

The Franchise, Policing, and Race: Evidence from Arrests Data and the Voting Rights Act ^{*}

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Abstract

This paper investigates the relationship between the franchise and law enforcement practices using evidence from the Voting Rights Act (VRA) of 1965. We find that, following the VRA, black arrest rates fell in counties that were both covered by the legislation and had a large number of newly enfranchised Blacks. We uncover no corresponding patterns for white arrests. Importantly, our results are explained by arrests carried out by sheriffs - who are always elected. These results document that voting rights, when combined with electoral accountability of chief law enforcement officers, lead to improved treatment of minority groups by police.

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“So as opposed to a sheriff being appointed by a mayor or city council and being beholden to that city council, we are beholden to the people. We see our bosses as the citizens that elect us.” (Greg Champagne, President of the National Sheriffs’ Association)¹

1 Introduction

The treatment of under-represented minority groups by police in the U.S. is a perennially controversial topic. The violent assault of Rodney King by a group of white police officers in Los Angeles during the 1990s led to significant protests, looting, and a national debate over race and policing. The fatal shooting by police, in 2014, of Michael Brown, a black resident of Ferguson, Missouri, also sparked a national debate, with significant protests and a subsequent investigation by the U.S. Department of Justice. The recent death of George Floyd, while restrained by police officers in Minneapolis sparked protests and riots across the country, with President Trump threatening to call in the military to quell the disorders at the time.²

While there is substantial and compelling anecdotal evidence of differential treatment of blacks by police, a lopsided pattern of arrests according to race is also reflected in aggregate data. In particular, despite 5.7 whites for every black in the overall population, there are only 2.5 white arrests for every black arrest and only 1.6 whites inmates for every black inmate. Thus, blacks are arrested and incarcerated at much higher rates than whites.^{3,4}

Given that policing is an important public service, it is natural to conjecture that this issue can be addressed at the ballot box. However, the link between the political and civil rights of minorities is far from obvious, given the potential risk of a “tyranny by the majority” (Zakaria 1997, Mukand and Rodrik 2020). To what extent can voters use elections and political accountability to improve

¹source: <https://www.usnews.com/news/politics/articles/2016-11-04/joe-arpaiio-david-clarke-and-why-the-us-still-elect-sheriffs>

²The incident happened on May 25, 2020.

³Inmate data are from the Federal Bureau of Prisons (https://www.bop.gov/about/statistics/statistics_inmate_race.jsp, accessed September 24, 2019), population data are from the Census Bureau (<https://www.census.gov/quickfacts/fact/table/US/RHI625218\#RHI625218>, accessed September 24, 2019), and arrests data are taken from the FBI UCR statistics (<https://ucr.fbi.gov/crime-in-the-u.s/2017/crime-in-the-u.s.-2017/tables/table-43>, accessed September 24, 2019).

⁴Anwar, Bayer, and Hjalmarsson (2012) document the presence of a racial bias by white jurors against black defendants, whereas Alesina and La Ferrara (2014) uncover racial bias in capital sentencing.

police treatment of blacks?⁵ The answer to this question is likely to depend not only on minority voting rights but also on the institutional features governing law enforcement bodies.

For at least two reasons, the United States provides an ideal setting to explore these issues. First, many chief law enforcement officers (CLEOs) in the U.S. – sheriffs in the South and some municipal police chiefs – are directly elected, rather than appointed. These CLEOs are in charge of policing practices that have direct effects on the treatment of minorities and might also change departmental culture through their leadership (United States Commission On Civil Rights 2000).⁶ Second, there have been significant changes over time in the franchise for African Americans: their right to vote was first granted after the Civil War, then restricted during the Jim Crow era in the U.S. South, and finally reinstated in the South during the 1960s. Even today, there are significant debates over restrictions on voting resulting from, for example, voter ID laws and the disenfranchisement of felons, both of which are believed to disproportionately impact black voters.

To empirically investigate the link between voters, government officials, and the treatment of minority groups by police, we exploit the dramatic change in voting rights for black voters in the U.S. South brought about by the 1965 Voting Right Act (VRA). As a result, previously disenfranchised black voters in states covered by the VRA were newly able to cast their ballot and thus potentially influence policy. Crucially, because of neighborhood segregation, police treatment of blacks was an important policy area in which white politicians could take steps to improve the lives of black voters, while not necessarily generating backlash from the white electorate (Button 1989).

Anecdotally, a number of CLEOs known for their harsh treatment of blacks were removed from office by voters in the South following the enactment of the VRA in 1965. One particularly emblematic example involves Jim Clark – the sheriff of majority black Dallas County, Alabama – who gained notoriety in the “Bloody Sunday” events of 1965, when a group of civil right activists

⁵Although not focused on race, Nowacki and Thompson (2021) provide evidence from the UK that directly elected police commissioners are more responsive to constituent preferences, when compared to a committee of appointed officials.

⁶Leadership within organizations can fundamentally shape outcomes (Bertrand and Schoar 2003, Bolton, Brunnermeier, and Veldkamp 2012) and the implications of different methods of selection of chief executives have been studied in a variety of domains (Besley and Coate 2003, Iaryczower, Garrett, and Shum 2013). Surprisingly, very little is known about the implication of different procedures for the selection of US CLEOs. In this paper we make a first step towards addressing this question by focussing on one controversial dimension of enforcement – the treatment of minority groups.

in Selma were brutally beaten by Clark's infamous Sheriff Posse. In the subsequent election held in 1966 – which saw a record number of blacks registering to vote for the first time – he lost office.⁷ Clark was replaced by Wilson Baker, a white moderate overwhelmingly supported by the black electorate.⁸ Importantly, one of Baker's first initiatives as the new sheriff was to dismantle the Posse and “...turn the sheriff's department upside down” (Los Angeles Times, November 10, 1966). The dismissal of Clark was not unique, and a similar fate awaited a number of other notorious CLEOs across the U.S. South.⁹ More generally, as the black vote became crucial in many electoral races, white sheriffs needed to appeal to this newly enfranchised group. For example, as pointed out by Peirce (1974) “The white sheriff in heavily black Holmes county [Mississippi] won ... by doing an about-face from the old Southern stereotype. “He is terrific”, Robert G. Clark, a prominent black politician, acknowledged, “He treats everybody like a man. If he comes to your house with a search warrant, he is polite, and if he has to arrest you, he apologizes for this.” (page 189).¹⁰

In this paper, we attempt to move beyond this anecdotal evidence via a systematic causal analysis of the effects of the franchise on arrest rates by race using data from the FBI Uniform Crime Reports. If coverage has an effect, areas with a larger share of African Americans should experience a decline in black arrest rates. However, as the racial composition of arrests in those areas might have changed independently of the federal intervention, the comparison of arrest patterns by race over time is combined in our analysis with the addition of a control group, i.e. jurisdictions in the former Confederacy with a similar history of discrimination and black disenfranchisement that were not covered by the VRA.

Our identifying assumption is that, in the absence of federal intervention, covered and non-covered jurisdictions would have experienced the same trends in the racial patterns of arrest rates.

⁷In 1965, just before the passage of the VRA, 314 blacks were registered to vote in Dallas county. By 1966, the number of registered blacks increased to 10,267, while the number of registered whites stood at 12,128 (Los Angeles Times, April 17, 1966).

⁸While serving as the public safety director for the city of Selma at the time of the march, Baker had distanced himself from Clark's actions (Wright 2013, page 189).

⁹Other examples include Clifton Hester (sheriff of Madison County, Louisiana) who fiercely opposed black voters registration drives, stating that “...as long as I am Sheriff, there won't be any niggers registered on the books...” (see Kaplan and Stanzler 1971, page 748), and Lawrence Rayney (sheriff of Neshoba county, Mississippi) who was investigated for alleged involvement in the murder of civil rights activists during the freedom summer campaign in 1964.

¹⁰In 1967, Robert G. Clark became the first black elected to the Mississippi House of Representative since the Reconstruction era.

Although limited reporting in the pre-VRA period does not allow for direct investigation of parallel trends, we analyze correlates of arrests, including crime rates and deadly use of force by police, and document that there are not differential pre-trends depending upon coverage status and percent black in the county. That is, there is no evidence of differential trends in correlates of arrests during the period leading up to the VRA in counties with a large share of black voters, relative to more white counties, and covered by the VRA, relative to counties not covered by the VRA. We find similar results when examining proxies of racial attitudes, political factors, and economics and demographic characteristics, which could potentially influence arrest patterns independently of the VRA.

Turning to our baseline analysis, our key finding is that arrest rates for blacks fell in counties that were both covered and had a high concentration of black residents. We find no corresponding patterns for white arrest rates. While our baseline analysis compares the pre-VRA period 1960-1965 to the post-VRA period 1975-1980, we also find more immediate effects in the context of an event study. In addition, our results are driven by less serious misdemeanor offenses – over which police have more discretion – rather than more serious felonies.

We then explore possible mechanisms. We start by further investigating the electoral channel, by analyzing whether our basic findings differ according to the rules whereby CLEOs are selected. We document that our baseline results are driven by arrests carried out by sheriffs – who are always elected – rather than by police chiefs – who are typically appointed, suggesting that the VRA, by increasing the responsiveness of CLEOs to the black electorate, led to changes in the racial patterns of arrests.

Elections can affect arrest rates by changing the behavior of incumbent CLEOs, or by affecting the identity of the CLEO voted into office. For example, the enfranchisement of African Americans could bring into power black CLEOs or more moderate whites. Analyzing the race of CLEOs, we document the near complete absence of Blacks twenty years after the passage of the VRA. This allows us to rule out the identity politics channel for sheriffs or police chiefs. On the other hand, using a case study in which we compare one covered state, Alabama, and an uncovered one, Texas, we find evidence that, following the VRA, there was an increase in sheriff turnover in covered counties with large black populations. This is consistent with voters replacing less tolerant white CLEOs with more moderate ones.

Even if the VRA did not lead to black CLEOs, other black elected officials in local jurisdictions, such as commissioners in county governments, and mayors and city council members in municipal governments, might play a role in developing policing guidelines and practices, which in turn might affect arrest rates.¹¹ We thus investigate the role of the race of other local elected officials. Our key finding is that covered counties with a larger pre-existing share of African Americans do indeed elect more black county commissioners, but only in the presence of single member districts. Importantly, we do not find a differential pattern of arrests in these counties, and our results are instead driven by those without single member districts, suggesting that the race of other local officeholders does not explain our findings. Last, as the racial composition of the police force might affect policing outcomes (see Donohue and Levitt 2001, McCrary 2007, Bulman 2019 and Ba et al. (2021)), we analyze whether the VRA led to an increase in the number of black police officers and whether the effect differs between sheriffs and police chiefs. We do not find an effect, suggesting that the racial composition of the police force does not explain our baseline results.

We then turn to four alternative explanations for our findings. First, if certain jurisdictions, such as municipalities, are more likely to have unionized police forces, CLEOs might be less able to discipline officers in case of misconduct. Second, our results could be driven by changes in the supply of crime by blacks resulting from other changes brought about by the VRA, such as migration, improvements in schooling, or improvements in labor market conditions. Third, our results could be driven by changes in the supply of crime, even absent other changes associated with the VRA, via another mechanism associated with crime patterns responding to changes in policing practices following the VRA. Fourth, our results could be driven by elevated arrests of blacks at civil rights protests during the pre-VRA era. We address each of these in turn and show that our results, especially those involving differences in arrest patterns between elected and appointed officials, are not driven by these alternative explanations.

The Civil Rights era brought about a massive realignment of political allegiances in the U.S. South (Kuziemko and Washington 2018). A recent and growing literature has exploited the geo-

¹¹For example, in the aftermath of the shooting in Ferguson, some commentators noted that the city council was predominantly white, despite the city being 70 percent black, and that a change in local leadership might be necessary to change policing practices. (see <https://www.cnn.com/2015/04/08/us/ferguson-election/index.html>, accessed July 10, 2019). Motivated by this argument, the mother of the deceased Michael Brown ran for a seat on the City Council even if her campaign was ultimately unsuccessful. At the same time, the link between these other elected officials and policing practices is unclear, as law enforcement is one of the many functions of local governments in these jurisdictions.

graphic variation in the VRA provisions to analyze the effect of enfranchisement on the distribution of state funds (Cascio and Washington 2014), on white backlash against the Democratic party (Ang 2019), on black elected officials in local governments and government spending (Bernini, Facchini, and Testa 2018) and on labor market outcomes (Aneja and Avenancio-Leon 2019). We contribute to this literature by studying the impact of the VRA on the police treatment of blacks. In particular, similarly to Cascio and Washington (2014) – who show how the VRA led to a shift in the allocation of state funds toward black communities by making white politicians more responsive to the interests of black voters – we provide evidence of increased accountability of elected white CLEO’s to the black electorate. By doing so, our contribution sheds lights on an issue – the treatment of minorities by the police – lying at the heart of the civil rights movement. In his iconic “I Have a Dream” speech of 1963, Dr. King denounced the unspeakable horrors of police brutality against blacks, while also advocating for their right to vote.¹² Our findings indicate that the latter proved important in bettering the working of law enforcement, even though much is still left to be done.

The remainder of the paper is organized as follows. Section 2 provides general background on the organization of local police enforcement in the US and on the VRA. Section 3 develops a simple probabilistic voting model to formulate our key hypotheses. Section 4 presents the data used in our analysis, whereas section 5 lays out our identification strategy. Section 6 presents our main results, section 7 investigates alternative mechanisms behind our findings, and section 8 addresses alternative explanations for our results. Section 9 concludes.

2 Background

Law enforcement in the United States is highly decentralized and hyper-localized, with over 12,000 local police departments and significant heterogeneity in both the scope and size of their operations.¹³ Broadly speaking, policing at the local level falls under the authority of sheriff offices – which have county-wide jurisdiction – and municipal police departments – providing police services only within incorporated municipal limits. Despite their county-wide powers, sheriffs mainly focus on policing unincorporated areas and thus police functions tend to be shared by the two bod-

¹²“We can never be satisfied as long as the Negro is the victim of the unspeakable horrors of police brutality.” (M.L. King 1963).

¹³<https://www.bjs.gov/content/pub/pdf/lpd16p.pdf>

ies according to a rural-urban divide.¹⁴ Besides policing different areas, the two bodies also differ in terms of functions and in the degree of independence from other local governments.¹⁵

Importantly, while police chiefs are mostly appointed, sheriffs are nearly always elected.¹⁶ In particular, sheriffs are popularly elected in nearly 3100 jurisdictions across the US (Falcone and Wells 1995).¹⁷ The National Sheriffs' Association strongly supports election as the 'best option' for selecting a county's CLEO, although evidence substantiating the desirability of popular election remains in rather short supply.¹⁸ Sheriffs are important officials in the United States, with sheriff elections particularly salient to the local electorate (Zoorob 2020).

