} + \widetilde{\delta}_{s(i)t} + \widetilde{\delta}_{n(i)t} + \widetilde{\delta}_{o(i)t} + \widetilde{\varepsilon}_{it},$$

$$(5)$$

where notation remains as previously defined.

V. Results: Using the 1960 Gender Gap in Wages to Quantify the Effects of the Federal Anti-Discrimination Legislation on Labor-Market Outcomes

Figure 9A presents the event-study results for women, and Table 2A summarizes the event-study estimates using the spline. Point estimates and confidence intervals are scaled by the mean gender gap in the 1960 Census (equal to 0.374).²⁵ Model 1 includes demographic covariates and industry-occupation-state-group and year fixed effects. Model 2 adds state-group-by-year fixed effects to model 1, and model 3 adds industry-year and occupation-year fixed effects to model 2.

Consistent with the Equal Pay Act and Title VII reducing labor-market discrimination against women, the data show that women's weekly wages increased by 10 log points (s.e. 2.3) between 1964 and 1968 in job cells with the average 1960 gender gap in pay (Table 2A, column 1). The magnitude of this estimate is equivalent to 58 percent of the average within-occupation weekly wage gap in the 1963 OWS (Appendix Table 3, column 3). Wages rise almost immediately following the legislation and remain stable between 1967 and 1970. Although changes in women's wages are not correlated with the gender gap after the implementation of the 1966 FLSA in 1967, the correlation again increases between 1970 and 1973. This timing is reminiscent of similar patterns in our first research design and corresponds to the Education Amendments broadening the coverage of the Equal Pay Act and the Supreme Court's 1971 decision and

²⁵ See Appendix Table 11 for the event-study coefficients and standard errors in numerical form.

the Equal Employment Opportunity Act of 1972 strengthening and expanding the legal basis for enforcing Title VII's sex provisions.

These estimates are not only robust across specifications, they are also robust to using annual or hourly wage earnings (Appendix Figure 10), winsorizing low wage levels (Appendix Figure 11), limiting the sample to more attached workers (Appendix Figure 12), controlling for education (Appendix Figure 13), accounting for measurement error or mean reversion following transitory labor-market changes in the 1950s or early 1960s (Appendix Figure 14), excluding industries that saw substantial increases in minimum wage coverage under the 1961 FLSA (Appendix Figure 15), and including state-by-birth-cohort fixed effects (Appendix Figure 16). In contrast, we find no evidence of wage gains for men (Figure 9B; Table 2A, column 2), which narrows the scope for alternative labor-market or policy explanations. Recent work on differences-in-differences estimators highlights difficulties in interpreting the magnitudes of event-study regressions with a continuous treatment variable and treatment-effect heterogeneity, even in settings like ours without a staggered treatment timing (Callaway, Goodman-Bacon, and Sant'Anna 2022). Considering this issue, evidence of limited treatment effect heterogeneity for *nos* cells with average wages above and below the *nos*-cell median is reassuring (Appendix Figure 17).

We also explore the heterogeneity in women's wage gains to shed light on the mechanisms for these effects. Following Firpo, Fortin, and Lemieux (2009), we estimate RIF regressions to understand the effects of federal anti-discrimination legislation on the unconditional percentiles of women's log weekly wages. Figure 10A shows results, which are scaled by the mean gender gap in the 1960 Census. We find large increases in women's wages at the 10th and 25th percentiles after the legislation took effect (31 and 18 log points in 1968, respectively; Appendix Table 12), which is consistent with the legislation benefiting the lowest-earning women, for whom the gender gap in wages was largest (Figure 7B) and for whom convergence in the gender gap was the most rapid in the 1960s (Figure 1B). RIF-regressions using only the 1950, 1960, and 1970 Decennial Censuses yield similar results (displayed as single points), which ameliorates concerns that the estimates are driven by revisions in the ASEC sampling frame. In contrast, percentiles above the median show little evidence of a trend break after 1964 or any change through the

1970s. The same specification for men's wages shows little change at any point in the distribution (Figure 10B), which mitigates concerns that the results are driven by broad labor-market trends or policies. These findings suggest that the federal anti-discrimination legislation reduced the gender wage gap and also the wage gap in earnings between the highest and lowest paid women.²⁶

As a final check on the validity of the results, we bring both research designs together to examine whether women's relative wages changed differently after 1964 in jobs with a higher gender pay gap in states without a pre-existing equal pay law. If state equal pay laws were somewhat effective in reducing sex discrimination, we expect women's wages to increase by more in job cells that had the same 1960 gender wage gap in states without pre-existing equal pay laws relative to states with equal pay laws. Said another way, effective prior legislation implies that the correlation of the same gender gap in pay in 1960 with sex discrimination should be weaker. Columns 4-5 of Table 2 confirm this prediction. In the 22 states with pre-existing equal pay laws, we find women's relative wages grew by 6.0 log points at the mean gender gap (s.e. 3.9, column 4). This finding is consistent with the legislation having a meaningful effect in states with pre-existing equal pay laws and the first research design understating the effects of the legislation in states without pre-existing equal pay laws. In states without equal pay laws, we find women's relative wages grew by much more after 1964—an increase of 16.2 log points by 1968 (s.e. 3.4, column 5). Altogether, this evidence suggests an important role for anti-discrimination legislation—at the state level and then at the federal level—in reducing the gender gap in wages.

In light of these large wage gains for women, how did the legislation affect their employment?

Some direct evidence on this question comes from reports around the time the Equal Pay Act was passed.

On June 14, 1964, the *Washington Post* interviewed different employers and reported:

...the head of a new Virginia manufacturing plant put it: "We had planned to employ women in some of our light manufacturing jobs, but we decided against it because of anticipated complications arising from the equal pay law." An Ohio manufacturer said his plant would downgrade some job classifications for women and reassign higher-level,

⁶

²⁶ Appendix Table 13 examines effect heterogeneity across other population subgroups. The results show that the within-job cell wage gains for women following the Equal Pay Act and Title VII were pervasive. Wage increases are evident for White workers, which addresses the concern that our results are driven by provisions in the Civil Rights Act targeting racial discrimination.

higher-paying duties to men....

Many employers said they would hike women's wages to bring them into line with men's. Some firms said they would equalize salaries now, but in the future would segregate male and female job classifications.

Although Title VII would make this type of behavior illegal the following year, honest reporting before it passed provides important context. Notably, no employer said they would fire women in response to the Equal Pay Act—which is consistent with our findings when examining employment responses using state equal pay laws. However, employers indicated that they planned to change job classifications and hiring, which could show up as industry-occupation level changes in women's employment in the longer term.

Figure 11 tests this prediction using the event-study and spline specifications.²⁷ In 1966, when women's wages soared in jobs with higher 1960 gender gaps, the number of female or male employees or annual hours worked changed little. Although Table 2 reveals a larger trend-break after 1964 for women than men, which translates into a reduction in employment of 11.8 log points by 1968 at the mean (s.e. 4.7, column 1) for women versus a 6.2-log-point decline for men (s.e. 2.9, column 2), the difference between the two groups is not statistically significant (column 3). The decline in women's employment in states without pre-existing equal pay laws is larger (where women's wages grew more quickly), but neither estimate is statistically significant at conventional levels. In these states, the number of female employees relative to male employees experienced a sizable and marginally statistically significant decline of 11.2 log points (s.e. 6.9, column 5), although their relative number of annual hours did not fall discernibly.²⁸ In contrast, in states with pre-existing equal pay laws where wages grew by less than one-third the amount by 1968, the trend break in employment and annual hours worked was much smaller and statistically insignificant.²⁹

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²⁷See Appendix Table 14 for the event-study coefficients and standard errors in numerical form.

²⁸The p-values on the test of the null hypothesis that estimates in columns 4 and 5 of Table 2 are equal are 0.20 in panel A (wages), 0.07 in panel B (employment), and 0.19 in panel C (annual hours worked).

Appendix Table 13 shows that the employment effects of the Equal Pay Act and Title VII are large but imprecise across subgroups. Employment fell by 5.0 log points (s.e. 5.0, panel B, column 3) at the mean gender gap for White women. For Black women, the point estimate implies a decline in employment of 75 log points, but the standard error is very large (32 log points), leaving considerable uncertainty about the true effect. Employment among women with less than 12 years of education also experienced a large decrease with a large standard error.

In summary, this evidence strongly suggests that the Equal Pay Act and Title VII lifted the wages of working women with some evidence that their employment fell in the longer term. Similar to what was reported in the *Washington Post*, different employers likely varied in their response to the legislation, which is difficult to detect without more information on jobs and establishments.

VI. How the Equal Pay Act and Title VII Affected the Gender Gap in Wages

Almost 60 years after the Equal Pay Act and Title VII passed, little quantitative work suggests this legislation reduced pervasive pay discrimination against women in the 1960s. Studies have noted the roles of Title VII and federal affirmative action mandates under Executive Order 11375 in facilitating women's wage and employment gains and increasing their enrollment in colleges and professional schools in the 1970s and later (Beller 1979, 1982a, b, Leonard 1984, Carrington, McCue, and Pierce 2000, Kurtulus 2012, Blau and Kahn 2017, Helgerman 2023). This paper provides new evidence that federal anti-discrimination legislation—especially the Equal Pay Act—had direct and larger effects on sex discrimination in the 1960s than previously understood.

Using two complementary research designs, we find that federal legislation prohibiting sex-based pay and employment discrimination led to large increases in women's wages, especially in lower-paying jobs where the "equality of work" was more easily measured and federal investigations of compliance with the minimum wage were focused. After the legislation took effect, women's wages grew by around 11 percent in jobs with the average gender gap, with most of these effects benefitting women in the lower half of the weekly wage distribution. Importantly, anti-discrimination legislation appears to have had little effect on median wages among full-time, full-year workers, which has been the focal statistic released annually by the Census Bureau (Figure 1A). However, our estimates of larger gains among lower-wage workers in the mid-1960s correspond well to the gains below the median in the timeseries during this period (Figure 1B) (Bailey, Helgerman, and Stuart 2021). Consistent with firms having some monopsony power, the Equal Pay Act and Title VII had little effect on women's employment in the short run. In the longer-term, however, historical evidence suggests that some firms shifted their hiring away from women workers,

which tracks with contemporary reports and scholars' critiques of the legislation.

The stability of the gender earnings ratio at the mean and median during the 1960s masks two opposing trends—an observation that helps reconcile the magnitudes in this study with those in the aggregate time series in Figure 1. First, economic forces pre-dating the legislation put downward pressure on women's relative pay in the 1960s. After World War II, strong economic growth drove up wages, but it raised wages for men faster than for women. Trends pre-dating the 1960s imply that the gender wage ratio would have *fallen* rather than stabilizing in the absence of federal legislation. We are not the first to point this out. Beller (1979) argues that Equal Employment Opportunity laws staved off a larger 7-point increase in the earnings gap in the 1970s, and others, notably Blau and Kahn (2017), suggest that the increase in female labor-force participation during the 1960s may have masked the effects of the legislation in the aggregate time series.

Second, the estimates using the gender gap design reflect large changes in the *within-job* component of the gender gap, which is smaller than the overall gender gap. A Kitagawa-Blinder-Oaxaca decomposition shows that 69.7 percent of the 1960 gender gap in hourly earnings is attributable to differences within-industry-occupation-state-group cells used in our analysis.³⁰ Assuming the legislation had little effect on the allocation of workers across job cells, our estimate of a 10-log-point increase at the mean gender gap within job cells (Table 2) would translate into a 7.0 point gain in the aggregate gender gap.

Ignoring shifts in workers across jobs, these two countervailing changes imply a net gain of 5.2 log points at the mean (7.0 less 1.8 log points due to the pre-trend). But this change is still larger than observed in the timeseries, likely because changes in firm hiring and promotion behavior, selection, and larger shifts in the economy worked to offset women's wage gains within jobs.

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³⁰ We calculate this number as the sum over industry-occupation-state-group cells of the difference in the mean log wage for men and women, multiplied by the share of men employed in the cell. This calculation is 62.5 percent when multiplying the within-cell gender wage gap by the share of women employed in the cell. This share is not directly comparable to estimates of occupational segregation because our occupation/industry cells are larger groupings than job classifications. Polachek (1987) similarly finds that only 17-21 percent of gender differences in annual wage earnings in 1960 and 1970 can be explained by occupational segregation, which is similar to the conclusion of Goldin (1990, pp. 71-73). Blau (1977) finds that intra-firm pay differences are a small share of the total gender wage gap in 1970 in office occupations in three Northern cities for establishments with at least 50 employees (Tables 4-6). Using data from 1974 to 1983, Groshen (1991) finds that wage gaps from establishment and job segregation are around 6 percent, whereas occupational segregation accounts for a gap of 11 percent.

In conclusion, our findings claim an important role for the Equal Pay Act, strengthened by Title VII, in reducing pay discrimination against U.S. women in the 1960s. Yet they also provide a cautionary tale: targeting pay discrimination without sufficient protections against employment discrimination provided leeway for firms to shift *how* they discriminated, reshaping the gender gap and leading the literature in economics to focus on occupational segregation and litigation to focus on strengthening Title VII over the next sixty years.

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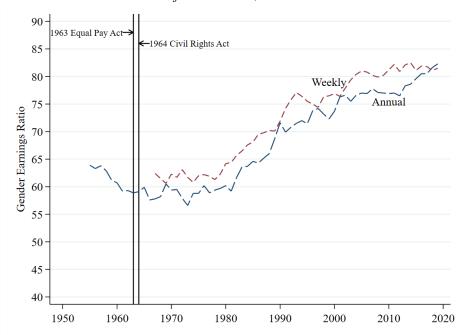
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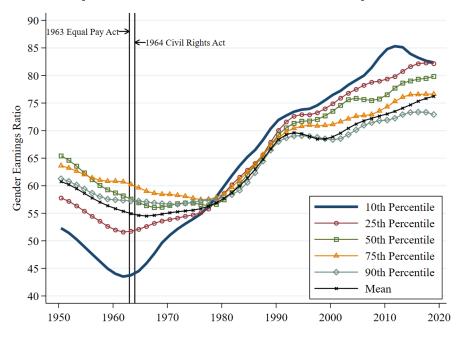
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Figure 1. Estimates of the U.S. Gender Gap in Wage Earnings

A. Census Bureau Estimates for Full-Time, Full-Year Workers at the Median



B. Census/CPS Estimates for Full-Time Workers with at least 27 Weeks of Work in the Previous Year



Notes: Panel A plots data on the ratio of median annual and weekly wage and salary earnings of full-time, full-year workers for women relative to men from the following sources: the Census Bureau's Consumer Income (P60) series for 1955 through 1960 (U.S. Census Bureau 1956, 1958a, b, 1960, 1961, 1962); the female-to-male annual earnings ratio for full-time, full-year workers from DeNavas-Walt and Proctor (2015) for 1961 through 2014; and Shrider et al. (2021) for 2015 through 2019. Data on the female-to-male ratio of usual weekly earnings for full time wage and salary workers come from Mellor (1984) for 1967 through 1978, the U.S. Department of Labor (2015) for 1979 through 2014; and Proctor, Semega, and Kollar (2016) and U.S. Bureau of Labor Statistics (2021) for 2015 through 2019. Panel B uses a sample of 25–64-year-old, full-time workers working at least 27 weeks in the previous year. We plot the gender earnings ratio at the *pth* percentile/mean by taking the ratio of the *pth* percentile/mean of the wage distribution for women over the *pth* percentile/mean of the wage distribution for men. Panel B sources include the 1950 and 1960 Decennial Censuses and the 1962 to 2020 ASEC (Flood et al. 2022, Ruggles et al. 2023). We linearly extrapolate values for earnings years 1950–1958 and 1960, when Census and CPS data are not available. We smooth the series using a local linear regression with a bandwidth of 2 years.

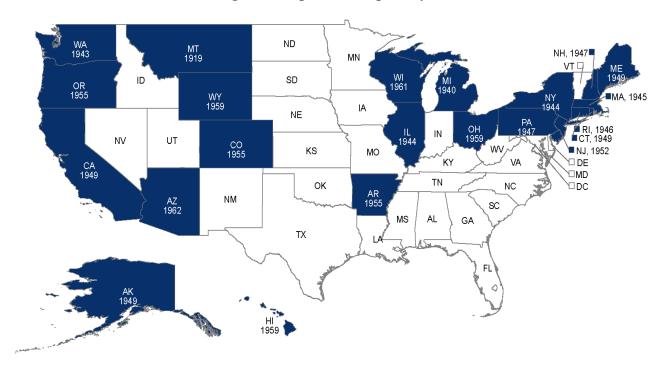
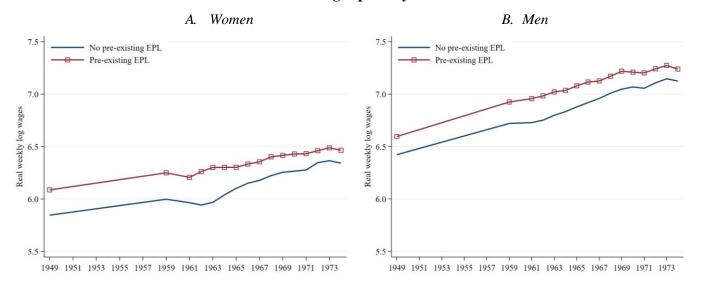


Figure 2. Map of State Equal Pay Laws as of 1963

Notes: The figure plots the 22 states with equal pay laws in the U.S. as of 1963 (dark blue) and those without such a law (U.S. Congress 1963). The states with equal pay laws in 1963 are Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Hawaii, Illinois, Maine, Massachusetts, Michigan, Montana, New Jersey, New Hampshire, New York, Ohio, Oregon, Pennsylvania, Rhode Island, Washington, Wisconsin, and Wyoming. The year listed next to each state indicates the year when the state enacted its equal pay law. See also Neumark and Stock (2006).

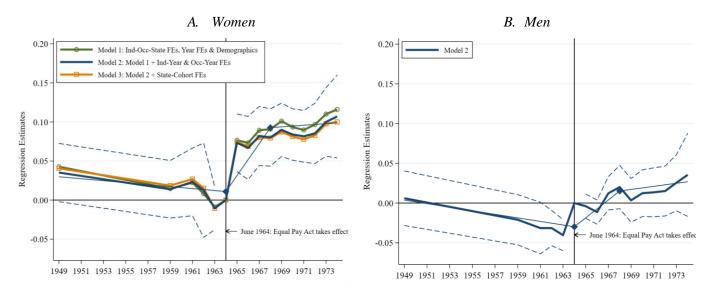
Figure 3. The Evolution of Women's and Men's Weekly Wages in States with and without Pre-Existing Equal Pay Laws



Notes: The figure plots the mean of log of weekly wages for women and men in state groups that did not have an equal pay law as of January 1, 1963, and state groups where at least one state did have such a law.

