A Online Appendix for "Does Banning the Box Help Ex-Offenders Get Jobs? Evaluating the Effects of a Prominent Example"

A.1 Proof that ξ_D falls between ξ_n and ξ_p

After some manipulation, the derivative of ξ_D with respect to s_D can be expressed as:

$$\frac{d\xi_D}{ds_D} = \frac{\mu_n (1 - \lambda_n) \lambda_p - \mu_p (1 - \lambda_p) \lambda_n + (p + \delta)(\lambda_n - \lambda_p)}{[(1 - s_D) \lambda_n + s_D \lambda_p]^2}$$

The sign of the numerator is the same as the sign of $\xi_p - \xi_n$. if $s_D = 0$, $\xi_D = \xi_n$. Hence if $\xi_n < \xi_p$, ξ_D is monotonically increasing in s_D until $s_D = 1$ and $\xi_D = \xi_p$. The opposite case for $\xi_n > \xi_p$ is analogous.

A.2 Hiring rates

BTB only partially limits employers' information. After the initial interview, firms are allowed to conduct a criminal background check before finalizing a hiring decision. The impact of BTB on hiring thus may differ from its impact on interviews. In this model, after the interview takes place δ is sunk and no longer factors into employers' decisions. The worker will thus be hired if q_i turns out to be sufficiently high, i.e., $q_i > w$.

Note that q_i and θ_i are joint normal random variables with correlation $\rho = \sigma_R^2 / \sqrt{\sigma_R^2 (\sigma_R^2 + \sigma_e^2)}$. The joint probability of an interview and being hired is thus:

$$P_{hire} = P(q_i > w, \theta_i > \xi_R) \tag{10}$$

$$= \Phi\left(\frac{\mu_R - w}{\sigma_R}, \frac{\mu_R - \xi_R}{\sqrt{\sigma_R^2 + \sigma_e^2}}; \rho\right) \tag{11}$$

where $\Phi(\cdot, \cdot; \rho)$ is the bi-variate standard normal CDF with correlation ρ . Since this CDF is an increasing function of both its arguments, hiring rates have the same comparative statics as interview rates with respect to ξ_R . Thus the range of possible effects on record or demographic-group specific interview rates also translate into effects on hiring rates, making the theoretical effect of BTB on demographic group's average employment rates also ambiguous.

The probability of being hired conditional on an interview, however, is more complicated. To derive the conditional distribution of q_i given an interview (i.e., $\theta_i > \xi_R$), observe that (suppressing a subscript R to denote densities within a criminal record group):

$$f(q_i|\theta_i) = \frac{f(\theta_i|q_i)f(q_i)}{f(\theta_i)} \tag{12}$$

$$f(q_i|\theta_i > \xi_R) = \int_{\xi_R}^{\infty} \frac{f(\theta_i|q_i)f(q_i)}{f(\theta_i)} \frac{f(\theta_i)}{Pr(\theta_i > \xi_R)} d\theta_i$$
 (13)

$$= f(q_i) \int_{\xi_R}^{\infty} \frac{f(\theta_i|q_i)}{Pr(\theta_i > \xi_R)} d\theta_i$$
 (14)

$$= f(q_i) \frac{\Phi\left(\frac{q_i - \xi_R}{\sigma_e}\right)}{Pr(\theta_i > \xi_R)} \tag{15}$$

$$= \frac{1}{\sigma_R} \phi \left(\frac{q_i - \mu_R}{\sigma_R} \right) \frac{\Phi \left(\frac{q_i - \xi_R}{\sigma_e} \right)}{Pr(\theta_i > \xi_R)}$$
 (16)

where I have relied on the fact that $f(\theta_i|q_i) \sim N(q_i, \sigma_e^2)$. This is a type of non-standard skewed normal distribution.¹¹ Observe that as $\xi_R \to -\infty$, we recover the unconditional distribution of q_i . As ξ_R grows larger, the distribution develops a right skew. Notice also that as $\sigma_e \to 0$, this distribution approaches a truncated normal distribution, since the terms involving ξ_R collapse to a simple indicator function. Hiring rates can be derived by integrating this density over (w, ∞) with respect to q_i .