As mentioned above, we exploit the dramatic shift in voting rights for African Americans brought about by the Voting Rights Act of 1965. Passed by Congress a few months after the dramatic events in Selma, the momentous federal legislation placed many jurisdictions in the US South under federal watch. Under Section 4 of the VRA, jurisdictions that both imposed a test or device restricting the right to vote *and* experienced a turnout below 50 percent in the 1964 Presidential election were placed under strict federal monitoring of their voting laws and procedures. As a result, six of the eleven Confederate states – Alabama, Georgia, Louisiana, Mississippi, South Carolina, and Virginia – were fully covered and one – North Carolina – was partially covered.¹⁹ Under Section 5 of the same act, covered jurisdictions had to seek pre-clearance by the US Dis-

¹⁴In general, police and sheriffs can only make arrests within their respective areas of jurisdiction. The one exception involves hot pursuit, whereby police and sheriffs can arrest criminals in neighboring jurisdictions, but only when the chase began and a crime was committed within their respective jurisdictions.

¹⁵In particular, the sheriffs' duties are broader since – besides law enforcement – they are also in charge of county jails and correctional facilities, carry out bailiff duties, and, in some instances, are responsible for the collection of county fees and taxes and the sale of licenses and permits.

¹⁶Historically modeled after the English sheriff, in colonial America the sheriff was a royal officer appointed by governors. In the post-revolutionary period, the office underwent a major transformation and the election of the sheriff was enshrined in the constitution of many states to make it directly accountable to the local community, rather than to a distant executive.

¹⁷Sheriffs are appointed in Rhode Island, in two Colorado counties and in Dade County (Florida). There are no sheriffs in Alaska and the office was abolished in the year 2000 in Connecticut. For more details see: https://www.sheriffs.org/sites/default/files/tb/The_Elected_Office_of_Sheriff_-_An_Executive_Summary.pdf.

¹⁸See <https://www.sheriffs.org/sites/default/files/tb/resolutions/2010-1.pdf>.

¹⁹More precisely, of the 100 North Carolina counties, 39 were covered. Cascio and Washington (2014) focus instead on the removal of literacy test provisions – that were in force in all the six covered states plus North Carolina. In the 1975 re-authorization of the VRA, coverage was extended as to take into account potential discrimination against language minorities. As a result the provision was extended to any jurisdiction where a single language minority group comprised more than 5 percent of the voting age population in 1970 in addition to the turnout threshold and required ballots to be bilingual. Given that our focus is on the effect of the VRA on the arrest rates of African Americans, we adopt the 1965 definition.

strict Court for the District of Columbia or by the Attorney General of any change in legislation affecting voting. Furthermore, the Attorney General could dispatch federal examiners to monitor the activities within these jurisdictions' polling places, and all covered jurisdictions were forced to eliminate literacy test provisions.

As barriers to voter registration were removed, black voter registration and turnout soared (Casio and Washington 2014; Wright 2013), bringing about an expectation of fundamental changes in policy areas in which the black electorate did not have any voice. The administration of justice was one such domain. In the US South, where counties are the most important units of local government, sheriffs – particularly in rural areas – were often the most powerful local officials and the ‘... principle enforcers of the social and legal convention of the Jim Crow Society... the sheriff sent a signal to the black community: any black citizen entertaining thoughts of challenging the system had only to walk by the local jail to see the hierarchy of race’ (Moore 1997, page 53). Under the watch of white sheriffs, black-on-black crime was usually ignored, white-on-black crime was typically not punished, and black-on-white crime was often addressed by extra-legal practices of lynching. In 1961, the report of the US Civil Right Commission on Justice widely acknowledged the issues of widespread police brutality against African Americans, advocating for changes in leadership to address discrimination in the administration of justice.²⁰ The Voting Rights Act, giving voice to previously disenfranchised blacks, provided the tools to bring to power a new type of sheriff. Yet, as white elites resisted change, according to a less benign view, the administration of U.S. criminal justice system in the aftermath of the VRA has become instrumental to the disenfranchisement of African Americans through incarceration (Alexander 2010, Eubank and Fresh 2021). Whether the right to vote led to tangible improvements in policing practices in black communities therefore remains an open empirical question that we address, focusing on the analysis of the pattern of arrest by race within the U.S. South.

3 Theoretical Model

This section develops our main hypotheses in the context of a simple probabilistic voting model. Let p denote police treatment of blacks, with increases representing harsher treatment. Voters fall

²⁰For more details see United States Commission on Civil Rights (1961).

into one of two racial groups: Blacks ($J = B$) and Whites ($J = W$), where everyone in a given group has the same bliss point over policies, p^J , with $p^B < p^W$. The difference in policy preferences might reflect both cultural factors, such as racism on the part of whites, or economic factors, such as an attempt by whites to artificially hold black wages below marginal product via suppression.²¹ Blacks comprise a fraction of the population β , with whites a fraction $1 - \beta$. Two candidates ($c = 1$ and $c = 2$) announce credible platforms over policy (p_1 and p_2). Voters care about both policy and the ideology of candidates, and voter i in group J prefers candidate 1 if:

$$V^J(p_1) > V^J(p_2) + \sigma^{iJ} + \delta$$

where $\sigma^{iJ} \sim U\left[-\frac{1}{2\phi}, \frac{1}{2\phi}\right]$ with density ϕ denotes ideological bias toward candidate 2, and δ is the average popularity of candidate 2 in the population and is assumed to follow a normal distribution with mean zero and precision ρ , with F and f representing the standard normal CDF and density, respectively.²² Voters experience a quadratic loss as the platform of candidate c moves away from their bliss point, so that $V^J(p_c) = -0.5(p_c - p^J)^2$. Let $\Delta^J = V^J(p_1) - V^J(p_2)$ represent the payoff difference to group J from the platform of candidate 1, relative to candidate 2.

The game starts with two candidates simultaneously announcing their policy platforms: p_1, p_2 . They know voter preferences and the distributions of σ^{iJ} and δ . The value of δ is realized and elections are held, with the winning candidate implementing his or her platform. Candidate 1's probability of winning equals

$$Q_1 = Pr(\pi_1 > 0.5) = F[\rho\beta\Delta^B + \rho(1 - \beta)\Delta^W]$$

where π_1 represents the vote share for candidate 1.²³

Candidates are assumed to care about winning the election but are also citizens and have pref-

²¹Acemoglu and Wolitzky (2011) develop a model in which employers use coercion, labeled as "guns", to limit outside options for workers and discuss the role of law enforcement in the U.S. South in coercing black workers.

²²While we label σ^{iJ} as ideological bias, other interpretations are possible, and this is relevant since elections for CLEOs are sometimes non-partisan. The key role of σ^{iJ} is that it smooths out candidate vote shares, so that small changes in policies do not lead to discontinuous changes in vote shares. Thompson (2020) measures the degree of partisan behavior in the context of modern sheriff elections.

²³To derive this, first note that the vote share for candidate 1, conditional on δ , equals $\pi_1 = 0.5 + \beta\phi\Delta^B + (1 - \beta)\phi\Delta^W - \phi\delta$. Then, calculating the probability that the vote share exceeds 0.5 and integrating over δ yields the probability of winning.

erences over policy. Candidates, assumed to be white, place weight ω on winning and weight $(1 - \omega)$ on policy, and the objective function for candidate 1 is given by:

$$\omega Q_1 - (1 - \omega)[Q_1 0.5(p_1 - p^W)^2 + (1 - Q_1)0.5(p_2 - p^W)^2]$$

The first term represents the payoff associated with winning the election, and the second term represents the payoff associated with the policy implemented, which equals p_1 with probability Q_1 and p_2 with probability $1 - Q_1$.

Pre-VRA, only whites can vote, and the probability of candidate 1 winning simplifies to $Q_1 = F[\rho\Delta^W]$. Given that candidates are white and blacks are disenfranchised, candidates simply cater to the preferences of white voters and set equilibrium policies to those preferred by whites ($p^* = p^W$).²⁴ Post-VRA, both groups can vote, with blacks representing a fraction β of the electorate. In this case, white candidates moderate their policies to account for the demands of black voters. This result is summarized in the following Proposition, with a proof in the Appendix.

Proposition 1 *Equilibrium policies can be characterized by a weighted average of black and white bliss points ($p^* = \alpha p^B + (1 - \alpha)p^W$), with the weight on the black bliss point (α) increasing in the black share of the population (β).*

Intuitively, equilibrium policies post-VRA account for the preferences of both groups, and the franchise extension effect becomes more pronounced as the black share of the population increases. Thus, the introduction of the VRA improves police treatment of blacks. Moreover, the post-VRA shift in policy towards the preferences of black voters is more significant in places with a larger share of blacks.

We next extend the model to compare elected and appointed CLEOs. There are now two policies: police treatment of blacks (p) and a general policy (g).²⁵ Voters care about both policies, with separable preferences: $V^J(g_1, p_1) = -0.5(g_1 - g^J)^2 - 0.5(p_1 - p^J)^2$. With elected CLEOs, there are four candidates, two competing over the general policy and two competing over police

²⁴To derive this result, note that the electoral effect of making the policy harsher equals $\frac{\partial Q_1}{\partial p_1} = -\rho(p_1 - p^W)f[\frac{\Delta^W}{\sigma}]$. Substituting this into the candidate equilibrium condition and using symmetry ($p_1 = p_2$, $\Delta^W = 0$ and $Q_1 = 0.5$), equilibrium policies (p^*) can be characterized by $\omega\rho(p^W - p^*)f[0] = (1 - \omega)0.5(p^* - p^W)$. This can only be satisfied when $p^* = p^W$.

²⁵The general policy can be interpreted as the level of a public good.

treatment of blacks. With an appointed CLEO, two candidates compete over the general policy, and each commits to appointing a CLEO who will implement an announced police treatment of blacks.²⁶ We continue to assume that all officials are white, with bliss points g^W and p^W . We also assume that officials can be grouped by parties and that ideology σ^{iJ} applies to parties as a whole and not specific candidates. Candidates continue to receive popularity shocks $\delta(g)$ and $\delta(p)$, which we assume are independent across candidates.²⁷

With an elected official as CLEO, candidates compete dimension-by-dimension, given the separability assumption, and the probability of winning for the CLEO from party 1 equals:

$$Q_1 = F[\rho\beta\Delta^B(p) + \rho(1 - \beta)\Delta^W(p)],$$

where $\Delta^J(p)$ represents the difference in utility between candidates for group J in the policing dimension and similarly for $\Delta^J(g)$.²⁸ Given that the probability of winning is identical to that with a single policy dimension, the results are unchanged from above.

With appointed CLEOs, voters must choose a bundle of officials. Importantly, the precision of the combined popularity shock $\delta(g) + \delta(p)$ now equals $\tilde{\rho} = \rho/\sqrt{2}$ and is thus lower than under unbundled elections, meaning that there is more electoral uncertainty under appointed officials than under elected officials. This is due to the fact that voters only have one choice but must consider multiple factors. Given this, candidate 1's probability of winning equals:

$$Q_1 = F\{\tilde{\rho}\beta[\Delta^B(p) + \Delta^B(g)] + \tilde{\rho}(1 - \beta)[\Delta^W(p) + \Delta^W(g)]\}.$$

With more electoral uncertainty ($\tilde{\rho} < \rho$), a given shift in policy now translates into a smaller change in the probability of winning. That is, with appointed officials, electoral competition is weakened on a dimension-by-dimension basis, and white candidates are less responsive to the preferences of black voters.^{29,30} This leads to the following Proposition, with a proof in the Appendix:

²⁶We assume that the full menu of policy options is available when appointing officials.

²⁷This independence assumption can be relaxed so long as preferences are not perfectly correlated.

²⁸These differences equal $\Delta^J(p) = -0.5(p_1 - p^J)^2 - 0.5(p_2 - p^J)^2$ and $\Delta^J(g) = -0.5(g_1 - g^J)^2 - 0.5(g_2 - g^J)^2$

²⁹Besley and Coate (2003) obtain a similar result in a model with citizen candidates. In particular, with a multidimensional policy space, policy is bundled into one option when officials are appointed, leading them to cater to stakeholders. With elected officials, by contrast, policy becomes unbundled and officials have an incentive to run on pro-voter platforms. Thus, voters have more influence with elected officials relative to appointed ones.

³⁰Indeed, as the number of officials appointed by a single elected official grows large, the weight placed on black

Proposition 2 *An increase in the share of black voters (β) leads to a larger reduction in p^* , or shift towards the preferences of black voters, under elected, rather than appointed, CLEOs.*

To summarize, the model makes two key predictions. First, treatment of blacks by police improves following the VRA, and the size of this shift is increasing in the black share of the population. Second, these relationships are more pronounced in jurisdictions with directly elected CLEOs than with appointed CLEOs. We next turn to an empirical investigation of these predictions.

4 Data

Our goal is to study the effect of the VRA on racial patterns of law enforcement. To do so, we focus on the eleven states of the former Confederacy, sharing a similar history of slavery and black disenfranchisement and exploit geographic variation in coverage, one of the key VRA provisions. Our treatment group includes counties that fell under the special provisions of Section 4 of the Act and our control group includes those who did not. The top panel of Figure A1 in the Appendix illustrates the geographic pattern of coverage. As previously discussed, all counties of Alabama, Georgia, Louisiana, Mississippi, South Carolina, and Virginia and 39 counties of North Carolina were covered in 1965, whereas Arkansas, Florida, Tennessee, Texas and 61 counties in North Carolina were not.³¹

We have assembled a database of arrests by local police offices from the Uniform Crime Reports (UCR) spanning the period 1960-1981.³² Using these data, our baseline analysis compares arrest averages over the 1960-1965 period (pre-VRA) to the 1975-1980 period (post-VRA), and, in a supplementary analysis, we also develop measures spanning the 1966-1974 period. Since UCR data are based on voluntary filing and the number of reporting agencies varies over time, our analysis is based upon a balanced panel of agencies that report information at least once both before and after the VRA, resulting in a sample of 590 counties (out of a universe of 1137).³³ For these

voters goes to zero and officials do not moderate their platforms towards those preferred by black voters even when the size of the group is large.

³¹Note that Texas and four counties in Florida were moved to covered status under the 1975 VRA amendments, which focused on providing bilingual ballots in areas with significant language minority populations. We address this issue later in a robustness check.

³²See Appendix for details.

³³See the Appendix for details.

agencies, we average their pre-VRA and post-VRA arrests and then compute the long difference between these two averages.³⁴ Finally, we collapse agencies to the county level since this is the administrative unit for which we have information on coverage status and is the level at which we can measure the black population share as well as other other socio-economic characteristics using Census data.³⁵

While these data do not include any detailed information on the context around the arrest, such as police use of force, arrests can be considered an indicator of black mistreatment by police. Indeed, as pointed out by Mazumder (2019) and Moore (1997), arrests and incarceration have been used by white elites in the South as a tool to exert social control over African Americans. That is, as discussed above, white sheriffs in the South routinely arrested blacks during this period in order to both signal the threat of law enforcement to blacks and to demonstrate the hierarchy of race.