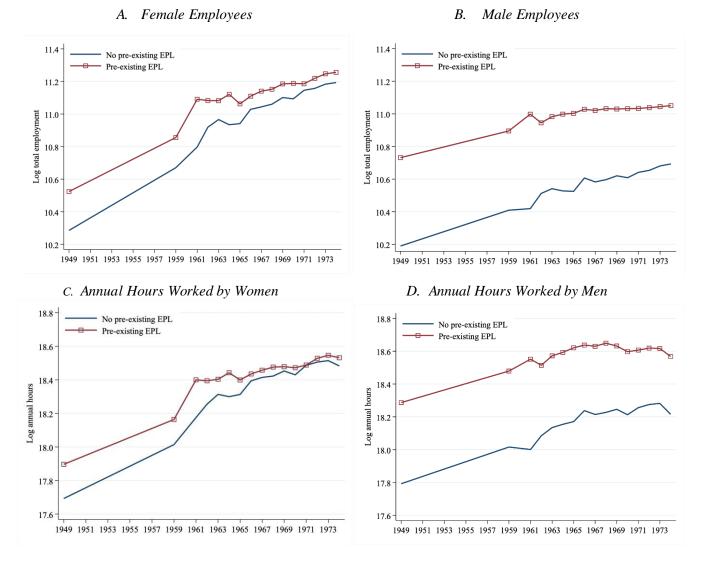
Sources: Authors' calculations using the 1% sample of the 1950 Decennial Census, 5% sample of the 1960 Decennial Census, and the 1962 to 1975 CPS ASEC (Flood et al. 2022, Ruggles et al. 2023). See text for details on sample selection and exclusion criteria.

Figure 4. The Effect of the Equal Pay Act and Title VII on Weekly Wages using Pre-Existing State Equal Pay Laws



Notes: The figure plots the event-study coefficients from equation (1) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and an arbitrary correlation within state group (Huber 1967, White 1980, Arellano 1987). The spline specification is based on model 2 of equation (3). See Appendix Table 5 for the individual point estimates and standard errors. *Sources*: See Figure 3.

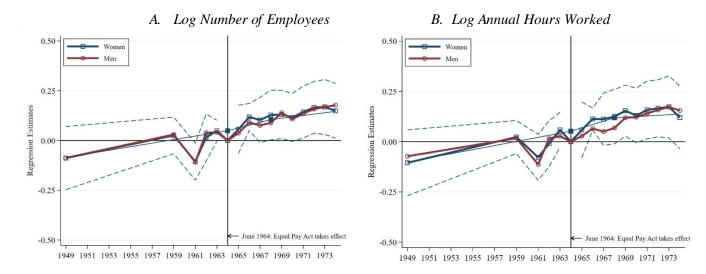
Figure 5. The Evolution of Women's and Men's Employment and Annual Hours in States with and without Pre-Existing Equal Pay Laws



Notes: Panels A and B plot the mean of log sum of employees (total employment) within an industry-occupation-state-group job cell for women and men in state groups that did not have an equal pay law as of January 1, 1963, and state groups where at least one state did have such a law. Because the total counts are depressed in 1961-1962 and, to a lesser extent, in 1963-1964, due to issues around whether variables were included in the February CPS, we inflate employment by the inverse of the fraction of observations in each year coded as a February-March match. Panels C and D show analogous results for the mean of log annual hours worked, which are adjusted using the same inflation factor.

Sources: See Figure 3.

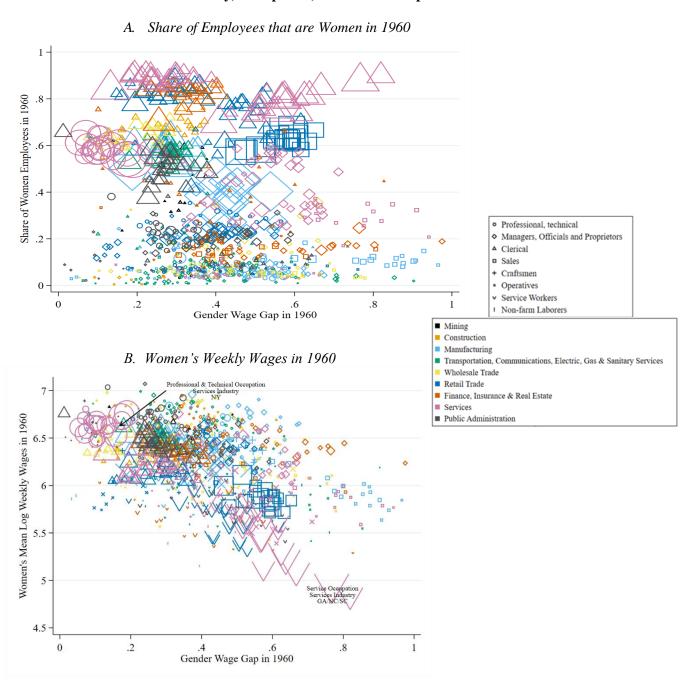
Figure 6. The Effect of the Equal Pay Act and Title VII on Employment using Pre-Existing State Equal Pay Laws



Notes: The figure plots the event-study coefficients from model 2 of equation (2). Dependent variables are indicated in subtitles. Dashed lines are 95-percent, pointwise confidence intervals for women, where standard errors have been corrected for heteroskedasticity and an arbitrary correlation within state group (Huber 1967, White 1980, Arellano 1987). See Appendix Table 7 for the individual point estimates and standard errors.

Sources: See Figure 3.

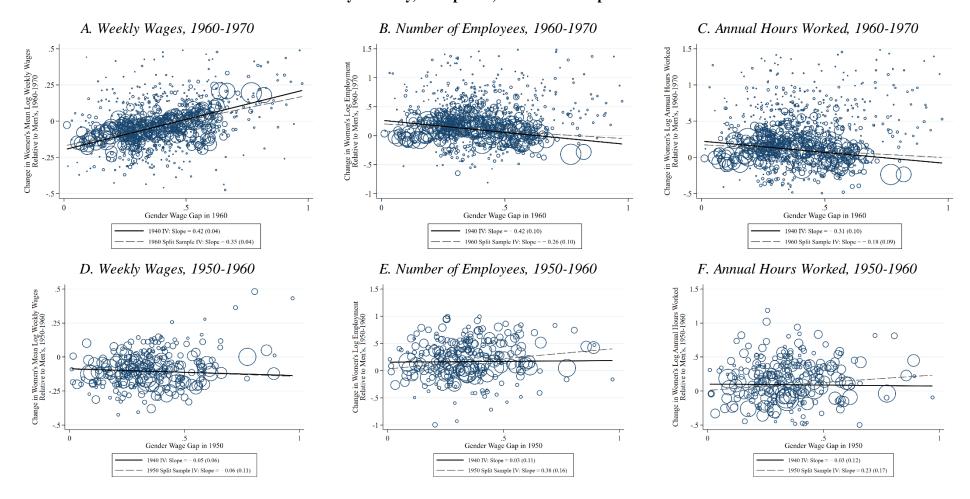
Figure 7. The Correlation of Women's Representation and Wages with the 1960 Gender Wage Gap, by Industry, Occupation, and State-Group Cell



Notes: Each marker represents an industry-occupation-state-group job cell. The size of the marker represents the number of women working in the cell in 1960. The color of each marker captures the industry, and the marker shape captures the occupation as shown in the legend. The x-axis is the gender wage ratio (*Gap*), which is calculated as the difference in average log hourly wages for men and women working full time in 1960. The y-axis in panel A is the share of employees in each cell in the 1960 Census who are women and in panel B is the average log weekly wages for women in the 1960 Census.

Sources: 5% sample of the 1960 Decennial Census.

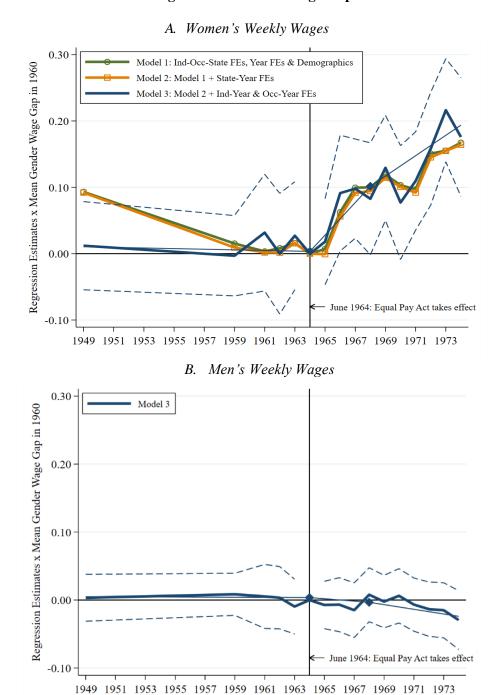
Figure 8. Correlation of Changes in Relative Wages and Employment and the Gender Gap in Wages, by Industry, Occupation, and State-Group Cell



Notes: Each marker represents the difference in outcomes between women and men for the industry-occupation-state-group cell. The dependent variable in Panels A-C is $(Y_{nos,70}^f - Y_{nos,60}^f) - (Y_{nos,70}^m - Y_{nos,60}^m)$, where $Y_{nos,60}^g$ is the outcome (average log weekly wages, log number of employees, log sum of annual hours worked) for sex g in year t, where g is either female (f) or male (m). The dependent variable in Panels D-F is constructed similarly but uses the change between 1950 and 1960. The size of each marker represents the number of women working in the cell in 1960 (panels A-C) or 1950 (panels D-F). Figures are limited to cells with variables in the indicated ranges, but regressions are estimated on all observations. The slope coefficient and heteroskedasticity-robust standard error are calculated using a bivariate regression of the outcome on the y-axis against the gender wage gap with weights equal to the number of women in each cell in 1960 (panels A-C) or 1950 (panels D-F). As described in the text, we use a split sample instrumental variable procedure or use the 1940 gender wage gap as an instrument for the 1960 gender wage gap.

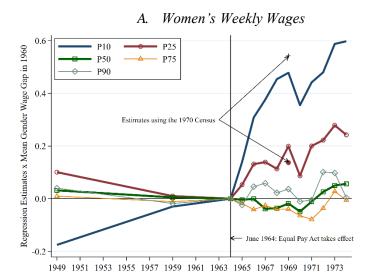
Sources: Authors' calculations using the 1% sample of the 1950 Decennial Census, 5% sample of the 1960 Decennial Census, and the combined one-percent Form 1 and Form 2 state samples of the 1970 Decennial Census (Ruggles et al. 2023).

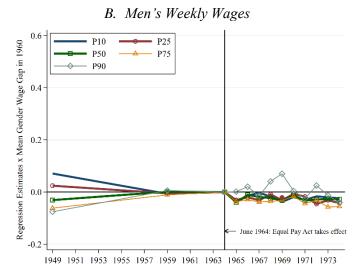
Figure 9. The Effect of the Equal Pay Act and Title VII on Weekly Wages using the 1960 Gender Wage Gap



Notes: The figure plots the event-study coefficients from equation (4) as well as 95-percent, pointwise confidence intervals based on standard errors corrected for heteroskedasticity and an arbitrary correlation within industry-occupation-state-group (Huber 1967, White 1980, Arellano 1987). Dependent variables are indicated in subtitles. The solid thin lines correspond to model 3 spline estimates of equation (5). Point estimates and confidence intervals are multiplied by the average gender wage gap in the 1960 Census for the relevant sample of women (equal to 0.374). See Appendix Table 11 for the individual point estimates and standard errors. *Sources*: See Figure 3.

Figure 10. The Effect of the Equal Pay Act and Title VII on the Distribution of Wages using the 1960 Gender Wage Gap

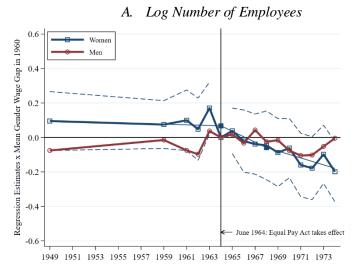


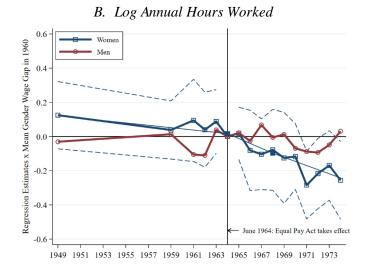


Notes: The figure plots estimates of model 3 of equation (4) where the dependent variable is the RIF for weekly log wages for women (panel A) and men (panel B). Because sample sizes are much smaller in the early ASEC years and because this is a demanding specification, we pool 1959 and 1962-1964 into a single event-study coefficient. Coefficients are scaled by the average gender wage gap (equal to 0.374). Estimates for the 1970 Census are shown for the 10th and 25th percentiles, from a regression estimated using only the 1950, 1960, and 1970 Censuses. See Appendix Table 12 for the estimates and standard errors.

Sources: See Figure 3 notes and the combined one-percent Form 1 and Form 2 state samples of the 1970 Decennial Census.

Figure 11. The Effect of the Equal Pay Act and Title VII on Female Employment using the 1960 Gender Wage Gap





Notes: These figures plot the event-study coefficients from model 3 of equation (4) run on data aggregated at the industry-occupation-state-group-level. Dependent variables are indicated in subtitles. Point estimates and confidence intervals are multiplied by the average gender wage gap (equal to 0.374). Dashed lines are 95-percent, pointwise confidence intervals for women and based on standard errors corrected for heteroskedasticity and an arbitrary correlation within industry-occupation-state-group (Huber 1967, White 1980, Arellano 1987). See Appendix Table 14 for the individual point estimates and standard errors.

Sources: See Figure 3 notes.

Table 1. The Effects of the Equal Pay Act and Title VII on Wages and Employment using Pre-Existing State Equal Pay Laws

	(1)	(2)	(3)
	Wanna	Man	Women -
A Log weekly wage	Women	Men	Men
A. Log weekly wage	0.007	0.054	0.022
Spline estimate in 1968	0.087	0.054	0.033
	(0.021)	(0.018)	(0.010)
p-value, wild cluster bootstrap	[0.000]	[0.006]	[0.006]
Trend-break in 1964	0.022	0.014	0.008
	(0.005)	(0.004)	(0.003)
Pre-trend slope, 1949-1964	-0.001	-0.002	0.001
	(0.001)	(0.001)	(0.001)
p-value, wild cluster bootstrap	[0.168]	[0.074]	[0.449]
R-squared	0.398	0.331	0.501
Mean log wage in 1960, 2022 dollars	6.16	6.86	
Mean wage in 1960, 2022 dollars	\$595	\$1,089	
B. Log number of employees			
Spline estimate in 1968	0.020	-0.018	0.038
	(0.068)	(0.057)	(0.027)
p-value, wild cluster bootstrap	[0.784]	[0.796]	[0.166]
Trend-break in 1964	0.005	-0.005	0.010
	(0.017)	(0.014)	(0.007)
Pre-trend slope, 1949-1964	0.009	0.009	-0.000
	(0.005)	(0.006)	(0.003)
p-value, wild cluster bootstrap	[0.116]	[0.172]	[0.900]
R-squared	0.982	0.987	0.986
Mean <i>nos</i> cell log number of employees in 1960	11.06	10.97	
Mean <i>nos</i> cell number of employees in 1960	90,282	103,153	
C. Log number of annual hours worked	70,202	103,133	
Spline estimate in 1968	0.026	0.003	0.023
Spirite estimate in 1900	(0.069)	(0.059)	(0.025)
n value wild aluster bootstran	[0.739]	[0.962]	[0.319]
p-value, wild cluster bootstrap Trend-break in 1964	0.006	0.001	
Hend-break III 1904			0.006
Due tound alone 1040 1064	(0.017)	(0.015)	(0.006)
Pre-trend slope, 1949-1964	0.010	0.007	0.003
1 211 4 1 4	(0.006)	(0.006)	(0.003)
p-value, wild cluster bootstrap	[0.178]	[0.347]	[0.307]
R-squared	0.977	0.985	0.983
Mean <i>nos</i> cell log number of annual hours in 1960	18.38	18.59	
Mean <i>nos</i> cell number of annual hours in 1960	132 M	202 M	
Observations	800,345	1,561,633	2,361,978
Sex-Industry-Occupation-State-Year Cells	5,264	10,640	15,904

Notes: Table presents the spline estimates for model 2 as described in the text. Dependent variables are indicated in panel subtitles. In column 3, demographic controls and fixed effects are allowed to vary by sex. Standard errors in parentheses are corrected for heteroskedasticity and arbitrary correlation within state-group (Huber 1967, White 1980, Arellano 1987). Wild cluster bootstrap p-values using 499 replications are in brackets.

Sources: See Figure 3 notes

Table 2. The Effects of the Equal Pay Act and Title VII on Wages and Employment using 1960 Gender Wage Gaps

	(1)	(2)	(3)	(4)	(5)
				Equal P	
				State Law	No State Law
	Women	Men	Women - Men	Women - Men	Women - Men
A. Log weekly wage					
Spline estimate in 1968 at mean Gap	0.100	-0.007	0.107	0.060	0.162
	(0.023)	(0.011)	(0.025)	(0.039)	(0.034)
Trend-break in 1964	0.067	-0.004	0.071	0.041	0.103
	(0.015)	(0.008)	(0.017)	(0.027)	(0.022)
Pre-trend slope, 1949-1964	-0.001	-0.000	-0.001	0.007	-0.012
•	(0.004)	(0.002)	(0.004)	(0.006)	(0.006)
R-squared	0.399	0.327	0.511	0.476	0.538
Mean log wage in 1960, 2022 dollars	6.17	6.89			
Mean wage in 1960, 2022 dollars	\$599	\$1,114			
B. Log number of employees					
Spline estimate in 1968 at mean <i>Gap</i>	-0.118	-0.062	-0.056	-0.009	-0.112
	(0.047)	(0.029)	(0.049)	(0.077)	(0.069)
Trend-break in 1964	-0.079	-0.041	-0.038	-0.006	-0.072
	(0.031)	(0.019)	(0.032)	(0.053)	(0.044)
Pre-trend slope, 1949-1964	-0.005	0.015	-0.020	-0.000	-0.033
•	(0.011)	(0.005)	(0.011)	(0.014)	(0.020)
R-squared	0.989	0.991	0.990	0.991	0.989
Mean <i>nos</i> cell log number of employees in 1960	11.06	10.97			
Mean <i>nos</i> cell number of employees in 1960	90,345	103,153			
C. Log number of annual hours worked					
Spline estimate in 1968 at mean Gap	-0.087	-0.047	-0.039	-0.060	-0.046
	(0.052)	(0.030)	(0.054)	(0.095)	(0.081)
Trend-break in 1964	-0.058	-0.032	-0.026	-0.041	-0.030
	(0.034)	(0.020)	(0.036)	(0.065)	(0.052)
Pre-trend slope, 1949-1964	-0.019	0.008	-0.026	-0.003	-0.047
-	(0.013)	(0.005)	(0.012)	(0.016)	(0.021)
R-squared	0.984	0.989	0.987	0.989	0.985
Mean nos cell log annual hours in 1960	18.38	18.59			
Mean <i>nos</i> cell number of annual hours in 1960	132 M	202 M			
Observations	797,272	1,362,199	2,159,471	1,435,264	724,204
Sex-Industry-Occupation-State-Year Cells	5,264	10,640	15,904	9,904	5,968

Notes: Table presents the spline estimates for model 3 of equation (5). The spline estimates and standard errors in 1968 are scaled by the mean gender gap in the 1960 Census (equal to 0.374). Columns 4 and 5 split the sample into state groups where at least one state had an equal pay law as of January 1, 1963, and state groups that did not (U.S. Congress 1963). We use separate values of the mean gender gap for these two columns (equal to 0.364 for column 4 and 0.392 for column 5). Standard errors are corrected for heteroskedasticity and an arbitrary correlation within industry-occupation-state-group (Huber 1967, White 1980, Arellano 1987).

Online Appendix for

How the 1963 Equal Pay Act and 1964 Civil Rights Act Shaped the Gender Gap in Pay

By Martha J. Bailey, Thomas Helgerman, and Bryan A. Stuart

July 23, 2023

A. Comparison of Impacts on Hourly, Weekly, and Annual Earnings

Our preferred measure of earnings is the log weekly wage, which equals log annual earnings last year divided by weeks worked in the last year. This variable has the advantage of not relying on reports of the number of hours worked during the week before the survey, which is measured for a different time period than annual earnings and the number of weeks worked.