After the implementation of BTB, this density becomes a mixture across the two criminal record groups:

$$f_D(q_i|\theta_i > \xi_R) = \sum_{R=n,p} s_D^R \frac{1}{\sigma_R} \phi\left(\frac{q_i - \mu_R}{\sigma_R}\right) \frac{\Phi\left(\frac{q_i - \xi_D}{\sigma_e}\right)}{Pr_R(\theta_i > \xi_D)}$$
(17)

where $s_D^p = s_D$, $s_D^n = 1 - s_D$. Without a closed-form expression for the CDF of this density, is difficult to compare conditional hiring rates before and after BTB analytically. Depending on the parameterization, rates can increase or decrease. Thus, while effects of BTB for individuals with and without records on overall hiring rates go in the same direction as effects on interview rates, effects on the probability of hiring conditional on an interview need not.

The conventional skewed normal distribution is given by $f(x) = \frac{2}{\sigma} \phi\left(\frac{x-\mu}{\sigma}\right) \Phi\left(\frac{x-\mu}{\sigma}\right)$, which only coincides with this distribution under special circumstances.

A.3 Non-offender results

Due to the small size of the areas under study, datasets used in other analyses of BTB nationally such as the CPS are not suitable. The Census's OnTheMap data, which summarizes information from the confidential Longitudinal Employer-Household Dynamics dataset, can provide much more detail at fine levels of aggregation, but unfortunately are not available after 2014 and do not allow for sufficient demographic sub-group analysis.

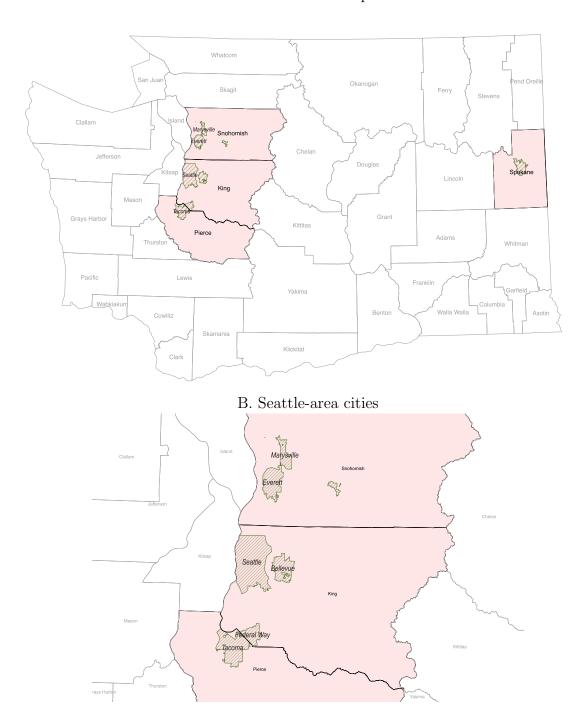
Given these constraints, I use the 2007-2015 American Community Survey (ACS) from IPUMS Ruggles et al. (2017). In this dataset, the smallest identifiable geography is a Public Use Microdata Area (PUMA), which nests within states and contains at least 100,000 people. I estimate Specification 9 for all individuals, black and Hispanic men, and men with no college education using various possible control areas. Because the ACS is a repeated cross-section, these regressions effectively test for differences in aggregate employment rates, adjusted for demographic composition, between Seattle and the comparison areas each year before and after BTB.

Table 7 reports the coefficients on the interaction of the treatment indicator and year or event-time variable. The specifications in Columns 1-3, which test for aggregate employment, detect decreases in employment in Seattle both relative to nearby counties and Spokane before and after BTB. The estimates for minority men in Columns 4-6 display a similar pattern. Unfortunately, the standard errors are large enough that it is difficult to rule out large positive or negative effects. It is also difficult to detect any apparent pre-trends that would invalidate the experiment. The same is true of the specifications in Columns 7-9, which test for effects on non-college men.

