P6 Penultimate Analyses - Prison

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Table 1: Unweighted Descriptive Statistics

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Median	Pctl(75)	Max
Prison History Pct.	1,150	1.451	0.640	0.260	0.970	1.370	1.850	4.370
Not Employed Rate	1,150	22.230	4.237	12.986	19.323	21.935	24.869	37.585
Unemployment Rate	1,150	5.512	1.870	2.206	4.223	5.203	6.400	14.957
Idleness Rate	1,150	17.588	3.446	9.973	15.129	17.368	19.720	28.983
Can't Find Work Rate	850	17.773	3.440	10.299	15.393	17.597	19.942	28.769
Population Share 16-25	1,150	18.318	1.780	13.331	17.218	18.183	19.343	27.342
Population Share 26-35	1,150	19.068	2.792	12.553	16.760	18.732	21.314	29.370
Population Share 36-45	1,150	19.705	1.996	13.676	18.315	19.768	21.020	29.022
Population Share 46-55	1,150	16.306	2.482	10.655	14.069	16.740	18.344	23.034
Population Share 56-65	1,150	11.838	1.749	7.055	10.545	11.517	12.931	17.791
Population Share 66+	1,150	14.764	2.117	5.395	13.761	14.937	15.928	20.551
Ovr. Unemployment Rate t	1,150	5.505	1.780	2.219	4.282	5.229	6.376	14.523
Ovr. Unemployment Rate t-1	1,150	5.391	1.643	2.219	4.259	5.206	6.307	13.243
Ovr. Unemployment Rate t-2	1,150	5.320	1.553	2.219	4.250	5.180	6.224	13.287
Ovr. Unemployment Rate t-3	1,150	5.394	1.624	2.219	4.267	5.210	6.291	13.287
Disability Rate	1,150	6.229	1.624	2.565	5.099	6.003	7.154	12.952
SSI Rate	1,150	2.739	1.161	0.765	1.893	2.402	3.324	7.110
Marriage Rate	1,150	57.067	4.227	44.599	54.123	56.793	59.817	71.036
Effective Wage	1,150	5.190	1.166	3.350	4.250	5.150	5.750	8.550
Mean TANF Maximum	1,150	403.792	155.250	117.667	289.333	376.333	507.667	925.333
Unemployment Compensation	1,150	358.496	65.844	157.124	311.618	356.399	400.119	581.813
Bacehlor's Degree Rate	1,150	21.609	7.688	4.539	18.459	22.703	26.425	41.208

Table 2: Pairwise Correlations

Variable	1	2	3	4	5	6	7	8	9	10	11	12	13
Not Employed Rate	1												
Unemployment Rate	0.77	1											
Idleness Rate	0.94	0.54	1										
Can't Find Work Rate	0.95	0.53	1	1									
Disability Rate	0.47	0.26	0.51	0.52	1								
SSI Rate	0.65	0.32	0.72	0.74	0.62	1							
Marriage Rate	-0.26	-0.25	-0.28	-0.33	-0.1	-0.27	1						
Prison History Pct.	0.33	0.24	0.36	0.39	0.15	0.33	-0.44	1					
SSDI Rate	0.61	0.3	0.65	0.65	0.81	0.84	-0.22	0.11	1				
Effective Wage	0.19	0.26	0.19	0.19	0.11	0.11	-0.64	0.53	0.06	1			
Mean TANF Maximum	-0.25	-0.04	-0.29	-0.3	-0.26	-0.37	-0.21	-0.1	-0.41	0.27	1		
Unemployment Comp.	0.12	0.1	0.12	0.09	0.11	0.02	-0.11	-0.04	0.01	0.23	0.08	1	
Bachelor's Degree Rate	-0.15	-0.09	-0.09	-0.29	-0.05	-0.05	-0.55	0.27	-0.41	0.65	0.36	0.25	1