To account for intensive margin labor supply adjustments, we include log hours worked per week as a covariate when the dependent variable is log weekly wages; we include as a covariate log hours worked per week and log weeks worked per year when the dependent variable is log annual wage earnings.

This appendix shows that our results are similar when estimating impacts on hourly, weekly, or annual earnings. Appendix Figure 2 shows results for the state-level equal pay law research design (research design 1) for our preferred specification (model 2). Appendix Figure 10 shows results for the industry-occupation-state-group gender wage gap design (research design 2) for our preferred specification (model 3). For each of the three dependent variables and both research designs, our estimates are not only very similar but statistically indistinguishable.

B. Sensitivity to Low Earnings Amounts in the CPS

During the 1960s, the CPS changed its sampling design, which resulted in a large number of low hourly earnings observations. In addition, many workers were not covered by the federal minimum wage law. As a result, it is difficult to know whether some of the reported wages below the statutory minimum wage are real or due to measurement error in reports of annual earnings, weeks worked, or hours worked. We explore the robustness of our results to winsorizing hourly, weekly, and annual earnings for both men and women at the lowest 10 percentiles of the earnings distribution for women from 1960 to 1964. The real wage level used for winsorization is fixed across years to avoid introducing changes over time that reflect changes in the CPS sampling frame.

Appendix Table 15 lists the dollar values, in 1964 and 2022 dollars, of the first 10 percentiles of women's hourly, weekly, and annual wages. The first percentile of the hourly wage distribution is \$0.17 in 1964 dollars, which amounts to 14 percent of the minimum wage in January 1964 for workers who had FLSA coverage before the 1961 amendments. The tenth percentile is \$0.65, which is 52 percent of this minimum wage. Winsorizing up to the 10th percentile is in line with the literature, especially given the fact that our analysis is focused on a period with less extensive coverage of the minimum wage and a much higher real minimum wage. For comparison, Derenoncourt

and Montialoux (2021) study the effects of the FLSA expansions on the Black-White wage gap in the 1960s and winsorize the annual wage earnings data at the 5 percent level. Blau and Kahn (2017) study the gender gap in earnings and identify wages as being "too low" if they are lower than \$2 per hour in 2010 dollars, which amounts to \$0.29 in January 1964 dollars, or between the 2^{nd} and 3^{rd} percentile in 1964. Katz and Murphy (1992) and Autor, Katz, and Kearney (2008) identify wages as being "too low" if they are below one-half of the 1982 minimum wage level for full-time workers, which is equivalent to \$3.35 x 0.50 x 40 hours = \$67 in 1982 dollars. Their use of a weekly minimum arises from their focus on full-time workers. Because our sample includes women working less than full-time, the hourly wage provides a more natural benchmark, and half of the \$3.35 minimum wage in 1982 amounts to \$0.55 in 1964 dollars, which falls just above the 7^{th} percentile for our sample.

Appendix Figure 3 displays event-study estimates for hourly, weekly, and annual earnings for the state equal pay law research design when winsorizing low wage levels. The post-1964 wage increases are smaller when winsorizing, but the winsorized point estimates fall within the 95-percent confidence interval of our main results. The spline estimate in 1968 for women's weekly wages is 0.087 (0.021) when not winsorizing and 0.070 (0.017) when winsorizing at the 7th percentile (p-value on the test of the difference = 0.004). Appendix Figure 11 shows comparable results for the 1960 gender wage gap research design. The spline estimate at the mean in 1968 for women's weekly wages is 0.100 (0.023) when not winsorizing and 0.065 (0.018) when winsorizing at the 7th percentile (p-value on the test of the difference = 0.001). In summary, the appendix shows that the paper's main results are smaller but survive winsorization of very low wages.

C. Adjusting Standard Errors for Estimates of the Gender Wage Gap

For our second research design, the key explanatory variable is a generated regressor: the estimated gender wage gap between men and women in 1960. It is possible that our standard errors are too small because they do not account for uncertainty in this estimate.

A common approach to accounting for generated regressors is to use a pairs bootstrap. In our setting, this would amount to re-sampling industry-occupation-state-group cells with replacement, keeping all observations within an industry-occupation-state cell together. However, because our gender gap variable is defined at the industry-occupation-state-level, the gender gap variable would be identical for each resampled cell. As a result, the pairs bootstrap cannot address the generated regressor issue in this setting.

Instead, we use an approach that combines the parametric bootstrap and the Bayesian bootstrap (Rubin 1981). First, we estimate the heteroskedasticity-robust standard error on each industry-occupation-state cell's gender wage gap by regressing log hourly wages on an indicator for being a man among observations in a given cell in 1960. The point estimate from this regression is identical to the gender wage gap used in our main analysis, and the standard error reflects uncertainty in the gender wage gap estimate due to a finite sample size. Second, we implement a clustered version of the Bayesian bootstrap by drawing industry-occupation-state-group-cell-specific weights following the procedure described in the appendix to Angrist et al. (2017). In isolation, the Bayesian bootstrap produces similar results as clustering standard errors by industry-occupation-state-group. However, we can combine the Bayesian bootstrap with the parametric bootstrap by generating a normally-distributed gender wage gap variable with mean and standard deviation given by the first-step regression estimate. By generating a new gender wage gap variable in each bootstrap sample, this "parametric clustered Bayesian bootstrap" procedure accounts for uncertainty in the generated regressor.

Appendix Table 16 reports our main estimates from Table 2, with cluster-robust standard errors based on asymptotic approximations in parentheses, alongside standard errors from the parametric clustered Bayesian bootstrap in brackets. Likely owing to the fact that our generated regressor is calculated using a fairly large sample (the 5% sample of the 1960 Census), the two sets of standard errors are very similar. This provides some reassurance that our conclusions are not materially affected by sampling variability in the gender wage gap variable.

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Appendix Table 1. Kitagawa-Blinder-Oaxaca Decomposition of Changes in the Gender Gap in Weekly Wages, 1949 to 1959

Changes in the Gender Gap in	weekiy w	ages, 1945	9 to 1959
	(1)	(2)	(3)
Year	1949	1959	1949 to 1959
A. Selected characteristics (mean)			
Log weekly wages			
Men	6.549	6.872	0.323
Women	6.012	6.170	0.159
Gender gap (men minus women)	0.537	0.701	0.164
Log hours worked in week before survey			
Men	3.735	3.732	-0.002
Women	3.607	3.511	-0.096
Gender gap (men minus women)	0.127	0.221	0.094
Years of education			
Men	9.684	10.516	0.832
Women	10.326	10.819	0.493
Gender gap (men minus women)	-0.642	-0.303	0.339
<i>2</i> 1 ()			
B. Decomposition 1: Without occupation or	industry		
Explained gender wage gap	0.067	0.089	0.022
Unexplained gender wage gap	0.470	0.613	0.142
Components of explained gap (differences			
Log hours worked	0.011	0.037	0.027
Education	-0.028	-0.018	0.010
Potential experience	0.007	-0.005	-0.012
Married	0.064	0.061	-0.003
Nonwhite	0.014	0.014	-0.000
Components of unexplained gap (difference			0.000
Log hours worked	-0.907	-1.104	-0.196
Education	-0.079	-0.197	-0.118
Potential experience	0.155	0.084	-0.070
Married	0.133	0.199	0.088
Nonwhite	0.015	0.009	-0.007
Constant	1.176	1.622	0.446
Constant	1.170	1.022	0.770
C. Decomposition 2: With occupation and in	ndustry		
Explained gender wage gap	0.171	0.270	0.099
Unexplained gender wage gap	0.366	0.431	0.065
Components of explained gap (differences			0.003
Log hours worked	0.015	0.041	0.025
Education	-0.021	-0.013	0.008
Potential experience	0.006	-0.015	-0.011
Married	0.047	0.045	-0.002
Nonwhite	0.047	0.043	-0.002
Occupation	0.003	0.009	0.024
Industry	0.033	0.030	0.024
Components of unexplained gap (difference			0.030
Log hours worked	-0.616		0.010
Education	0.068	-0.597 0.092	0.019
	0.084		0.024
Potential experience		0.022	-0.062
Married Nanyhita	0.090	0.165	0.074
Nonwhite	-0.009	-0.018	-0.009
Occupation	-0.175	0.388	0.563
Industry	-0.026	-0.049	-0.023
Constant	0.950	0.429	-0.521

Notes: Panel A reports averages of the indicated variables using the paper's sample restrictions. Panels B and C report Kitagawa-Blinder-Oaxaca decompositions of the difference in mean log weekly wages between men and women. We weight the difference in observed characteristics by the coefficients for men. For each panel, the decomposition is estimated separately for each year in columns 1 and 2, and column 3 reports the difference between each term from 1949 to 1959. *Sources:* 1% sample of the 1950 Decennial Census, 5% sample of the 1960 Decennial Census (Ruggles et al. 2023). See text for details on sample selection and exclusion criteria.

Appendix Table 2. Evidence Presented at 1963 Equal Pay Senate Hearings

Difference in Average Hourly Earnings (Women - Men) City, Industry, and Occupation (2022\$)A. Chicago Furniture Manufacturing Assemblers, case goods -2.25 Off-bearers, machine 0 Packers, furniture -1.69 Sanders, furniture, hand -2.91Power Laundries Assemblers -0.75Clerks, retail, receiving -5.57 Identifiers -2.17 Pressers, machine (dry cleaning) -2.83-2.26 Tumbler operators (laundry) -2.55 Wrappers, bundle B. Winston-Salem Furniture Manufacturing -1.03 Assemblers, case goods Packers, furniture -1.12 Rubbers, furniture, hand -0.09 Rubbers, furniture, machine -0.37Sanders, furniture, hand -0.84Sprayers -1.22C. Philadelphia Eating and Drinking Places 1.32 Bus girls and boys -1.23 Counter attendants Pantry workers 0 Power Laundries Assemblers 2.83 Identifiers 0 -0.75 Tumbler operators (laundry) Wrappers, bundle -0.66

Notes: Table reports the difference in average hourly earnings (women minus men) from the Hearings on the Equal Pay Act in April of 1963, inflated to January 2022 dollars using the CPI-U.

Sources: Hearings on the Equal Pay Act in April of 1963. Data on Furniture Manufacturing taken from Table 15 p. 38; Data on Power Laundries taken from Table 9 p. 33. Data on Eating and Drinking Places Taken from Table 12 p.36 (U.S. Congress 1963).

Appendix Table 3. Estimates of the Gender Gap using the 1963 Occupational Wage Survey

	(1)	(2)	(3)			
	Dependent variable: Log weekly wage					
A. All jobs						
Women	-0.321	-0.314	-0.172			
	(0.022)	(0.021)	(0.010)			
Observations	4,337	4,337	4,337			
R-squared	0.273	0.416	0.927			
B. Jobs reporting hourly wages						
Women	-0.440	-0.433	-0.183			
	(0.024)	(0.025)	(0.016)			
Observations	1,843	1,843	1,843			
R-squared	0.174	0.412	0.929			
Covariates						
City FE		X	X			
Narrow job classification FE			X			

Notes: Coefficient on women captures the difference in log weekly wages earned by women relative to men (omitted). In panel A, we combine jobs reporting weekly wages and hourly wages by converting hourly wages into weekly equivalents (multiplying the hourly wage by 40 hours). In all regressions in panel A, we include a dummy variable equal to 1 for these jobs. In panel B, we examine the pay differential in log hourly wages in hourly wage jobs only and omit this covariate. Column 2 includes city fixed effects, and column 3 adds fixed effects for detailed occupational classes. Regressions are weighted by the number of employees in each sex-city-job observation. Heteroskedasticity robust standard errors are reported in parentheses.

Sources: Data are from the Bureau of Labor Statistics' Occupational Wage Survey (U.S. Bureau of Labor Statistics 1963).

Appendix Table 4. Summary Statistics, by State Pre-Existing Equal Pay Law Status

	(1)	(2)	(3)	(4)
_	Women		M	en
	No EPL	EPL	No EPL	EPL
Mean weekly wage in 1959 (2022 dollars)	525	634	975	1145
Mean weekly wage in 1964 (2022 dollars)	569	679	1087	1275
Mean nos cell number of employees in 1959	84,172	93,630	69,395	118,204
Mean nos cell number of employees in 1964	91,828	103,820	74,739	116,922
Mean nos cell number of annual hours in 1959	125 M	136 M	139 M	229 M
Mean nos cell number of annual hours in 1964	141 M	156 M	158 M	239 M
Mean nos cell gender wage gap in 1960	0.394	0.367	0.403	0.403

Notes: Table reports summary statistics for the main dependent and independent variables of interest for state groups that did not have an equal pay law (EPL) as of January 1, 1963 (columns 1 and 3) and state groups where at least one state did have such a law (columns 2 and 4). Gender wage gap in 1960 is calculated by industry-occupation-state-group cell.

Sources: 5% sample of the 1960 Decennial Census and the 1965 CPS ASEC (Flood et al. 2022, Ruggles et al. 2023).

Appendix Table 5. The Effect of the Equal Pay Act and Title VII on Weekly Wages using Pre-Existing State Equal Pay Laws, Event-Study Estimates

	(1)	(2)	(3)	(4)
		Women		Men
Year	Model 1	Model 2	Model 3	Model 2
1949	0.043	0.035	0.041	0.006
	(0.019)	(0.019)	(0.019)	(0.018)
1959	0.015	0.014	0.018	-0.021
	(0.019)	(0.019)	(0.019)	(0.016)
1961	0.022	0.023	0.027	-0.032
	(0.021)	(0.022)	(0.022)	(0.017)
1962	0.008	0.013	0.015	-0.032
	(0.030)	(0.031)	(0.030)	(0.011)
1963	-0.009	-0.011	-0.011	-0.040
	(0.014)	(0.014)	(0.014)	(0.010)
1964 (omitted)	,	, ,	,	. ,
1965	0.076	0.073	0.074	-0.004
	(0.019)	(0.019)	(0.019)	(0.008)
1966	0.073	0.067	0.069	-0.011
	(0.020)	(0.021)	(0.021)	(0.008)
1967	0.089	0.082	0.080	0.012
	(0.019)	(0.019)	(0.019)	(0.011)
1968	0.091	0.080	0.079	0.020
	(0.019)	(0.019)	(0.019)	(0.014)
1969	0.101	0.090	0.087	0.003
	(0.017)	(0.017)	(0.017)	(0.014)
1970	0.093	0.084	0.081	0.012
	(0.016)	(0.017)	(0.017)	(0.015)
1971	0.090	0.082	0.078	0.013
	(0.017)	(0.017)	(0.017)	(0.016)
1972	0.097	0.085	0.083	0.015
	(0.021)	(0.020)	(0.019)	(0.016)
1973	0.110	0.100	0.098	0.025
	(0.024)	(0.022)	(0.023)	(0.018)
1974	0.116	0.107	0.100	0.035
	(0.029)	(0.027)	(0.026)	(0.027)
Observations	800,345	800,345	800,344	1,561,633

Notes: Table presents the event-study coefficients and standard errors from equation (1) presented in Figure 4. The standard errors have been corrected for heteroskedasticity and an arbitrary correlation within state group. See notes to Figure 4. *Sources:* See Figure 3 notes.

Appendix Table 6. Heterogeneity in the Effects of the Equal Pay Act and Title VII on Wages and Employment of Women using Pre-Existing State Equal Pay Laws

		using i	I C-L'AISUI	ig State Eq	uai ray La	WS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	All				Less than	At least				
	wage	Full-time			12 years	12 years	Age	Age		
	earners	wage earners	White	Black	education	education	25-44	45-64	Married	Unmarried
A. Log weekly wage, mean 1960 level:	\$595	\$646	\$625	\$387	\$482	\$700	\$586	\$607	\$575	\$631
Spline estimate in 1968	0.087	0.079	0.084	0.085	0.112	0.074	0.072	0.101	0.092	0.066
	(0.021)	(0.019)	(0.020)	(0.051)	(0.029)	(0.018)	(0.026)	(0.023)	(0.024)	(0.025)
p-value, wild cluster bootstrap	[0.000]	[0.000]	[0.000]	[0.188]	[0.000]	[0.002]	[0.018]	[0.002]	[0.002]	[0.034]
Trend-break in 1964	0.022	0.020	0.002	-0.005	-0.004	0.004	-0.002	0.005	0.002	-0.001
	(0.005)	(0.005)	(0.007)	(0.013)	(0.010)	(0.006)	(0.008)	(0.008)	(0.008)	(0.006)
Pre-trend slope, 1949-1964	-0.001	-0.003	0.005	0.005	0.005	0.004	0.006	0.005	0.007	0.002
• '	(0.001)	(0.001)	(0.001)	(0.002)	(0.002)	(0.001)	(0.001)	(0.002)	(0.001)	(0.001)
B. Log employees, mean 1960 level:	90,282	55,710	77,544	63,140	85,057	47,738	51,055	47,123	60,355	38,588
Spline estimate in 1968	0.020	-0.001	0.007	0.046	0.143	-0.094	-0.017	0.002	0.034	-0.002
	(0.068)	(0.068)	(0.073)	(0.085)	(0.080)	(0.067)	(0.065)	(0.068)	(0.064)	(0.045)
p-value, wild cluster bootstrap	[0.784]	[0.992]	[0.912]	[0.635]	[0.120]	[0.160]	[0.790]	[0.988]	[0.637]	[0.984]
Trend-break in 1964	0.005	-0.000	-0.017	-0.020	-0.019	-0.009	-0.015	-0.014	-0.011	0.016
	(0.017)	(0.017)	(0.018)	(0.017)	(0.022)	(0.018)	(0.015)	(0.016)	(0.015)	(0.010)
Pre-trend slope, 1949-1964	0.009	0.012	0.021	-0.001	0.020	0.011	0.018	0.014	0.010	-0.004
• /	(0.005)	(0.007)	(0.005)	(0.005)	(0.006)	(0.007)	(0.006)	(0.007)	(0.004)	(0.006)
C. Log annual hours worked, mean 1960 level:	132 M	111 M	115 M	83 M	119 M	73 M	73 M	70 M	83 M	62 M
Spline estimate in 1968	0.026	0.006	0.010	0.060	0.153	-0.098	-0.015	0.008	0.027	0.016
•	(0.069)	(0.006)	(0.073)	(0.107)	(0.085)	(0.073)	(0.071)	(0.067)	(0.065)	(0.051)
p-value, wild cluster bootstrap	[0.739]	[0.938]	[0.888]	[0.663]	[0.126]	[0.176]	[0.858]	[0.926]	[0.697]	[0.780]
Trend-break in 1964	0.006	0.001	-0.025	-0.024	-0.025	-0.019	-0.023	-0.024	-0.016	0.015
	(0.017)	(0.017)	(0.017)	(0.020)	(0.022)	(0.019)	(0.016)	(0.016)	(0.015)	(0.012)
Pre-trend slope, 1949-1964	0.010	0.012	0.024	0.001	0.024	0.016	0.023	0.018	0.013	-0.005
•	(0.006)	(0.007)	(0.007)	(0.005)	(0.007)	(0.008)	(0.008)	(0.007)	(0.005)	(0.007)
Observations	800,345	550,813	695,541	98,485	354,690	441,614	443,988	356,230	514,032	286,184
Industry-Occupation-State-Year Cells	5,264	4,640	4,992	863	2,460	4,395	3,888	3,584	4,319	3,008

Notes: Table presents the spline estimates and standard errors for women. Column 1 replicates column 1 of Table 1. Column 2 limits the sample to full-time wage earners (at least 35 hours per week and 27 or more weeks per year). Columns 3-4 restrict the sample to White and Black workers (race covariate excluded in these specifications). Columns 5-6 restrict the sample to individuals with less than or at least 12 years of education. Columns 7-8 restrict the sample to workers of different ages (age covariates excluded). Columns 9-10 restrict the sample to married and unmarried individuals. Individual observations are reported for Panel A, and the number of job cells are reported for Panels B and C. See Table 1 notes and text for details.