A.4 Supplemental figures and tables

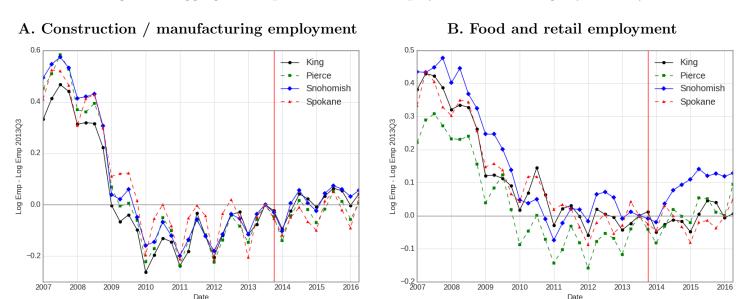
Figure 5: Treatment and control cities and counties in Washington State

A. Statewide map



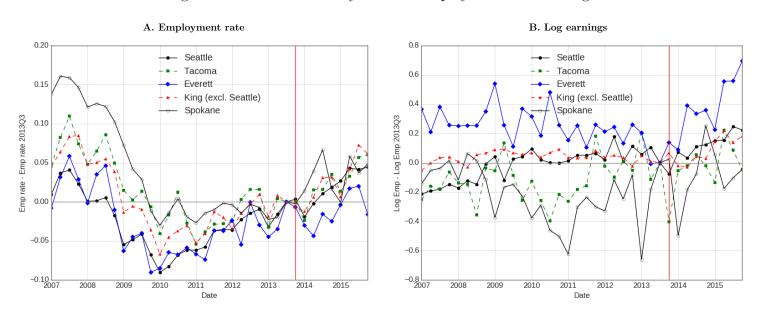
Notes: Panel A maps all counties in WA, with Snohomish, King, Pierce, and Spokane highlighted. Relevant city boundaries are also highlighted, but not all labeled. Additional detail on cities is shown in Panel B, which zooms in on the Seattle area.

Figure 6: Aggregate sample: Ex-offender employment and earnings by industry



Notes: Figures plot the log of raw total employment and earnings from jobs in King, Pierce, Snohomish, and Spokane Counties by industry. Only individuals released from DOC supervision before 2013 are included, so that the sample is fixed pre-BTB. Employment refers to the number of unique individuals with positive earnings from a job in that county-quarter combination. Individuals with multiple jobs in different counties (which is rare) are counted twice.

Figure 7: Probationer analysis: Raw employment and earnings



Notes: Figure plots the employment rate and the mean of log earnings (excluding zeros) for offenders on probation in Seattle, Tacoma, Everett, Spokane, and other cities in King County offices. See the text and footnotes for additional detail on sample and list of offices included in each category.

Table 2: Aggregate sample: Logit estimates

	vs. All		vs. Pierce a	nd Snohomish	vs. Sp	vs. Spokane		
	(1)	(2)	$\overline{\qquad \qquad }$	(4)	$\overline{\qquad \qquad }(5)$	(6)		
	Mlogit	Logit	Mlogit	Logit	Mlogit	Logit		
t = -4	0.0183	0.0160	0.0208	0.0192	0.0123	0.00978		
	(0.018)	(0.018)	(0.020)	(0.020)	(0.027)	(0.027)		
t = -3	0.0359*	0.0335	0.0326	0.0311	0.0437	0.0387		
	(0.018)	(0.018)	(0.020)	(0.020)	(0.027)	(0.027)		
t = -2	0.0468*	0.0443*	0.0323	0.0309	0.0820**	0.0769**		
0 2	(0.018)	(0.018)	(0.020)	(0.020)	(0.027)	(0.028)		
	(0.010)	(0.010)	(0.020)	(0.020)	(0.021)	(0.020)		
t = 0	0.0215	0.0174	0.0141	0.0107	0.0390	0.0350		
	(0.018)	(0.018)	(0.020)	(0.020)	(0.027)	(0.027)		
, 1	0.0270*	0.0206	0.0201	0.0000	0.0402	0.0201		
t = 1	0.0372^*	0.0306	0.0321	0.0269	0.0493	0.0391		
	(0.018)	(0.018)	(0.020)	(0.020)	(0.027)	(0.027)		
t = 2	0.0430^{*}	0.0369*	0.0428^{*}	0.0378	0.0435	0.0339		
	(0.018)	(0.018)	(0.020)	(0.020)	(0.027)	(0.028)		
t = 3	0.0164	0.00890	0.0219	0.0155	0.00347	-0.00863		
t = 3								
	(0.018)	(0.018)	(0.020)	(0.020)	(0.027)	(0.027)		
t = 4	0.000915	-0.0113	-0.00191	-0.0122	0.00764	-0.0105		
	(0.018)	(0.018)	(0.020)	(0.020)	(0.027)	(0.027)		
N	3,628,155	396,490	3,628,155	340,600	3,628,155	262,812		
P-value pre trends	0.200	0.215	0.466	0.449	0.019	0.036		
P-value post effects	0.112	0.060	0.179	0.096	0.216	0.235		