Scatterplot of First Differences – Not Employed Rate
OLS Fit

p6 Overall Models
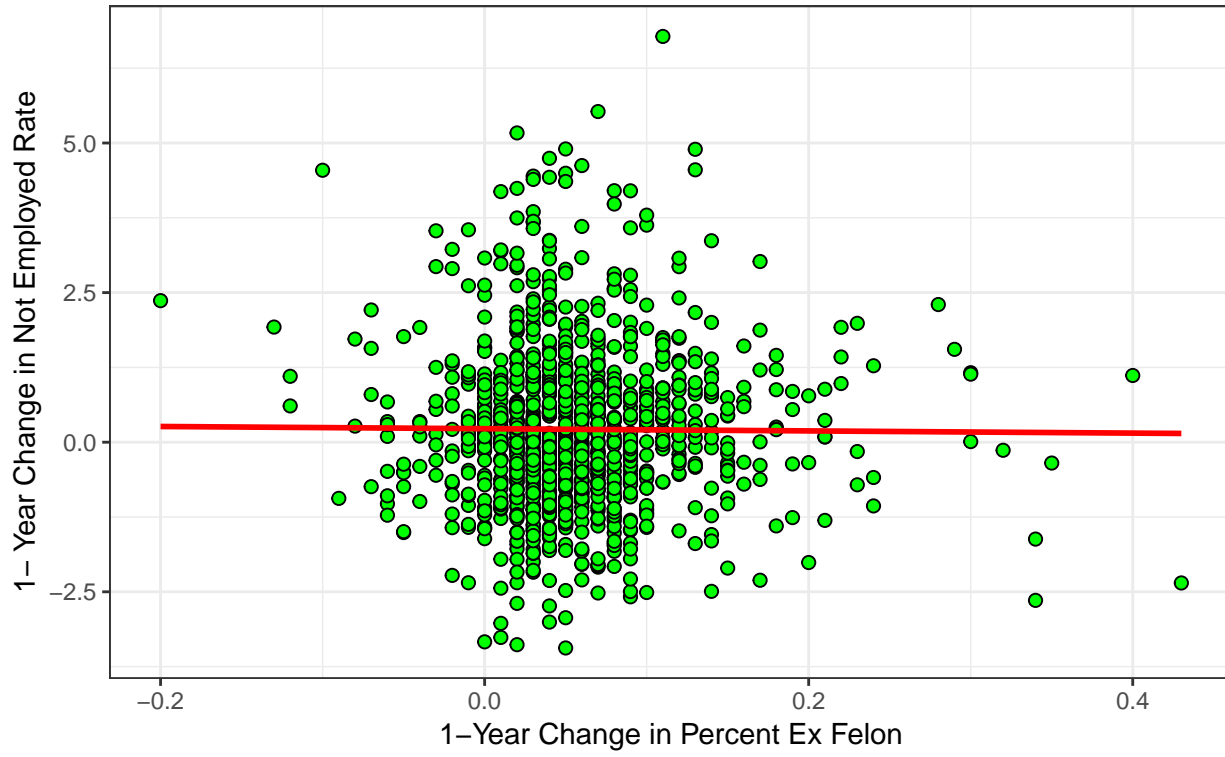
Table 3: Panel Models of Not Employed Rate, 1988-2010

|	(1)	(2)	(3)	(4)
Prison History Pct.	0.034 (0.504)	−0.006 (0.785)	0.080 (0.354)	0.019 (0.208)
Pop. Share 26-35		−0.016 (0.150)	0.100 (0.095)	0.056 (0.049)
Pop. Share 36-45		0.240 (0.175)	0.208* (0.084)	0.102 (0.053)
Pop. Share 46-55		−0.102 (0.164)	−0.109 (0.115)	−0.083 (0.060)
Pop. Share 56-65		−0.356 (0.225)	0.128 (0.100)	0.190** (0.064)
Pop. Share 66+		0.163 (0.144)	0.151 (0.094)	0.007 (0.050)
Ovr. Unemp. Rate t			1.078*** (0.080)	0.888*** (0.051)
Ovr. Unemp. Rate t-1			0.014 (0.072)	0.082* (0.038)
Ovr. Unemp. Rate t-2			−0.001 (0.090)	−0.028 (0.038)
Ovr. Unemp. Rate t-3			0.137 (0.089)	0.229*** (0.041)
Disab. Rate				0.107** (0.033)
Marriage Rate				0.030 (0.026)
Effective Wage				−0.050 (0.091)
Mean TANF Maximum				−0.001 (0.002)
Unemployment Comp.				0.000 (0.001)
Degree Rate				−0.062* (0.024)
State FE	Yes	Yes	Yes	Yes
Year FE	Yes	Yes	Yes	Yes
Observations	1,150	1,150	1,150	1,150
R^2	0.007	0.017	0.562	0.569
Adjusted R^2	−0.060	−0.054	0.528	0.534

Notes:	***Significant at the 0.1 percent level.
	**Significant at the 1 percent level.
	*Significant at the 5 percent level.
	Clustered Standard Errors by State and Year.
	Weighted by State-Year total pop.

