We examine the impact of the 2007 Legal Arizona Workers Act (LAWA) on employment outcomes of low-skilled legal workers. We use the synthetic control method to select a group of states against which the labor market trends of Arizona can be compared. Our results suggest that contrary to its intent, LAWA does not appear to have improved labor market outcomes of legal low-skilled workers who compete with unauthorized immigrants, the target of the legislation. In fact, we find some evidence of diminished employment and increased unemployment among legal low-skilled workers in Arizona. These findings are concentrated on the largest demographic group of workers—non-Hispanic white men. While they are less likely to find employment, those who do have on average higher earnings as a result of LAWA. The pattern of results points to both labor supply and labor demand contractions due to LAWA, with labor supply dominating in terms of magnitude.

JEL Classification: J11, J15, J18, J48, J61

1. Introduction

During much of the 2000s, lawmakers in the U.S. Congress have considered changes to the country’s immigration policy though comprehensive immigration reform. To date, all efforts to pass a major reform have met defeat. A key reason behind the Congressional gridlock on immigration is the controversial issue of how to address the country’s unauthorized immigrant population, which has grown from about 3 million in the late 1980s to around 11.7 million in 2012 (Passel, Cohn, and Gonzalez-Barrera 2013). Although the concerns regarding unauthorized immigrants cover a broad range of issues, one frequently cited apprehension is that the presence of such a large number of unauthorized workers negatively affects labor market outcomes of legal workers.

In this article, we take advantage of legislation in Arizona against the hiring of unauthorized immigrants to assess whether these changes had any impacts on the employment opportunities of low-skilled U.S. born and legal immigrant workers. Our previous research finds that this policy—the 2007 Legal Arizona Workers Act (LAWA) —significantly and quickly decreased the state’s unauthorized immigrant population and limited their employment opportunities, especially in formal wage and salary work (Bohn, Lofstrom, and Raphael 2014; Bohn and Lofstrom 2013). The LAWA is the first of now numerous state policies to require employers to use of E-verify, a federal
electronic system, to check the work authorization of new hires and to set forth sanctions for employers who do not.

LAWA and similar policies in other states respond to the fact that employment is the primary draw for most unauthorized immigrants. Arizona is a state leading the charge against illegal immigration, highlighted by the publicized and controversial Senate Bill 1070 in April 2010. But Arizona had been making ground-breaking policy targeting unauthorized immigrants years before; the LAW A was passed in July 2007 and implemented in January 2008. The law imposed strict employer sanctions against firms knowingly hiring unauthorized workers—business licenses suspension and possible revocation for repeat offenders. The arguably most important feature of LAW A is the requirement that all employers use E-verify for all new hires. Since LAW A was enacted in 2008 (and upheld in May 2011 by the U.S. Supreme Court) many other states have followed suit. Six states have since implemented similar mandates (Utah, South Carolina, Mississippi, Georgia, North Carolina, and Oklahoma) and other states—as well as the federal government—have implemented E-verify requirements for public contractors. Arizona provides arguably the best natural experiment for understanding the impacts of state legislation on employment of unauthorized immigrants, being the first mover and having implemented a broad E-verify mandate, with strong employer sanctions attached.

Very little is known about the impacts of these laws, but our previous research shows that LAW A induced sizeable responses among the unauthorized population. Bohn, Lofstrom, and Raphael (2014) finds that the population of noncitizen Hispanic immigrants in Arizona—a high proportion of whom are unauthorized immigrants—fell by more than 90,000 due to LAW A. Bohn and Lofstrom (2013) extends the work to assess whether the policy affected labor market outcomes of unauthorized immigrants. We find evidence of a substantial decrease in the rate of formal employment by about 11 percentage points among likely unauthorized immigrants, defined as Hispanic nonnaturalized low-skilled men, as well as a doubling of the self-employment rate. The timing of these changes coincides with LAW A and the changes are not found in comparison states. With these substantial impacts on the unauthorized population, the policy change in Arizona appears to be an excellent opportunity to assess whether competing authorized low-skilled workers benefitted from the legislation.

A few articles have assessed the impact of E-verify on the labor market outcomes of legal workers in a context broader than Arizona. Good (2013) estimates sizeable negative employment effects among competing authorized workers as a result of omnibus state policies, which include E-verify mandates and other state actions. Amuedo-Dorantes and Bansak (2012, 2014) provide some of the first evidence on the impact of E-verify on employment and wages among native-born non-Hispanics, a relatively broad group. Nationwide, in states that passed E-verify laws (of varying degree), native-born non-Hispanic men are more likely to be employed (2 percentage points)
and at higher wages (nearly 3%) than similar men in other states. We add to this literature by explicitly addressing the endogeneity of E-verify passage and creating robust counterfactual, especially crucial for assessing employment impacts in a recessionary period.

2. E-Verify as a State-level Enforcement Tool

The failure of federal reform has spurred an unprecedented level of state legislative activity in immigration policy in recent years. The new state laws related to employment of unauthorized immigrants vary greatly in terms of restrictiveness and implementation. Most of the comprehensive laws include mandated use of E-verify to varying degree. Arizona’s LAWA was the first comprehensive mandate issued and remains arguably the most restrictive.

_E-Verify_

E-verify is a voluntary online system created and managed by the federal government to provide information to employers about whether an individual is authorized to work in the United States. E-verify checks workers’ Form I-9 information for authenticity and work authorization status against Social Security Administration (SSA) and Citizenship and Immigration Services databases. The system applies to all workers, citizens and noncitizens alike, and employers are not permitted to use E-verify until a new hire has been made.

E-verify provides fast results, if identity and work authorization are confirmed—which, according to Westat (2009), occurs about 95% of the time. When confirmation is not granted (“tentative nonconfirmation” or TNC), the employee may appeal. While a TNC is being contested by a new hire, employers are not allowed to dismiss the worker solely on the basis of the record. If an employee fails to or is unable to correct a TNC within two weeks, employers must terminate the employee. Cited problems with E-verify include delays in correcting TNCs, erroneous confirmations, and insufficient capacity as more employers enroll. Intensive refinement of the system in recent years has led to improvements, especially in error rates.\(^3\) The costs—primarily time and energy—of correcting errors fall on the new hires as well as on local U.S. Department of Homeland Security (DHS) and SSA offices where individuals must go to correct errors. Verification can be circumvented if employers avoid use or if applicants submit false documents. A photo identification tool was added to E-verify in 2009 to address this latter concern, though most E-verify polices include penalties for identity theft as well.