Notes: Table displays the results from multi- and bi-nomial logits corresponding to Equation 8. The underlined title above each pair of columns indicates the base category, e.g., employment in Pierce, Snohomish, or Spokane counties (columns 1-2). Columns labeled "mlogit" include employment in King County, employment elsewhere in the county, and non-employment as alternative outcomes. Columns labeled "logit" include only employment in King County and the base set of comparison counties. The reported coefficients are exponentiated and can be interpreted as effects on log odds of employment in King County relative to the base set. All specifications include fixed effects for age in quarters, gender and race. The p-values in the last two rows are from χ^2 tests for the joint significance of all pre-treatment indicators (i.e., s<0) and post-treatment indicators, respectively. Sample includes all individuals aged 18-54, not deceased, and already released from their first spell of DOC supervision before 2013. 2 years of data pre- and post-BTB implementation data included, although event-time indicators for [-4,4] only reported. t=-1 is omitted.

^{*} p < 0.05, ** p < 0.01, *** p < 0.001

Table 3: Recently released sample: Difference-in-difference estimates

	VS.	All	vs. Pierce a	and Snohomish	vs. Sp	okane
	(1)	(2)	$\overline{(3)}$	(4)	$\overline{\qquad \qquad }(5)$	(6)
	Emp.	Earnings	Emp.	Earnings	Emp.	Earnings
s = -4	-0.00255	16.99	0.00342	59.11	-0.0165*	-82.21*
	(0.0047)	(31.6)	(0.0052)	(35.4)	(0.0066)	(38.3)
s = -3	0.00107	43.53	0.00473	64.12*	-0.00750	-5.203
	(0.0042)	(27.1)	(0.0046)	(30.7)	(0.0059)	(32.6)
s = -2	0.00275	29.82	0.00187	22.71	0.00479	46.64
	(0.0035)	(21.9)	(0.0038)	(24.3)	(0.0048)	(29.1)
s = 0	0.00125	61.27**	-0.000139	63.62*	0.00445	55.89
	(0.0035)	(22.7)	(0.0039)	(25.4)	(0.0047)	(28.7)
s = 1	0.00326	98.61***	0.00279	88.12**	0.00449	123.6***
	(0.0042)	(28.0)	(0.0046)	(31.4)	(0.0055)	(34.6)
s = 2	0.00686	119.3***	0.00939	101.2**	0.00102	162.4***
	(0.0044)	(30.1)	(0.0049)	(33.7)	(0.0061)	(38.3)
s = 3	0.00714	96.11**	0.0111*	90.24*	-0.00212	109.6**
	(0.0046)	(32.7)	(0.0051)	(36.6)	(0.0065)	(41.0)
s = 4	0.00185	83.21*	0.00285	79.66	-0.000428	92.05*
	(0.0049)	(36.9)	(0.0054)	(41.3)	(0.0070)	(46.1)
N	888,174	888,174	736,896	736,896	531,506	531,506
Dep. Var. Mean	0.248	1472.360	0.250	1538.086	0.247	1433.100

Notes: Table displays estimates of Specification 9. The underlined title above each pair of columns indicates the control area, e.g., Pierce, Snohomish, and Spokane counties (columns 1-2). The coefficients reported are the γ_s^T for $s \in [-4,4]$, where s=-1 is omitted. Standard errors are clustered at the individual level. Employment is an indicator for any positive earnings in a given quarter, while earnings is total quarterly earnings (including zeros).