Alternative Sample Models

Table 4: Alternative Sample Models

	Male	Female	Black	White
	(1)	(2)	(3)	(4)
Prison History Pct.	0.035 (0.139)	−0.052 (0.372)	−0.207 (0.116)	0.079 (0.209)
Pop. Share 26-35	0.089* (0.045)	0.064 (0.071)	0.401*** (0.117)	0.087 (0.052)
Pop. Share 36-45	0.266*** (0.053)	0.015 (0.079)	0.289* (0.113)	0.185** (0.056)
Pop. Share 46-55	0.070 (0.040)	−0.189 (0.104)	−0.050 (0.174)	−0.031 (0.069)
Pop. Share 56-65	0.122* (0.049)	0.251* (0.106)	0.471** (0.164)	0.230** (0.072)
Pop. Share 66+	0.199*** (0.046)	−0.137 (0.077)	0.112 (0.120)	0.042 (0.056)
Ovr. Unemp. Rate t	1.110*** (0.050)	0.676*** (0.081)	1.187*** (0.124)	0.854*** (0.056)
Ovr. Unemp. Rate t-1	0.103** (0.033)	0.063 (0.058)	−0.003 (0.127)	0.111** (0.040)
Ovr. Unemp. Rate t-2	−0.020 (0.034)	−0.018 (0.061)	0.006 (0.150)	−0.054 (0.041)
Ovr. Unemp. Rate t-3	0.057 (0.032)	0.391*** (0.071)	0.640*** (0.124)	0.126** (0.047)
Disab. Rate	0.174*** (0.021)	−0.000 (0.049)	0.149*** (0.008)	0.114** (0.035)
Marriage Rate	−0.140*** (0.021)	0.128*** (0.031)	−0.181*** (0.009)	0.027 (0.030)
Effective Wage	0.211** (0.074)	−0.271 (0.171)	−0.364 (0.273)	−0.004 (0.116)
Mean TANF Maximum	0.001 (0.001)	−0.002 (0.003)	0.003 (0.004)	−0.002 (0.002)
Unemployment Comp.	−0.002 (0.001)	0.003 (0.002)	−0.002 (0.004)	0.000 (0.001)
Degree Rate	−0.010 (0.016)	−0.111** (0.040)	−0.090*** (0.011)	−0.097*** (0.025)
Disab. Imputed			1.320*** (0.307)	
Marriage Imputed			11.628*** (0.878)	
State FE	Yes	Yes	Yes	Yes
Year FE	Yes	Yes	Yes	Yes
Observations	1,150	1,150	1,118	1,150
R^2	0.607	0.325	0.068	0.505
Adjusted R^2	0.575	0.269	−0.013	0.465

| *Notes:*	***Significant at the 0.1 percent level.
	**Significant at the 1 percent level.
	*Significant at the 5 percent level.
	Clustered Standard Errors by State and Year.
	Weighted by State-Year total pop.