The results of E-verify at this time are not reported to any agency responsible for immigration enforcement. That is, even if a new hire is found to be unauthorized, these results are not transmitted to DHS or ICE for investigation, detainment, or deportation of the individual. Thus, enforcing use of E-verify must come from an external source.

The _2007 LAWA_

The LAWA was signed into law in July 2007 and enacted on January 1, 2008. LAWA mandates the use of E-verify by all employers in Arizona to ensure the legal authorization to work for

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\(^3\) For authorized workers, the accuracy rate of E-verify is at least 99%, but for unauthorized workers the error rate may be as much as 54% (Westat 2009).
all new hires. The law also imposes sanctions on employers who “knowingly” hire unauthorized immigrants: a business license suspension for the first offense and license revocation upon a second. LAWA is unique among subsequent state E-verify mandates in that it covers all firms, not just public agencies or those with state government contracts. It also mandates that employers of all sizes use E-verify as of the implementation date. Many states that have since implemented E-verify often phase in employers by business size and/or include exemptions. LAWA does include an exemption we find to be highly relevant: independent contractors are not subject to the mandate. Its broad range makes LAWA a good example of state legislation that mimics recent federal reform proposals. Importantly, Arizona is also one of a few places where all employers have been required to use E-verify for a sufficient period of time to allow for a reliable empirical evaluation.

We expect that LAWA’s impacts to date largely stem from a deterrent or compliance effect prompted by the E-verify mandate rather than from employer sanctioning. To date few employer sanctions have been assessed. Through April 2010, more than two full years following LAWA’s enactment, only three prosecutions had been pursued, and all in a single county (Maricopa). Few sanctions may reflect the lack of resources in the County Attorney offices responsible for investigating claims. Or, few sanctions may reflect high compliance among employers. Statistics from the E-verify system indicate growth in number of firms enrolled: from 300 in March 2007 in Arizona, to 38,000 in January 2010 (Westat 2009; Arizona Attorney General’s Office 2010). At that time, Arizona firm enrollment represented roughly one-third of all firms enrolled nationwide. Further, estimates suggest that roughly 700,000 new hires made between October 2008 and September 2009 were run through E-verify in Arizona (Arizona Republic 2010). This correlates to roughly 50% of all new hires in the state, a high degree of compliance given that unauthorized immigrants comprise only 10% of Arizona’s labor force (estimate from Passel and Cohn 2009a,b).

3. Theoretical Predictions of the Labor Market Impacts of E-Verify Mandates

The intention of E-verify mandates in general and LAWA specifically is to reduce the unauthorized immigrant population by deterring the hiring of unauthorized workers. Legislation such as LAWA can potentially achieve this goal by affecting both the supply and demand side of the labor market. The extent to which these labor market effects change the employment opportunities of competing authorized workers also depends on their substitutability with targeted unauthorized immigrants.

On the supply side, the E-verify requirement makes it more difficult for unauthorized immigrants to find work in Arizona, making the state less desirable for unauthorized workers and ostensibly increasing employment opportunities of competing legal workers. Our previous work finds strong evidence of a labor supply effect among unauthorized; the law induced a noticeable decline in the unauthorized population and a decline in employment among unauthorized workers who continued to reside in Arizona. Employment declines were attenuated by a shift from salary work to self-employment among the targeted immigrants, likely driven by LAWA’s exemption for independent contractors. These results are consistent with—but not limited to—a decline in labor supply. All else equal, a labor supply contraction should increase wages for workers who remain in the market. It will also yield an overall decline in employment. The magnitude of these wage and employment effects would theoretically vary depending on the elasticity
of labor demand and supply (which may also vary across authorized and unauthorized worker subgroups).

However, LAWA may also impact labor demand in a number of ways, making these predicted impacts on authorized workers less determinate. The E-verify mandate increases the cost of hiring generally speaking, potentially driving down labor demand. This shift would predict additional downward pressure on employment but the resulting wage rate is ambiguous. In addition, labor demand channels may impact unauthorized and authorized workers differentially. If employers can distinguish between unauthorized and authorized workers, employer sanctions increase the cost to employers of hiring unauthorized immigrants specifically, thus, reducing employers’ desire to hire them and increasing their demand for legal workers. Standard labor theory predicts that this would induce reinforcing downward effects on employment opportunities for unauthorized immigrants but offsetting effects on other workers, with wage effects again indeterminate.

Whether these standard effects occur depends in large part on the degree to which authorized and unauthorized workers compete with one another in the labor market. But the substitutability of authorized workers for unauthorized is limited by differences in skills of workers and their availability. Overall, this suggests that the labor market effects of LAWA are likely to vary by skill, nativity, ethnicity, gender, and the interaction of these dimensions and that, if there are benefits to be had, those authorized workers most likely to benefit are those most closely substitutable for unauthorized workers.

An additional complication arises when employers cannot easily distinguish the documented from the unauthorized. Specifically, if employers cannot tell with certainty who is and who is not authorized, employers may infer legal status through such visible signals as ethnicity, accent, or surname. This likelihood is heightened by details of the E-verify mandate; employers use the system after a hiring decision is made and cannot terminate a worker whose status is not confirmed, pending a two-week period in which the worker can contest the database’s personal information. This element adds uncertainty and increases the expected hiring cost, and if relevant, possible training cost. Employers wishing to avoid the risk of hiring undocumented workers may reduce their hiring of Latino applicants in particular and increase their hiring of applicants who are deemed lower risk for whatever reason. Concern that sanctions targeting the hiring of unauthorized immigrants would result in employment discrimination against Hispanics is not new. In fact, this was a key point of contention in the legislative debate surrounding the 1986 Immigration Reform and Control Act (IRCA) and research finds that in the immediate aftermath of IRCA’s passage, the hourly earnings of Latinos did decline (Bansak and Raphael 2001).5

It is clear that there are many standard labor supply and demand channels through which LAWA may impact authorized workers. Since it is impossible to theoretically predict the net effects of the channels discussed here, analyzing the impacts of these laws on native and legal immigrants requires an empirical analysis.

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4 Various Chambers of Commerce have often opposed E-verify mandates, bringing a case all the way to the U.S. Supreme Court, suggesting the mandate imposes significant costs on employers.