Given the voluntary nature of UCR filing, a natural concern involves sample selection, and we address this issue in several ways. First, as noted above, filing was voluntary both before and after the VRA, and we only focus on jurisdictions that reported during both eras. Second, as shown in the bottom panel of Appendix Figure A1, which displays the geographic coverage of our sample, the number of reporting agencies appears to be scattered throughout the region and is not clustered in any particular area and, as shown in Appendix Figure A3, the likelihood of reporting does not vary differentially in covered counties, relative to uncovered counties, depending on their racial composition. Third, as shown in Appendix Table A1, the key socio-demographic characteristics of the counties included in our analysis are broadly comparable to those of the overall South, even if they have larger populations and tend to be more urban.³⁶

Using these data on arrests, we create race-specific arrest rates per thousand in the population. To measure pre-VRA population, we use the number of blacks and whites in the county in 1960 and, to measure post-VRA population, we use corresponding data on population from the 1980 census.

³⁴The frequency of reporting by agency in the pre and post-VRA period is summarized in Appendix Figure A2. As shown, there is limited reporting during the pre-VRA period, especially for sheriff offices.

³⁵See the Appendix for the definitions of variables and sources.

³⁶As discussed in Section 5, the analysis carried out in Table 1 and Table 2 is inconsistent with selection on observables. In addition, using data on homicides derived from the NCHS multiple causes of death database, as described in the Data Appendix, we find no evidence of differential patterns in our baseline coefficients between our sample and the overall South. That is, as shown in Appendix Figure A4, we do not find different regression coefficients on the interaction between covered county status and black share, when comparing our sample to the overall South.

Table A2 in the Appendix presents summary statistics. Before the introduction of the VRA, the overall average arrest rate is 6.37 per thousand for blacks, whereas the corresponding figure for whites is 1.99. After the passage of the act the number of arrests increases for both subgroups of the population, reaching on average 6.69 per thousand for blacks, and 3.12 for whites. Thus, the growth in the arrest rates, defined as the difference in the natural log of arrest rates by county, is on average almost twice as high for whites than for blacks. Municipal police carry out more arrests than sheriff offices, and this is true for both blacks and whites. This is consistent with the fact that sheriffs are policing more rural areas, whereas police departments are in charge of law enforcement in urban areas. In fact, as shown in the top panel of Table A2, counties in the sheriff sample are on average less populated and more rural than those in the police sample. On the other hand, they are broadly comparable in terms of other important characteristics, such as the black population share and the unemployment rate, although the number of families below the poverty line and the share of unskilled is slightly higher in the sheriff sample.

5 Identification Strategy

Our baseline analysis is based upon a three-fold comparison: 1) before and after the Voting Rights Act, 2) in counties covered by the VRA versus comparable counties in the South, and 3) in counties with significant black populations, which are more affected by the VRA, versus less black counties, which are less affected by it. The first two comparisons are discrete in nature, while the final comparison is based upon a continuous measure, the fraction of blacks in the jurisdiction.³⁷

Our identifying assumption is that, in the absence of federal intervention, covered and non-covered jurisdictions – sharing a similar history of discrimination and disenfranchisement – would have experienced the same trends in the racial patterns of arrest rates. While evidence of parallel trends in arrest rates during the pre-VRA period would lend support to this assumption, limited reporting during the pre-VRA era, as documented in Appendix Figure A2, and the associated need to pool arrests across years during this period makes this analysis infeasible. Instead, to address this concern, we investigate whether the assumption of parallel trends holds for related outcomes,

³⁷Our limited sample sizes unfortunately do not permit a comparison of counties along state borders, an approach that is utilized in related studies, such as Aneja and Avenancio-Leon (2019) and Bernini, Facchini, and Testa (2018).

including reported crimes and deadly use of force by police. In particular, the top panel of Table 1 documents that covered counties do not display pre-VRA trends in property and violent crime and deadly use of force by police both against Blacks and Whites. The second and third panel of Table 1 documents similar patterns separately in the sheriff and police samples.³⁸ Similarly, we do not uncover differential trends in lynching, a form of violence against African Americans often supported indirectly by local law enforcement officers (Moore 1997). Additionally, we examine the presence of pre-trends in other related factors, such as white racial attitudes, black political activism and political participation between 1950 and 1960 (that is, during the pre-VRA era), which may be responsible for arrest patterns in the post-VRA period independently of the VRA itself. As shown in Table 1, we find similar results when examining these outcomes.

Likewise, Table 2 investigates pre-VRA trends in economic and demographic outcomes. We find no changes between covered and non-covered areas in the black population share. We find instead statistically significant growth in population, but only for the sheriff sample, and in the percent rural, but only in the police sample. We find no evidence of differences in either sample when measuring pre-trends in unemployment, the proportion of unskilled, the share poor in the population, and cotton yield, a proxy for agricultural productivity. Thus, on the whole, there is no evidence of consistent pre-trends, lending support to our identifying assumption.

6 Baseline Analysis

We begin our analysis of the effects of the VRA on the pattern of arrests with Figure 1. In particular, we relate long-run differences in arrest rates (pre-VRA versus post-VRA) to the share of blacks in the county as of 1960. Using scatterplots, we perform this analysis separately for covered and non-covered counties and also for black and white arrests. As shown in the upper left panel, black arrest rates are growing more quickly in areas with a larger share of African Americans in non-covered

³⁸The data on reported crimes have been obtained from Jacob Kaplan's Concatenated Files: Uniform Crime Reporting Program Data: Offenses known and clearances by arrest, 1960-2020. See Appendix for more details. Data on deadly use of force by police are derived from the NCHS multiple causes of death database. Using these records, we code the number of deaths in each county and each year, covering 1959 to 1978, according to cause of death. Given the very few number of deaths due to police use of force, we code this as an indicator for whether or not any such deaths are recorded.

counties.³⁹ But, importantly, the growth in black arrest rates is less pronounced in covered areas, as shown in the upper right panel, consistent with our hypothesis that enfranchisement leads to better treatment of black residents by police, and especially so in counties with a larger black share. White arrest rates, as shown in the bottom panel, by contrast, appear to be essentially independent of the black population in the county, and this is the case for both non-covered (lower left panel) and covered areas (lower right panel)

We present similar results in bin scatter diagrams, as shown in Figure 2. In particular, the upper panel presents results without controls. As shown in the upper left panel, black arrest rates are again growing more quickly in uncovered counties with a large share of black voters, whereas the relationship is more muted in covered counties. For white arrest rates, the relationships are essentially flat for both covered and uncovered counties. The bottom panel reproduces a similar analysis using residual growth rates, which account for changes in arrest rates that can be explained by observable county characteristics, which will be used throughout the analysis.⁴⁰ As shown, the results are similar to those in the upper panels, with rising arrest rates for blacks in counties with more blacks but, importantly, with slower growth in covered areas. Likewise, there are no differences in the slope of arrest rates for whites with respect to the share of blacks in 1960 for either covered or non-covered counties.

To test for the statistical significance of these long run changes in arrest rates, we next estimate the following regression specification:

$$\Delta ArrestRates_c = \theta_1 Black_{60} + \theta_2 Black_{60} \times Cov_c + \mathbf{X}_c \boldsymbol{\beta} + I_s + \varepsilon_{rc} \quad (1)$$

where $\Delta ArrestRates_c$ measures the change, from pre-VRA to post-VRA, in the natural log of arrest rates of either black or white individuals in county c , $Black_{60}$ is the share of blacks in the county in the 1960 US Census and Cov_c indicates that the county was covered by the VRA. \mathbf{X}_c is the set of pre-VRA county characteristics. In some specifications we also allow the impact of these controls to vary by treatment status. Finally, I_s are state fixed effects, which capture state-specific trends

³⁹Among other possible explanations, this increase in black arrest rates could reflect either efforts by local officials in majority black areas to reduce crime starting in the 1970s (Forman Jr 2017) or efforts by the federal government, including funding local police departments, to combat crime in urban areas during the 1960s and 1970s (Hinton 2016).

⁴⁰These include pre-VRA population (in logs), unemployment rates, poverty rates, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black and anti-black protest activity and black police.

in this long difference specification.⁴¹ The main parameter of interest is θ_2 , which captures the difference in the gradient of the 1960 black population between treatment and control counties, after accounting for the main effects of the share of blacks in 1960 and coverage status.

Our baseline results are presented in Table 3. Columns 1 and 2 report our most parsimonious specifications, including only the variables of interest and basic economic and demographic controls. In columns 3 and 4, we allow the effects of the controls to vary by treatment status. In columns 5-8 we follow the same structure, but we now account also for proxies of black political activism (pro-black activism), white racial attitudes (anti-black activism), historic prevalence of slave labor (cotton suitability), land ownership concentration and presence of blacks in the police force.⁴² As shown, black arrest rates are growing more slowly in covered areas with significant black populations, and these differences remain statistically significant when including interactions between coverage and controls (columns 3 and 7).⁴³ This effect is large in magnitude: an increase in the black share of the population by 10 percentage points, from, say, 20 percent to 30 percent, leads to an 18 percent reduction (columns 3 and 7) in the growth of the arrest rate for blacks in covered counties, relative to non-covered counties.⁴⁴ The corresponding analysis using white arrest rates never produces statistically significant differences.⁴⁵ Moreover, Appendix Figure A5, which reports coefficients from regression specifications that pool together black and white arrests, shows that black arrest rates, relative to white arrest rates, decline in covered counties with significant populations of newly enfranchised black voters. The opposite holds in non covered counties, and these differences are significant at the 10 percent level.⁴⁶

⁴¹We use separate indicators for the covered and non-covered portions of North Carolina.

⁴²Table A3 reports all coefficients for the specifications without interactions.

⁴³As shown in Appendix Table A4, our results are robust to dropping from the analysis those jurisdictions covered under the 1975 VRA amendments (i.e., all counties of Texas and four counties in Florida). While we considered moving them to the treatment group, we felt that, for two reasons, their treatment was not comparable to those jurisdictions covered under the 1965 VRA. First, jurisdictions covered under the 1965 VRA had a much longer treatment than jurisdictions covered under the 1975 amendments. Second, while the VRA of 1965 focused on black registration and turnout, the 1975 amendments focused on language minorities and bilingual ballots. Given this, the original set of jurisdictions covered in 1965 is more relevant to our hypothesized interaction between covered status and the fraction black in the jurisdiction.

⁴⁴Recall that the black share is measured from 0 to 100 and the dependent variable is the log difference, which can be interpreted as the percent growth in the arrest rate.

⁴⁵As for the additional controls - see Table A3 - our results indicate that the arrest rates - for both whites and blacks - grew less in counties with larger initial populations and more episodes of pro-black activism before the VRA. Furthermore, counties with a larger pre-existing black police force exhibit slower growth in arrest rates for blacks.

⁴⁶In other words, Appendix Figure A5 shows that the direct effect and the interaction terms in columns (7) and (8) of Table 3 are statistically different from each other.

An implicit assumption underlying our baseline results in Table 3 involves linearity; that is, changes in log arrest rates are assumed to depend linearly on the share of black voters, with the slope allowed to differ between covered and uncovered jurisdictions. We next investigate possible non-linearities in these relationships. While our analysis is agnostic regarding their functional form, one possibility is that – given majority rule – the slope might change when the fraction of African Americans in the county population crosses 50 percent. That is, any changes brought about by the VRA might be particularly relevant in counties in which blacks represent a majority of voters. As shown in the left panel of Figure 3, which plots the log change in arrest rates as a function of the share black via local polynomial non-parametric fits, black arrest rates are rising more quickly in counties with larger black populations for counties not covered by the VRA, consistent with the basic patterns in Figure 2. We do find some evidence of a flattening of the curve around the 50 percent threshold. As shown in the right panel, there is essentially no increase in black arrest rates, regardless of the fraction black, in counties covered by the VRA. This is again consistent with the basic patterns in Figures 1 and 2 and suggests that black voters in these areas were able to use their newly found political powers to counteract the trends towards increasing black arrest rates occurring in other areas in the U.S. South. We do find some evidence of a decline in black arrest rates for counties with a very large black share, in excess of 70 percent. But these findings are noisy and there is no common support in the black share in uncovered jurisdictions.⁴⁷

Returning to our linear regression analysis, we next introduce an additional comparison: county versus municipal governments. Given that sheriffs are always elected in the South and that municipal police chiefs are mostly appointed, we expect our baseline results to be driven by county governments. As shown in Table 4, this is indeed the case. Across the four specifications that we consider, black versus white arrest rates and county versus municipal governments, the only statistically significant effect of coverage involves the growth in arrests of blacks by sheriffs, as documented in column 1. This effect is again large in magnitude: an increase in the black share of the county population by 10 percentage points, from, say, 20 percent to 30 percent, leads to a 32 percent reduction in the growth of the black arrest rate in covered counties, relative to non-covered counties. Differences are small and statistically insignificant for blacks arrested by municipal po-

⁴⁷Note however that, as shown in Appendix Table A4, our baseline results continue to hold when focusing on the sample with common support in the black share.

lice (column 3) as well as for whites arrests by both sheriffs (column 2) and municipal police (column 4). The fact that the result is driven by differences in black arrest rates in jurisdictions with elected CLEOs (sheriffs) yields credence to our electoral interpretation. In particular, the enfranchisement of blacks led to a change in black arrest rates and, moreover, this result appears to be driven by elected, rather than appointed officials, with jurisdiction over policing practices.⁴⁸

While our baseline results document long-run changes, we next investigate the timing of these effects. To capture shorter-run effects, we have constructed comparable measures of arrest rates levels, building a balanced sample for the periods 1960-1965, 1966-1969, 1970-1974 and 1975-1980. In our event study specification, we include county fixed effects. Given this, we omit the interactions with the first period of the sample to identify the model, i.e. we use the first period 1960-1965 as the reference for evaluating how the slope of the relationship between arrest rates and the 1960 share of Blacks changed over time. As shown in the top panel of Figure 4, we find significant evidence of shorter-run effects of the VRA when analyzing the periods 1966-1969 and 1970-1974. Within a few years from the VRA passage, we observe a relative decline in arrest rates in covered areas with larger fraction of newly enfranchised black voters and, consistent with our previous results, our shorter-run findings are clearly driven by changes in black arrest rates in the sheriff, rather than in the police sample. On the other hand, as shown in the bottom panel, there is no corresponding pattern for white arrest rates.⁴⁹

Returning to our long-run analysis, our next extension involves the type of offense underlying the arrest. In the U.S., crimes are typically classified into two broad categories, misdemeanors, which are less serious in nature, and more serious felonies. If our results are driven by changes in policing practices following the enfranchisement of black voters, it is natural that such practices

⁴⁸In the Appendix, we further explore the electoral mechanism using variation in the selection procedures for municipal CLEOs. While we lack definitive information on whether CLEOs are elected or appointed in each municipality, we are able to discern, using data from the Census of Government (1957) “Elective offices of State and local governments”, whether municipalities have the discretion from the state to elect their police chiefs (see the Appendix for more details). Given our interpretation that electoral systems changed policing practices, we expect that arrests by municipal police under elective CLEOs should mirror our results regarding arrests by elected sheriffs. Appointed police chiefs, by contrast, are further separated from voters, and we thus expect less responsive policing practices when they are in charge. Appendix Figure A6, where we report coefficient estimates for the interaction between 1960 black share and coverage status, for municipalities with and without discretion in electing their CLEOs, broadly confirms the relevance of the electoral channel.