Sources: See Figure 3 notes.

Appendix Table 7. The Effect of the Equal Pay Act and Title VII on Employment using Pre-Existing State Equal Pay Laws, Event-Study Estimates

1	ay Laws, E	went-Stuu	y Estimates)
	(1)	(2)	(3)	(4)
	Log Number of		Log Ann	ual Hours
	Empl	oyees	Wor	rked
Year	Women	Men	Women	Men
1949	-0.088	-0.088	-0.105	-0.072
	(0.081)	(0.098)	(0.084)	(0.104)
1959	0.026	0.030	0.023	0.017
	(0.047)	(0.057)	(0.042)	(0.063)
1961	-0.106	-0.109	-0.078	-0.113
	(0.047)	(0.048)	(0.058)	(0.049)
1962	0.015	0.039	-0.010	0.016
	(0.061)	(0.052)	(0.058)	(0.059)
1963	0.049	0.041	0.059	0.027
	(0.027)	(0.034)	(0.044)	(0.042)
1964 (omitted)	, ,	, ,	,	, ,
1965	0.056	0.037	0.058	0.028
	(0.062)	(0.044)	(0.071)	(0.048)
1966	0.118	0.091	0.113	0.065
	(0.035)	(0.027)	(0.028)	(0.027)
1967	0.103	0.076	0.112	0.050
	(0.058)	(0.047)	(0.066)	(0.050)
1968	0.128	0.089	0.125	0.068
	(0.064)	(0.052)	(0.069)	(0.055)
1969	0.131	0.139	0.154	0.119
	(0.062)	(0.051)	(0.065)	(0.050)
1970	0.116	0.108	0.130	0.122
	(0.062)	(0.047)	(0.069)	(0.047)
1971	0.143	0.135	0.158	0.140
	(0.066)	(0.057)	(0.073)	(0.057)
1972	0.166	0.158	0.166	0.158
	(0.066)	(0.050)	(0.072)	(0.052)
1973	0.169	0.168	0.173	0.172
	(0.070)	(0.060)	(0.079)	(0.059)
1974	0.149	0.178	0.120	0.155
	(0.070)	(0.064)	(0.079)	(0.071)
Observations	5,264	10,640	5,264	10,640

Notes: Table presents the event-study coefficients and standard errors from model 2 of equation (2) presented in Figure 6. The standard errors have been corrected for heteroskedasticity and an arbitrary correlation within state group. See notes to Figure 6.

Sources: See Figure 3 notes.

Appendix Table 8. Cells Included in the 1960 Gender Wage Gap Analysis, by Occupation and Industry

Occupation	Industry	Number of State Groups
Professional, Technical	Mining	2
,	Construction	6
	Manufacturing	21
	Transportation, Communications, Electric, Gas & Sanitary Services	19
	Wholesale Trade	5
	Retail Trade	19
	Finance, Insurance & Real Estate	19
	Services	21
Manager Officials and December 2	Public Administration	21
Managers, Officials and Proprietors	Mining	1
	Construction	10
	Manufacturing	21
	Transportation, Communications, Electric, Gas & Sanitary Services	18
	Wholesale Trade	19
	Retail Trade	21
	Finance, Insurance & Real Estate	21
	Services	21
	Public Administration	21
Clerical	Mining	13
	Construction	21
	Manufacturing	21
	Transportation, Communications, Electric, Gas & Sanitary Services	21
	Wholesale Trade	21
	Retail Trade	21
	Finance, Insurance & Real Estate	21
	Services	21
g 1	Public Administration	21
Sales	Manufacturing	20
	Transportation, Communications, Electric, Gas & Sanitary Services	3
	Wholesale Trade	17
	Retail Trade	21
	Finance, Insurance & Real Estate	21
	Services	18
Craftsmen	Construction	2
	Manufacturing	21
	Transportation, Communications, Electric, Gas & Sanitary Services	15
	Wholesale Trade	4
	Retail Trade	20
	Finance, Insurance & Real Estate	1
	Services	19
	Public Administration	5
Operatives	Manufacturing	21
Operatives	Transportation, Communications, Electric, Gas & Sanitary Services	18
	Wholesale Trade	20
	Retail Trade	21
	Finance, Insurance & Real Estate	2
	Services	21
	Public Administration	14
Service Workers	Manufacturing	20
	Transportation, Communications, Electric, Gas & Sanitary Services	19
	Wholesale Trade	1
	Retail Trade	21
	Finance, Insurance & Real Estate	20
	Services	21
	Public Administration	20
	2 WOLLD A LOUISING WHOLE	20

(table is continued on next page)

Non-farm Laborers	Manufacturing	20
	Transportation, Communications, Electric, Gas & Sanitary Services	6
	Wholesale Trade	2
	Retail Trade	9
	Services	10
	Public Administration	2
Total		942

Notes: Table reports the number of industry-occupation-state-group cells included in the analysis. The final column reports the number of state-groups within each occupation-industry pair.

Sources: 5% sample of the 1960 Decennial Census (Ruggles et al. 2023).

Appendix Table 9. Cells Excluded from the 1960 Gender Wage Gap Analysis, by Occupation and Industry

Occupation	Industry	Number of State Groups
Professional, Technical	Mining	19
	Construction	15
	Transportation, Communications, Electric, Gas & Sanitary Services	2
	Wholesale Trade	16
	Retail Trade	2
	Finance, Insurance & Real Estate	2
Managers, Officials and Proprietors	Mining	20
	Construction	11
	Transportation, Communications, Electric, Gas & Sanitary Services	3
	Wholesale Trade	2
Clerical	Mining	8
Sales	Mining	21
	Construction	21
	Manufacturing	1
	Transportation, Communications, Electric, Gas & Sanitary Services	18
	Wholesale Trade	4
	Services	3
	Public Administration	21
Craftsmen	Mining	21
Clarismen	Construction	19
	Transportation, Communications, Electric, Gas & Sanitary Services	_
	Wholesale Trade	6
	Retail Trade	17
		1
	Finance, Insurance & Real Estate	20
	Services	2
0	Public Administration	16
Operatives	Mining	21
	Construction	21
	Transportation, Communications, Electric, Gas & Sanitary Services	3
	Wholesale Trade	1
	Finance, Insurance & Real Estate	19
	Public Administration	7
Service Workers	Mining	21
	Construction	21
	Manufacturing	1
	Transportation, Communications, Electric, Gas & Sanitary Services	2
	Wholesale Trade	20
	Finance, Insurance & Real Estate	1
	Public Administration	1
Non-farm Laborers	Mining	21
	Construction	21
	Manufacturing	1
	Transportation, Communications, Electric, Gas & Sanitary Services	15
	Wholesale Trade	19
	Retail Trade	12
	Finance, Insurance & Real Estate	21
	Services	11
	Public Administration	19
Total		570

Notes: Table reports the number of industry-occupation-state-group cells excluded from the analysis. The final column reports the number of state-groups within each occupation-industry pair that are dropped from the analysis because fewer than 10 men and women wage earners are observed in 1960 or there are no observations in the ASEC during our period of interest. We also drop cells in the agriculture industry or farmer and farm-laborer occupations.

Sources: 5% sample of the 1960 Decennial Census (Ruggles et al. 2023).

Appendix Table 10. Observation Counts by Sex for Year, Industry, and Occupation

	Observation	ıs
Year, Industry, and Occupation	Men	Women
A. Year (of wage or weeks observation, or survey year -1)		
1949	68,888	28,639
1959	1,329,790	674,676
1961	11,078	5,819
1962	7,811	4,249
1963	11,373	6,109
1964	11,331	6,215
1965	24,093	13,234
1966	15,408	8,493
1967	23,981	14,149
1968	24,300	14,393
1969	23,437	14,146
1970	23,322	14,305
1971	22,354	13,900
1972	21,740	13,734
1973	21,334	13,778
1974	20,935	13,948
B. Industry		
Mining	32,695	1,424
Construction	160,298	6,432
Manufacturing	649,683	223,953
Transportation, Communications, Electric, Gas & Sanitary Services	185,461	31,865
Wholesale Trade	76,048	20,241
Retail Trade	171,370	154,370
Finance, Insurance & Real Estate	59,935	47,009
Services	204,015	330,382
Public Administration	121,670	44,111
C. Occupation		
Professional, technical	198,752	125,208
Managers, Officials and Proprietors	160,075	26,786
Clerical	132,717	265,676
Sales	107,363	64,267
Craftsmen	416,512	12,589
Operatives	408,780	174,146
Service Workers	110,528	186,145
Non-farm Laborers	126,448	4,970

Notes: Table reports the number of observations in our wage earner sample by sex for each year, industry, and observation. Sources: See Figure 3 notes.

Appendix Table 11. The Effect of the Equal Pay Act and Title VII on Weekly Wages using the 1960 Gender Wage Gap, Event-Study Estimates

Gene	ici wage c	iap, Event-	Study Estili	iaics
	(1)	(2)	(3)	(4)
		Women		Men
Year	Model 1	Model 2	Model 3	Model 3
1949	0.093	0.092	0.012	0.003
	(0.021)	(0.020)	(0.034)	(0.018)
1959	0.015	0.009	-0.003	0.008
	(0.020)	(0.020)	(0.031)	(0.016)
1961	0.003	0.002	0.032	0.005
	(0.031)	(0.031)	(0.045)	(0.024)
1962	0.008	0.001	-0.000	0.003
	(0.033)	(0.030)	(0.046)	(0.023)
1963	0.016	0.016	0.027	-0.010
	(0.025)	(0.024)	(0.042)	(0.021)
1964 (omitted)	. ,	, ,	, ,	. ,
1965	0.007	-0.001	0.018	-0.007
	(0.027)	(0.022)	(0.033)	(0.018)
1966	0.062	0.056	0.091	-0.007
	(0.035)	(0.031)	(0.045)	(0.020)
1967	0.099	0.092	0.098	-0.015
	(0.030)	(0.027)	(0.038)	(0.020)
1968	0.100	0.094	0.083	0.008
	(0.031)	(0.027)	(0.043)	(0.020)
1969	0.119	0.114	0.129	-0.002
	(0.031)	(0.027)	(0.040)	(0.020)
1970	0.103	0.101	0.077	0.006
	(0.031)	(0.027)	(0.044)	(0.020)
1971	0.097	0.092	0.110	-0.007
	(0.030)	(0.027)	(0.038)	(0.020)
1972	0.151	0.145	0.158	-0.013
	(0.035)	(0.031)	(0.043)	(0.020)
1973	0.155	0.155	0.216	-0.015
	(0.034)	(0.028)	(0.040)	(0.021)
1974	0.167	0.164	0.176	-0.029
	(0.037)	(0.030)	(0.046)	(0.022)
Observations	797,272	797,272	797,272	1,362,199

Notes: Table presents the event-study coefficients and standard errors from equation (4) presented in Figure 9. The standard errors have been corrected for heteroskedasticity and an arbitrary correlation within industry-occupation-state-group. Point estimates and standard errors are multiplied by the average gender wage gap in the 1960 Census (equal to 0.374). See notes to Figure 9. *Sources:* See Figure 3 notes.

Appendix Table 12. The Effects of the Equal Pay Act and Title VII on The Distribution of Weekly Wages using 1960 Gender Wage Gaps

using 19	ov Gender W	rage Gaps			
	(1)	(2)	(3)	(4)	(5)
	P10	P25	P50	P75	P90
A. Women					
Spline estimate in 1968 at mean <i>Gap</i>	0.314	0.184	-0.036	-0.032	0.085
	(0.099)	(0.040)	(0.029)	(0.024)	(0.037)
Trend-break in 1964	0.079	0.046	-0.009	-0.008	0.021
	(0.025)	(0.010)	(0.007)	(0.006)	(0.009)
Pre-trend slope, 1949-1964	0.016	-0.006	-0.002	-0.001	-0.004
	(0.004)	(0.004)	(0.002)	(0.002)	(0.002)
B. Men					
Spline estimate in 1968 at mean <i>Gap</i>	0.052	0.014	-0.046	-0.057	-0.031
	(0.023)	(0.020)	(0.012)	(0.014)	(0.025)
Trend-break in 1964	0.013	0.004	-0.012	-0.014	-0.008
	(0.006)	(0.005)	(0.003)	(0.004)	(0.006)
Pre-trend slope, 1949-1964	-0.007	-0.003	0.002	0.004	0.006
	(0.002)	(0.002)	(0.001)	(0.001)	(0.001)
Covariates					
Demographics, Ind-Occ-State FEs, Year FEs	X	X	X	X	X
Ind-Year FEs, Occ-Year FEs, State-Year FEs	X	X	X	X	X

Notes: Table reports estimates of equation (5), where the dependent variable is the recentered influence function for weekly log wages and all regressions include as covariates an indicator for nonwhite race, a quadratic function in age, and fixed effects for industry-occupation-state-group, industry-year, occupation-year, and state-group-year. Spline estimates at mean *Gap* are multiplied by the average gender gap (equal to 0.374). As in Figure 9, we pool years 1959 and 1961-1963 because of small sample sizes in the CPS. See notes to Table 2 for details on sample and specification.

Sources: See Figure 3 notes.

Appendix Table 13. Heterogeneity in the Effects of the Equal Pay Act and Title VII on Wages and Employment of Women using 1960 Gender Wage

				Gaps						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
					Less than 12	At least				_
	All	Full-time			years	12 years	Age	Age		
	wage earners	wage earners	White	Black	education	education	25-44	45-64	Married	Unmarried
A. Log weekly wage										
Spline estimate in 1968 at mean Gap	0.100	0.140	0.079	0.045	0.093	0.095	0.096	0.102	0.090	0.111
	(0.023)	(0.023)	(0.024)	(0.059)	(0.030)	(0.028)	(0.027)	(0.035)	(0.030)	(0.031)
Trend-break in 1964	0.067	0.098	0.056	0.022	0.052	0.077	0.065	0.065	0.060	0.074
	(0.015)	(0.016)	(0.017)	(0.029)	(0.017)	(0.023)	(0.018)	(0.022)	(0.020)	(0.021)
Pre-trend slope, 1949-1964	-0.001	-0.010	0.001	-0.008	-0.002	-0.005	0.002	-0.002	0.003	-0.006
	(0.004)	(0.004)	(0.005)	(0.009)	(0.005)	(0.006)	(0.004)	(0.007)	(0.005)	(0.005)
B. Log number of employees										
Spline estimate in 1968 at mean <i>Gap</i>	-0.118	-0.060	-0.050	-0.752	-0.239	-0.005	-0.160	-0.115	-0.085	-0.213
	(0.047)	(0.055)	(0.050)	(0.321)	(0.085)	(0.068)	(0.056)	(0.073)	(0.067)	(0.069)
Trend-break in 1964	-0.079	-0.042	-0.035	-0.372	-0.133	-0.004	-0.108	-0.073	-0.057	-0.143
	(0.031)	(0.039)	(0.035)	(0.159)	(0.047)	(0.055)	(0.038)	(0.046)	(0.045)	(0.046)
Pre-trend slope, 1949-1964	-0.005	-0.010	0.024	0.059	0.000	0.026	-0.016	0.007	-0.016	0.016
	(0.011)	(0.016)	(0.012)	(0.030)	(0.010)	(0.018)	(0.017)	(0.015)	(0.014)	(0.015)
C. Log annual hours worked										
Spline estimate in 1968 at mean <i>Gap</i>	-0.087	-0.086	-0.063	-0.573	-0.157	-0.021	-0.130	-0.079	-0.058	-0.135
	(0.052)	(-0.086)	(0.058)	(0.502)	(0.081)	(0.076)	(0.056)	(0.077)	(0.076)	(0.080)
Trend-break in 1964	-0.058	-0.060	-0.044	-0.284	-0.088	-0.017	-0.088	-0.050	-0.038	-0.090
	(0.034)	(0.039)	(0.041)	(0.249)	(0.045)	(0.062)	(0.038)	(0.049)	(0.051)	(0.053)
Pre-trend slope, 1949-1964	-0.019	-0.016	0.012	0.019	-0.019	0.017	-0.026	-0.001	-0.025	-0.004
	(0.013)	(0.015)	(0.014)	(0.016)	(0.011)	(0.018)	(0.017)	(0.017)	(0.015)	(0.018)
Group mean <i>Gap</i>	0.374	0.358	0.356	0.505	0.449	0.309	0.370	0.394	0.374	0.374
Observations	797,272	548,891	693,141	97,935	353,102	440,266	442,429	354,843	512,242	285,029
Industry-Occupation-State-Year Cells	5,264	4,640	4,976	847	2,430	4,395	3,888	3,568	4,319	3,008

Notes: Table presents the spline estimates and standard errors for women. Column 1 replicates column 1 of Table 2. See notes to Appendix Table 6 for descriptions of samples in remaining columns. The spline estimates in 1968 are scaled using the mean gender gap for the group, whose value in the data is reported in the third-to-last row. Individual observations are reported for Panel A, and the number of job cells are reported for Panels B and C. See Table 2 notes and text for details.

Appendix Table 14. The Effect of the Equal Pay Act and Title VII on Employment using the 1960 Gender Wage Gap, Event-Study Estimates

	(1)	(2)	(3)	(4)	
	Log Number of		Log Annual Hours		
_	Empl	oyees	Worked		
Year	Women	Men	Women	Men	
1949	0.095	-0.076	0.125	-0.030	
	(0.087)	(0.043)	(0.100)	(0.045)	
1959	0.075	-0.015	0.038	0.013	
	(0.071)	(0.037)	(0.087)	(0.039)	
1961	0.099	-0.075	0.094	-0.105	
	(0.090)	(0.056)	(0.123)	(0.062)	
1962	0.048	-0.097	0.040	-0.110	
	(0.092)	(0.055)	(0.112)	(0.060)	
1963	0.170	0.037	0.088	0.039	
	(0.077)	(0.042)	(0.095)	(0.044)	
1964 (omitted)					
1965	0.038	0.018	0.018	0.021	
	(0.067)	(0.043)	(0.078)	(0.045)	
1966	-0.021	-0.033	-0.081	-0.026	
	(0.092)	(0.048)	(0.120)	(0.049)	
1967	-0.039	0.043	-0.104	0.067	
	(0.089)	(0.046)	(0.105)	(0.048)	
1968	-0.046	-0.025	-0.078	-0.005	
	(0.102)	(0.046)	(0.121)	(0.048)	
1969	-0.088	-0.016	-0.125	0.012	
	(0.101)	(0.045)	(0.136)	(0.049)	
1970	-0.062	-0.077	-0.117	-0.069	
	(0.088)	(0.048)	(0.098)	(0.052)	
1971	-0.160	-0.105	-0.284	-0.088	
	(0.094)	(0.047)	(0.101)	(0.048)	
1972	-0.178	-0.102	-0.217	-0.093	
	(0.093)	(0.047)	(0.105)	(0.049)	
1973	-0.098	-0.052	-0.169	-0.049	
	(0.086)	(0.047)	(0.104)	(0.048)	
1974	-0.199	-0.004	-0.256	0.031	
	(0.089)	(0.049)	(0.116)	(0.056)	
Observations	5,264	10,640	5,264	10,640	

Notes: Table presents the event-study coefficients and standard errors from model 3 of equation (4) presented in Figure 11. The standard errors have been corrected for heteroskedasticity and an arbitrary correlation within industry-occupation-state-group. Point estimates and standard errors are multiplied by the average gender wage gap in the 1960 Census (equal to 0.374). See notes to Figure 11.