5 IRCA created the legal obligation for employers to verify the identity and work eligibility of all applicants, and introduced a series of graduated sanctions for employers who failed to comply with the verification, record keeping, and hiring provisions of the law. Opponents of the legislation expressed concern that these provisions would lead to discrimination against all Hispanics.
4. Data and Empirical Strategy

To assess the labor market effects of LAWA on authorized workers, we analyze data from the Current Population Survey (CPS) collected between 1998 and 2010. These data provide details on the employment, work, and earnings of individuals in each state as well as information on race/ethnicity, education, age, and other demographic characteristics, including immigration status (native-U.S. born or foreign-born naturalized citizen, or not a citizen).

**Defining Groups of Interest**

The CPS data do not allow for direct identification of work authorization status. However, we estimate that in Arizona upward of 80–90% of noncitizen men of working age and of Hispanic origin with relatively low levels of education (high school or less) are likely to be unauthorized (Bohn, Lofstrom, and Raphael 2014; based on Passel and Cohn 2009a). For the present analysis of competing workers, then, we use the same age, education, and origin criterion but identify likely authorized workers as those who report being naturalized or native-born. Our target group defined in this manner may exclude some authorized workers because self-reported citizenship status is likely to be reported with some error, and because citizenship status differs from work authorization status in some cases (e.g., some noncitizen men may be authorized to work via non-immigrant visa programs). However, our conservative definition of low skilled authorized Hispanic workers should yield a group most likely to be authorized to work.

As described above, LAWA’s effects might vary to the degree employers can substitute similar workers and distinguish unauthorized from authorized workers. For that reason, we examine three groups defined by race-ethnicity and citizenship status with plausibly varying degrees of similarity with unauthorized immigrants (from most to least similar): (i) Foreign-born naturalized citizen Hispanics, (ii) Native-born Hispanics, and (iii) Native-born non-Hispanic whites. Among all groups, we restrict analysis to working age men (16-60) with high school education or less. While other racial-ethnic group outcomes are of interest (in particular, native-born non-Hispanic blacks), the small population of minority groups beyond those of Hispanic origin in Arizona preclude robust analysis. The native-born, less-skilled male workforce in Arizona is comprised primarily of white men (roughly 60%), followed by Hispanic men (30%). To the extent that authorized workers defined here are not perfect substitutes for unauthorized workers in Arizona—or do not fully capture the true substitute workers—our estimates may attenuate LAWA’s true effect.

**The Data**

The CPS provides a wealth of information on labor market outcomes and at high frequency (monthly). We pool monthly data within year to obtain sufficient sample size for analysis on the narrowly defined population groups necessitated by this study. The average sample size within the

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6 For example, our calculations from Census data indicate roughly 517,000 noncitizen Hispanic immigrants resided in Arizona in 2008. For this same year, Passel and Cohn (2009) estimate that there were 475,000 unauthorized immigrants in the state. Similarly, for our finer definition of likely unauthorized workers used in the traditional difference-in-difference approach, based on ACS data, we estimate 229,000 likely unauthorized in Arizona in 2008, whereas Passel and Cohn (2009) estimate 240,000 unauthorized immigrants in Arizona’s labor force in the same year.
population groups of interest is given in the first row of Table 1. We restrict our sample period to 1998–2009. Additional years of data are available; however, harsh immigration policies (namely the controversial SB 1070) were passed in Arizona after 2009, potentially biasing estimates of LAW A’s impact beyond 2009. Larger samples are available in the American Community Survey, but do not provide the long time series and high frequency data necessitated by our empirical approach, discussed below. We estimate impacts on a number of outcomes at the state-population group level: employment, unemployment, and labor force participation and earnings measured annually, weekly, and hourly. Table 1 presents the average values of these outcome variables for the three population groups of interest, in both Arizona and the potential comparison states.

Use of a Synthetic Control

To identify the causal impact of LAW A on employment outcomes in Arizona, we use the synthetic control approach of Abadie, Diamond, and Hainmueller (2010). Key to the identification strategy is charting the appropriate counterfactual path for Arizona in the absence of LAW A. There are a number of approaches one could use. One is to select states that share similar population and economic characteristics and trends as Arizona; for example, the states bordering

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Table 1. Descriptive Statistics, Low-skilled Working-Age Men, 1998–2009

<table>
<thead>
<tr>
<th></th>
<th>Arizona</th>
<th>Donor Pool States</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>White native-born</td>
<td>Hispanic native-born</td>
</tr>
<tr>
<td>Avg. sample size</td>
<td>1,475</td>
<td>625</td>
</tr>
<tr>
<td>Avg. weighted sample size</td>
<td>355,587</td>
<td>151,013</td>
</tr>
<tr>
<td>Employment rate (%)</td>
<td>72</td>
<td>64</td>
</tr>
<tr>
<td>Unemployment rate (%)</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>Share not in labor force (%)</td>
<td>22</td>
<td>27</td>
</tr>
</tbody>
</table>

Earnings at current job:

<table>
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<tr>
<th></th>
<th>Arizona</th>
<th>Donor Pool States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly (mean)</td>
<td>569</td>
<td>451</td>
</tr>
<tr>
<td>Weekly (median)</td>
<td>499</td>
<td>407</td>
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</tbody>
</table>

Earnings last year:

<table>
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<tr>
<th></th>
<th>Arizona</th>
<th>Donor Pool States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly (mean)</td>
<td>581</td>
<td>592</td>
</tr>
<tr>
<td>Weekly (median)</td>
<td>489</td>
<td>396</td>
</tr>
<tr>
<td>Annual (mean)</td>
<td>28,206</td>
<td>23,634</td>
</tr>
<tr>
<td>Annual (median)</td>
<td>23,929</td>
<td>18,249</td>
</tr>
<tr>
<td>Hourly (mean)</td>
<td>14</td>
<td>15</td>
</tr>
</tbody>
</table>

Notes: Author’s calculations from the 1998–2010 monthly CPS. All but the final five rows use 1998–2009 data only. Earnings calculated for employed persons only. Donor pool states include all except those with similar subsequent legislation (Mississippi, Rhode Island, South Carolina, and Utah) and two with missing values for many groups in multiple years (North Dakota and Vermont).