⁴⁹The results are robust if we restrict our attention to a sample imposing balance also on all reporting agencies across the four time periods (see Appendix Figure A7). Likewise, as shown in Appendix Table A4, our baseline regression results are similar when focusing on this agency balanced sample.

should be most strongly reflected in misdemeanor crimes, given that police have more discretion over arrests in these cases. Conversely, we would expect that police have less discretion over whether or not to arrest suspects charged with more serious felony crimes. As shown in the first panel of Table 5, our baseline results are indeed driven by changes in non-felony arrest rates for blacks, and these results are statistically significant. We also uncover a decline in felony arrest rates for blacks, but this result is not statistically significant at conventional levels.⁵⁰ For white arrest rates, we again find no systematic patterns with respect to whether or not the jurisdiction is covered and the size of the black population.

In the second and third panel of Table 5, we examine the results separately by type of CLEOs (sheriffs versus police chiefs) and type of crime. As shown, our results are driven by non-felony arrests of blacks by sheriffs (column 2 of the second panel). This effect is the largest that we have documented. In particular, an increase in the black share of the county population by 10 percentage points, from, say, 20 percent to 30 percent, leads to a 39 percent reduction in the growth of the black arrest rate in covered counties, relative to non-covered counties. Once again we find instead smaller and not statistically significant effects for all coefficients involving police chiefs (columns 1-4 of the third panel).⁵¹

7 Mechanisms

Our results thus far document that the enfranchisement of black voters leads to a reduction in black arrest rates. In this section, we carry out additional exercises to shed light on the mechanisms underlying our findings. We first examine whether our results are driven by an increase in black sheriffs and/or a reduction in incumbency rates for white sheriffs. We then examine the role of other black elected officials, such as county commissioners. Finally, we study whether changes in the racial composition of police forces could contribute towards our findings.

Elections can affect arrest rates by changing the behavior of incumbent CLEOs, or by affecting the identity of the CLEO voted into office. For example, the enfranchisement of African Americans

⁵⁰While the magnitude of the effect is smaller for felonies, these two coefficients are not statistically different from one another, likely because of the small size of our sample

⁵¹In the Appendix, we also investigate whether our results are driven by arrests of adults versus juveniles. As shown in Table A5, the decline in arrest rates in the Sheriff sample is driven by adult arrest rates.

could bring into power black CLEOs or more moderate whites. To explore this channel we start by investigating whether our baseline results are due to a change in the race of elected officials or a change in policies holding fixed politician race. To this end, we start by using information on the race of elected CLEOs, which as explained in more detail in Bernini, Facchini, and Testa (2018), has been obtained from the Southern Regional Council papers and local newspapers archives for the pre VRA years and from the National Roster of Black Elected Officials (NRBEO) afterwards.

Using these data, we find no black sheriffs or elected police chiefs during the pre-VRA era. In 1980, there are only two black sheriffs, both in covered counties, and only three elected police chiefs and marshals (two in covered counties and one in a non-covered county).⁵² Given these very small counts of black elected CLEOs, our documented reduction in black arrest rates following the VRA must be driven by a change in behavior and/or in the type of elected white sheriffs. Anecdotal evidence suggests that both channels are at play. While we do not have any direct measures of the behavior of white CLEOs, above and beyond our measures of arrest rates, we next use a case study to investigate more systematically whether the VRA increased sheriff turnover. In particular, we collected the names of all sheriffs in one key covered state, Alabama, and one uncovered state, Texas.⁵³ In the context of this case study, we then compare sheriff names over time and develop an indicator for sheriff incumbency. Using this measure, we deploy the same triple difference specification of our baseline analysis, using the change in the incumbency rate from before to after the VRA as the dependent variable measured using different end-points.⁵⁴ Once again our key independent variable is the interaction between coverage status and percent black in the country.⁵⁵ As shown in Figure 5, which plots the coefficients from separate regressions, we find a reduction in the incumbency rate, consistent with higher turnover, in covered counties with larger black shares following the VRA, and this finding is stable across all subperiods considered (1966-1970, 1970-1976, and 1976-1980). This result does not appear to be driven by pre-trends in incumbency

⁵²The small number of sheriffs is likely due to the fact that they tend to be elected county-wide, and very few Southern counties are majority black.

⁵³The data on the names of local elected officials are not available – to the best of our knowledge – from a central, national archive. In the case of Alabama, we have digitized them from the “Alabama Official and Statistical Register” various issues spanning 1954-1982; in the case of Texas the source is the “Texas Almanac”, various issues, spanning the period 1954-1981. Note that these data do not include any information on police chiefs since these are not county officials.

⁵⁴All changes are relative to the baseline pre-VRA period spanning elections between 1958-1964.

⁵⁵Note that the specification includes a separate control for coverage, which accounts for any differences in electoral institutions and laws between Texas and Alabama.

rates. If anything, incumbency rates were rising in the pre VRA period in Alabama as shown by the positive coefficient of the key interaction term.⁵⁶ In summary, while we do not know exactly why incumbent sheriffs were replaced, this findings are consistent with our anecdotal evidence, as discussed earlier, of black voters replacing racist white sheriffs post-VRA in covered counties with a large share of black voters.

Even if the VRA did not lead to black CLEOs, other black elected officials in local jurisdictions, such as commissioners in county governments, and mayors and city council members in municipal governments, might play a role in developing policing guidelines and practices, which in turn might affect arrest rates. We next investigate the role played by the race of other elected local officials, above and beyond CLEOs. Using again our triple-differences estimation strategy, we regress the long run difference in the share of black elected officials to county commissions, municipal governments and judicial bodies between 1962 and 1981 on the pre-VRA share of blacks and its interaction with the coverage indicator.⁵⁷ As shown in Table 6, we do find some evidence of a larger increase in the share of black elected officials at the local level within covered jurisdictions compared to non-covered ones. In particular, we find statistically significant increases in the share of black commissioners (column 1) at the county level, and these effects are large in magnitude. There is no corresponding increase in either the share of black judges, in either sample, or the share of black elected officials in municipal governments.

Given the increase in black county commissioners in covered jurisdictions with a larger share of African Americans, the estimated reduction in black arrest rates uncovered in our baseline results could be due to this change in black representation. To explore whether this is the case, we next exploit an additional source of variation, based upon whether local officials were elected by a

⁵⁶The change in the incumbency rate in the pre-VRA period is constructed by comparing 1958-1964 and 1954-1956. We cannot extend the database before 1954 since Texas changed term lengths for sheriffs in that year, making the elections less comparable to those in Alabama before 1954.

⁵⁷The share of black elected officials is defined as

$$ShareBlackElected_{cot} = \frac{BlackElected_{cot}}{Elected_{cot}} \quad (2)$$

where c , o and t denote county, office and year, respectively. For the numerator, we use the information collected by Bernini, Facchini, and Testa (2018) from the Southern Regional Council papers, local newspapers and the NRBEQ, whereas for the denominator we use data from the Census of Governments for 1967 and 1977. The Census reports the total number of elected officials for county governments (e.g. commission, judiciary and enforcement, and other offices) and municipalities, aggregated at the county level. Unfortunately, there is no separate information available for each county government category. As a result, to compute the share of blacks in each different type of county government we use the total number of elected officials in county governments as the denominator.

plurality rule in a unique district covering the entire jurisdiction (“at-large elections”) or in multiple districts (“district system”). District-based systems have been shown to be more favorable towards minorities, as documented in Trebbi, Aghion, and Alesina (2008) and Bernini, Facchini, and Testa (2018). As shown in columns 1 and 3 of Table 7, the increase in the share of African American commissioners documented above is driven entirely by counties with district-based elections. By contrast, the decline in black arrests takes place only in non-single member district counties (columns 2 and 4), despite the lack of a corresponding increase in black commissioners. Taken together, these additional findings suggest that our baseline results are not driven by newly elected black officials.

Third, as the racial composition of the police force might affect policing outcomes (see Donohue and Levitt 2001, McCrary 2007, Bulman 2019 and Ba et al. 2021), we next study whether elected officials post-VRA responded by altering the racial composition of the police force to address the demands of black voters, rather than attempting to change the practices of white officers directly.^{58,59} In the first four columns of Table 8, we investigate this question both in the short run (columns 1 and 2), covering 1959-1969, and in the long run (columns 3 and 4), covering 1959-1987. The dependent variable in all cases is the change in the number of black police officers per capita.⁶⁰ Our key finding is that covered counties with larger shares of African Americans do not

⁵⁸Donohue and Levitt (2001) analyze the relationship between the racial composition of police forces and arrests, finding that an increase in the number of minority police officers is associated with increases in white arrests, but that it does not affect arrest rates for non-whites. McCrary (2007) exploits the timing of federal lawsuits that mandated affirmative action on municipal police departments via hiring quotas. He finds that such litigation does increase the diversity of the police force and subsequently lowers black arrest rates for serious offenses. Bulman (2019) finds that agencies led by black sheriffs, compared to those led by white sheriffs, are associated with a lower black-to-white arrest ratio, and this relationship is driven by less serious offenses. Ba et al. (2021) find that Black and Hispanic officers make fewer stops and arrests compared to White officers, and that these disparities are driven by a reduced focus on Black civilians and minor crimes.

⁵⁹Another related literature examines whether the differential treatment of blacks by police officers represents statistical discrimination or preference-based discrimination. Knowles, Persico, and Todd (2001) develop an outcomes test, documenting that the outcomes of searches by police during traffic stops does not vary according to race. In the context of their model, this finding is consistent with statistical discrimination. Antonovics and Knight (2009) and Anwar and Fang (2006) also employ information on the race of police officers in these interactions. Antonovics and Knight (2009) find that cross-race interactions, i.e. traffic stops of black drivers by white officers and of white drivers by black officers, are more likely to lead to police searches and argue that this finding is consistent with preference-based discrimination.

⁶⁰The data for the short run analysis have been digitized from Rudwick (1962) and Southern Regional Council (1983) and span the period 1959-1969. The end period data for the long run analysis have been instead obtained from the 1987 Law Enforcement Management and Administrative Statistics (LEMAS) survey (ICPSR 9222), which was administered to all enforcement agencies with at least 100 employees and to a nationally representative sample for smaller entities. As a result, the long run analysis covers a smaller sample. We also attempted to access data from the Equal Employment Opportunity Commission (EEOC) but our FOIA request was denied due to a recent elimination of

experience a different pattern in the racial composition of the police force. This evidence is consistent with the idea that the change in the racial patterns of arrests is primarily driven by changes in police practices implemented by CLEOs elected after the VRA. Our findings thus corroborate the qualitative evidence reported by the United States Commission On Civil Rights (2000) highlighting that police officers' performance of their duties in the field are "...heavily influenced by the leadership of their department... When incidents of brutality, misconduct or racism occur, the chiefs immediate reaction to these incidents will have a great impact on whether the incident will be repeated in the future" (page 30).⁶¹

8 Alternative Explanations

While our results point to changes in policing practices, there are several alternative explanations for the documented reduction in arrest rates for blacks in covered jurisdictions. First, the ability of CLEOs to change police practices and to discipline their workforce following misconduct might be constrained by the presence of unions, which are more relevant for police chiefs than for sheriffs (Zoorob 2020). As a result, unionization might drive the observed pattern in arrests rates. Second, there could have been changes in the underlying black population following the VRA, affecting the supply of crime and ultimately black arrest rates. Third, even in the absence of changes in the black population, the supply of crime could vary in response to changes in policing practices. Fourth, our results could be driven by elevated levels of black arrests associated with protests during the pre-VRA era. In this section, we attempt to address these alternative explanations in turn.

We start with the potential role of unionization. Trade unions have been historically weak in the South and, before the passage of the VRA, police bargaining rights in this area of the country were severely restricted.⁶² Thus it is unlikely that the effect of elected CLEOs we have uncovered could be driven by patterns of union bargaining power rather than electoral accountability. Nevertheless,

the data sharing program for researchers.

⁶¹Further support for the role of CLEOs is provided by a survey of randomly selected law enforcement officers carried out by the Police Foundation, summarized in United States Commission On Civil Rights 2000. The main findings was that "approximately 85 percent of the respondents agreed or strongly agreed that a police chief's strong position against the abuse of authority can make a big difference in deterring officers from abusing their authority."

⁶²None of the former Confederate states had any collective bargaining laws for police in place pre-VRA, and even after 1965 the South continued to lag behind the rest of the country. In fact, as of 1978, only two States – Florida and Louisiana – had introduced state collective bargaining laws for police forces (Ichniowsky 1982).

in the last two columns of Table 8 we explore this possibility by exploiting information from the 1987 LEMAS survey on agencies covered by collective bargaining agreements to build an indicator of unionization. The latter can be interpreted as a change, given that in the pre-VRA period the number of such agreements is effectively zero. As shown, there is no differential pattern in collective bargaining between the treatment and control groups, and this is true for both the police and the sheriff sample. Hence, while police trade unionism might well play a role elsewhere in the country or in later years, we can rule it out as an important factor in the South during our sample period.

The second alternative explanation involves other changes in the black experience brought about by the VRA. Improvements in black education or labor market conditions induced by the VRA, for example, could lead to changes in the propensity to commit crimes for reasons unrelated to policing patterns. This could then mechanically change arrest rates of blacks for reasons related to the VRA but by a different mechanism, involving changes in the supply of crime.⁶³ Related to this, to the extent that police officers engage in statistical discrimination, policing patterns might respond to changes in the propensity of blacks to commit crimes. This statistical discrimination could in turn lead to changes in arrests rates for blacks, again for reasons related to the VRA but via a different mechanism.

We attempt to address this second alternative explanation in two ways: a discussion of the timing of the effects documented before, and direct measurement of the supply of crime and other outcomes related to the propensity to commit crime, e.g. educational attainment, poverty and unemployment. First, as documented in Section 6, our event study analysis demonstrates that the reduction in black arrests in places with a large share of black voters first appeared in the five years after implementation of the VRA. Improvements in black education and subsequent labor market outcomes when transitioning into adulthood, by contrast, may take many years to materialize.

Regarding the supply of crime, once again we use the data on reported crimes (overall, property and violent crime), to carry out an event study with annual frequency. As summarized in Figure 6, there is no difference in the gradient between covered and non-covered counties for the entire sample or in each of the sheriff and police sub-samples. The same holds true when we focus on

⁶³More formally, the probability of arrest can be written as $\Pr(\text{arrest}) = \Pr(\text{arrest}|\text{crime})\Pr(\text{crime})$. We are interested in the effect of the VRA on $\Pr(\text{arrest}|\text{crime})$ but can only measure $\Pr(\text{arrest})$. Thus, any corresponding changes in $\Pr(\text{crime})$ could potentially bias our results.

long run differences (e.g. between 1960 and 1980) for different types in the first two columns of Table 9. While these measures are not race specific, they document no differential changes in crime in treated areas, those covered by the VRA and with a large share of black voters. While one might naturally expect that a reduction in arrests should provide incentives for more crime, note that police brutality during the pre-VRA era was often designed to suppress blacks, rather than to reduce crime, as argued earlier.