^{*} p < 0.05, ** p < 0.01, *** p < 0.001

Table 4: Nonwhite recently released sample: Difference-in-difference estimates

-	A	All	Pierce and	d Snohomish	Spol	Spokane		
	(1)	(2)	$\overline{(3)}$	(4)	$\overline{(5)}$	(6)		
	Emp.	Earnings	Emp.	Earnings	Emp.	Earnings		
s = -4	-0.00224	-20.58	0.00110	-13.59	-0.0149	-44.78		
	(0.0079)	(43.5)	(0.0085)	(47.7)	(0.014)	(62.1)		
s = -3	0.00392	32.78	0.00535	42.99	-0.00167	-4.966		
	(0.0071)	(37.4)	(0.0076)	(41.4)	(0.012)	(48.9)		
s = -2	0.00377	7.837	0.00131	5.212	0.0130	17.88		
	(0.0059)	(29.8)	(0.0063)	(32.2)	(0.010)	(47.1)		
s = 0	-0.00553	26.01	-0.00659	31.74	-0.00160	5.547		
	(0.0062)	(32.3)	(0.0067)	(35.0)	(0.011)	(51.2)		
s = 1	0.00186	100.4*	0.00225	121.5**	0.000913	23.14		
	(0.0071)	(40.1)	(0.0078)	(43.4)	(0.012)	(62.6)		
s = 2	0.0148*	89.55*	0.0208**	100.3*	-0.00744	52.98		
	(0.0075)	(44.3)	(0.0080)	(48.0)	(0.014)	(70.6)		
s = 3	0.0117	82.37	0.0210*	118.1*	-0.0235	-49.98		
	(0.0078)	(46.9)	(0.0083)	(50.9)	(0.014)	(71.5)		
s = 4	-0.00206	74.27	-0.00220	100.3	-0.000986	-21.23		
	(0.0082)	(52.4)	(0.0089)	(56.8)	(0.014)	(80.7)		
N	328,814	328,814	298,680	298,680	214,966	214,966		
Dep. Var. Mean	0.224	1125.617	0.225	1150.499	0.227	1150.650		

Notes: Table displays estimates of Specification 9 for non-white offenders. The underlined title above each pair of columns indicates the control area, e.g., Pierce, Snohomish, and Spokane counties (columns 1-2). The coefficients reported are the γ_s^T for $s \in [-4,4]$, where s=-1 is omitted. Standard errors are clustered at the individual level. Employment is an indicator for any positive earnings in a given quarter, while earnings is total quarterly earnings (including zeros).

^{*} p < 0.05, ** p < 0.01, *** p < 0.001

Table 5: Probationer analysis: Difference-in-difference estimates

	vs. All vs. Neighboring		vs. Everett		vs. Within King Co.		vs. Sp	vs. Spokane		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Emp.	Earnings	Emp.	Earnings	Emp.	Earnings	Emp.	Earnings	Emp.	Earnings
s = -4	-0.00457	-52.39	-0.00236	-47.94	-0.0363	-191.2	0.0125	28.88	-0.0169	-77.05
	(0.016)	(71.3)	(0.016)	(74.8)	(0.031)	(116.4)	(0.018)	(86.8)	(0.021)	(85.1)
s = -3	0.00150	-6.027	0.00248	-4.161	0.00169	-46.39	0.00625	23.97	-0.00321	-15.63
	(0.015)	(68.1)	(0.016)	(70.9)	(0.028)	(110.9)	(0.018)	(81.2)	(0.022)	(79.6)
s = -2	0.00645	31.40	0.0102	30.60	-0.00560	-39.17	0.0108	68.44	-0.0154	27.18
	(0.013)	(56.6)	(0.013)	(59.0)	(0.024)	(94.5)	(0.015)	(66.9)	(0.018)	(67.2)
s = 0	0.0110	32.08	0.0133	52.08	-0.0236	-41.38	0.0209	74.59	-0.00138	-78.48
	(0.014)	(60.7)	(0.015)	(63.2)	(0.027)	(91.3)	(0.016)	(73.9)	(0.018)	(69.7)
s = 1	0.0209	-8.060	0.0244	9.466	-0.00948	-123.5	0.0331	-1.765	-0.00127	-123.0
	(0.016)	(71.1)	(0.016)	(74.7)	(0.028)	(108.1)	(0.018)	(90.7)	(0.020)	(80.7)
s = 2	0.00820	24.32	0.0167	48.82	-0.00639	-111.6	0.0177	74.59	-0.0393	-120.2
	(0.016)	(71.7)	(0.016)	(75.0)	(0.028)	(108.7)	(0.018)	(90.3)	(0.021)	(82.3)
s = 3	0.00539	-42.90	0.0146	-5.122	0.0256	-89.95	0.0168	39.09	-0.0479*	-260.1**
	(0.016)	(76.0)	(0.017)	(79.6)	(0.028)	(113.3)	(0.019)	(95.7)	(0.022)	(95.9)
s = 4	0.00273	-64.05	0.0130	-12.26	0.0112	-78.96	0.00949	-20.92	-0.0555*	-359.6**
	(0.017)	(86.1)	(0.018)	(89.8)	(0.030)	(130.7)	(0.020)	(108.0)	(0.025)	(114.9)
N	430,927	430,927	380,301	380,301	164,352	164,352	$278,\!176$	278,176	179,491	179,491
Dep. Var. Mean	0.210	971.921	0.209	979.066	0.191	834.906	0.215	1054.790	0.192	836.153