7 When pooling monthly CPS data, some individual observations are repeated due to CPS sampling procedures and raising concern about the standard error on parameters of interest. Our empirical methods minimize such concern by relying only on state-population group averages (rather than individual outcomes) for all variables of interest and by utilizing nonparametric procedures to obtain inference.
Arizona (a traditional difference-in-difference approach). Another would be to use a data-driven search for comparison states based on pre-LAWA population and employment characteristics and trends (the synthetic control method of Abadie et al. 2010). We focus on the latter because it is arguably the most reliable and essentially incorporates the first strategy. It allows the data to tell us which states best match Arizona’s pre-LAWA experience.

The synthetic control method allows for robust analysis in the single policy change—single state context. We summarize the methodology for charting a counterfactual post-LAWA path for Arizona here. The basic idea is to generate a comparison group from a convex combination of states in a large donor pool. Let the index $j = (0, 1, \ldots, J)$ denote states. The value $j = 0$ corresponds to Arizona and $j = (1, \ldots, J)$ correspond to each of the other $J$ states that are candidate contributors to the control group (or in the language of Abadie et al., the donor pool). Define $F_0$ as a $9 \times 1$ vector with elements equal to the group-specific employment outcome in Arizona in years 1998 through 2006 (the nine years we use throughout this article as our preintervention period). Similarly, define the $9 \times J$ matrix $F_1$ as the collection of comparable time series for each of the $J$ states in the donor pool (with each column corresponding to a separate state-level time series for the period 1998 through 2006).

The synthetic control method identifies a convex combination of the $J$ states in the donor pool that best approximates the preintervention time series for the treated state. Define the $J \times 1$ weighting vector $W = (w_1, w_2, \ldots, w_J)'$ such that $\sum_{j=1}^{J} w_j = 1$, and $w_j \geq 0$ for $j = (1, \ldots, J)$. The product $F_1 W$ then gives a weighted average of the preintervention time series for all states omitting Arizona, with the difference between Arizona and this average given by $F_0 - F_1 W$. The synthetic control method essentially chooses a value for the weighting vector, $W$, that yields a synthetic comparison group (consisting of an average of some subset of donor states) that best approximates the preintervention path for Arizona. Specifically, the weighting vector is chosen by solving the constrained quadratic minimization problem

$$W^* = \arg\min_W (F_0 - F_1 W)' V (F_0 - F_1 W)$$

$$s.t. \quad W^*'i = 1, \quad w_j \geq 0, \quad j = (1, \ldots, J)$$

where $V$ is a $9 \times 9$, diagonal positive-definite matrix with diagonal elements providing the relative weights for the contribution of the square of the elements in the vector $F_0 - F_1 W$ to the objective function being minimized. Once an optimal weighting vector $W^*$ is chosen, both the preintervention path as well as the postintervention values for the dependent variable in “synthetic Arizona” can be tabulated by calculating the corresponding weighted average for each year using the donor states with positive weights. The postintervention values for the synthetic control group serve as our counterfactual outcomes for Arizona.

**Empirical Methodology**

Our principal estimate of the impacts of LAWA on labor market outcomes uses the synthetic control group to calculate a simple difference-in-differences estimate. Specifically, define $\text{Outcome}_{\text{AZ}}^{\text{pre}}$ as the average value of the outcome of interest for Arizona for the preintervention period 1998 through 2006 and $\text{Outcome}_{\text{AZ}}^{\text{post}}$ as the corresponding average for the two posttreatment years 2008 and 2009. Define the similar averages $\text{Outcome}_{\text{synth}}^{\text{pre}}$ and $\text{Outcome}_{\text{synth}}^{\text{post}}$ for the
synthetic control group. Our difference-in-differences estimate subtracts the preintervention difference between the averages for Arizona and synthetic Arizona from the comparable postintervention difference, or

\[ \text{DD}_{AZ} = (\text{Outcome}_{AZ}^{\text{post}} - \text{Outcome}_{\text{synth}}^{\text{post}}) - (\text{Outcome}_{AZ}^{\text{pre}} - \text{Outcome}_{\text{synth}}^{\text{pre}}) \]  

(2)

To formally test the significance of any observed relative decline in Arizona’s foreign-born population, we apply the permutation test suggested by Abadie et al. (2010) to the difference-in-difference estimator DD. Specifically, for each state in the donor pool, we identify synthetic comparison groups based on the solution to the quadratic minimization problem in Equation 1. We then estimate the difference-in-difference in Equation 2 for each state as if these states had passed the equivalent of a LAWA with comparable timing. The distribution of these “placebo” difference-in-difference estimates then provides the equivalent of a sampling distribution for the estimate \( \text{DD}_{AZ} \). To be specific, if the cumulative density function of the complete set of DD estimates is given by \( F(.) \), the \( p \)-value from a one-tailed test of the hypothesis that \( \text{DD}_{AZ} < 0 \) is given by \( F(\text{DD}_{AZ}) \).

To interpret \( \text{DD}_{AZ} \) as a causal estimate of LAWA’s effects, we must make the case that LAWA represents an exogenous shock to the labor market and is not coincident with other factors that could affect employment of authorized workers. Though there are many factors that affect employment outcomes, threats to causality within the synthetic control framework are only relevant if they correspond precisely with regard to the timing of LAWA or the inability to generate a matching pre-LAWA trend from the donor pool. Factors such as differential population or industrial composition in Arizona and the donor states could plausibly make a pre-LAWA counterfactual difficult to construct, but we show below that for our outcomes of interest the synthetic control method passes reasonable tests of fit.

Threats related to the endogenous timing of LAWA are more difficult to address due to the timing of the Great Recession, which coincided with LAWA. A full examination is given in Bohn, Lofstrom, and Raphael (2014) and Bohn and Lofstrom (2013). In short, we argue that while LAWA was implemented at the beginning of the Great Recession, it was the result of a lengthy legislative process that began well before—that is, was exogenous to—the recession. Second, we find no evidence of coincident immigration enforcement either at the border or internal to Arizona that could have generated the same effects we identify via the synthetic control.

Nonetheless, the “Great Recession” occurred at approximately the same time of the enactment of LAWA, presenting a potentially confounding factor. Our empirical approach comparing trends in Arizona to other states accounts for any changes that affect the country as a whole (or the selected comparison states). However, one of the industries hit hardest, construction, is a leading employer of less-skilled workers. Furthermore, construction is one of the biggest industries in Arizona (representing close to 11% of total private employment in 2006). These facts together are related to the differential population composition of Arizona as well, which is of concern with regard to endogeneity of the policy. To validate our empirical approach, we assess official statistics on employment trends in Arizona and neighboring states during the recession.