Next, we examine changes in the black experience following the VRA along three dimensions: changes in migration patterns, improvements in education, and improvements in labor market conditions. Regarding migration, as shown in columns (3) and (4) of Table 9, covered counties in the sheriff sample experienced both a significant increase in population and in the share of blacks, whereas we see no differential demographic change in the police sample. This pure population change cannot explain our results, however, since we use time-varying and race-specific measures of population when measuring crime rates. Nevertheless, there could be a change in the composition of the African American population, especially given that our sample period overlaps with the second wave of the Great Migration, which ended around 1970 (Calderon, Fouka, and Tabellini 2021). If highly educated blacks in covered counties with a large share of black voters were less likely to move North, due to other changes brought about by the VRA, this could lead to a relative reduction in black arrest rates in these places. To tackle this issue, in columns 5-10, we investigate patterns of socio-demographic outcomes that are likely to be related to the propensity to commit crimes (i.e., educational attainment, unemployment and poverty). Our analysis indicates the absence of differential effects between covered and uncovered counties both in the sheriff and in the police samples. This is true when we consider characteristics of the entire population (columns 5-7) and those of blacks alone (columns 8-10), which are separately reported by the Census for counties with more than 1,000 African Americans.⁶⁴

The third alternative explanation involves changes in the supply of crime by blacks, relative

⁶⁴While these results suggest that our baseline findings with respect to arrests are not driven by changes in labor market conditions, it of course remains possible that the VRA brought about changes in labor market outcomes for blacks, as documented in Aneja and Avenancio-Leon (2019). Most importantly, our analysis focuses on the interaction between coverage status and percent black in the county, whereas Aneja and Avenancio-Leon (2019) focus on the direct effect of coverage status. Moreover, their analysis focuses on wages, whereas our analysis focuses on unemployment, an outcome for which they find no changes resulting from the VRA. In addition, even if labor markets conditions improved for blacks in covered counties with a large share of newly enfranchised black voters, this cannot explain our differential findings for elected sheriffs vs appointed police chiefs.

to whites, following the VRA, even in the absence of other changes in black experience brought about by the VRA. In particular, to the extent that crime responds to enforcement practices, we might expect an increase in the supply of black crime in response to a reduction in mistreatment of blacks by police. Thus, if anything, changes in the supply of crime via this mechanism should work against our identification strategy, leading us to understate the reduction in black arrests associated with better treatment of blacks by police in covered areas following the VRA.

The fourth alternative explanation involves the suppression of civil rights protests. During the pre-VRA era, there were widespread reports of arrests of African American protesters, perhaps inflating black arrest rates during our pre-period in covered areas and contributing to our documented reduction in black arrests following the VRA. We have attempted to address this issue by controlling for black activism at the county level and interacting this measure of black activism with coverage status. In addition, our results are driven by arrests in the sheriff sample, and, if anything, protests were concentrated in more urban areas, those under the jurisdiction of municipal police chiefs. Thus, arrests of black protesters during the pre-VRA era also cannot explain our key findings.

9 Conclusion

In this paper, we investigate the effect of the enfranchisement of black voters on police practices, as captured by race-specific arrest rates. Following the VRA, which enfranchised African American voters, black arrest rates fell in areas both covered by the VRA and with a large number of newly enfranchised black voters. We find no corresponding patterns for white arrest rates. These results are due to less serious offenses, for which police might naturally have more discretion in arrest decisions, relative to more serious offenses. The decline in black arrest rates is driven by sheriffs, who are universally elected in our sample. We do not find corresponding differences on the whole for arrests by police chiefs who are overwhelmingly appointed, yielding credence to our hypothesized electoral mechanism. Taken together, our results indicate that enfranchisement of minority groups can lead to improved treatment by police, but only when CLEOs are elected, rather than appointed.

While historical in nature, these findings have significant policy implications today, especially

given the ongoing national debates over both race and policing and race and voting. On the one hand, although blacks continue to be disproportionately targeted by law enforcement, our results indicate that having locally elected CLEOs affects accountability and improves the treatment of minority groups by police. On the other, since the franchise matters, should recently enacted changes in the cost of voting, such as voter ID laws, have disproportionate effects on black voters, this might lead to a further worsening of the treatment of minorities by police. Taken together, these results emphasize the important link between the administration of justice and the democratic process.

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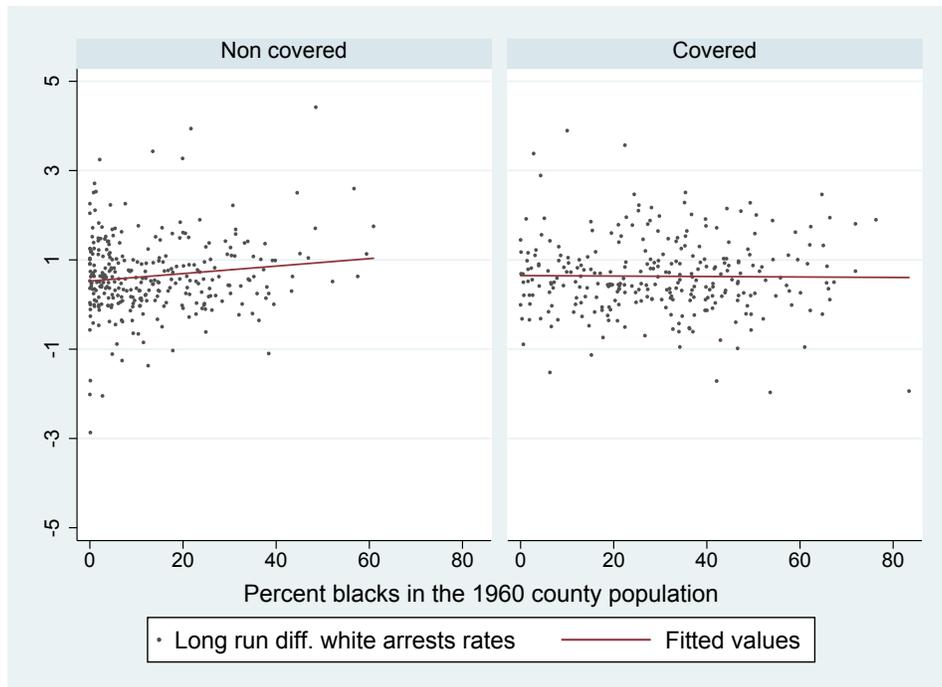
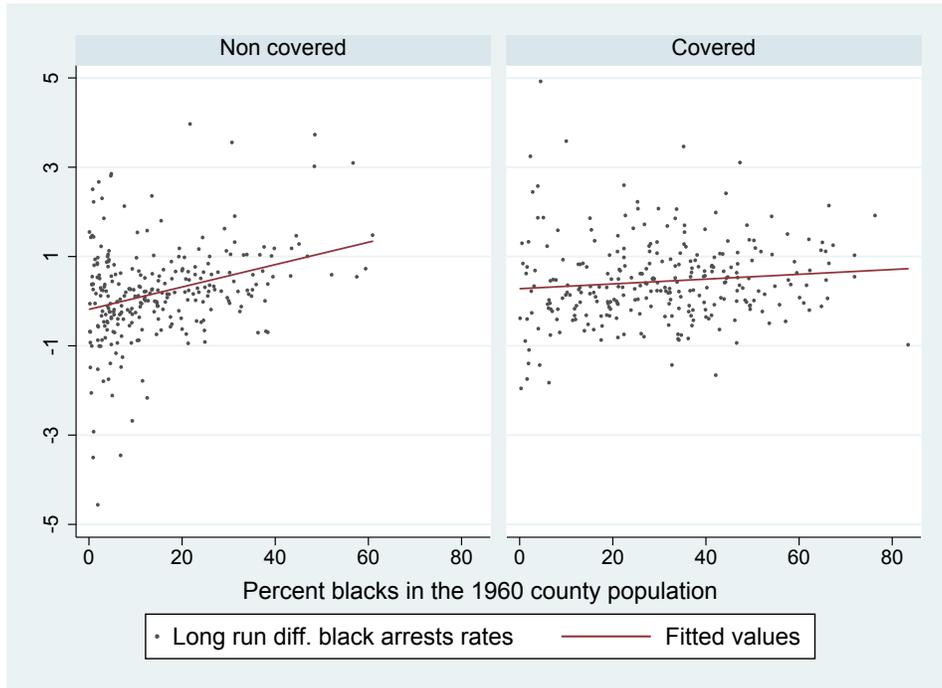
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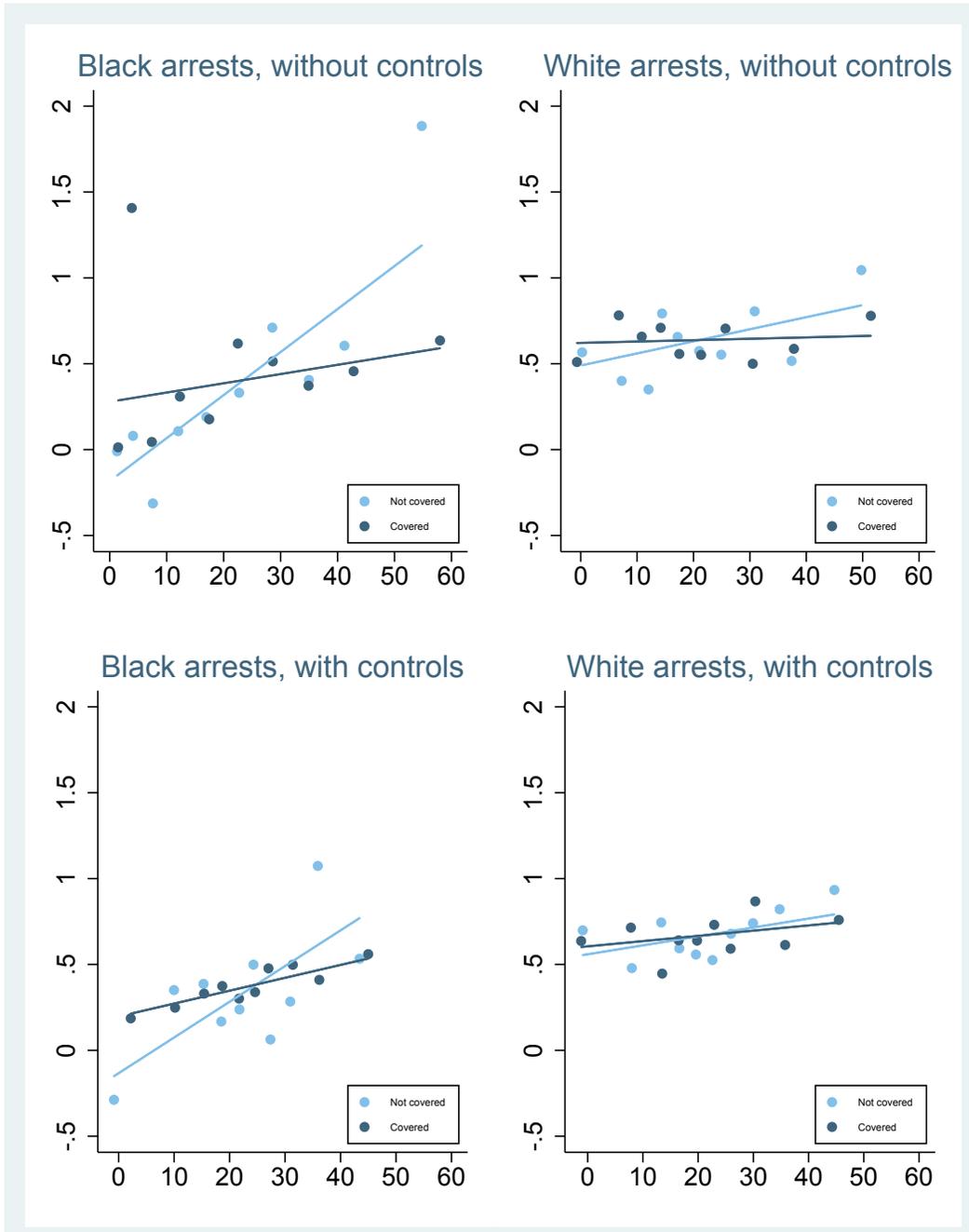
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Figure 1: Change in arrest rates (1960-1981), by coverage



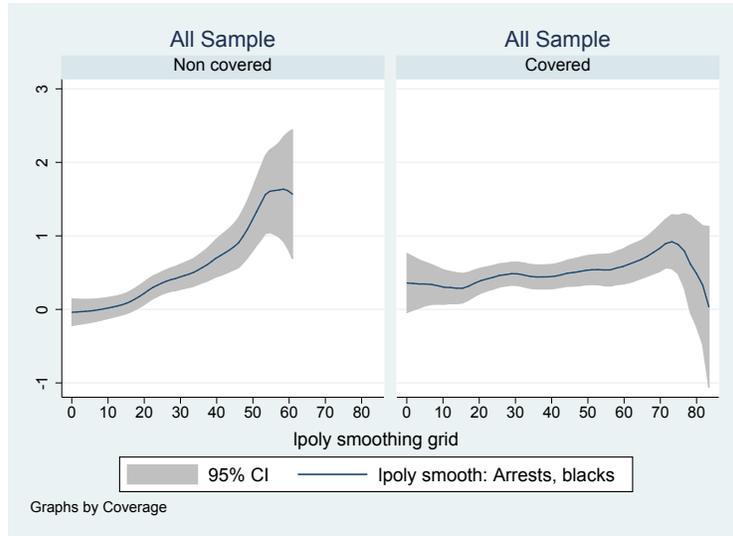
Note: Estimated parameter: Black share 1960. Bars represent 95% confidence intervals

Figure 2: Change in arrest rates (1960-1981), by coverage



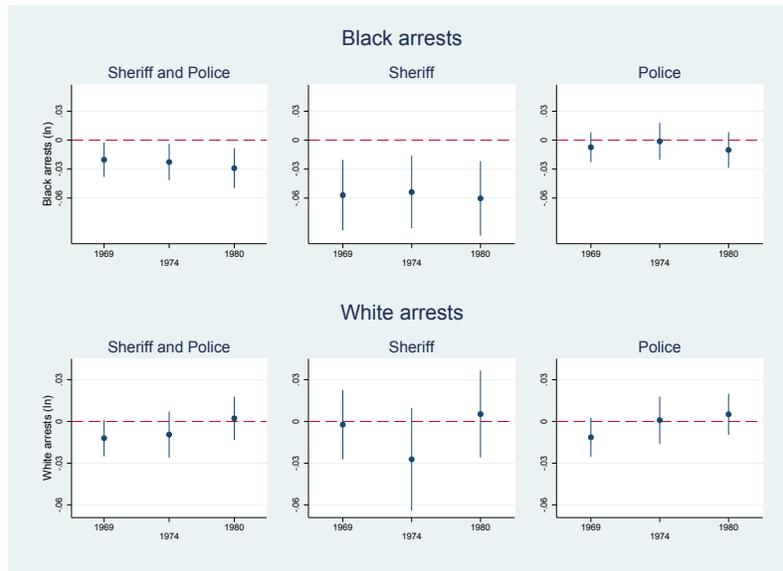
Note: The two figures are binned scatterplot with 10 equally sized bins obtained regressing the long run difference in Ln arrests rates on the share of blacks in 1960. Controls include state trends and the following 1960 county characteristics: population (in logs), unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police in 1959.