Sources: See Figure 3 notes.

Appendix Table 15. Dollar Values of Percentiles of Hourly, Weekly, and Annual Wages for Women

	Hourly Wage		Weekly	Weekly Wage		Annual Wage		
	Value in	Value in	Value in	Value in	Value in	Value in		
Percentile	1964\$	2022\$	1964\$	2022\$	1964\$	2022\$		
1	0.17	1.53	3.92	35.63	68.44	622.68		
2	0.25	2.32	6.02	54.76	121.97	1109.79		
3	0.32	2.92	8.00	72.74	182.96	1664.69		
4	0.38^{a}	3.44	9.93	90.31	218.43	1987.43		
5	0.43^{b}	3.87	11.75	106.91	274.78	2500.14		
6	0.48	4.36	12.81	116.57	316.26	2877.52		
7	0.52^{c}	4.76	14.69	133.68	373.29	3396.42		
8	0.57	5.16	15.82	143.95	414.76	3773.80		
9	0.61	5.55	17.56	159.74	484.81	4411.12		
10	0.65	5.90	18.82	171.23	518.46	4717.25		

Notes: Percentiles are calculated separately for each outcome using the 1960 Census and 1962-1964 CPS. ^a Blau and Kahn (2017) exclude workers earning less than 29% of the minimum wage, or around \$0.36 per hour in 1964 dollars (\$1.25 x 0.29 = \$0.36). ^b Derenoncourt and Montialoux (2020) study the effects of the FLSA expansions on the Black-White wage gap in the 1960s and winsorize the annual wage data at the 5 percent level. ^c Katz and Murphy (1992) exclude workers earning less than 50% of the 1982 minimum wage (\$3.35), which is equivalent to around \$0.55 per hour in 1964.

Sources: 1% sample of the 1960 Decennial Census, 1962-1964 CPS ASEC (Flood et al. 2022, Ruggles et al. 2023). See text for details on sample selection and exclusion criteria.

Appendix Table 16. The Effects of the Equal Pay Act and Title VII on Wages and Employment using 1960 Gender Wage Gaps, Robustness to Accounting for the Gender Gap as a Generated Regressor

Regress	sor		
	(1)	(2)	(3)
	Women	Men	Women -Mei
A. Log weekly wage			
Spline estimate in 1968 at mean Gap	0.100	-0.007	0.107
	(0.023)	(0.011)	(0.025)
	[0.023]	[0.010]	[0.025]
Trend-break in 1964	0.067	-0.004	0.071
	(0.015)	(0.008)	(0.017)
	[0.015]	[0.007]	[0.016]
Pre-trend slope, 1949-1964	-0.001	-0.000	-0.001
-	(0.004)	(0.002)	(0.004)
	[0.004]	[0.002]	[0.004]
B. Log number of employees			
Spline estimate in 1968 at mean <i>Gap</i>	-0.118	-0.062	-0.057
	(0.047)	(0.029)	(0.048)
	[0.044]	[0.026]	[0.051]
Trend-break in 1964	-0.079	-0.041	-0.038
	(0.031)	(0.019)	(0.032)
	[0.030]	[0.017]	[0.034]
Pre-trend slope, 1949-1964	-0.005	0.015	-0.020
•	(0.011)	(0.005)	(0.011)
	[0.010]	[0.005]	[0.011]
C. Log number of annual hours worked			
Spline estimate in 1968 at mean <i>Gap</i>	-0.087	-0.047	-0.039
•	(0.052)	(0.030)	(0.054)
	[0.053]	[0.027]	[0.056]
Trend-break in 1964	-0.058	-0.032	-0.026
	(0.034)	(0.020)	(0.036)
	[0.035]	[0.018]	[0.038]
Pre-trend slope, 1949-1964	-0.019	0.008	-0.026
	(0.012)	(0.005)	(0.012)
	[0.012]	[0.005]	[0.012]
Observations	797,272	1,362,199	2,159,471
Sex-industry-occupation-state-year cells	5,264	10,640	15,904
Covariates			
Demographics, Ind-Occ-State FEs, Year FEs	X	X	X
Ind-Year FEs, Occ-Year FEs, State-Year FEs	X	X	X

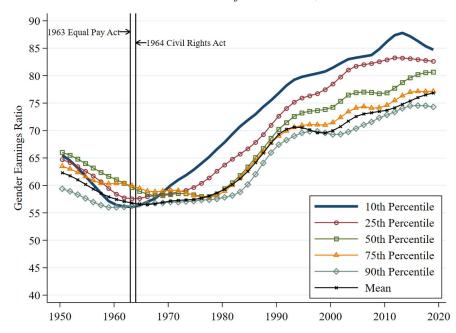
Ind-Year FEs, Occ-Year FEs, State-Year FEs X X X X

Notes: Table presents the spline estimates and asymptotic standard errors clustered by industry-occupation-state-group in parentheses. The standard errors in brackets are based on the parametric clustered Bayesian bootstrap described in Appendix C, which accounts for the fact that Gap is a generated regressor. See notes to Table 2.

Sources: See Figure 3 notes.

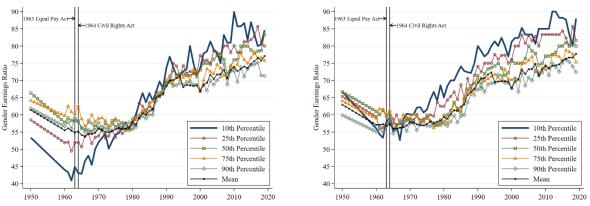
Appendix Figure 1. Additional Estimates of the U.S. Gender Gap in Wage Earnings

A. Smoothed Census/CPS Estimates for Full-Time, Full-Year Workers



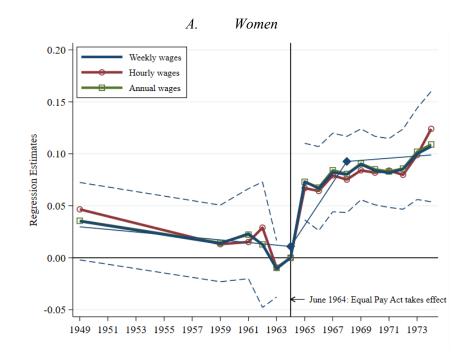
B. Unsmoothed Census/CPS Estimates for Full-time Workers with at least 27 Weeks of Work in the Previous Year

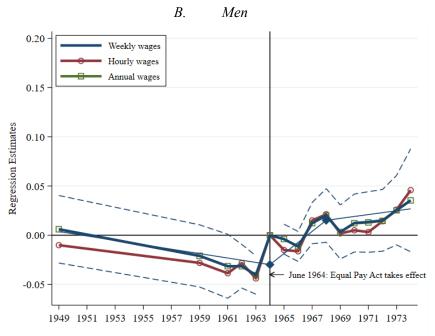
C. Unsmoothed Census/CPS Estimates for Full-Time, Full-Year Workers



Notes: Figure uses the 1950 and 1960 Decennial Censuses and the 1962 to 2020 ASEC. We linearly extrapolate values for earnings years 1950-1958 and 1960 when Census and CPS data are not available. The sample in panels A and C consists of wage and salary workers ages 16-64 who work full-time (35+ hours), full-year (50+ weeks worked), and report positive wage income in the previous year. The sample in panel B consists of 25–64-year-old, full-time workers working at least 27 weeks in the previous year. In panel A, we smooth the series using a local linear regression with a bandwidth of 2 years. We plot the gender earnings ratio at the *pth* percentile/mean by taking the ratio of the *pth* percentile/mean of the wage distribution for women over the *pth* percentile/mean of the wage distribution for men. See notes to Figure 1 for additional details on the sample.

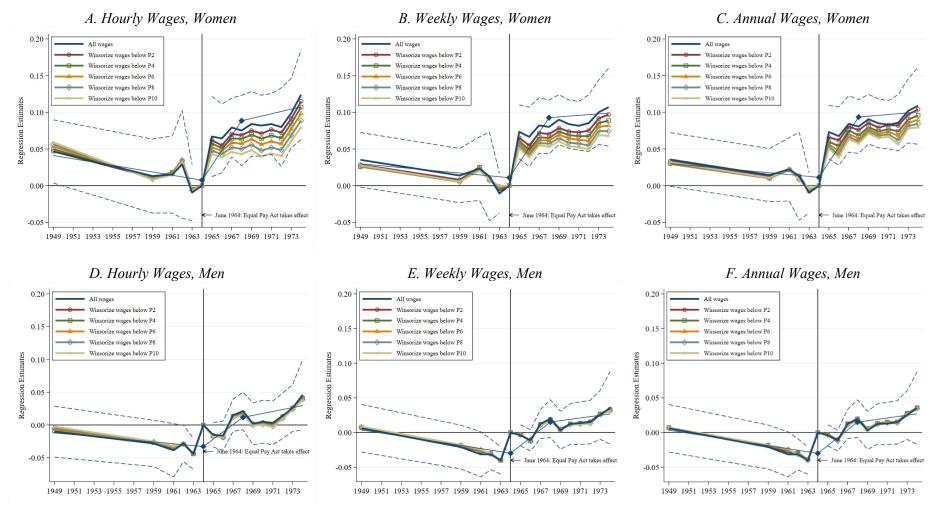
Appendix Figure 2. The Effect of the Equal Pay Act and Title VII on Wages using Pre-Existing State Equal Pay Laws, Robustness to Using Hourly and Annual Wages





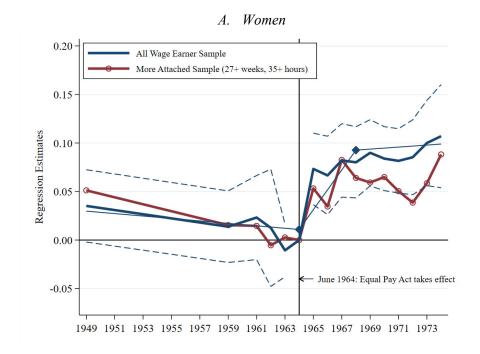
Notes: Figure plots the event-study coefficients from equation (1) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation within state-group. The dependent variable is either the log weekly wage (our preferred approach), log hourly wage, or log annual wage. Log hourly wage is log annual wage earnings less log weeks worked last year and log hours worked in the reference week. The spline (equation 3) is shown for the log weekly wage. All regressions include as covariates an indicator for nonwhite race, a quadratic function in age, and fixed effects for industry-occupation-state-group, industry-year, and occupation-year. We include log hours worked as a covariate when the dependent variable is log weekly wages and log hours worked and log weeks worked when the dependent variable is log annual wages. See description in Appendix A. Sources: See Figure 3.

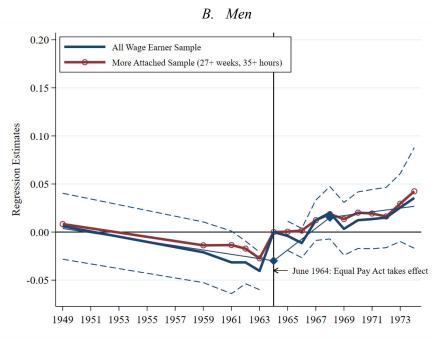
Appendix Figure 3. The Effects of the Equal Pay Act and Title VII on Wages using Pre-Existing State Equal Pay Laws, Robustness to Winsorizing Low Wages



Notes: Figure plots the event-study coefficients from equation (1) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation within state-group. The dependent variables are the unwinsorized log hourly, weekly, or annual wage ("all wages") and their winsorized counterparts at the indicated percentile (see Appendix Table 15 for the value in levels). The spline (equation 3) is shown for the unwinsorized dependent variable. All regressions include as covariates an indicator for nonwhite race, a quadratic function in age, and fixed effects for industry-occupation-state-group, industry-year, and occupation-year. We include log hours worked as a covariate when the dependent variable is log weekly wages and log hours worked and log weeks worked when the dependent variable is log annual wages. See description in Appendix B for details on winsorizing and Appendix A for details on dependent variables. Source: See Figure 3.

Appendix Figure 4. The Effect of the Equal Pay Act and Title VII on Wages using Pre-Existing State Equal Pay Laws, Robustness to Limiting Sample to More Attached Workers

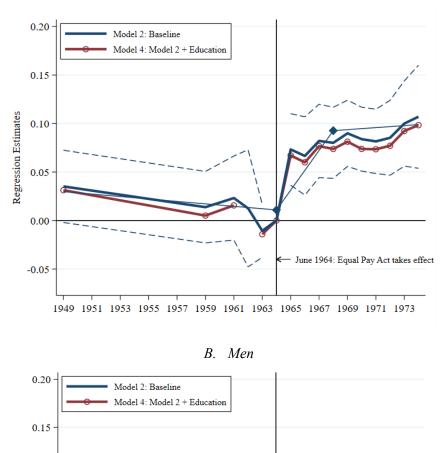


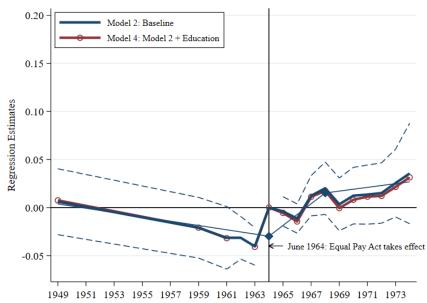


Notes: Figure plots the event-study coefficients from equation (1) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and an arbitrary correlation within state group. The thin lines correspond to spline estimates of equation (3) for the baseline specification. All regressions include as covariates an indicator for nonwhite race, a quadratic function in age, log hours worked, and fixed effects for industry-occupation-state-group, industry-year, and occupation-year. The estimates in red are based on a sample of individuals who worked at least 27 weeks in the previous year and at least 35 hours in the reference week. *Sources:* See Figure 3.

Appendix Figure 5. The Effect of the Equal Pay Act and Title VII on Wages using Pre-Existing State Equal Pay Laws, Robustness to Controlling for Education



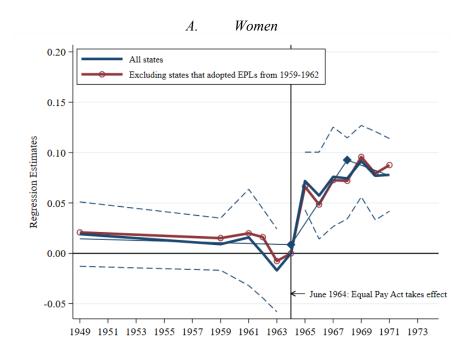


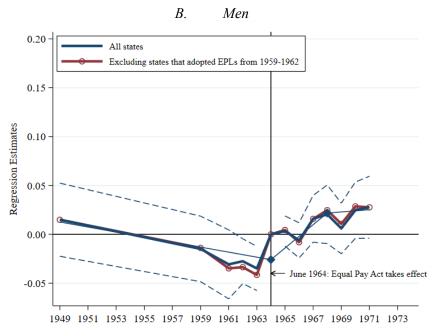


Notes: Figure plots the event-study coefficients from equation (1) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and an arbitrary correlation within state group. The thin lines correspond to spline estimates of equation (3) for the baseline specification. All regressions include as covariates an indicator for nonwhite race, a quadratic function in age, log hours worked, and fixed effects for industry-occupation-state-group, industry-year, and occupation-year. The estimates in red include years of education as a covariate. We omit earnings year 1962 from the regression because education is not available in that year.

Sources: See Figure 3.

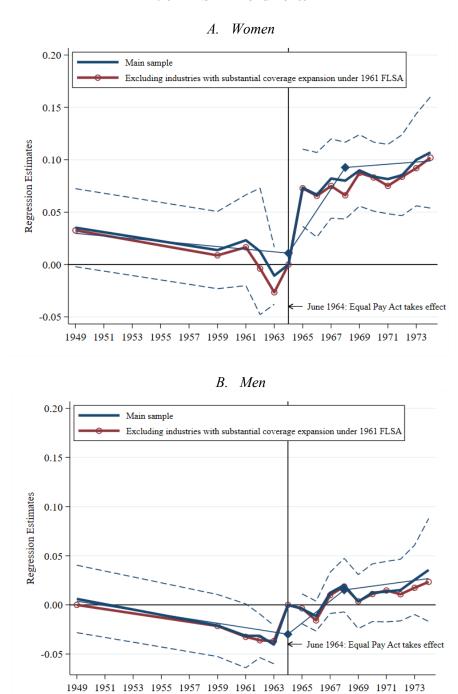
Appendix Figure 6. The Effect of the Equal Pay Act and Title VII on Wages using Pre-Existing State Equal Pay Laws, Robustness to Dropping States that Enacted Equal Pay Laws from 1959-1962





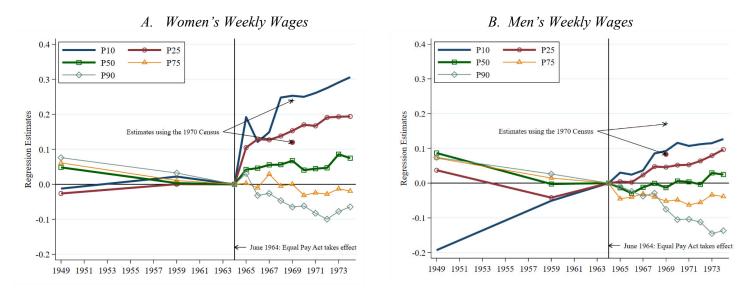
Notes: Figure plots the event-study coefficients from equation (1) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation within state-group. We present results for a sample of wage earners in all states, as well as an auxiliary sample that excludes individuals living in state groups that adopted or expanded equal pay laws between 1959 and 1962 (Arizona-Colorado-New Mexico, Alaska-Hawaii-Washington, Michigan-Wisconsin, Ohio, Idaho-Montana-Nevada-Utah-Wyoming). We end the analysis with the 1972 CPS to obtain more detailed state group definitions for this robustness check. All regressions include as covariates an indicator for nonwhite race, a quadratic function in age, and fixed effects for industry-occupation-state-group, industry-year, and occupation-year. See text for more details. Sources: See Figure 3.

Appendix Figure 7. The Effect of the Equal Pay Act and Title VII on Wages using Pre-Existing State Equal Pay Laws, Robustness to Excluding Industries Newly Covered under the 1961 FLSA Amendments



Notes: Figure plots the event-study coefficients from equation (1) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation within state-group. We present results for all industry-occupation-state-group cells in our main sample in blue and results when excluding industries where coverage of the minimum wage expanded under the 1961 FLSA amendments in red. These industries are retail trade and construction. The spline (equation 3) is shown for the main sample. All regressions use the covariates from model 2. Sources: See Figure 3.

Appendix Figure 8. The Effect of the Equal Pay Act and Title VII on the Distribution of Wages using Pre-Existing State Equal Pay Laws

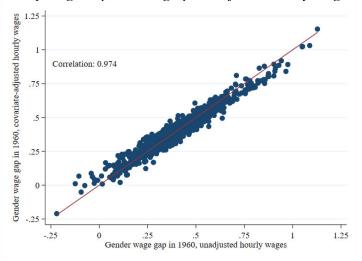


Notes: The figure plots estimates of model 2 of equation (1) where the dependent variable is the RIF for weekly log wages for women (panel A) and men (panel B). Because sample sizes are much smaller in the early ASEC years and because this is a demanding specification, we pool 1959 and 1962-1964 into a single event-study coefficient. Estimates for the 1970 Census are shown for the 10th and 25th percentiles, from a regression estimated using only the 1950, 1960, and 1970 Censuses.