The recent recession caused a clear reduction in Arizona’s workforce. Figure 1 shows strong employment growth in 2003–2006 with a noticeable slow down in 2007. This was followed by 3

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8 Buchmueller, DiNardo, and Valletta (2009) use a similar permutation test to that described here to test for an impact of Hawaii’s employer-mandate to provide health insurance benefits to employees on benefits coverage, health care costs, wages, and employment.
and 8% decreases in 2008 and 2009, respectively. Figure 1 also shows that the negative employment effects of the recession on employment were not any stronger in Arizona than in neighboring areas, including inland California (an area that shares many of the characteristics and trends of Arizona, is hence used in our empirical analysis). To test the data in Figure 1 further, we apply the synthetic control method to employment growth. This exercise confirms that there is no evidence that LA WA drives employment growth in Arizona.

Importantly, the recession was precipitated by a housing crisis, which brought new housing construction to a near standstill. The fact that many unauthorized immigrants and less-skilled workers generally are employed in the construction sector means that they may have been particularly affected by the recession. However, a look at construction employment data reveals no

**Figure 1.** Annual Employment Growth in Arizona and Bordering States, 1999–2009.
*Source:* Author’s calculations from the 1998–2009 quarterly census of employment and wages (QCEW).

**Figure 2.** Annual Employment Growth in Arizona and Bordering States, 1999–2009.
*Source:* Author’s calculations from the 1998–2009 quarterly census of employment and wages (QCEW).
evidence that Arizona’s construction industry fared much differently in the recession than its neighboring areas (Figure 2).

Overall, the data indicate that while Arizona’s labor market was strongly affected by the recession, so were other states’, including its neighbors. The similarity in trends indicates that our empirical strategy is appropriate for identifying differences across states since the recession appears to have affected all states similarly.

5. Empirical Results—Did LAWA Have Labor Market Effects on Authorized Workers?

LAWA induced a sizeable population reduction among unauthorized men in the Arizona labor markets (Bohn, Lofstrom, and Raphael 2014). Presuming that men born in the United States or naturalized citizens with similar education levels are substitutes, the labor supply shock alone should have decreased employment and increased wages in the market for low skilled workers. However, as detailed above, a number of demand-related adjustments due to LAWA are also plausible and complicate predictions of likely impacts. In this section, we analyze employment rates and wage levels among authorized subgroups to better understand LAWA’s impacts and likely mechanisms.

LAWA Effects on Labor Market Status

We begin our analysis of whether LAWA affected employment opportunities of low-skilled authorized workers in Arizona by examining employment rates (defined here as the ratio of persons employed). As discussed above, for those workers who remained in Arizona following LAWA, a variety of employment effects are plausible. To the extent that firms are hiring and are in compliance with LAWA, authorized workers who are close substitutes for unauthorized workers are more likely to find employment. However, three effects in the opposite direction may also be at play: scale effects due the increased cost of hiring, statistical discrimination against observably similar authorized workers, or complementarity between authorized and unauthorized workers. For these reasons, the impact of LAWA on employment among authorized workers is theoretically ambiguous.

The data indicates that all authorized low-skilled men in Arizona experienced a post-LAWA drop in employment. Figure 3 shows that both before and after the passage of LAWA in 2007, the

Figure 3. Employment Rates for Low-Skilled Working-Age Authorized Men in Arizona, 1998–2009. Source: Author’s calculations from the 1998–2009 monthly CPS.
employment rate of less-skilled naturalized Hispanic men was higher than that of non-Hispanic native-born white men, which was in turn higher than that of Hispanic native-born men (averaging 85% and 72% and 64% over the entire period, respectively). The employment rate of native-born men fell more drastically—over 11% points—following LAWA than it did for the other groups (7 points for naturalized Hispanic immigrants and 6 points for native-born Hispanics).

To probe the employment changes further, we apply the synthetic control approach and use the comparison states, which mimic Arizona’s 1998–2006 employment trend. In this exercise, we omit from the donor pool four states with broadly applied restrictions on the employment of unauthorized immigrants (Mississippi, Rhode Island, South Carolina, and Utah) even though the timing of their legislation postdates LAWA. In identifying synthetic control states for placebo tests on each of the other states in the donor pool, we omit Arizona. Moreover, the donor pool of states is further restricted due to sample size limitations in the monthly CPS, and these limitations vary across the groups of workers we analyze. Generally the donor pool is most restricted for the group of naturalized Hispanic men and is broader for native-born non-Hispanic men. As stated previously, these sample size restrictions to some extent drive our focus on the largest group—native-born white men.

We assess whether the observed declines in employment among low-skilled authorized workers in Arizona following LAWA stand out from the counterfactual trend based on states in the donor pool. Figure 4 shows that prior to the passing of LAWA, the employment rate of native-born non-Hispanic white men in Arizona matched those of the same group in the synthetic control (synthetic Arizona) quite well. Preintervention differences between Arizona and synthetic Arizona average near zero (0.0007). Hence, the synthetic control approach passes the first hurdle—succeeds in obtaining of convex combination of states that match Arizona’s pre-LAWA trend. After 2007, however, we observe a divergent pattern. In the two post-LAWA years, the employment rate for non-Hispanic white low-skilled men in Arizona is, on average, 4 percentage points lower than in the counterfactual.

Average differences between Arizona and synthetic Arizona are calculated in the pre-LAWA period (1998–2006) and post-LAWA period (2008–2009). These and the difference-in-difference estimate, \( \text{DD}_{AZ} \), are presented in Table 2. Following LAWA, the employment rate of non-

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**Figure 4.** Employment Rates for White Native-Born Working-Age Men with High School or Less, Arizona and Synthetic Arizona, 1998–2009.  
*Source:* Author’s calculations from the 1998–2009 monthly CPS. *Note:* Synthetic Arizona consists of the following states (with weights in parentheses): Alaska (0.32), Illinois (0.054), Indiana (0.527), and Kentucky (0.087).
Hispanic native-born white men with lower levels of educational attainment fell 4.4% points relative to the synthetic control. To obtain a p-value on DDAZ as well its nonparametric rank, we replicate the synthetic control method on each state in the donor pool and obtain a distribution of difference-in-difference estimates.