Figure 3: Change in black arrest rates (1960-1981), by coverage



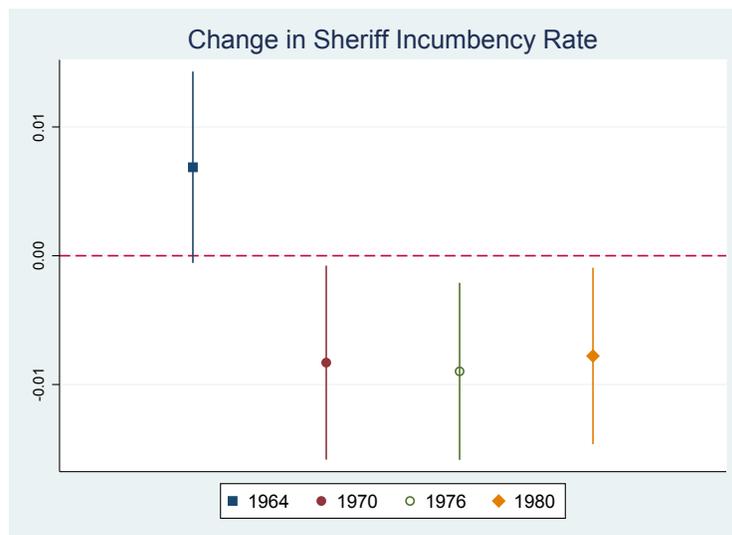
Note: The two figures are local polynomial non-parametric fits

Figure 4: Event study: difference in the gradient between covered and non-covered counties



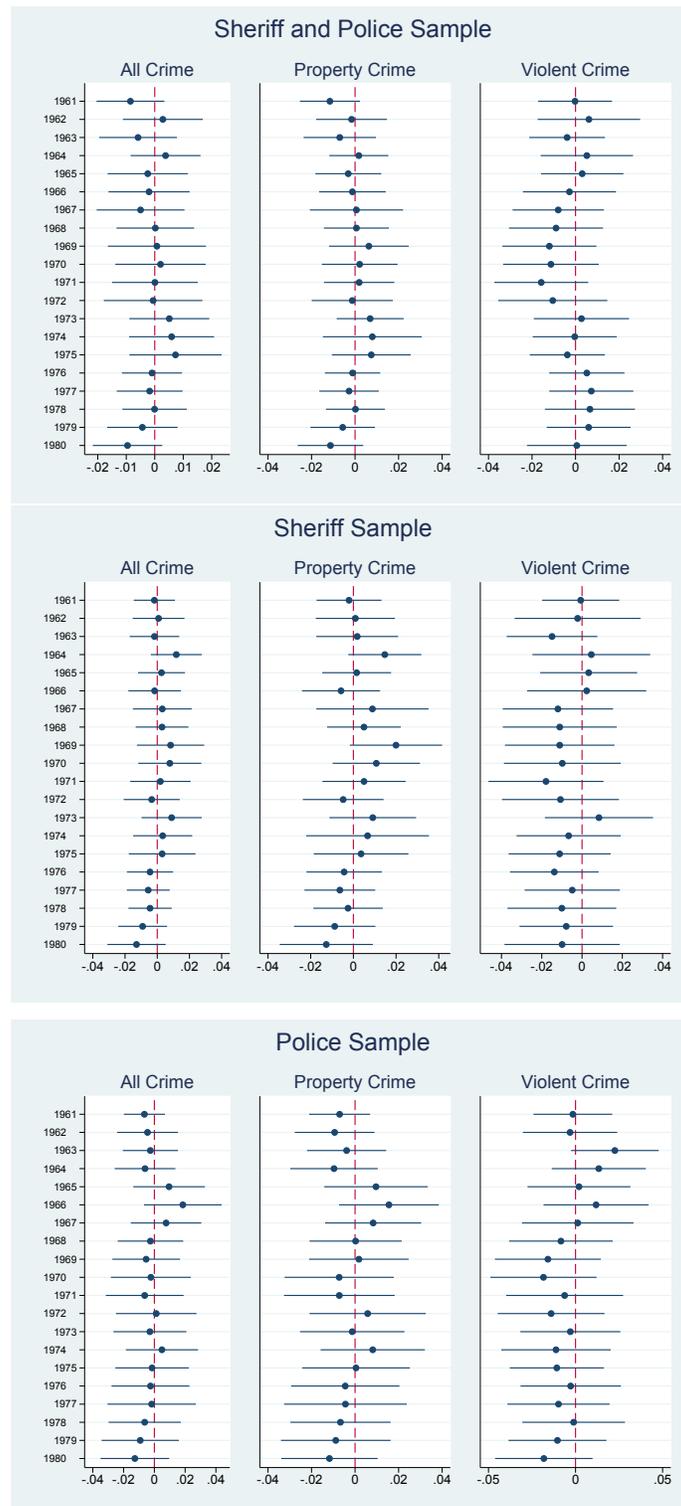
Note: Estimated parameter: Black share 1960 x Coverage. In all our specifications, we include population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police, state-year interactions and county fixed effects. Omitted interaction: 1960. Bars represent 95% confidence intervals.

Figure 5: Change in Sheriff Incumbency rate: difference between a covered (AL) and a non-covered state (TX)



Note: Estimated parameter: Black share 1960 x Coverage. The change in incumbency rate in the post-VRA period is the difference between the average post-VRA incumbency rates for elections taking place respectively between 1966–70, 1970–1976, and 1976–1980 and that for elections taking place between 1958–1964. The change in incumbency rate in the pre-VRA period is the difference between the average incumbency rate for elections taking place between 1958–1964 and that for elections taking place between 1954–1956.

Figure 6: Crimes reported: difference in the gradient between covered and non-covered counties



Note: Estimated parameter: Black share 1960 x Coverage. In all our specifications, we include population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police, state-year interactions and county fixed effects. Omitted interaction: 1960. Bars represent 95% confidence intervals

Table 1: OLS models. Pre-VRA trends in civil right activism, political participation, racial attitudes and crime

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Property Crime	Violent Crime	Black Force	White Force	Lynching	KKK	NAACP	Turnout
<i>Police and Sheriff Sample</i>								
Percent black, 1960 x Coverage	0.006 (0.007)	-0.004 (0.012)	-0.000 (0.002)	-0.002 (0.001)	0.002 (0.002)	0.001 (0.005)	-0.015 (0.010)	0.002 (0.003)
Controls	Yes	Yes						
Controls x Coverage	Yes	Yes						
State Trends	Yes	Yes						
Adj. R-Square	0.07	-0.01	0.01	0.05	0.03	0.17	0.34	0.48
N	258	248	524	524	524	524	524	523
<i>Sheriff Sample</i>								
Percent black, 1960 x Coverage	0.007 (0.009)	0.000 (0.016)	0.001 (0.003)	-0.002 (0.002)	0.002 (0.003)	-0.021 (0.014)	-0.002 (0.005)	0.005 (0.003)
Controls	Yes	Yes						
Controls x Coverage	Yes	Yes						
State Trends	Yes	Yes						
Adj. R-Square	0.06	-0.06	0.09	0.05	0.04	0.28	0.21	0.35
N	185	176	280	280	280	280	280	280
<i>Police Sample</i>								
Percent black, 1960 x Coverage	-0.013 (0.011)	0.012 (0.014)	-0.002 (0.003)	-0.001 (0.002)	-0.000 (0.003)	-0.013 (0.017)	0.005 (0.008)	0.003 (0.004)
Controls	Yes	Yes						
Controls x Coverage	Yes	Yes						
State Trends	Yes							
Adj. R-Square	-0.04	0.01	0.00	0.05	-0.01	0.38	0.20	0.46
N	287	254	370	370	370	370	370	369

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Controls: percent black, population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police.

Table 2: OLS models. Pre-VRA trends in demographic and economic characteristics

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Black Share	Population	Rural	Unemp	Unskilled	Poor	Cotton Yield
<i>Sheriff and Police Sample</i>							
Percent black, 1960 x Coverage	0.022 (0.020)	0.002* (0.001)	0.174*** (0.059)	-0.013 (0.013)	0.014 (0.019)	0.001 (0.041)	-0.003 (0.002)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Controls x Coverage	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adj. R-Square	0.25	0.62	0.54	0.47	0.35	0.40	0.20
N	524	524	524	524	524	524	521
<i>Sheriff Sample</i>							
Percent black, 1960 x Coverage	0.016 (0.019)	0.002** (0.001)	0.105 (0.069)	-0.009 (0.014)	-0.015 (0.023)	-0.034 (0.051)	-0.003 (0.003)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Controls x Coverage	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adj. R-Square	0.28	0.58	0.56	0.52	0.27	0.43	0.21
N	280	280	280	280	280	280	278
<i>Police Sample</i>							
Percent black, 1960 x Coverage	0.035 (0.037)	0.001 (0.001)	0.173*** (0.066)	-0.018 (0.017)	0.026 (0.025)	0.041 (0.055)	-0.002 (0.003)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Controls x Coverage	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adj. R-Square	0.27	0.66	0.55	0.39	0.41	0.41	0.12
N	370	370	370	370	370	370	368

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Controls: percent black, population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police.

Table 3: OLS models. Dependent Variable: Sheriffs and Police, Long run Difference in ln Arrests rates, by race (1960-1981)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	black	white	black	white	black	white	black	white
Percent black, 1960 x Coverage	-0.015** (0.006)	-0.006 (0.006)	-0.018** (0.008)	-0.003 (0.006)	-0.016** (0.007)	-0.005 (0.006)	-0.018** (0.009)	-0.002 (0.007)
Percent black, 1960	0.019*** (0.006)	0.004 (0.004)	0.020*** (0.006)	0.003 (0.004)	0.023*** (0.006)	0.007 (0.005)	0.023*** (0.006)	0.007 (0.005)
Economic Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Other Controls	No	No	No	No	Yes	Yes	Yes	Yes
Coverage X Controls	No	No	Yes	Yes	No	No	Yes	Yes
State Trends	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adj. R-Square	0.10	0.03	0.10	0.03	0.12	0.03	0.11	0.03
N	551	589	551	589	486	524	486	524

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Economic Controls: population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural. Other controls: cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police.

Table 4: OLS models. Dependent Variable: Sheriff vs. Police Long run Difference in ln Arrests rates, by race (1960-1981)

	Sheriff sample		Police sample	
	(1)	(2)	(3)	(4)
	black	white	black	white
Percent black, 1960 x Coverage	-0.032** (0.014)	-0.010 (0.011)	-0.003 (0.008)	0.007 (0.006)
Controls	Yes	Yes	Yes	Yes
Coverage X Controls	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes
Adj. R-Square	0.04	0.03	0.14	0.18
N	246	280	354	370

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Controls: percent black, coverage, population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police.

Table 5: OLS models. Dependent Variable: Long run Difference in ln Arrest rates, by race and offense (1960-1981)

	(1) felony black	(2) non felony black	(3) felony white	(4) non felony white
<i>Sheriff and Police sample</i>				
Percent black, 1960 x Coverage	-0.015 (0.010)	-0.021** (0.009)	-0.007 (0.008)	0.002 (0.007)
Controls	Yes	Yes	Yes	Yes
Coverage X Controls	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes
Adj. R-Square	0.07	0.13	0.04	0.03
N	457	484	513	523
<i>Sheriff sample</i>				
Percent black, 1960 x Coverage	-0.026 (0.016)	-0.039** (0.015)	-0.014 (0.011)	-0.004 (0.012)
Controls	Yes	Yes	Yes	Yes
Coverage X Controls	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes
Adj. R-Square	0.02	0.04	0.04	0.03
N	231	244	278	279
<i>Police sample</i>				
Percent black, 1960 x Coverage	0.004 (0.011)	-0.006 (0.007)	0.004 (0.010)	0.006 (0.007)
Controls	Yes	Yes	Yes	Yes
Coverage X Controls	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes
Adj. R-Square	0.07	0.19	0.05	0.20
N	330	353	358	370

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Controls: percent black, coverage, population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police.

Table 6: OLS models. Dependent Variable: Change in black office holding (1960-1981)

	Sheriff sample		Police sample	
	(1) Commissioners	(2) Judicial	(3) Municipal council	(4) Judicial
Percent black, 1960 x Coverage	0.143** (0.070)	-0.003 (0.005)	0.003 (0.079)	0.007 (0.012)
State Trends	Yes	Yes	Yes	Yes
Coverage X Controls	Yes	Yes	Yes	Yes
Adj. R-Square	0.41	0.32	0.39	0.07
N	246	246	354	354

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Controls: percent black, coverage, population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police.

Table 7: OLS models. Dependent Variable: Long run Difference in black office holding and black arrests by election rule, sheriff sample (1960-1981)

	<i>Single member district</i>		<i>Non single member district</i>	
	(1) Commissioners	(2) Black Arrests	(3) Commissioners	(4) Black Arrests
Percent black, 1960 x Coverage	0.171** (0.072)	-0.020 (0.019)	0.100 (0.178)	-0.087*** (0.027)
Coverage X Controls	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes
Adj. R-Square	0.49	0.00	0.24	0.18
N	164	164	82	82

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Controls: population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests.

Table 8: OLS models. Characteristics of the police force

	Δ number of black police p.c.				Δ collective bargaining	
	1959–1969		1959–1987		1959–1987	
	(1)	(2)	(3)	(4)	(5)	(6)
	Sheriff sample	Police sample	Sheriff sample	Police sample	Sheriff sample	Police sample
Percent black, 1960 x Coverage	0.000 (0.001)	-0.000 (0.001)	0.003 (0.003)	-0.003 (0.002)	-0.004 (0.005)	-0.002 (0.005)
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Coverage X Controls	Yes	Yes	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes	Yes	Yes
Adj. R-Square	0.25	0.04	0.62	0.56	0.28	0.22
N	280	370	95	173	95	173

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Controls: population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests.

Table 9: OLS models. Post-VRA trends, by race (1960-1981)

	All counties							Counties with # Blacks \geq 1,000		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Property Crime	Violent Crime	Population	Black share	Unskilled	Unemp	Poor	Black Unskilled	Black Unemp	Black Poor
<i>Sheriff Sample</i>										
Percent black, 1960 x Coverage	-0.012 (0.012)	-0.010 (0.016)	0.005** (0.002)	0.104** (0.047)	0.023 (0.045)	-0.003 (0.020)	-0.019 (0.042)	-0.006 (0.124)	-0.012 (0.061)	0.118 (0.153)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Controls x Coverage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adj. R-Square	0.24	0.11	0.38	0.44	0.35	0.45	0.82	0.35	0.35	0.45
N	201	190	280	280	280	280	280	169	172	165
<i>Police Sample</i>										
Percent black, 1960 x Coverage	-0.009 (0.011)	-0.016 (0.015)	0.003 (0.002)	0.038 (0.035)	0.071* (0.041)	0.005 (0.017)	0.025 (0.037)	0.042 (0.074)	-0.032 (0.046)	0.128 (0.103)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Controls x Coverage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adj. R-Square	0.06	0.11	0.39	0.52	0.36	0.53	0.82	0.42	0.28	0.56
N	305	271	370	370	369	370	370	306	304	298

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Controls: percent black, population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police.