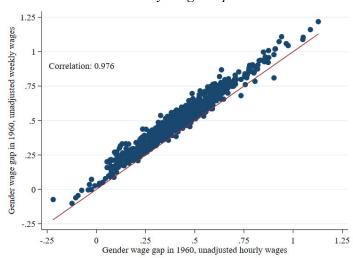
Sources: See Figure 3 notes and the combined one-percent Form 1 and Form 2 state samples of the 1970 Decennial Census.

Appendix Figure 9. Comparison of Different Measures of 1960 Gender Wage Gap

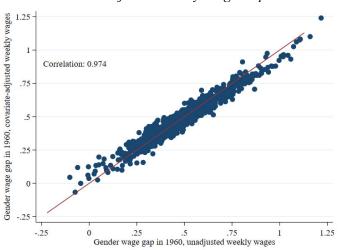
A. Unadjusted Hourly Wage Gap to Demographic-Adjusted Hourly Wage Gap



B. Unadjusted Hourly Wage Gap to Unadjusted Weekly Wage Gap



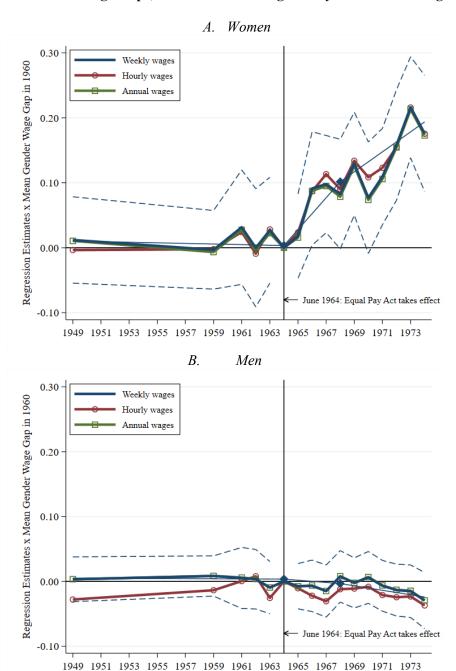
C. Unadjusted Weekly Wage Gap to Demographic and Hours-Adjusted Weekly Wage Gap



Notes: Each point represents the gender wage gap in an industry-occupation-state-group cell. We construct the unadjusted hourly and weekly wage gaps as the difference between mean log wages of men and women as described in the text. The covariate-adjusted hourly wage gap is estimated from a regression that pools women and men and includes as covariates an indicator for nonwhite race, a quadratic in age, and indicators for educational attainment (with all covariates assumed to have the same coefficient for women and men). The covariate-adjusted weekly wage gap also includes the log of usual hours worked as a covariate in the regression.

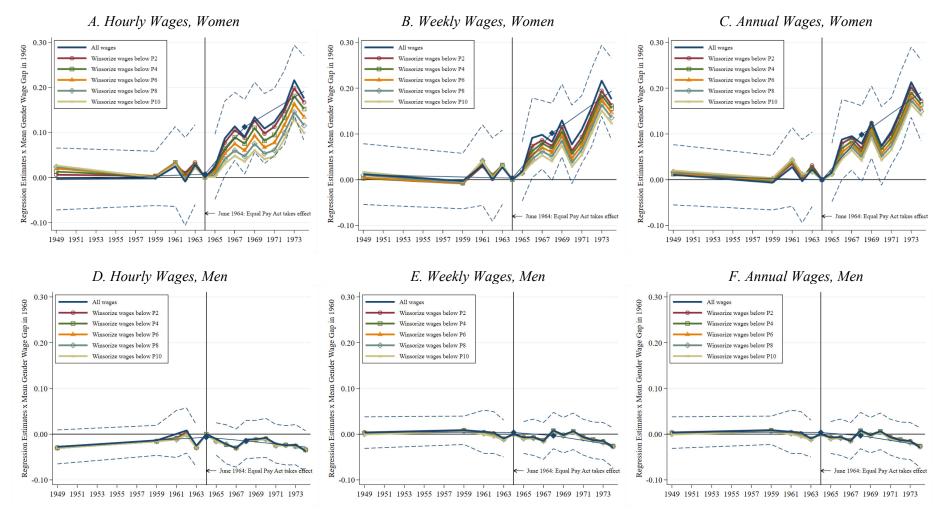
Sources: 5% sample of the 1960 Decennial Census (Ruggles et al. 2023).

Appendix Figure 10. The Effect of the Equal Pay Act and Title VII on Wages using 1960 Gender Wage Gaps, Robustness to Using Hourly and Annual Wages



Notes: Figure plots the event-study coefficients from equation (4) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation within industry-occupation-state-group. The dependent variable is either the log weekly wage (our preferred approach), log hourly wage, or log annual wage. Log hourly wage is the log annual wage earnings less log weeks worked last year and log hours worked in the reference week. The spline (equation 5) is shown for the log weekly wage. All regressions include as covariates an indicator for nonwhite race, a quadratic function in age, and fixed effects for industry-occupation-state-group, industry-year, occupation-year, and state-group-year. We include log hours worked as a covariate when the dependent variable is log weekly wages and log hours worked and log weeks worked when the dependent variable is log annual wages. Point estimates and confidence intervals are multiplied by the average gender wage gap in the 1960 Census for women (equal to 0.374). See description in Appendix A. Sources: See Figure 3.

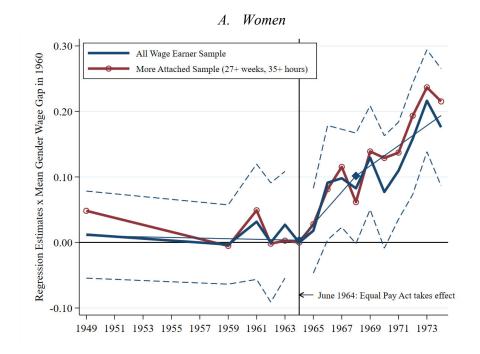
Appendix Figure 11. The Effects of the Equal Pay Act and Title VII on Wages using 1960 Gender Wage Gaps, Robustness to Winsorizing Low Wages

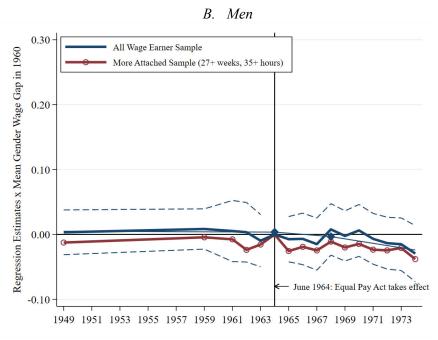


Notes: Figure plots the event-study coefficients from equation (4) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation within industry-occupation-state-group. The dependent variables are the unwinsorized log hourly, weekly, or annual wage ("all wages") and their winsorized counterparts at the indicated percentile (see Appendix Table 15 for the value in levels). The spline (equation 5) is shown for the unwinsorized dependent variable. All regressions include as covariates an indicator for nonwhite race, a quadratic function in age, and fixed effects for industry-occupation-state-group, industry-year, occupation-year, and state-group-year. We include log hours worked as a covariate when the dependent variable is log weekly wages and log hours worked and log weeks worked when the dependent variable is log annual wages. Point estimates and confidence intervals are multiplied by the average gender wage gap in the 1960 Census for women (equal to 0.374). See description in Appendix B for details on winsorizing and Appendix A for details on dependent variables.

Source: See Figure 3.

Appendix Figure 12. The Effect of the Equal Pay Act and Title VII on Wages using 1960 Gender Wage Gaps, Robustness to Robustness to Limiting Sample to More Attached Workers

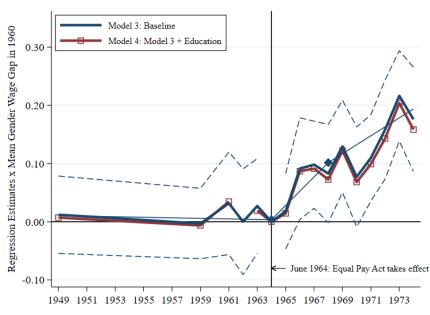




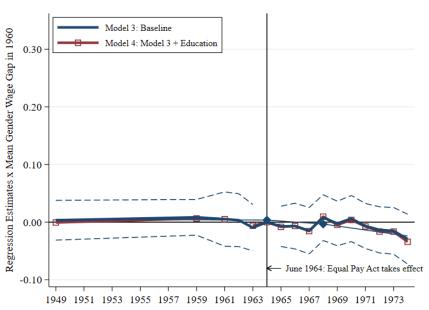
Notes: Figure plots the event-study coefficients from equation (4) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation by industry-occupation-state-group. The thin lines correspond to spline estimates of equation (5) for the baseline specification. All regressions include as covariates an indicator for nonwhite race, a quadratic function in age, log hours worked, and fixed effects for industry-occupation-state-group, industry-year, occupation-year, and state-group-year. The estimates in red are based on a sample of individuals who worked at least 27 weeks in the previous year and at least 35 hours in the reference week. Point estimates and confidence intervals are multiplied by the average gender wage gap in the 1960 Census for women (equal to 0.374). *Sources:* See Figure 3.

Appendix Figure 13. The Effect of the Equal Pay Act and Title VII on Wages using 1960 Gender Wage Gaps, Robustness to Controlling for Education



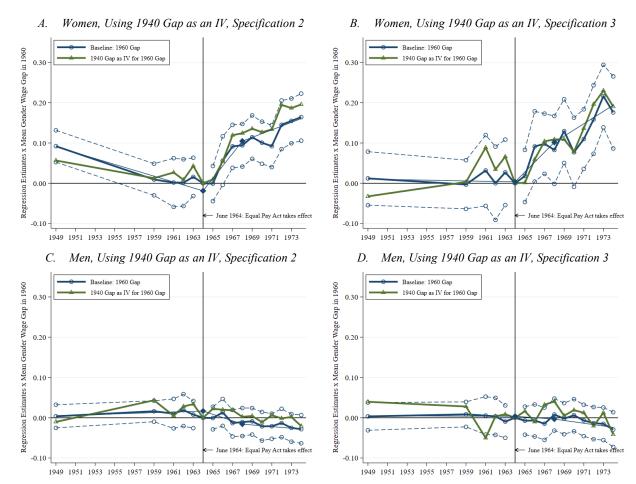






Notes: Figure plots the event-study coefficients from equation (4) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation by industry-occupation-state-group. The thin lines correspond to spline estimates of equation (5) for the baseline specification. All regressions include as covariates an indicator for nonwhite race, a quadratic function in age, log hours worked, and fixed effects for industry-occupation-state-group, industry-year, occupation-year, and state-group-year. The line in red adds years of education as a covariate. We omit earnings year 1962 from the regression because education is not available in that year. Point estimates and confidence intervals are multiplied by the average gender wage gap in the 1960 Census for women (equal to 0.374). *Sources:* See Figure 3.

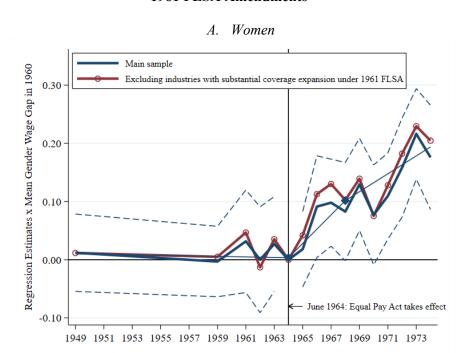
Appendix Figure 14. The Effect of the Equal Pay Act and Title VII on Wages using 1960 Gender Wage Gaps, Robustness to Using the 1940 Gender Wage Gap as an Instrumental Variable

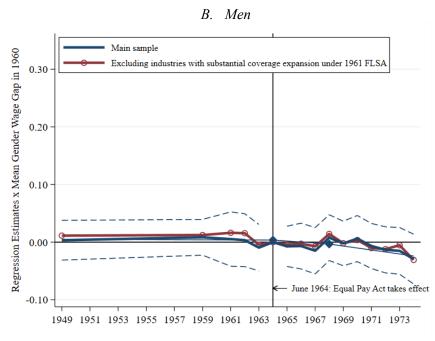


Notes: Figure plots the event-study coefficients from equation (4) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation within industry-occupation-state-group. The blue line displays our baseline results, which use the 1960 gender wage gap as the key explanatory variable. The green line displays results in which the 1940 gender wage gap is an instrumental variable for the 1960 gender wage gap. The spline (equation 5) is shown for the baseline approach. Panels A and C use the covariates from model 2 of Figure 9A, and panels B and D use the covariates from model 3 of Figure 9A. Point estimates and confidence intervals are multiplied by the average gender wage gap in the 1960 Census for women (equal to 0.374). See text for more details.

Sources: Full count of the 1940 Decennial Census, 1% sample of the 1950 Decennial Census, 5% sample of the 1960 Decennial Census and the 1965 CPS ASEC (Flood et al. 2022, Ruggles et al. 2023).

Appendix Figure 15. The Effect of the Equal Pay Act and Title VII on Wages using 1960 Gender Wage Gaps, Robustness to Excluding Industries with Coverage Expansions under the 1961 FLSA Amendments



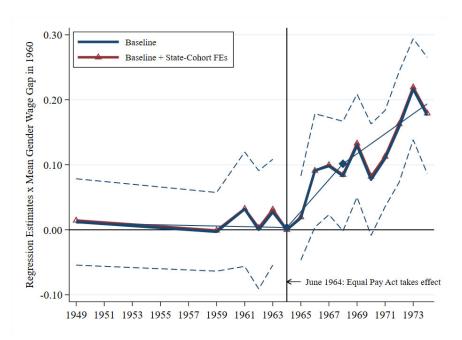


Notes: Figure plots the event-study coefficients from equation (4) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation within industry-occupation-state-group. We present results for all industry-occupation-state-group cells in our main sample in blue and results when excluding industries where coverage of the minimum wage expanded under the 1961 FLSA amendments in red with circle markers. These industries are retail trade and construction. The spline (equation 5) is shown for the main sample. All regressions use the covariates from model 3. Point estimates and confidence intervals are multiplied by the average gender wage gap in the 1960 Census for women (equal to 0.374).

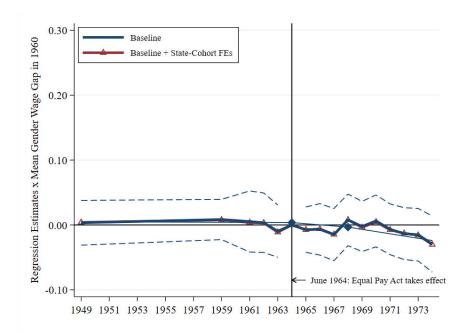
Sources: See Figure 3.

Appendix Figure 16. The Effect of the Equal Pay Act and Title VII on Weekly Wages using the 1960 Gender Wage Gap, Robustness to Adding State-by-Cohort Fixed Effects

A. Women

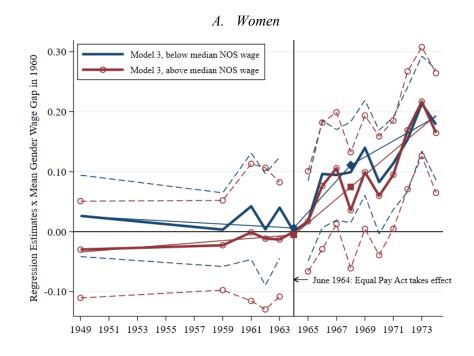


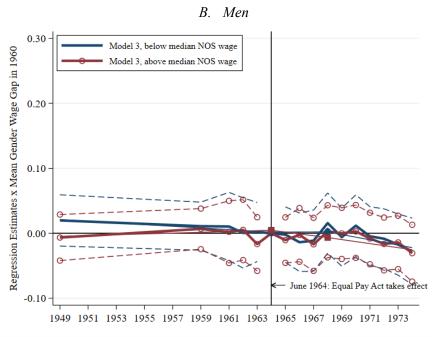
B. Men



Notes: Figure plots the event-study coefficients from equation (4) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation by industry-occupation-state-group. The thin lines correspond to spline estimates of equation (5) for the baseline specification. All regressions include as covariates an indicator for nonwhite race, a quadratic function in age, log hours worked, and fixed effects for industry-occupation-state-group, industry-year, occupation-year, and state-group-year. The line in red adds fixed effects for state-by-birth-year as a covariate. Point estimates and confidence intervals are multiplied by the average gender wage gap in the 1960 Census for women (equal to 0.374). *Sources:* See Figure 3.

Appendix Figure 17. The Effect of the Equal Pay Act and Title VII on Wages using 1960 Gender Wage Gaps, by 1960 Average Wage Level in Industry-Occupation-State-Group Cell





Notes: Figure plots the event-study coefficients from equation (4) as well as 95-percent, pointwise confidence intervals using standard errors that have been corrected for heteroskedasticity and arbitrary correlation within industry-occupation-state-group. The thin lines correspond to spline estimates of equation (5). We allow the event-study coefficients to differ based on whether an industry-occupation-state-group cell has a 1960 average wage that is above or below the median cell-level average wage. Otherwise, this specification is the same as model 3, shown in Figure 9A. Point estimates and confidence intervals are multiplied by the average gender wage gap in the 1960 Census for women (equal to 0.374). *Sources:* See Figure 3.

D. Selected Newspaper Articles

Equal Pay Act Brings Raise for Women By Elizabeth Shelton Washington Post Staff Writer The Washington Post, Times Herald (1959-1973); Sep 20, 1966; ProQuest Historical Newspapers: The Washington Post Equal Pay Act Brings Raise for Women

By Elizabeth Shelton Washington Post Staff Writer

- Cases are being settled out of court and back wages are being paid in restitution to women employes under the Equal Pay Act as a result of a Federal court decision in Reno, Nev.

Labor Department spokesmen said yesterday voluntary compliance was one of the results of the decision in the first test case, which it brought "to explore hypothesis."

The Reno case, on which a decision was handed down July 22, was listed yesterday in the Status of newsletter as one of the major advances women have made in the past year.

Court Judge District Bruce R. Thompson awarded back pay to two women laboratory analysts who had been getting less money than a more experienced male co-worker performing the same services.

The employer, Basic, Inc., claimed the male analyst was entitled to more money because he had more experi-

ence and responsibility.
Judge Thompson decided that the work the three employes were doing was substantially the same found, in addition, that the man's longer experience was not a requirement of

The Basic case brought by the Labor Department to test the act, which went into effect in July, 1965.

JUDGE THOMPSON referred in his opinion to a statement by the laboratory's division manager, when warned in 1963 of the imminence of passage of the Equal Pay Act, that "Congress would never pass such a foolish law,"

"This 'foolish law' is now

before the Court for interpretation . . .," he adding humorously:

"The case for the plaintiff was presented by a feminine attorney (Mildred Law) of the Department of Labor, resisted by a masculine attorney of the Nevada Bar, and considered by a judge who, for the purposes of this case at least, must be sexless, a possibility not apparent when the oath of office was taken and one which may bespeak the appointment of older judges."

His holdings covered the points that wage differentials are permissible only for the actual hours during which working conditions and responsibilities differ "paper" that a classification unrelated working conditions true does not justify a differential.

He ruled that the burden of proof of the exceptions is on the employer.

The two women who won a raise and back pay were Ann Jones and Jo Barredo who work in the Basic plant laboratory Gabbs, Nev.

THE OUTCOME of the appropriately named "Basic case" was reported here in the newsletter of the Interdepartmental Committee on the Status of Women and Citizens' Advisory Council.

The newsletter also reported some new interpretations of the Office of Equal Employment Opportunity affecting job equality, one that employers may not refuse to consider women for jobs that require travel. Pay Is Up; Will Jobs Go Down? The Washington Post, Times Herald (1959-1973); Jun 14, 1964; ProQuest Historical Newspapers: The Washington Post pg. F14

Pay Is Up; Will Jobs Go Down?