Figure 5 graphically displays the raw data needed to conduct the permutation test of the significance of the relative declines in Arizona. Specifically, for each of the donor states as well as for Arizona, the figure displays the year-by-year difference between the outcome variable for the “treated” state and the outcome variable for its synthetic control. The differences for each of the donor states are displayed with the thin gray lines while the differences for Arizona are displayed by the black thick line. While the difference between Arizona and its synthetic control in the pre-

**Table 2.** Estimated Impact of LAWA in Arizona: Employment Outcomes Among Low-Skilled Working-Age Men

<table>
<thead>
<tr>
<th></th>
<th>Pre-average difference relative to synthetic cohort</th>
<th>Post-average difference relative to synthetic cohort</th>
<th>Change (Difference-in-difference estimate)</th>
<th>Rank, difference-in-difference estimate</th>
<th>p Value from one-tailed test, ( p(\Delta &lt; \Delta_{AZ}) )</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Employment rate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>white native-born</td>
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<td>−0.0443</td>
<td>43/45</td>
<td>0.067</td>
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<td>0.0308</td>
<td>0.0316</td>
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<td>0.650</td>
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<tr>
<td>hispanic naturalized</td>
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<td>−0.0456</td>
<td>−0.0446</td>
<td>28/38</td>
<td>0.244</td>
</tr>
<tr>
<td><strong>Unemployment rate</strong></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>white native-born</td>
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<td>0.0184</td>
<td>37/45</td>
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<td>hispanic native-born</td>
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<td>0.0444</td>
<td>33/40</td>
<td>0.200</td>
</tr>
<tr>
<td>hispanic naturalized</td>
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<td>−0.0037</td>
<td>−0.0011</td>
<td>14/25</td>
<td>0.480</td>
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<tr>
<td><strong>Share not in labor force</strong></td>
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<td></td>
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<td>white native-born</td>
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<td>0.0172</td>
<td>0.0183</td>
<td>35/45</td>
<td>0.244</td>
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<td>hispanic native-born</td>
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<td>−0.0387</td>
<td>34/40</td>
<td>0.175</td>
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<td>0.0375</td>
<td>0.0365</td>
<td>22/25</td>
<td>0.160</td>
</tr>
</tbody>
</table>

**Notes:** Estimates based on 1998–2009 Current Population Survey basic monthly files. Includes men age 16–60 with a high school education or less. The donor pool size is represented as the denominator of the rank.

Hispanic native-born white men with lower levels of educational attainment fell 4.4% points relative to the synthetic control. To obtain a p-value on DDAZ as well its nonparametric rank, we replicate the synthetic control method on each state in the donor pool and obtain a distribution of difference-in-difference estimates.

Figure 5 graphically displays the raw data needed to conduct the permutation test of the significance of the relative declines in Arizona. Specifically, for each of the donor states as well as for Arizona, the figure displays the year-by-year difference between the outcome variable for the “treated” state and the outcome variable for its synthetic control. The differences for each of the donor states are displayed with the thin gray lines while the differences for Arizona are displayed by the black thick line. While the difference between Arizona and its synthetic control in the pre-

![Figure 5](image-url)

**Figure 5.** Difference in Employment Rates Relative to the Synthetic Control Group, White Native-Born Working Age Men with High School or Less, All States (Arizona Displayed with Thick Black Line).

**Source:** Author’s calculations from the 1998–2009 monthly CPS.
LAWA period is well-inside the placebo distribution, in post-LAWA years, the difference in Arizona begins to stand out.

The set of difference-in-difference point estimates estimated from this placebo distribution, \( DD \), is used to calculate the \( p \)-value and rank of \( DD_{AZ} \). These statistics are given in the last two columns of Table 2. We find that the difference-in-difference estimate for Arizona stands out as a clear outlier in the distribution of placebo estimates. The 4.4 point decline is the third largest decline among all 45 states in the donor pool, and is statistically significant at the 7% level (the minimum \( p \)-value would be 0.022).

Among the competing groups of Hispanic authorized workers, we find less convincing evidence of a decline in employment due to LAWA. The difference-in-difference estimates for both Hispanic native-born and naturalized men do not stand out among the placebo distribution of the synthetic control. The donor pool of states contributing to the distribution is smaller for each of these groups due to sample size, but are large enough that we would expect to detect significant impacts if they exist. If anything, the 4.5 point decline in employment among naturalized Hispanic immigrants is closer to significance and combined with the similar result for white native-born men suggests that authorized low-skilled workers may have faced a small decline in employment following LAWA. Using the size of the low-skilled working age non-Hispanic white male population in Arizona in 2006 as the base (about 409,000), our estimates suggest that LAWA caused a drop in employment of roughly 18,000 such workers. If our estimated decline in employment among Hispanic naturalized immigrants is in fact valid but we fail to detect due to sample size limitations, the 4.5 point drop for this group would translate to roughly 9800 workers.

Our previous work (Bohn and Lofstrom 2013) documented a shift in employment from formal work (wage and salary jobs) to less formal (as measured by self-employment) among likely unauthorized men in Arizona due to LAWA. In the same study, we found no such evidence among competing low-skilled authorized workers—the same groups examined here. Thus, we next turn to additional outcome measures that may shed light on the effects of LAWA for authorized men.

The second and third panels of Table 2 present the impacts of LAWA on the unemployment rate and share of workers out of the labor force, among the three low-skilled authorized groups of men in Arizona. Overall, we fail to detect any strong statistical relationship between the passage of LAWA and unemployment or labor force participation. Among native-born low-skilled workers, unemployment rates jumped in Arizona relative to the synthetic control following LAWA on the order of 2–4 points. While toward the top range of estimates found in any state under the placebo test, the \( DD_{AZ} \) estimates are significant at only the 20% level, outside the typically acceptable range. For white native-born in particular, we find a 1.8 point increase in the unemployment rate (shown graphically in Figures 6 and 7). The differential change in unemployment among naturalized Hispanics is close to zero.

LAWA-induced changes in labor force participation for these groups go in different directions and are similarly imprecise. Following LAWA, a higher share of white native-born and Hispanic naturalized low-skilled men reported nonparticipation in the labor market relative to the synthetic control (1.8 and 3.7 points, respectively). But a lower share of Hispanic native-born workers

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9 Note that not all states in the donor pool achieve a well-matched synthetic control in the placebo exercise. The District of Columbia is the observation for which the match is markedly off in 2007. Our results are not sensitive to the inclusion of the District of Columbia in the donor pool, and it is not one of the states assigned weight in the synthetic control. The states that do receive positive weight and contribute to the “synthetic Arizona” for employment rates among native-born white men are: Alaska (0.332), Illinois (0.054), Indiana (0.527), and Kentucky (0.087).
reported nonparticipation in the labor market, relatively speaking, post-LAWA. Again, however, the results are not statistically significant at levels that would lead us to make strong conclusions.