Appendix

Proofs

Proof of Proposition 1 Taking p_2 as given, the first-order condition for candidate 1 is given by:

$$\omega \frac{\partial Q_1}{\partial p_1} = (1 - \omega) \frac{\partial Q_1}{\partial p_1} [0.5(p_1 - p^W)^2 - 0.5(p_2 - p^W)^2] + (1 - \omega) Q_1 (p_1 - p^W)$$

Changes in announced platforms by candidate 1 leads to changes in the probability of winning, which has direct effects on candidate payoffs from winning (the left hand side) but also effects on the policies that are implemented and candidate preferences over those policies, as represented by the right-hand side.

Moreover, the effect of making policies harsher on the probability of winning is given by:

$$\frac{\partial Q_1}{\partial p_1} = f[\rho\beta\Delta^B + \rho(1 - \beta)\Delta^W] [-\rho\beta(p_1 - p^B) - \rho(1 - \beta)(p_1 - p^W)]$$

When candidate 1's platform is more harsh than preferred by blacks but less harsh than preferred by whites ($p^B < p_1 < p^W$), making policies more harsh leads to more support from white voters but less support from black voters. Putting this back into the candidate equilibrium condition above, using symmetry, and re-arranging, equilibrium polices can be characterized by a weighted average of black and white bliss points:

$$p^* = \alpha p^B + (1 - \alpha) p^W$$

where the weight on policy preferences of black voters equals:

$$\alpha = \frac{\omega f(0) \rho \beta}{\omega f(0) \rho \beta + \omega f(0) \rho (1 - \beta) + (1 - \omega)}$$

Finally, the weight on the policy preferences of black voters is increasing in the black share of the population (β).

Proof of Proposition 2 With an appointed CLEO, the pre-VRA equilibrium is unchanged ($p^* = p^W$) but the post-VRA equilibrium in police treatment of blacks is given by:

$$p^* = \tilde{\alpha}p^B + (1 - \tilde{\alpha})p^W$$

where the weight on black preferences now equals:

$$\tilde{\alpha} = \frac{\omega f(0)\tilde{\rho}\beta}{\omega f(0)\tilde{\rho}\beta + \omega f(0)\tilde{\rho}(1 - \beta) + (1 - \omega)}$$

A marginal increase in the share of black voters shifts equilibrium policy towards those preferred by blacks in proportion to the weight placed on black voters by policy makers. That is, $\partial\alpha/\partial\beta = \alpha/\beta$ and $\partial\tilde{\alpha}/\partial\beta = \tilde{\alpha}/\beta$. Moreover, one can show that $\alpha > \tilde{\alpha}$ due to the fact that $\rho > \tilde{\rho}$ and so long as candidates place some weight on both policy and winning ($0 < \omega < 1$). Thus, a marginal increase in the share of black voters leads to a bigger shift in police treatment of blacks under elected officials than under appointed CLEOs.

Variable definitions and sources

Arrests data.

Arrests executed by local police offices between 1960-1981 have been obtained from the Uniform Crime Reports (UCR) reporting information on arrests by race and local enforcement agency provided by voluntary filing for agencies that report for 12 months in a calendar year. Since the number of reporting agencies varies over time, we have retained only agencies for which we have information before and after the VRA passage to build a panel of municipal police and sheriff offices that we have subsequently mapped to counties, obtaining a balanced panel of 484 counties (out of a universe of 1137) for the pre-VRA (1960-1965) and post-VRA (1975-1980) periods. These data have been combined with Census data on population by county to construct the average county arrest rates pre-VRA (1960-1965) and post-VRA (1975-1980) described below.

Arrest rate pre-VRA, black: Black arrests per thousands (1960-1965).

Arrest rate pre-VRA, white: White arrests per thousands (1960-1965).

Arrest rate post–VRA, black: Black arrests per thousands (1975-1980).

Arrest rate post–VRA, white: White arrests per thousands (1975-1980).

Difference in Ln Arrest rate, black: Difference between the natural log of black arrest rates post–VRA and pre–VRA.

Difference in Ln Arrest rate, white: Difference between the natural log of white arrest rates post–VRA and pre–VRA.

Coverage.

Dummy variable equal to one for the counties that were covered under Section 5 of the VRA in 1965 and zero otherwise. All counties of six states (Alabama, Georgia, Louisiana, Mississippi, South Carolina, and Virginia) were covered, whereas, of the 100 North Carolina counties, 39 were covered, i.e. Anson, Beaufort, Bertie, Bladen, Camden, Caswell, Chowan, Cleveland, Craven, Cumberland, Edgecombe, Franklin, Gaston, Gates, Granville, Greene, Guilford, Halifax, Harnett, Hertford, Hoke, Jackson, Lee, Martin, Nash, Northampton, Onslow, Pasquotank, Perquimans, Person, Pitt, Robeson, Rockingham, Scotland, Union, Vance, Washington, Wayne, Wilson (source: <https://www.justice.gov/crt>). All counties of Arkansas, Florida, Tennessee, and Texas were instead not covered.

County characteristics.

Percent black, 1960: percent black in the 1960 county population is from the County and City Data Book Consolidated File, County Data 1947-1977 (U.S. Department of Commerce 1978).

Population, 1960: the county population is from the County and City Data Book Consolidated File, County Data 1947-1977 (U.S. Department of Commerce 1978).

Unemployment rate, 1960: county unemployment rate is from the County and City Data Book Consolidated File, County Data 1947-1977 (U.S. Department of Commerce 1978).

Percent poor, 1960: percentage of families with income less than 3,000 USD in 1960 is from the County and City Data Book Consolidated File, County Data 1947-1977 (U.S. Department of Commerce 1978).

Percent unskilled, 1960: county percentage of 25 years old or more without a high school diploma in 1960 is from the County and City Data Book Consolidated File, County Data 1947-

1977 (U.S. Department of Commerce 1978).

Percent rural, 1960: county percentage of population living in rural farms in 1960 is from the County and City Data Book Consolidated File, County Data 1947-1977 (U.S. Department of Commerce 1978).

Pro-black activism, 1960-64: counts of pro-black events occurred between 1960 and 1964 as reported by the Dynamics of Collective Action Dataset by states and cities, matched to counties by the authors. Source: web.stanford.edu/group/collectiveaction/cgi-bin/drupal.

Anti-black activism, 1960-64: counts of anti-black events occurred between 1960 and 1964 as reported by the Dynamics of Collective Action Dataset by states and cities, matched to counties by the authors. Source: web.stanford.edu/group/collectiveaction/cgi-bin/drupal.

NAACP: change in the standardized (by black population) count of local branches of the National Association for the Advancement of Colored People (NAACP), by county, between 1940 and 1964. The information on the location of local branches of the NAACP has been obtained from the University of Washington's project 'Mapping American Social Movements Through the 20th Century', which reports the municipality of each branch. These locations have been mapped to the corresponding counties by the authors.

KKK: change in the standardized (by black population) counts of Ku Klux Klan organizations (known as Klaverns) by county. Information on the location of Klan organizations has been obtained from two sources. For the year 1940, information on the location of each Klavern has been obtained from the Virginia Commonwealth University's project 'Mapping the Second Ku Klux Klan', which lists the exact location of each headquarter (in a latitude and longitude format), mapped to the counties by the authors. For the later period, the location by county has been obtained from 'The Present-Day Ku Klux Klan Movement: Report by the Committee on Un-American Activities. House of Representatives. Ninetieth Congress, First Session. 1967' (pp. 145-163), which reports information on active Klaverns between 1964-1966.

Presidential turnout: difference in the natural log of presidential turnout in 1964 and 1944, where presidential turnout is given by the votes cast in the 1964 and 1944 presidential elections divided by population of voting age. The data on votes cast in the presidential election are from Electoral Data for Counties in the United States: Presidential and Congressional Races, 1840-1972, ICPSR 8611. The data on population of voting age are from the Minnesota Population

Center, National Historical Geographic Information System and from the U.S. Census.

Cotton suitability: maximum potential cotton yield by county (e.g. cotton suitability index).
Source:(Hornbeck and Naidu 2014)

Farm size: number of farms with 700 acres or more from United States Agriculture Data, 1840-2012, ICPSR 35206.

Number of blacks in the police force: the 1959 data have been digitized from Rudwick (1962) and the 1969 have been digitized from Southern Regional Council (1983).

Cotton yield: change in cotton yield computed as the difference in the natural log of cotton yields in 1964 and 1945, where the cotton yield is the number of cotton bales per acre of land devoted to the cultivation of cotton by county. Cotton bales and acres of land devoted to cultivation of cotton are from the United States Agriculture Data, 1840-2012, ICPSR 35206.

Homicides Data

Homicides data are derived from the NCHS multiple causes of death database:

<https://www.nber.org/research/data/mortality-data-vital-statistics-nchs-multiple-cause-death-data>.

Our time period focuses on 1959-1978. We do not focus on the period after 1978 due to the changes in the data.

Homicides are coded using the following cause of death codes in each year: 980-983 (1959-1967), 960-969 (1968-1978).

Homicides caused by police are coded using the following cause of death codes in each year: 984 (1959-1967), 970-977 (1968-1978).

NCHS county codes were converted to FIPS county codes using the NCHS/FIP county cross-walk. County FIPS codes had to be created manually in Virginia due to inconsistent treatment of independent cities over time. All counts were doubled in 1972 given that the NCHS only processed one-half of all death certificates in that year.

Crime Data

Reported violent and property crimes are derived from Jacob Kaplan's Concatenated Files: Uniform Crime Reporting Program Data: Offenses known and clearances by arrest, 1960-2020. Crimes counts by agency have been mapped to counties retaining only agencies that report for at

least three months in a calendar year. Crime rates for property and violent crimes are then derived by dividing the respective total number of reported crimes by agency in each county by the county population in the closest census year.

Black elected officials.

The share of black elected officials by type of office is the number of black elected officials in County Commissions, municipal council and judges as reported by the National Roster of Black Elected Officials, divided by the total number of elected officials for the corresponding offices at county level, as reported by the Census of Governments. Judges belong to courts whose jurisdiction does not exceed the boundaries of a county and include the following courts: city and municipal courts, traffic courts, family courts, juvenile courts, pro- bate courts, general sessions courts, and county courts. When the numerator is zero and the denominator is missing, the share is zero. The total number of black elected officials in each local office in the US South has been obtained by counting the black elected officials by office reported in the National Roster of Black Elected Officials in 1969, 1971, and for the period 1973-1980. These officials have been matched to the counties using the address provided by the Roster. The information on the total number of elected officials by type of office that is used to construct the share of black elected officials is only available from the Census of Governments in 1967 and 1977. Thus, for the period 1964-1972, the total number of elected officials by type of office are taken from the Census of Governments, Volume 1, Governmental Organization, Number 2, Popularly Elected Officials, 1967. For the period 1973-1982, elected officials by type of office are taken from the Census of Governments Volume 1, Governmental Organization, Number 2, Popularly Elected Officials, 1977.

Election rule of county governing bodies and police chiefs.

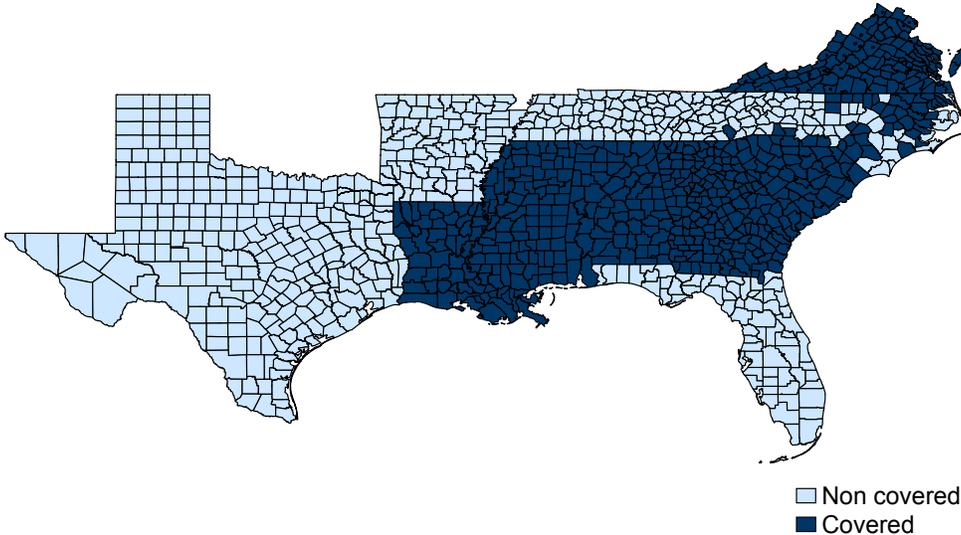
The information on the system of elections of members of county governing bodies and police chiefs comes from the Census of Governments, Elective Offices of State and Local Governments (1957) and from the National Roster of Black Elected Officials (NRBEO, 1980). We have used the summary information reported by the Census of Government (1957) and the NRBEO (1980) at state level to construct indicators for the system of elections of county governing bodies and police chiefs as detailed below.

Elected Police chiefs: indicator equal to one for counties in states where statutes and local charters allow for the election of police chiefs as reported by the Census of Government. The municipal police chief may also be called marshal in Arkansas, Florida, Mississippi, Texas. In Virginia, *town* police chiefs are called Sargeants. Based on this information, the indicator is equal to one for Arkansas, Florida, Louisiana, Texas and Virginia.

Single member districts (SMD): indicator equal to one for covered states where members of county governing bodies are elected by single member districts (Louisiana, Mississippi, and Virginia) and zero otherwise.