Notes: Includes all individuals under supervision at time t and assigned to a field office in relevant city or county. Estimates shown are the coefficient on the interaction of an indicator for assignment to a Seattle field office with event-time indicators. In columns 1-2, all comparison regions are including: Everett, Tacoma, other cities in King County (excluding Seattle), and Spokane. Column 3-4 excludes Spokane. Column 5-6 includes Everett only as a control. Column 7-8 includes other cities in King County only. And Column 9-10 includes Spokane only. All regressions included indicators for age (in quarters), gender, and race.

^{*} p < 0.05, ** p < 0.01, *** p < 0.001

Table 6: Non-white probationer analysis: Difference-in-difference estimates

	I	All	Neigh	nboring	Eve	erett	Within King Co.		Spo	Spokane	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	Emp.	Earnings	Emp.	Earnings	Emp.	Earnings	Emp.	Earnings	Emp.	Earnings	
s = -4	0.0265	54.11	0.0245	42.61	0.101	225.5	0.0258	14.17	0.0463	157.0	
	(0.021)	(75.9)	(0.022)	(79.8)	(0.052)	(157.5)	(0.025)	(94.2)	(0.029)	(107.6)	
s = -3	0.0210	32.01	0.0175	23.55	0.0961*	224.6	0.0159	-19.71	0.0520	98.73	
	(0.022)	(83.1)	(0.022)	(86.4)	(0.041)	(151.0)	(0.025)	(100.0)	(0.030)	(111.2)	
s = -2	0.0199	98.83	0.0193	85.22	0.0556	175.4	0.0131	67.23	0.0208	160.1*	
	(0.018)	(64.2)	(0.018)	(67.3)	(0.035)	(123.9)	(0.021)	(74.2)	(0.026)	(80.2)	
s = 0	0.0104	-6.115	0.00777	-6.461	-0.0617	-245.5	0.0167	-4.994	0.0323	-14.53	
	(0.019)	(66.0)	(0.019)	(68.8)	(0.051)	(170.6)	(0.022)	(75.0)	(0.026)	(83.1)	
s = 1	0.0207	-19.24	0.0158	-30.31	0.0247	-16.70	0.0207	-106.4	0.0551	51.42	
	(0.022)	(75.7)	(0.022)	(79.1)	(0.049)	(153.2)	(0.025)	(91.7)	(0.032)	(86.8)	
s = 2	0.0236	61.18	0.0235	62.48	0.0215	66.31	0.0216	19.58	0.0288	54.79	
	(0.021)	(82.8)	(0.022)	(86.0)	(0.052)	(166.7)	(0.026)	(97.9)	(0.028)	(104.1)	
s = 3	0.0186	89.86	0.0191	99.62	0.152***	291.3	0.00560	44.21	0.0157	25.22	
	(0.022)	(91.5)	(0.023)	(95.4)	(0.046)	(197.9)	(0.027)	(109.9)	(0.034)	(118.2)	
s = 4	0.0154	15.12	0.0143	19.75	0.0213	-34.73	0.00389	-59.75	0.0250	-20.23	
	(0.023)	(103.0)	(0.024)	(107.5)	(0.065)	(232.8)	(0.028)	(125.9)	(0.036)	(139.7)	
N	192,815	192,815	178,301	178,301	81,151	81,151	138,580	138,580	86,821	86,821	
Dep. Var. Mean	0.179	656.697	0.180	667.145	0.160	558.576	0.185	700.128	0.158	537.093	