Note that all results presented in Table 2 are robust to the alternative definition of the post-LAWA period. While our main results assume the official post-LAWA years are the relevant period in which to examine impacts, we also test including 2007 in the treatment period. LAW A was passed in July of 2007 and implemented in January 2008, so including 2007 in the treatment period may catch some anticipatory effects but will also include a half-year before LAW A was passed. In general, this alternative specification yields slightly attenuated results, consistent with the latter. For example, when 2007 is included in the post-LAWA period, the employment rate for white native-born men in Arizona falls 3.3 points relative to the synthetic Arizona (1 point less
than our preferred specification). We conducted similar robustness checks for all results that follow, with similar conclusions. Full results are available on request.

Combined with previous results, the pattern of findings suggests that LAW A had small, negative impacts on authorized workers, experienced as employment declines not likely to have been compensated by a shift to self-employment. Rather, we observe a disproportionate (though not strongly significant) increase in unemployment and nonparticipation in the labor force. The strongest findings suggest that employment effect effects were concentrated on low-skilled white workers, who experienced a small but statistically significant drop in employment and likely became unemployed or exited the labor force as a result. Considering the simultaneous outflow of unauthorized low-skilled immigrants from Arizona’s labor force, these findings on slightly diminished employment opportunities among competing workers suggests that not only labor supply was constricted but also employers likely reduced their demand to some extent as a result of LAW A. This scale effect may be interpreted as another unintended consequence of the policy.

**LAW A Effects on Earnings**

We next turn to earnings data to shed more light on plausible mechanisms driving employment declines observed for both authorized and—from previous work—unauthorized men in Arizona due to LAW A. If the employment decreases were entirely due to a decline in labor demand (for instance a pure scale effect due to increased cost of hiring), we would expect a corresponding decline in wages. If the employment declines were due entirely to a labor supply contraction, however, we would expect an increase in wages. In the previous section, our estimates suggest that LAW A affected both labor supply and labor demand. Thus, the effect on wages is determined by the relative size of these effects, and may increase (if labor supply dominates) or decrease (if labor demand dominates).

Assessing wage outcomes in the manner of this study is challenging. As discussed earlier, the synthetic control requires high frequency data over a long time period and our research question pertains to relatively small demographic groups. Questions on individual earnings are asked in the monthly CPS but only of a subsample too small within which to credibly identify our small population group of interest. Thus, we turn to the March CPS sample (the “Annual Social and Economic Supplement”), where a larger number of respondents are asked about earnings over the previous year. And even though this is a quite large sample relative to other months of the survey, it is not sufficient to estimate robust earnings outcomes for enough states to conduct the synthetic control approach on any of our subgroups except non-Hispanic White native-born low-skilled men. Fortunately—likely for similar reasons—this is the subgroup for which we estimated the most strongly significant and consistent results in terms of employment outcomes. Thus, we focus in this section exclusively on the earnings outcomes of non-Hispanic white native-born working age men with a high-school education or less.

We use both reported earnings in a respondent’s current job (the “usual” earnings per week) and reported wage and salary earnings for the full year prior to the survey. In both cases, we align the reference period for the earnings question with the pre- and post-LAWA analysis years. Thus, we use different samples and different respondents to create the two sets of earnings outcome

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10 Regulations regarding business licensure vary by city and county. At the state level, the Arizona Department of Revenue does not require licensing of businesses that employ withholding-exempt employees only. This includes seasonal workers and domestic help. (Telephone communication with Arizona Department of Revenue 7/13/2010).
variables at the state level: 1999–2010 surveys for the “earnings last year” outcomes and 1998–2009 surveys for the “current earnings” outcomes. The “earnings last year” outcomes we calculate at the state-year level reflect earnings of state residents who did not move between surveys. Though we expect low-skilled white male migration rates to be quite low, as they typically are compared to other groups, a strong selectivity in the flow could bias our results but the direction is a priori unclear. A negatively selected outflow (e.g., those leaving because they earn low wages or are unemployed) may lead to an overestimate in the DD framework, whereas a positively selected outflow (e.g., high-ability workers leaving for better opportunities) may lead to an understatement of LAWA’s true effect.

Table 3 presents synthetic control estimates for a number of earnings-related outcomes for white low-skilled men in Arizona following LAWA. We find consistent evidence that earnings increased in Arizona following LAWA relative to comparison states. Average weekly earnings for low-skilled white men fell in 2008 and 2009 in both Arizona and the synthetic control states but declined relatively less in Arizona, by about $150. Median earnings, not surprisingly, changed relatively less, about $116 higher in Arizona relative to the synthetic control following LAWA. Both results are in the tails of the placebo distribution and are statistically significant beyond the 10% level.

Higher relative wages in Arizona following LAWA for low-skilled native-born white men are estimated regardless of which set of survey questions are used. Effects on average weekly earnings measured over the entire year are slightly smaller, possibly reflecting job loss, job change, or migration during the full year. On an annual basis, earnings in Arizona for this subgroup were $5500 higher on average—and $1400 higher at the median—following LAWA than in the synthetic control. All estimates are in the tails of the placebo distribution among donor pool states, but results pertaining to mean earnings are more strongly outliers. Also, hourly earnings are relatively higher by about $2 in Arizona following LAWA (Figures 8 and 9). This last result on hourly wages affirms that it was not simply an adjustment in hours worked that generated earnings changes at the weekly or annual level.