Figure A1: US South

Coverage 1965



Arrest rates, sample 1960-1981

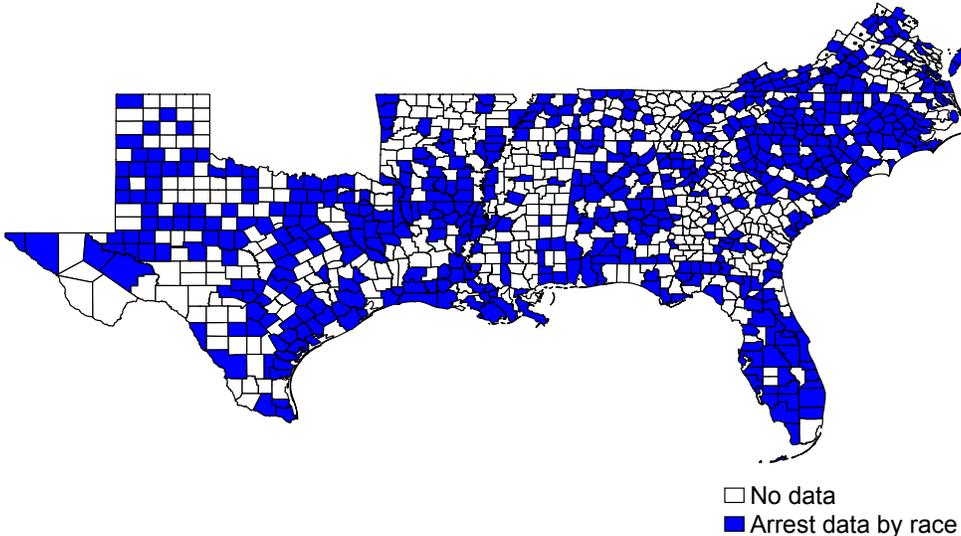
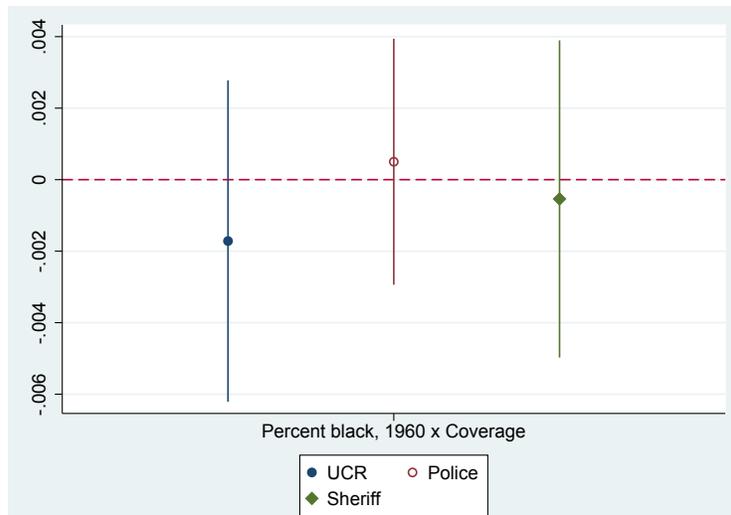


Figure A2: Reporting frequency by agency



Figure A3: Reporting probability



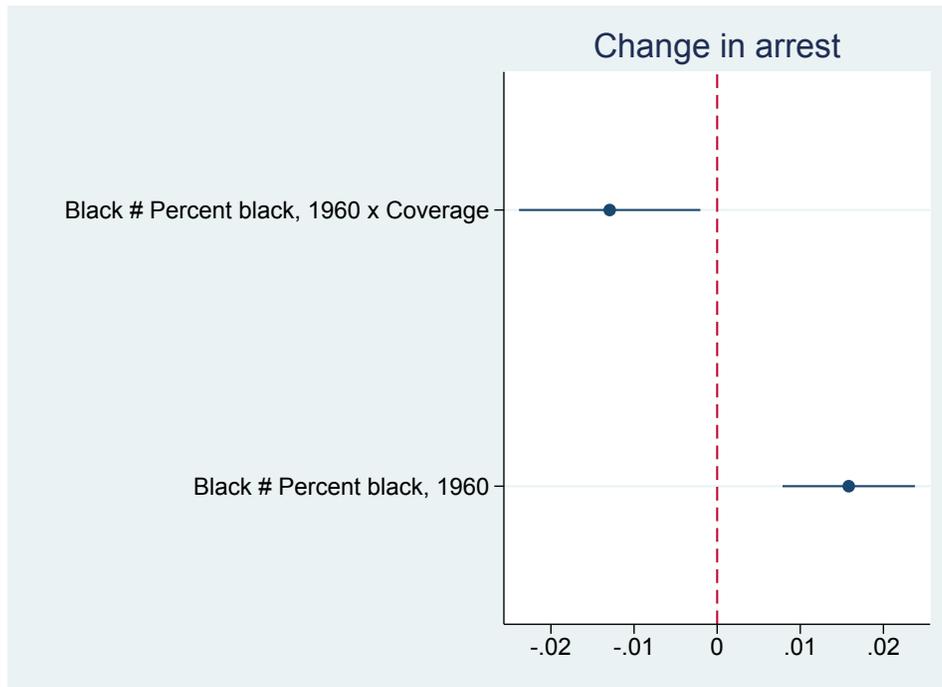
Note: Linear probability model. Estimated parameter: Black share 1960 x Coverage. Bars represent 95% confidence intervals

Figure A4: Homicides: difference in the gradient between covered and non-covered



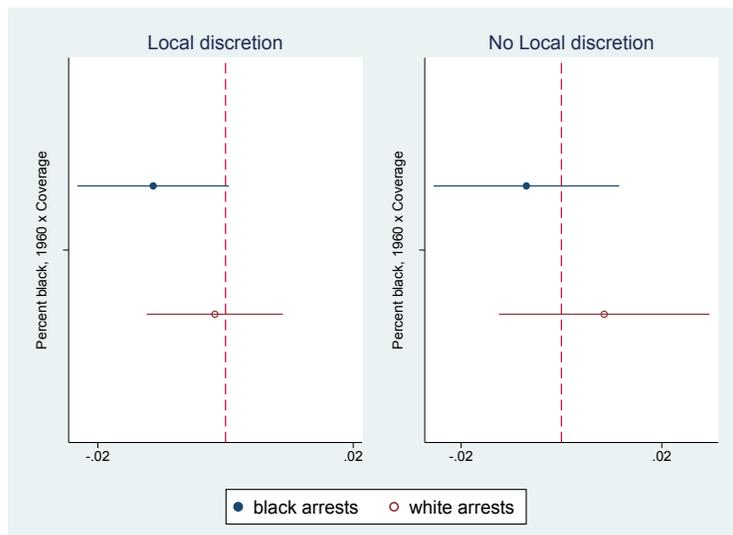
Note: Linear probability model. Estimated parameter: Black share 1960 x Coverage. Omitted interaction: 1960. Bars represent 95% confidence intervals

Figure A5: Change in arrest rates (1960-1981), by race and coverage



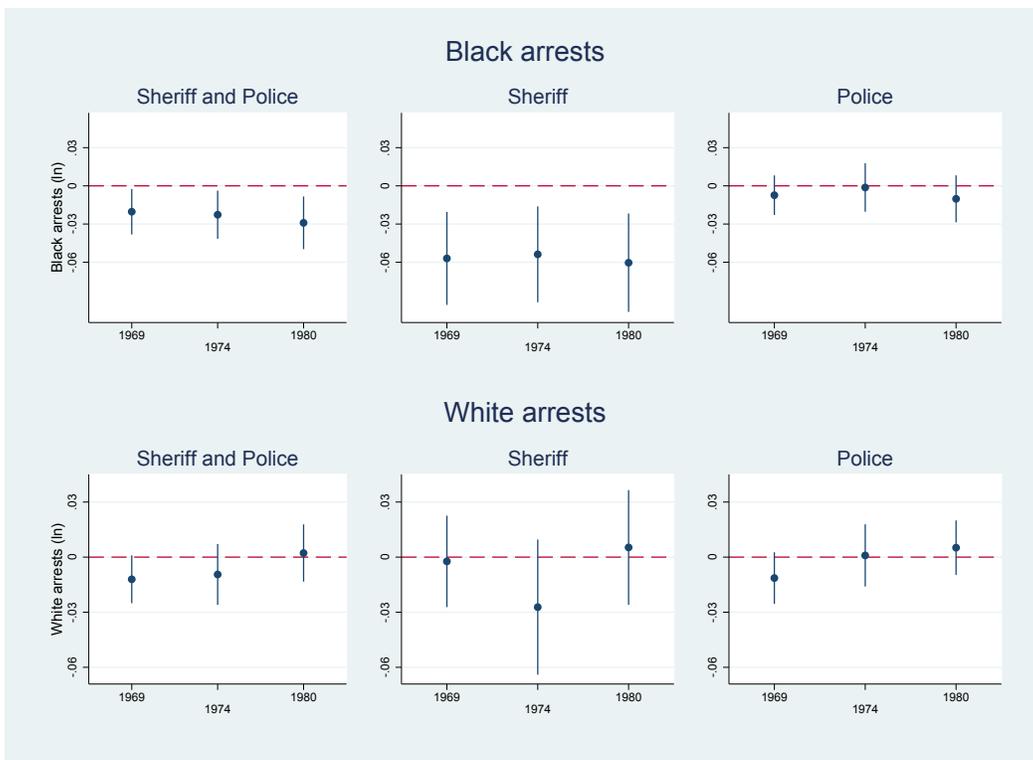
Note: Baseline: White arrests by Sheriffs and Police. Estimated parameter: Black share 1960 x Coverage. Bars represent 90% confidence intervals

Figure A6: Local Discretion to elect Police Chief



Note: Estimated parameter: Black share 1960 x Coverage. Bars represent 90% confidence intervals. Controls: population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural

Figure A7: Event study: difference in the gradient of arrest rates (ln) in 1960 share of Blacks between covered and non-covered (balanced by agency)



Note: Estimated parameter: Black share 1960 x Coverage. In all our specifications, we include population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police, state-year interactions and county fixed effects. Omitted interaction: 1960. Bars represent 95% confidence intervals

Table A1: Sheriff and Police sample vs. US South sample

	Police and Sheriff sample		US South entire sample	
	Mean	St. Dev.	Mean	St. Dev.
<i>County characteristics</i>				
Percent black, 1960	21.50	17.73	23.23	19.89
Unemployment rate, 1960	5.00	1.87	4.92	2.05
Families below poverty line, 1960	41.03	14.10	44.96	15.65
Percent unskilled, 1960	69.98	9.10	72.35	9.27
County population (1,000), 1960	3.36	1.04	2.96	1.04
Percent rural, 1960	17.09	13.90	21.04	15.21
Pro-black activism, 1960-64	1.20	5.57	0.83	4.65
Anti-black activism, 1960-64	0.24	1.95	0.18	1.51
Cotton suitability	0.45	0.40	0.43	0.39
Black police, 1959	1.12	4.72	0.79	6.17
Farms with 700 acres or more	35.06	42.75	32.89	42.74
Counties		590		1137

Table A2: Summary Statistics

	All		Sheriff		Police	
	Mean	St. Dev.	Mean	St. Dev.	Mean	St. Dev.
<i>County characteristics</i>						
Percent black, 1960	21.50	17.73	20.45	19.04	21.45	16.11
Unemployment rate, 1960	5.00	1.87	4.96	1.97	5.03	1.70
Families below poverty line, 1960	41.03	14.10	42.42	14.40	38.88	13.18
Percent unskilled, 1960	69.98	9.10	71.06	8.87	68.37	8.89
County population (1,000), 1960	3.36	1.04	3.12	1.13	3.68	0.93
Percent rural, 1960	17.09	13.90	19.53	14.59	14.42	12.73
Pro-black activism, 1960-64	1.20	5.57	0.98	5.46	1.59	6.50
Anti-black activism, 1960-64	0.24	1.95	0.23	1.62	0.31	2.28
Cotton suitability	0.45	0.40	0.46	0.42	0.45	0.39
Black police, 1959	1.12	4.72	0.89	3.85	1.43	5.28
Farms with 700 acres or more	35.06	42.75	39.91	48.45	33.91	40.66
<i>Arrest rates</i>						
Arrest rate pre-VRA, black	6.37	14.03	2.62	4.94	7.11	15.71
Arrest rate post-VRA, black	6.69	10.66	3.13	6.78	6.02	11.12
Difference in ln Arrests rates, black	0.32	1.00	0.45	1.34	-0.05	0.70
Arrest rate pre-VRA, white	1.99	1.95	0.90	0.85	2.22	2.07
Arrest rate post-VRA, white	3.12	2.15	1.55	1.10	2.66	2.28
Difference in ln Arrests rates, white	0.64	0.85	0.71	1.11	0.20	0.63
Counties	590		302		334	

Table A3: OLS models. Dependent Variable: Sheriffs and Police, Long run Difference in ln Arrests rates, by race (1960-1981)

	(1)	(2)	(3)	(4)
	black	white	black	white
Percent black, 1960 x Coverage	-0.015** (0.006)	-0.006 (0.006)	-0.016** (0.007)	-0.005 (0.006)
Percent black, 1960	0.019*** (0.006)	0.004 (0.004)	0.023*** (0.006)	0.007 (0.005)
Unemployment rate, 1960	-0.028 (0.034)	-0.023 (0.024)	-0.044 (0.035)	-0.024 (0.024)
Percent family bottom 20, 1960	0.004 (0.008)	0.005 (0.006)	0.002 (0.008)	-0.001 (0.006)
Percent unskilled, 1960	0.006 (0.008)	0.017** (0.008)	0.004 (0.010)	0.017* (0.009)
County population (log), 1960	0.004 (0.061)	0.000 (0.046)	0.052 (0.084)	0.009 (0.061)
Percent rural, 1960	0.007 (0.006)	-0.002 (0.004)	0.004 (0.006)	-0.001 (0.005)
Pro-black activism, 1960-64			-0.012*** (0.004)	-0.011** (0.005)
Anti-black activism, 1960-64			0.009 (0.012)	0.012 (0.014)
Cotton suitability			-0.334* (0.176)	-0.197 (0.168)
Farms with 700 acres or more			0.001 (0.002)	-0.000 (0.001)
Black police, 1959			-0.018*** (0.006)	-0.010 (0.010)
State Trends	Yes	Yes	Yes	Yes
Coverage X Controls	No	No	No	No
Adj. R-Square	0.10	0.03	0.12	0.03
N	551	589	486	524

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively.

Table A4: OLS models. Dependent Variable: Sheriffs and Police, Long run Difference in In Arrests rates, by race (1960-1981),

	Common Support		Balanced Sample		Texas and Florida	
	(1)	(2)	(3)	(4)	(5)	(6)
	black	white	black	white	black	white
Percent black, 1960 x Coverage	-0.016* (0.009)	0.001 (0.007)	-0.030*** (0.011)	0.001 (0.008)	-0.021** (0.009)	-0.007 (0.008)
State Trends	Yes	Yes	Yes	Yes	Yes	Yes
Coverage X Controls	Yes	Yes	Yes	Yes	Yes	Yes
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Adj. R-Square	0.11	0.04	0.12	0.00	0.14	0.04
N	482	520	324	352	361	381

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Controls: percent black, coverage, population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police.

Table A5: OLS models. Dependent Variable: Long run Difference in ln Arrest rates, by race and age (1960-1981)

	(1)	(2)	(3)	(4)
	adult black	juvenile black	adult white	juvenile white
<i>Sheriff sample</i>				
Percent black, 1960 x Coverage	-0.032** (0.014)	0.043 (0.068)	-0.011 (0.011)	0.016 (0.020)
Controls	Yes	Yes	Yes	Yes
Coverage X Controls	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes
Adj. R-Square	0.04	0.26	0.03	-0.05
N	246	74	280	119
<i>Police sample</i>				
Percent black, 1960 x Coverage	-0.004 (0.008)	-0.012 (0.017)	0.007 (0.006)	0.002 (0.016)
Controls	Yes	Yes	Yes	Yes
Coverage X Controls	Yes	Yes	Yes	Yes
State Trends	Yes	Yes	Yes	Yes
Adj. R-Square	0.16	0.12	0.19	0.01
N	354	216	370	245

Robust standard errors in parenthesis. ***, **, and * indicate statistical significance at the 1%, 5% and 10% levels, respectively. Controls: percent black, coverage, population, unemployment rate, percent family below the poverty line, percent unskilled, percent rural, cotton suitability, farms with 700 acres or more, pro-black protests, anti-black protests, black police.