Notes: Includes all non-white individuals under supervision at time t and assigned to a field office in relevant city or county. Estimates shown are the coefficient on the interaction of an indicator for assignment to a Seattle field office with event-time indicators. In columns 1-2, all comparison regions are including: Everett, Tacoma, other cities in King County (excluding Seattle), and Spokane. Column 3-4 excludes Spokane. Column 5-6 includes Everett only as a control. Column 7-8 includes other cities in King County only. And Column 9-10 includes Spokane only. All regressions included indicators for age (in quarters), gender, and race.

^{*} p < 0.05, ** p < 0.01, *** p < 0.001

Table 7: Results for non-offenders from ACS

		All		N	Iinority n	nen	N	Non-college men		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	All	Nearby	Spokane	All	Nearby	Spokane	All	Nearby	Spokane	
$2009 \cdot treat$	-0.0253*	-0.0220*	-0.0459**	0.0185	0.0190	0.0112	-0.0172	-0.0136	-0.0317	
	(0.011)	(0.011)	(0.016)	(0.044)	(0.044)	(0.086)	(0.032)	(0.032)	(0.043)	
$2010 \cdot treat$	-0.0342**	-0.0298**	-0.0587***	-0.0711	-0.0666	-0.159	-0.0799*	-0.0710*	-0.130**	
	(0.011)	(0.011)	(0.016)	(0.044)	(0.044)	(0.088)	(0.031)	(0.032)	(0.043)	
$2011 \cdot treat$	-0.0148	-0.0129	-0.0259	-0.0444	-0.0444	-0.0446	-0.0389	-0.0347	-0.0594	
	(0.011)	(0.011)	(0.016)	(0.045)	(0.045)	(0.084)	(0.032)	(0.032)	(0.043)	
$2012 \cdot treat$	-0.00311	-0.00221	-0.00795	0.0334	0.0325	0.0425	0.0153	0.0202	-0.0189	
	(0.011)	(0.011)	(0.016)	(0.043)	(0.043)	(0.085)	(0.032)	(0.032)	(0.043)	
$2014 \cdot treat$	-0.0293**	-0.0301**	-0.0228	-0.0366	-0.0418	0.0544	-0.0141	-0.0156	0.0000188	
	(0.011)	(0.011)	(0.016)	(0.043)	(0.043)	(0.083)	(0.032)	(0.032)	(0.043)	
$2015 \cdot treat$	-0.00911	-0.0129	0.0156	-0.0217	-0.0258	0.0356	-0.0178	-0.0212	0.00672	
	(0.011)	(0.011)	(0.016)	(0.043)	(0.043)	(0.080)	(0.032)	(0.032)	(0.043)	
N	167,532	147,998	46,576	9,705	9,175	2,059	34,252	29,789	7,470	
Dep. Var. Mean	0.737	0.742	0.760	0.765	0.770	0.739	0.674	0.681	0.643	

Notes: Treatment and control is defined using IPUMS 2000-2010 consistent PUMAs. Treated PUMAs are 1039-1043. "Nearby" control PUMAs include 1038 and 1044-1048. "Spokane" control PUMAs include 1033. Columns labeled "All" contain both "Nearby" and "Spokane" controls. Sample in columns 1-3 includes all individuals aged 16-54 and not living in group quarters. Columns 4-6 subsets to male black and/or Hispanic men. Columns 7-9 subsets to men without any college education. All regressions include a cubic in age, PUMA fixed effects, and indicators for sex, race, and education (when not subsetting on those variables).

^{*} p < 0.05, ** p < 0.01, *** p < 0.001