THE EQUAL PAY ACT may be a mixed blessing for some of the women workers whose salaries it is supposed to boost.

Instead of getting higher pay for the job, they may not get the job at all.

As the head of a new Virginia manufacturing plant put it: "We had planned to employ women in some of our light manufacturing jobs, but we decided against it because of anticipated complications arising from the equal pay law."

An Ohio manufacturer said his plant would downgrade some job classifications for women and reassign higher-level, higher-paying duties to men.

BUT they were in the minority of 335 employers surveyed by Prentice-Hall about expected results of the law that went into effect last week.

Many employers said they would hike women's wages to bring them into line with men's. Some firms said they would equalize salaries now, but in the future would segregate male and female job classifications.

In the long run, thanks to the example of the Federal Government's drive to wipe out discrimination against its own women employes, the Equal Pay Act may be an easing of promotional channels for qualified women, the researchers found. Women Reap Crop of Gains
The Washington Post, Times Herald (1959-1973): Nov 14, 1964:

ProQuest Historical Newspapers: The Washington Post

pg. A18

Vintage Years

Women Reap Crop of Gains

THE STATUS of American women has improved more over the last three years than at any time since they got the vote in 1920, the head of the Women's Bureau of the Department of Labor said last night.

Mary Dublin Keyserling traced many improvements in the distaff lot to the establishment in 1961 by President Kennedy of the Commission on the Status of Women.

Since the Commission issued its findings in October 1963, Mrs. Keyserling told the American University Faculty Women's Club, these "significant gains have been won":

• Passage of the Equal

Pay Law, which went into effect last June 11.

• Appointment by President Johnson of 68 women to top Government positions, plus the appointment of 311 women and promotion of more than 1230 others by executive agencies to jobs at salary levels of \$10,000 and above.

• Efforts by the United States Employment Service to encourage use by employers throughout the country of hiring specifications based exclusively on job performance factors.

 Passage of the Civil Rights Act, with its Title VII that prohibits sex discrimination in employment.

 Establishment by 33 governors of State Commissions on the Status of Women.

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Women Losing Battle for Jobs

The Washington Post. Times Herald (1959-1973): May 9, 1964:

ProQuest Historical Newspapers: The Washington Post

pg. C6

Women Losing Battle for Jobs

United Press International

told America's career girls last week that they are losing the battle of the sexes. On just about every job front, it said, men are get-

THE LABOR Department

ting ahead of the fairer sex. There are still few women doctors, engineers and accountants-work traditional-

ly performed by men-while even greater numbers of men are invading the female domain as librarians, social workers and grade school teachers. Unless women try harder.

they will find the competition even tougher in the decade ahead, Labor Department experts said in the April edition of the monthly Labor Review. They did not say how this

will affect President Johnson's campaign to put more women in high-level government jobs. Mr. Johnson himself admitted last week that qualified "can-do" women are hard to find.

"Despite the publicity given the growing acceptance

of women in the occupations once reserved exclusively for men." the experts said, some old - fashioned obstacles stand in the way of better

jobs for girls.

in the office.

women constantly leave to get married and have babies. Besides, women rarely plan a lifetime career because they expect to get married —and nearly all of them do. And some bosses simply do not like to have women

Private employers are

said to prefer men because

for women performing the same jobs as men, despite the equal pay act of 1963. A typical male doctor, for example, earned \$14,784 in 1959 but his female counterpart took in just \$6562. The picture in other fields, too,

Pay is still often lower

"The increasing competition with men for jobs is a

very real problem for college women," the report said.

has not changed much since

Blocked due to copyright. See full page image or microfilm.

By Harry Naltchayan, Staff Photographer

TENNESSEE'S Carolyn Adair, alternate Maid of Cotton, wears Maurice Rentner's casual cotton gown with red plaid skirt, black plaid bodice and kerchief in Jelleff's Maid of Cotton fashion show Thursday.

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States Boost Women's Status More Than U.S. By Winzola McLendon Washington Post Staff Writer The Washington Post, Times Herald (1959-1973); Feb 24, 1965; ProQuest Historical Newspapers: The Washington Post

States Boost Women's Status More Than U.S.

By Winzola McLendon Washington Post Staff Writer

A great deal more is being done to improve the status of women at the state level than at the Federal level, Secretary of Labor Willard Wirtz said yesterday.

The state commissions are

spearheading drives for better state standards of labor, Wirtz told a news conference. And among the improvements the states are interested in are the Government's goals of \$1.25 an hour, plus premium pay for overtime and equal-pay-forequal work laws.

Wirtz said the growth of the state commissions on the status of women "has been almost phenomenal" and that the number of commissions has tripled (from 13 to 39) in the past year, with even more states expected to follow suit.

THE COMMISSIONS were discussed by Wirtz following an Inter-Departmental meeting on the Status of Women.

Esther Peterson, the President's assistant who co-ordinates the work of the Inter-Departmental Committee and the Citizens' Advisory Council on the Status of Women (both are outgrowths of a Presidential Commission on the Status of Women established by President John F. Kennedy to look into problems of discrimination against women), also attended the news conference and said there would be a meeting here in July of the state commissions on the status of women and the government bureaus.

Wirtz then noted that the state commissions are taking effective leadership in their states, and are making efforts in behalf of both men and women employes who do not come under the wage regulations set down by the Federal Government.

M A R Y KEYSERLING, head of the Women's Bureau, reported on labor statistics involving women, noting that more than half the women working today are in the age group of 45 to 54

and 68 per cent of this group are college graduates.

Before World War II, said Mrs. Keyserling, the majority of working women were in the 18-to-24 age group.

She also noted that of the women who have five years or more of college education, 81 per cent are gainfully employed. But when it comes to wages, Mrs. Keyserling said, women are not faring so well. The median earnings of women are only 58 per cent of what the men are earning.

Commission Will Enforce Sex Clause In Title VII With 'Common Sense'

By Elizabeth Shelton Washington Post Staff Writer

The Washington Post, Times Herald (1959-1973); Nov 24, 1965;

ProQuest Historical Newspapers: The Washington Post

pg. C3

Commission Will Enforce Sex Clause In Title VII With 'Common Sense'

By Elizabeth Shelton Washington Post Staff Writer Common sense will be the

rule in interpreting Title VII of the Civil Rights Act, chairman Franklin D. Roosevelt of the Equal Employment Opportunity Commission said Monday.

still legal under the Title's ban on sex discrimination to advertise for, and to hire, a masseur for a men's Turkish bath and a masseuse for a women's establishment.

Roosevelt called a press

He said this means it is

conference to make public new guidelines prepared by the Commission for the use of employers. He said he did not foresee any "revolution in job patterns," such as more male nurses and secretaries, as a result of the

interpretations.

THE COMMISSION has asked Congress and the state legislatures to examine all their "protective" laws designed to guard women against danger and exploitation.

The Commission said its study of these laws demonstrated that many are irrelevant to present-day needs of women and are capable of denying equality of opportunity to them. The Status of Women

Commission will make recommendations to the state legislatures where the protective laws are found to have lost their rationale. Where compliance is not achieved voluntarily

through conciliation, with the Commission acting as the conciliator, it will be up to individual employes and would-be employes to bring suits in Federal Court. THE COMMISSION'S gen-

eral counsel, Charles Duncan, told of an effective series of talks with a large shoe warehouse company.

The company previously maintained separate work lines, with jobs labeled as "men's" and "women's." The highest paying women's job was equal in salary to the lowest paying men's job.

The "men's" jobs of crating, packing, unpacking and lifting are now open to women and the "women's" jobs of inspecting, labeling and record-keeping are now open to men.

The separate seniority lines/were combined when the jobs were opened up to both sexes.

ROOSEVELT said "confidentiality" prevented his listing specific cases but he told of a company with a policy of firing women who got married. One of the guidelines issued Monday states that a

company may not fire women who marry unless it also has a policy of firing men who marry.

Other provisions include: Sex will be considered

- a bona fide occupational qualification in the case of an actor or actress but the Commission will not accept refusals to hire based on general assumptions such as that the job change rate is higher among women than among men.
- It is unlawful to maintain separate promotion and seniority lines, or to classify jobs as "male" or "female."
- Help wanted ads may not specify "male" or "female" unless there is a bona fide occupational qualification, such as masseur or actress.
- Employment agencies may not discriminate against any individual because of sex. Roosevelt was asked about Kelly Girls and male chorus lines. Here he said that the large national employment agencies are open to both males and females.

(Later his associate, Her-

man Edelsberg, executive director of the Commission, jokingly told the press that "there are people on this Commission who think that no man should be required to have a male secretary and I am one of them.") • It is legal to list "male" or "female" or "Mr.,

Mrs. and Miss" on a job application form, providing the information is sought a non - discriminatory purpose. The Commission will seek the opinion of the Administrator of the Wages

and Hours division of the Department of Labor when complaints that equal pay is not being received for equal work are filed. Roosevelt, in a prefatory

statement, said the Commission's main business is to enforce compliance when discrimination is due to race. He said about 83 per cent of the complaints received thus far deal with racial discrimination. About 15 per cent deal with dis-

crimination due to sex.

Women Earning Equality

By William J. Eaton

The Washington Post, Times Herald (1959-1973); Jun 17, 1965;

ProQuest Historical Newspapers: The Washington Post

In Paychecks

Women Earning Equality

By William J. Eaton United Press International

A little-noticed law is taking sex out of the paycheck for 28 million American workers.

The signs are that industry generally is complying with a year-old statute designed to prevent wage-scale discrimination against women.

But a Labor Department study indicates that labormanagement agreements often contain pay provisions that unduly favor men.

These were outlawed June 11 as the final stage of the Equal Pay Act of 1963 went into effect. A two-year period from the date of passage was allowed to permit changes in labor contracts affected by the law.

About 8 million women are among the 28 million workers covered by the new statute. The equal pay clause also bars discrimination against men.

ITS MAIN standard declares: "The employer must not discriminate on the basis of sex within his establishment by paying to employes of one sex wages at rates lower than he pays employes of the opposite sex for doing equal work on jobs requiring equal skill, effort and responsibility which are performed under similar working conditions."

In a report sent to Congress last January, the Labor Department said it had received reports on 159 establishments checked by wage-hour division investigators. About 10 per cent said women's wages already had been raised.

"The comments received thus far indicate that generally the new standard has been accepted," the Department said at the time, "To a considerable extent, reports of discrimination appear to involve differences of opinion whether the jobs held by men and women are substantially the same."

ASSISTANT Secretary of Labor Esther Peterson, who might be called the "Mother of the Equal Pay Law," told UPI the legislation has had a clear impact on pay practices.

"And it has not been a terrible burden as some businessmen claimed it would be," she said. "There have been disputes over its application, based mainly on claims of superior ability of men over women. But 1

think most of them are what I call nitpicking."

A Labor Department

A Labor Department spokesman said violations seemed to occur most often in large department stores, banks, airline reservation offices, chain stores and other firms where men and women customarily perform similar work

Secretary of Labor W. Willard Wirtz has filed a suit against a Texas wholesale grocer to force him to raise the pay of a single woman victim of alleged wage discrimination.

Investigators said they found that \$6,000 in wages were withheld in violation of the Equal Pay provision during the first six months of enforcement. One firm voluntarily paid \$25,000 when the wage-hour division began checking for possible discrimination.

THE LAW specifically exempts lower pay rates if the employer can show that the differential is based on a seniority system, merit program, piecework or any factor other than sex.

The Department has started a study of union contracts to see if they contain provisions that discriminate against women. Its early findings indicated there were differentials between men and women in wage

rates, welfare and pension plans, sick leave, rest periods and seniority provisions.

In some cases, the study said, unions negotiate larger wage increases for men than for women. In one case, agreement provided loss of seniority and possible dismissal for any female employe who got married.

AND THE Department reported that one contract, which had a clause adopt-

ing the principle of equal pay for equal work, also had a provision which said: "During the life of this agreement, male employes shall be paid a minimum rate of \$2.59 an hour; female employes shall be paid a minimum of \$2.35."

This clause — presuming men and women performed the same work under similar conditions on jobs requiring equal skill, effort and responsibility — is now illegal.

Employers who violate the provisions may be fined up to \$10,000 for the first offense and may be sent to prison for any succeeding violations.

Employes may sue for unpaid wages and an equal amount as damages or apply to the Wage-Hour Administration for help in collecting pay due under the Equal Pay Law.

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Flexing a Muscle

Women. Government, Unions Increasingly Sue Under Equal-Pay Act

Law, Passed Ten Years Ago And Recently Broadened,

By JAMES C. HYATT Staff Reporter of THE WALL STREET JOURNAL Today's public-service announcement from the Labor Department:

Announcer: "High noon in Gotham City. . . In a deserted warehouse Batman and Robin are shackled to a post-desperately struggling to break loose! Inches away, a time bomb ticks ominously . . . suddenly, a crash of

Robin: "Holy breaking and entering! It's

Batman: "Quick, Batgirl, untie us before it's too late!" Batgirl: "It's already too late. I've worked for you a long time, and I'm paid less than

Robin: "Holy discontent!" Batgirl: "Same employer, same job means

equal pay for men and women. Batman: "This is no time for jokes, Bat-

Batgirl: "It's no joke-it's the Federal Equal Pay Law."

The radio message is corny, but it's risky for employers to scoff. Because for thousands of women, the principle of equal pay for equal work is taking on real dollar-and-cents meaning as a result of federal lawsuits, private litigation and just plain protests from the female

Some Victories For Women

For example: –A few months ago, Andrea Logan received \$1,750 in back pay from the Chesapeake & Potomac Telephone Co. in Washington as part of a massive \$7.5 million equal-pay settlement involving several federal agencies and the Bell System. Mrs. Logan, who works as a "frameman" connecting telephone equipment in a central office, says her pay has increased by about \$45 a week, to \$198. The specific reason: added allowance for seniority. She's getting credit for her entire seven years with the company rather than just her 18 months on the present job.

-Some 350 women at a General Electric Co. plant in Fort Wayne last month began receiving raises totaling \$250,000 a year plus an estimated \$300,000 in back pay in the settlement of an equal-pay lawsuit brought by the International Union of Electrical Workers.

-Faculty members at the University of Louisville have negotiated about \$60,000 a year in pay raises designed to correct inequities for 41 women. Inez Webb, a professor of home economics who has taught at the school for 27 years, is getting about \$1,000, or nearly 10%, more in annual pay. Such changes, she suggests, "will make a difference" to young omen who seek teaching jobs and scrutinize

male vs. female pay comparisons. The government, unions, women's groups and individual women are all increasingly measuring employer practices against the demands of the Equal Pay Act passed by Congress in 1963. That law, in essence, requires the same pay for the same work done by men or

\$72 Million, 140,000 Workers

Federal enforcers, in particular, are bearing down harder. In the early days of the law, the Labor Department was finding that employers owed back-pay totaling \$2 million to \$3 million a year. But court decisions broadening the scope of the Equal Pay Act helped boos the sum to \$14.8 million in the fiscal year ended June 30, 1971. And the Labor Department's finding mounted to \$18 million in the year just ended. In all, since the Equal Pay Act was passed, the department's investigations have found more than 140,000 workers, most of them women, were owed more than \$72 million.

This figure will presumably swell further. Dozens of new lawsuits are likely to be filed, by both the government and private plaintiffs, as the result of recent broadening of the law. Last year, an additional 15 million workers in executive, administrative, educational and outside-sales jobs were brought under its coverage; most hourly paid workers were already

Yet after nearly a decade of enforcement effort, there remains considerable resistance to the idea of equal pay for equal work. Francis W. McGowan, director of the Labor Department's division of equal pay and employment standards, says that society still has "this widespread belief that when women work it isn't

worth as much as when men work." Without question, a huge gap still exists between the wages of male and female workers. In 1971, federal figures show, women working full-time earned \$5,593, or 60%, of the \$9,399 median earnings of men. Differences of that

magnitude have existed since the mid-1950s. Much of the gap, of course, has nothing to do with deliberate refusal to equalize wages. Men often have more work experience than women of the same age. Men often receive more job training and education. With women excluded from many higher-paying jobs, an oversupply of female applicants for less desirable positions tends to depress their wages. In such

Please Turn to Page 18, Column 1

Equal pay might not have come to the factory, but it has come to the tennis

A Victory in Tennis

For the U.S. Open Tennis championships at Forest Hills next month, Bristol-Myers has agreed to donate enough prize money to equalize the purses and make first prize for both men and women \$25,-000. In last year's open, male winner Ilie Nastase of Rumania earned \$25,000 for his victory while women's champ Billie Jean King received only \$10,000.

Women professional tennis players long have grumbled because they receive smaller prizes in major tournaments. Such stars as Mrs. King have threatened boy-

What's News-

Business and Finance

NONSUMER PRICES in July rose ✓ at a seasonally adjusted annual rate of 2.4%, down sharply from June's 7.2% and the narrowest rise in seven months. Food prices, held in check by Has Yielded \$72 Million the freeze, rose an unexpectedly strong 6%, but well below the 10.8% adjusted annual increase in June. Nixon aides, Batman and Robin and Batgirl however, said the initial weeks of the post-freeze Phase 4 controls brought a substantial surge in prices. (Story on Page 3)

> Durable goods orders in July fell 0.7% to a seasonally adjusted \$42.71 billion, down from the upward-revised \$43.02 billion in June, when the rise was 1.3%. The Commerce Department, in a preliminary report, said the decline was primarily due to fewer transportation equipment and primary metals bookings.

(Story on Page 3)

The United Auto Workers picked Chrysler Corp. as the strike target for this year's contract negotiations with the "Big Three" auto makers.

(Story on Page 2)
* * * The Teamsters union said it will abandon efforts to organize farm workers in the Delano, Calif., grape fields, a move that may restore some stability to a bitter jurisdictional dispute with

the United Farm Workers. (Story on Page 5)

Mutual funds in July posted their first monthly net sales position in 18 months as investors bought shares valued at \$363.7 million. Gross redemptions totaled \$356.6 million, leaving a net sales position of \$7.1 million.

(Story on Page 4) Short interest on the New York Stock Exchange fell 2,181,894 shares to 17,959,611 in the month ended Aug. 15, and dropped 569,943 shares to 3,885,607 on the American exchange.

Gold's price slumped sharply on international markets, while the U.S. dollar posted gains against most major currencies. At London, the afternoon bullion quote dropped \$3.80 to \$105.70

an ounce from Monday.
(Story on Page 6)

Job hazards for employes must be eliminated by employers wherever possible and by more than just providing protective equipment, a federal safety court ruled in an American Smelting & Refining case.
(Story on Page 4)

* * *

Western Union Corp. said it plans to trim capital outlays next year to \$200 million from as high as \$275 million set earlier. It said it would also lay off

about 1,000 employes.
(Story on Page 9)

* * * General Motors signed an agreement with Engelhard Minerals & Chemicals for precious-metal catalysts used to reduce auto emissions.

(Story on Page 11) U.S. Financial, the troubled real estate developer, described in court papers an alleged scheme by former management to finance transactions that resulted in millions of dollars of phony profits for itself and its units.

Signal Cos. filed suit to enjoin a group of international investors from proceeding with an offer to acquire up to 1.5 million of its shares. (Story on Page 9)

Penn Central's rail unit narrowed \$29.8 million the year before. (Story on Page 4)

Soviet oil and gas resources in Siberia and the Arctic would be developed with the cooperation of Western oil companies if suitable agreements could be reached, Russian officials indicate. The Soviets are interested in production and service contracts, not merely in exporting oil and gas.
(Story on Back Page)

Texas Eastern asked the Federal annual increase in natural gas rates to wholesale customers, as of Sept. 14.