The evident increase in wages for low-skilled native-born white men following LAWA, coupled with their falling employment rate, suggests that the constriction in labor supply of low-

| Earnings at current job | Pre-average difference relative to synthetic cohort | Post-average difference relative to synthetic cohort | Change (Difference-in-difference estimate) | Rank, difference-in-difference estimate | p Value from one-tailed test, p(ΔA<|ΔAZ|) |
|------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------------|---------------------------------------|--------------------------------------|
| weekly earnings (mean) | -5.26                                         | 148.94                                        | 154.20                                   | 42/44                                 | 0.068                               |
| weekly earnings (median)| -5.16                                         | 111.17                                        | 116.34                                   | 41/44                                 | 0.091                               |

| Earnings over full year | Pre-average difference relative to synthetic cohort | Post-average difference relative to synthetic cohort | Change (Difference-in-difference estimate) | Rank, difference-in-difference estimate | p Value from one-tailed test, p(ΔA<|ΔAZ|) |
|------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------------|---------------------------------------|--------------------------------------|
| weekly earnings (mean) | -2.45                                         | 122.27                                        | 124.73                                   | 45/45                                 | 0.022                               |
| weekly earnings (median)| -2.32                                         | 21.65                                         | 23.97                                    | 38/45                                 | 0.178                               |
| annual earnings (mean) | -16.16                                        | 5443.40                                       | 5459.56                                  | 43/45                                 | 0.067                               |
| annual earnings (median)| 50.54                                         | 1420.18                                       | 1369.64                                  | 39/45                                 | 0.156                               |
| hourly wage (mean)     | -0.01                                         | 2.11                                          | 2.12                                     | 42/45                                 | 0.089                               |

skilled workers overall dominated the reduction in labor demand for the same workers. LAWA appears to have improved the outcomes for low-skilled white men who were employed in the policy’s aftermath, though fewer evidently found employment. Future research may shed light on additional mechanisms generating these outcomes, and the extent to which it is unique to Arizona in this time period. For example, there is a high degree of segregation in the sector of employment between low-skilled workers according to legal status. The extent to which an outflow of unauthorized workers may have induced legal workers to shift sectors to find employment and evidently higher relative wages (and the role the recession may have also played in doing so) plays a role in generating the effects, we estimate here.

**Figure 8.** Average Hourly Earnings for White Native-Born Working-Age Men with High School or Less, Arizona and Synthetic Arizona, 1998–2009.
*Source:* Author’s calculations from the 1999–2010 March CPS. *Notes:* Hourly earnings calculated for all employed persons using data on last year’s earnings weeks worked, and hours, in 1999 dollars. The x-axis above shows the reference period, rather than survey year. Synthetic Arizona consists of the following states (with weights in parentheses): Arkansas (0.257), Delaware (0.056), Hawaii (0.077), Missouri (0.237), Oklahoma (0.129), and Oregon (0.244).

**Figure 9.** Difference in Average Hourly Earnings Relative to the Synthetic Control Group, White Native-Born Working-Age Men with High School or Less, All States (Arizona Displayed with Thick Black Line).
*Source:* Author’s calculations from the 1999–2010 March CPS.
In addition, because data do not permit assessment of wages among competing groups of Hispanic workers, we are limited in the ability to draw strong conclusions about the likelihood employers engage in statistical discrimination as a result of LAWA. We find patterns of restricted employment opportunities (though imprecise) among Hispanic naturalized low-skilled men, perhaps the most likely to be impacted by statistical discrimination. Lacking better data on changes in earnings, however, it is impossible to discern whether or how much labor supply and demand shocks generated these patterns.

6. Conclusions

Using the synthetic control approach for assessing the impact of a single policy change in a single area, we estimate the impact of the LAWA of 2007 on labor market outcomes for legal workers in Arizona. Evidence to date implies that LAWA was largely successful in meeting its goal of deterring unauthorized immigration to the state and preventing employment of unauthorized workers. In previous work, we estimated a roughly 17% decline in unauthorized population of the state and an 11 percentage point decline in formal employment both suggesting worsening labor market conditions for unauthorized due to LAWA. However, we also identified a shift toward informal employment, as measured by the 8 point increase in self-employment among unauthorized workers due to LAWA, hinting at one unintended consequence of the policy. In this article, we examine outcomes for workers likely to compete with—or substitute for—unauthorized immigrants. We find, in sum, no evidence that LAWA improved the likelihood of employment for low-skilled legal workers. In fact, we find some evidence of the opposite, which may be viewed as an additional unintended consequence of the policy.

Specifically, we find restricted employment opportunities—though much smaller than among unauthorized workers and nonexistent for some demographic subgroups. We find the strongest pattern of evidence toward slightly lower employment levels but higher earnings among competing low-skilled white men. These findings suggest that, in addition to the constriction in labor supply of low-skilled men, LAWA also induced a labor demand downward adjustment, or scale effect.

In particular, we find that low-skilled native born white men in Arizona faced a lower employment rate on the order of 4 percentage points due to LAWA. Their unemployment rate increased by 2 percentage points and the share who are out of the labor force increased as well, but these last two effects cannot be reliably attributed to LAWA. The earnings of this group, among those who were employed, increased as well—indicating the shock to labor supply among low-skilled workers overall was larger than the decrease in labor demand.

Although Arizona’s E-verify mandate achieved its goal of deterring unauthorized immigration and employment, it also generated unintended consequences on the labor market. In addition to constraining employment among unauthorized immigrants, LAWA also reduced employment opportunities among some low-skilled legal workers. Though these negative employment effects are very small in magnitude, they are ostensibly the opposite of hoped-for effects among some supporters of the law. However, the largest group of low-skilled authorized men in Arizona, non-Hispanic whites, earned higher wages on average, as well. Impacts on other, smaller, groups of low-skilled authorized workers remain unknown and are worthy of further study.

Policymakers should weigh this mixed set of impacts when considering E-verify mandates. Since LAWA, a number of states have instituted mandates of varying degree. As more places
institute similar policies, the labor market mechanisms and impacts of E-verify policy may change. In Arizona, LAWA’s impacts appear to have been dominated by a reduction in labor supply, a decline in unauthorized workers who left for or chose other states over Arizona. As more states introduce E-verify, however, fewer migration alternatives exist and the less likely we are to observe sizeable labor supply reductions. Hypothetically a federal E-verify mandate, such as those included in previous reform proposals in the U.S. Congress, would clamp down on this mechanism even further.

The extent to which E-verify impacts the scale of business, which reinforced downward pressure on employment in Arizona, may depend on the degree of enforcement. This may vary over time, if employers learn enforcement is lax, and may vary across places. States that have implemented mandates vary substantially in the degree of enforcement they have set forth. In addition, current policies contain a variety of loopholes, such as the independent contractor loophole in LAWA, which we found to have significant impacts on labor market adjustments. Thus, it is important to use caution when generalizing impacts of LAWA to broader policy debates.

However, there are lessons to be learned from a single state’s experience. While LAWA appears to have achieved its goal of reducing the presence and employment of unauthorized immigrants in the state, no evidence suggests that it improved the likelihood of employment for competing workers. While some legal workers earned relatively higher wages as a result, fewer found employment in the state following LAWA.

References