(Story on Page 5)

Lockheed's shipbuilding unit must refund \$42.2 million to the U.S. for warship contract overpayments but can defer repayment until an appeal is decided, the Navy ruled.

(Story on Page 8)

Markets—

Stocks - Volume 11,480,000 shares. Dow Jones industrials 857.84, off 9.56; transportation 152.86, off 1.62; utilities 95.03, off 0.13.

306.87, up 1.23; spot index 323.63, off 2.33.

TODAY'S INDEX

Annual Meeting Briefs 23 ond Markets 20 ommodifies 21 ividend News 19 arnings Digest 19 ditorials 14 inancing Business 21

World-Wide

AGNEW ACCUSED the Justice agency of a

move to indict him through smear tactics. The Vice President charged that some department officials have mounted "a clear and outrageous" campaign to influence the grand jury investigating allegations that he accepted kickbacks from contractors while governor of Maryland and, for a time, during his vice presidency. Reasserting his innocence, Agnew challenged Attorney General Richardson to open a new grand jury investigation to discover who's leaking "smear publicity" about him. Richardson responded with a promise to pursue "any possible lead" that might identify the source of the leaks, but for the present he apparently rejected Agnew's request for an inquiry.

In San Clemente, Calif., a presidential spokesman said it was "totally false" to assume Agnew might be asked to resign. A Maryland county grand jury handed down one indictment on four counts of conspiracy in connection with last year's "Salute to Ted Agnew" dinner. The state attorney said the indictment could involve more than one person, but identity of those charged won't be made

public until at least tomorrow. The case revolves around admissions that some \$50,000 for the fund-raising dinner was lent by the Finance Committee to Re-elect the President, while reports filed with the state attributed the contributions to individual donors.

COX HAS RECEIVED requested ITT files from the White House.

A spokesman for Special Watergate Prosecutor Archibald Cox confirmed that the Inter- urged customers to "tell your fir-ends-ahh" national Telephone & Telegraph data had been released. Cox had described the file as of the utmost importance to his investigation of the ITT antitrust settlement. The case played a major part in the Senate confirmation hearings on the nomination of Richard Kleindienst as Attorney General. It cropped up again at the gust. Within seven months and 8,000 miles, its training in law. Senate Watergate panel hearings when a White existed that could link President Nixon to the 1971 settlement.

Disclosure of the file's release came on the eve of the court debate on Cox's demand for tapes of presidential conversations about Watergate. Nixon has refused to obey a subpoena for the tapes.

Sen. Mondale will seek to impose control over federal funds spent at the private homes of any President. The Minnesota Democrat said the Watergate scandal has "brought to the surface a variety of improper expenditures by the White House using monies appropriated by the White House annually with almost no re- their opinion, is a turkey. strictions on how it is spent.

Lawmen pressed the search for Edwin M. Gaudet, a former New Orleans policeman vestigating" a possible conspiracy to kill Nixon dian safety and antipollution standards. during his New Orleans visit Monday. Gaudet wasn't thought connected with that plot.

\$180 million to \$200 million in military and eco- and concludes most must be satisfied. nomic aid and indicated it would request re-Ambassador Un Sim said in Washington the Lon Nol government felt it had been abandoned day. In another development, senior U.S. deal when it dropped the Corvair.) sources said the military situation in Cambodia new battle for Phnom Penh. Skirmishes were reported north and south of the capital.

Prince Souvanna Phouma was said to be in full iles, crossed into Laos from Thai territory.

Chilean leftists clashed with anti-Marxists in downtown Santiago, with two persons reported killed and at least six wounded. The for a 27-day-old transport strike and to proits loss in July to \$22.3 million from labor union district office in Santiago and dy. two of the cars steamed up in front of Canada's namited a rail line.

> cluding President Papadopoulos' would-be as- safety investigation of the Firenza. sassin. Alexander Panaghoulis, who was don't regret and I don't repent for what I did." dent of the new Greek republic.

Skylab's crew photographed a giant bubble in the sun's outer atmosphere, and scientists Power Commission for a \$97.1 million called it the most significant solar event in this mission. The bubble was caused by an explosion on the back side of the sun and was about three-fourths the size of the sun itself, according to Astronaut Alan Bean.

Growing indications of arson in the 20 major forest fires burning in five Western states prompted the Forest Service to bring in special lawmen to investigate. Hundreds of additional firefighters from around the country were pulled into the effort to control the blazes that spread across 130,000 acres, or more than 200 square miles, of timber and brushland.

Commodities - Dow Jones futures index harov, a developer of the Soviet H-bomb and Tuesday"), GM made him an offer he couldn't an outspoken champion of civil rights, said in refuse: in return for his Firenza and about Moscow that "detente without democratization \$380, he got a new Astra, another GM model. ... would mean a capitulation to our real or ignoring all other aspects of the problem."

Consumer Prices Up

CONSUMER PRICES in July rose to 132.7% of the 1967 average from 132.4% in June, the Labor Department reports. (See story on page 3.)

You Weren't So Happy With Corvair or Edsel? Step Into a Firenza

Owners of the Auto in Canada Form Club to Tell of Woes; But GM Says It's No Lemon & them.

By JACK L. BRITTON

Staff Reporter of THE WALL STREET JOURNAL TORONTO-When General Motors of Canada introduced its sporty subcompact Firenza auto here three years ago, radio commercials about the car. But Robert Moore went them one better. He formed a Firenza club to spread the word about the car.

transmission and its speedometer each broke stopped importing the British-built car, and the resale value of used Firenzas plummeted.

In disgust, Mr. Moore and some friends founded the Dissatisfied Firenza Owners Asso- for "abusing his discretion." ciation. Today, five months after its founding,

"A Sporty Performer"

it hailed the car as a "sporty looking performer that is comfortable, economical and fun Nixon. Gaudet escaped Monday from a northern New Mexico commune where Secret Ser- with only 12,800 Firenzas sold in two years in

GM hotly denies that the car's a lemon. It says that more than 90% of the Firenza owners Cambodia appealed to the U.S. to continue haven't registered complaints about their cars

sumed bombing raids if North Vietnam steps car was discontinued here GM began offering a stantial tax savings.) up support for insurgent forces. Cambodian \$250 certificate to owners, applicable to their purchase of any new GM model. (GM's offer wasn't unique-its U.S. parent made a similar

That payoff isn't enough for many of those has improved substantially but warned of a stuck with Firenzas, however. The cars cost \$2,500 to \$3,200 new, and a dealer here figures they're depreciating at twice the rate of other Laos executed many rebels after Monday's models. So some owners are seeking reparaattempted rightist coup and said others would tions. Four of them—with the backing of the be shot without trial as soon as interrogation Dissatisfied Owners and another consumer was completed. The neutralist government of group, the Automobile Protective Association -recently filed a \$5 million class-action suit control following the abortive overthrow. The against GM. The plaintiffs-who claim they've government reportedly has protested to Thui- been offered only about \$800 on trade-ins for land because the rebels, all believed to be ex- their year-old Firenzas-are asking GM to make up the estimated loss in the cars' resale

A Trip to Parliament

are sponsoring protest picnics and Firenza cav- nied. test the policies of Marxist President Salvador alcades to dealer showrooms and other sensi-Allende. Earlier, terrorists firebombed a tive spots (on a cavalcade to Ottawa last April, Greece freed most political prisoners, in ernment's Department of Transport into a

charged with trying to blow up Papadopoulos' by a university professor and recently comcar five years ago, said as he was released, "I pleted, didn't find any defect in the design or some procedures for the increase. construction of the Firenza that would affect He called Papadopoulos a "ridiculous colonel." its safe operation. However, it concluded that Papadopoulos ordered the amnesty Sunday the quality of workmanship on the car "ap- setts is hit with the accumulated earnings tax. of more than \$60 million. shortly after he was sworn in as the first presi- peared to be inferior to that to which Canadian motorists have become accustomed."

An Owner's Hope

renza parked with the engine running, "hoping is doing this, he must disprove the charges or against hope someone will steal it." (Helen pay a penalty tax. Naken figures no one will steal her Firenza be-And Sam Rabba planned to set fire to his Firhe could be fined \$5,000 for polluting the air.

were extreme. After his car went in for its 16th sonal taxes by failing to declare a dividend. A Soviet physicist warned that if the West or 17th set of repairs last May (he doesn't re-2.86, OII 1.62; Utilities 95.03, off 0.13.

accepts detente on Soviet terms, it might face member exactly how many visits it made to the shop, but quips that it seemed like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings indicated a second like "every commodities. — Down Tongs fittings in the second like "every commodities. — Down Tongs fittings in the second like "every commodities. — Down Tongs fittings in the second like "every commodities. — Down Tongs fittings in the second like "every commodities. — Down Tongs fittings in

Mr. Moore's grateful for that, but he figures "either in cash or the same as I got."

Tax Report

Of Federal and State Tax Developments

THE TREASURY IS URGED to publicize its private meetings with a tax lawyer group. The American Bar Association's tax arm has considerable influence on federal tax policies and regulations, and the manner in which it wields its power is troubling an increasing number of critics. Ira Tannenbaum, a Washington attorney who specializes in public interest tax law, claims the ABA's influence is exerted mainly in private and tends to favor special economic interests rather than the interests of the public at large. That's because ABA tax specialists usually are lawyers for big corporations and wealthy individuals.

Tannenbaum points out that ABA tax representatives meet privately with Treasury and IRS officials and staff members several times a year, often at the government's request, to discuss current tax topics. He feels the meetings should be made subject to a federal law Hallmark imprint, since propriety, after all, which requires that meetings held at the government's instigation between government rep- more, Hallmark turns out one of every four resentatives and private advisory groups be public and their minutes open to public inspection. In addition to opening the meetings, Tannenbaum says, the Treasury should encourage public interest tax groups to participate in

Tannenbaum stated his views recently in a letter to the Treasury. The agency replied it is studying the matter but doesn't now believe the meetings should be open.

LONG SHOT: An IRS agent tries to buck a rictly enforced tax agency policy.

He deducted the cost of going to law school, oting that Treasury regulations permit a tax- means accidental. In fact, it is in keeping with payer to deduct educational expenses incurred 'maintaining or improving' his job skills. A But not the good word. Mr. Moore, a hospilot of people, including many IRS agents, feel tal worker, bought his little Firenza last Au- agents would do a better job if they had more

But while deductions for skill improvement House memo was released that said documents three times, and three sets of spark plugs training are permitted, tax regulations bar deburned out. The ignition system failed, as dld ductions where the education qualifies the taxthe headlight switch, the windshield wipers and payer for a new vocation. Even though law the locks on the doors. The paint (which Mr. school presumably made the man a better Moore describes as "lemon yellow") began agent, it also enabled him to switch careers peeling off the front fender. Meanwhile, GM agent's deduction.

THE TAX COURT RAPS an IRS bureaucray

To encourage everyone to pay taxes on the group has nearly 900 members across Can-time, federal tax rules contain a lot of deadada. They're all telling their fir-ends-ahh (and lines for making certain payments and taking block the \$1 million contingency fund given to anyone else who'll listen) that the Firenza, in other actions related to them. The IRS is supposed to enforce these deadlines, but it also may extend a deadline if the taxpayer has a When GM launched its Firenza here in 1970 good reason for failing to meet it.

felt the reason he hadn't applied for an exten- \$350 million (with estimated profits of \$25 milsion of a tax deadline before it passed was lion), the company's freedom from outside invalid. He personally didn't know about the terference has let it spend its money in what deadline, and the accountant who had handled might be termed the pursuit of good taste. vice agents had gone to arrest him on a federal Canada—GM pulled the auto off the market. It warrant. Meanwhile, Secret Service officials said it was doing that because of the high cost deadline passed without having made sure has said on more than one occasion. And what said in Washington that "we're still actively in- of bringing the Firenza up to stiffened Cana- Lemly met it. Lemly finally applied for the ex- the Halls consider good taste seems to go well tension less than six months after the deadline beyond the promotion of a public image of passed and about a month after concluding ne- quality-to the point that its "tasteful" pracgotiations about his taxes with an IRS agent. tice of what might be called good corporate cit-However, despite repeated appeals to the IRS izenship is considered by many publicly owned district director in Nashville, the director stuck companies to be daring in the extreme, if not to the view that Lemly had been negligent. downright foolhardy. But to calm the unhappy buyers, after the (Missing the deadline meant he missed a sub-

But the Tax Court concluded Lemly's excuse was legitimate and he was entitled to the tax saving.

revenue for New York State in April through July, the first four months of its fiscal year, than in the like period a year ago. Alcoholic beverage tax receipts fell 8%; estate tax receipts declined 14%. (Total state tax collections

HERE'S HOW NOT TO PROVE your trip abroad was mainly for business. A California couple, both art teachers, tried to deduct the cost of a six-month tour of Europe. They claimed their ability to teach had been enhanced by visiting art museums and schools. But they didn't keep any notes or diaries during the trip and they prepared an itinerary pur-What's more, the two groups are collecting porting to justify the excursion as a business fighting erupted as an estimated 500,000 Chile- and publicizing owners' gripes (they claim to trip only after they returned and learned the ans participated in walkouts to show sympathy have nearly 1,000 reverse testimonials) and IRS was auditing their returns. Deduction de-

> THE ODDS YOU'LL BE INDICTED for tax fraud are rising. Some 1,186 people were in-Parliament buildings, to their owners' delight). dicted for tax evasion and related crimes in fis-And the groups successfully pressured the gov- cal 1973 ended June 30. That continues a steady rise from 1,085 in 1972, 956 in 1971 and 924 in 1970. The IRS credits improved administration That three-month investigation, conducted in its criminal division, formation of additional investigative teams and computerization of

A REAL ESTATE COMPANY in Massachu-

The tax is a club the IRS uses to keep owners of small companies from manipulating tinue year after year to operate what is said to their personal tax liability by failing to declare Some dissatisfied owners have taken things dividends to themselves and letting profits pile into their own hands. There's Debbie Bern- up beyond the company's legitimate business stein, for example, who says she leaves her Fineeds. If the IRS concludes a company's owner

The Massachusetts concern claimed it had cause it's always in the shop. It has gone accumulated its profits because it planned a through four drive shafts in 4,000 miles, and major expansion of its facilities. But it wasn't "I've put more mileage on dealer courtesy able to show the IRS any "specific or definite" cars than I have on my own car," she says.) expansion plan. The Tax Court further found "scarcely any evidence" that the company's enza at a recent owners picnic, until he learned board had made a forecast of how much money the expansion would require. The coup de Mr. Moore, the founder and president of the grace, however, was the IRS's revelation that owners group, admits his troubles probably the company's owners avoided \$73,170 in per-

The failure of the "corporate controllers" to explain adequately why dividends hadn't been paid is "particularly suspect when those same persons happen also to be the sole shareholders," the court said.

BRIEFS: A U.S. appeals court in New York exaggerated strength." Sakharov, who is under he got a special deal. "It's obvious GM is recently upheld the IRS's seizure of funds from threat of reprisals for his criticism of the re- trying to buy off the loud ones," he says. Mr. the Merrill Lynch account of Clifford and Edith gime, assailed Western businessmen for focus- Moore vows that neither he nor his group will Irving. . . . New York University sets its 32d ing "on the attempt to get from us gas and oil, shut up until they all get a standardized deal, annual Institute on Federal Taxation for Oct. 31-Nov. 9 at the Waldorf-Astoria.

The Greeters

A Special Summary and Forecast Privately Held Hallmark Regards Philanthropy As Key Company Policy

> It Subsidizes Civic Ventures, Backs Cultural Projects, Jealously Guards Privacy

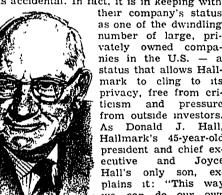
Millions & Two '63 Buicks

By HARLAN S. BYRNE

Staff Reporter of THE WALL STREET JOURNAL KANSAS CITY - When Joyce Hall, chairman and founder of Hallmark Cards Inc., turns 82 next Wednesday, it is a safe assumption that the occasion will elicit a barrage of greeting cards. It is also safe to assume that the bulk of these congratulatory messages will bear the would hardly dictate otherwise-and, furthergreeting cards sold in the U.S.

Beyond these conjectures, it is safe to assume little. For despite the fact that Hallmark is among the best-known trade names in American business, the doings of the Hall familyunlike, say, the Fords, the Rockefellers or the Watsons-invariably transpire well beyond the glare of nationwide publicity. Indeed, outside this Midwestern city that is the Halls' corporate headquarters and their home, few of the nation's millions of greeting-card senders and recipients know that the first syllable of Hall-

tark is a family name. The Halls' relative anonymity is by no



Joyce Hall

privacy, free from criticism and pressure from outside investors. As Donald J. Hall, Hallmark's 45-year-old president and chief executive and Joyce Hall's only son, explains it: "This way we can do our own things and have to an swer to nobody."

status that allows Hall-

mark to cling to its

The retention of privacy has obvious advantages for a company. If the top executives want yachts and planes and hunting lodges, all purchased with corporate funds, they can have them-without fear of slaps on the wrists from corporate gadflies. But in the case of Hall-Theron Lemly, a Memphis businessman, mark, whose annual sales are estimated at

"Good taste is good business," Joyce Hall

Consider Crown Center, a \$400 million Hallmark real-estate venture here in Kansas City. The project, surrounding the company headquarters, involves the redevelopment of 23 square blocks; and, when completed, it will comprise office buildings, a bank, a large open DRINKING AND DYING produced less tax plaza, a retailing complex with 65 stores, apartment houses, a 730-room hotel, and a motel. It has won praise for its architectural beauty. It is said to have provided the spark for a plan to revive the city's decaying downtown area not far away. And yet hear the assessment of a friend of the Halls who heads a large publicly owned company: "I have nothing but admiration, because everything is absolutely first class, as you'd expect of Hallmark. But if I proposed anything like Crown Center to my directors, they'd probably fire me."

For one thing, real-estate ventures are far removed from Hallmark's manufacturing and marketing expertise. For another, the undertaking is mammoth indeed-it will take 10 years to complete-for a company of Hallmark's size. But most important is the fact that Hallmark officials concede Crown Center, with its attention to detail, will take twice as long to become profitable as most large realestate developments.

Or take the Hallmark Hall of Fame. Since 1951, Hallmark has spent more than \$50 million to produce this series of television dramatic 'specials." The ratings have been largely mediocre-a fact that would give many another company pause-but critics have acclaimed the Hall of Fame as, among other superlative descriptions, "an oasis in television's wasteland." And last November, Donald Hall announced that the company planned to continue the shows for at least 10 more years at a cost

And what publicly held company would con-Please Turn to Page 12, Column 3

A Chicken in Sneakers

KANSAS CITY-Until he was well into his 70s and decided to become less active in the affairs of Hallmark Cards Inc., Joyce Hall personally approved each of the new cards dreamed up by his company's creative staff. His favorite design, first used in 1941, is an old-fashioned rendition of a pansy bouquet in a basket. His favorite greeting is a sentiment by Edgar Guest that says, "I'd like to be the kind of a friend you've been to me."

Hallmark says that both the pansy card, which is only just this year being discontinued, and the Guest saying, which was used on various cards from 1916 to 1971, were overwhelming successes. However, tastes change, and Hallmark's business is to cater to the public's demands.

The outside of a recent greeting, for example, shows a chicken-like creature wearing ankle-high sneakers saying 'Happy Birthday." A message on the inside of the card asks: "You was expecting maybe the Bluebird of Happiness?"

Appendix - 47

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