Rolling-Window Models and Plot

Prison History Pct. FE Coefficient Over Time
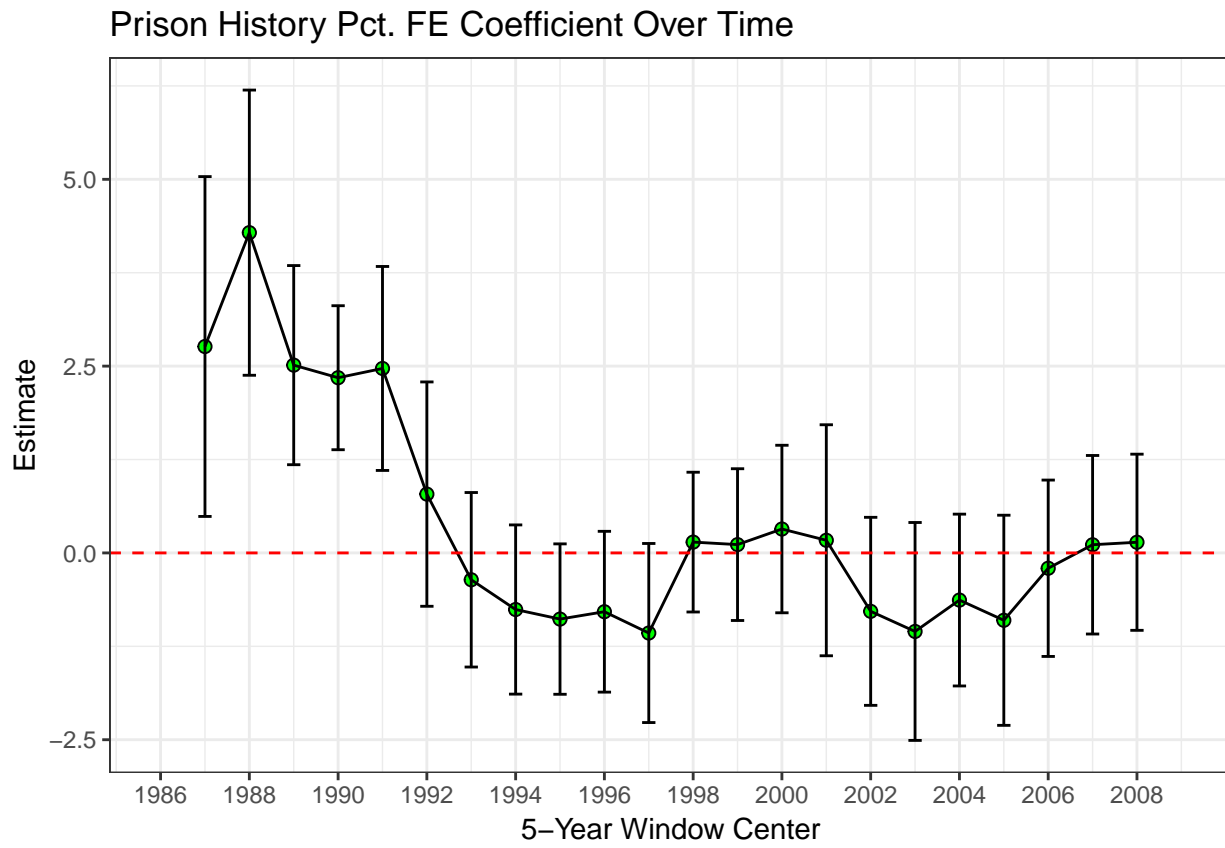
Male Prison History Pct. FE Coefficient Over Time
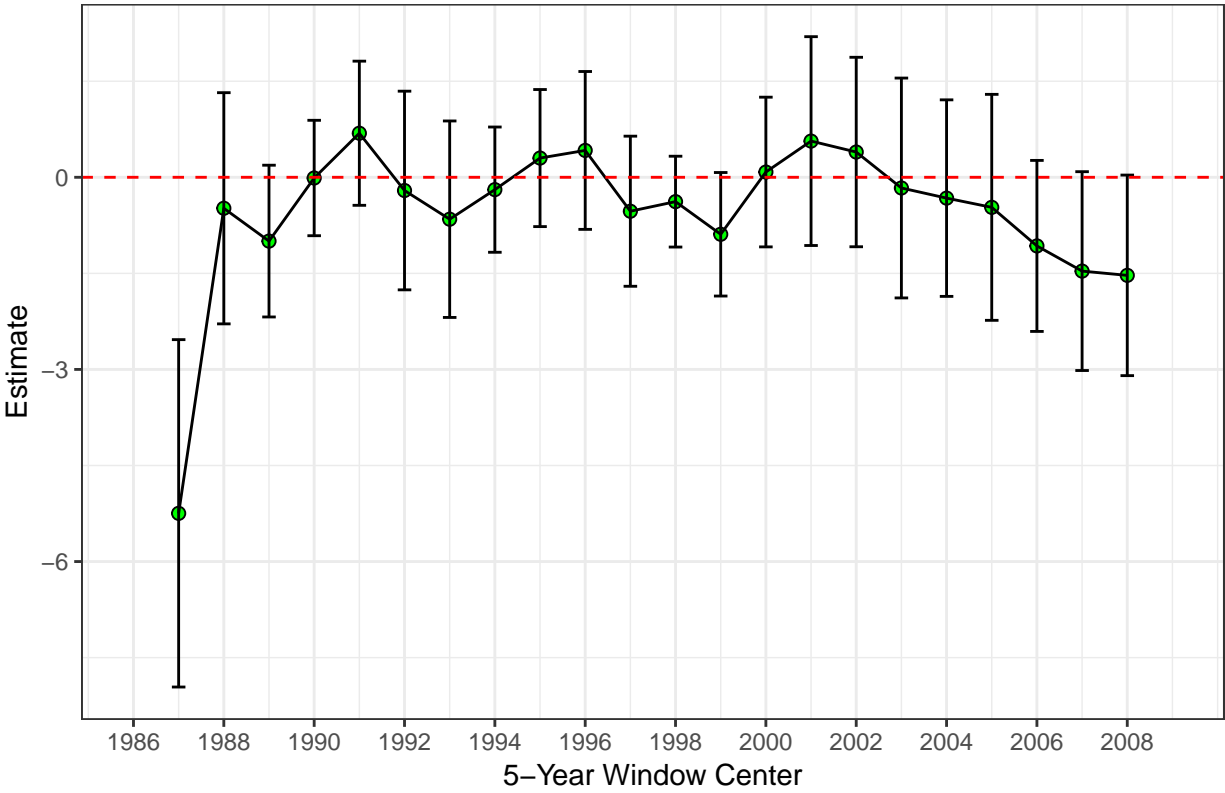
Female Prison History Pct. FE Coefficient Over Time
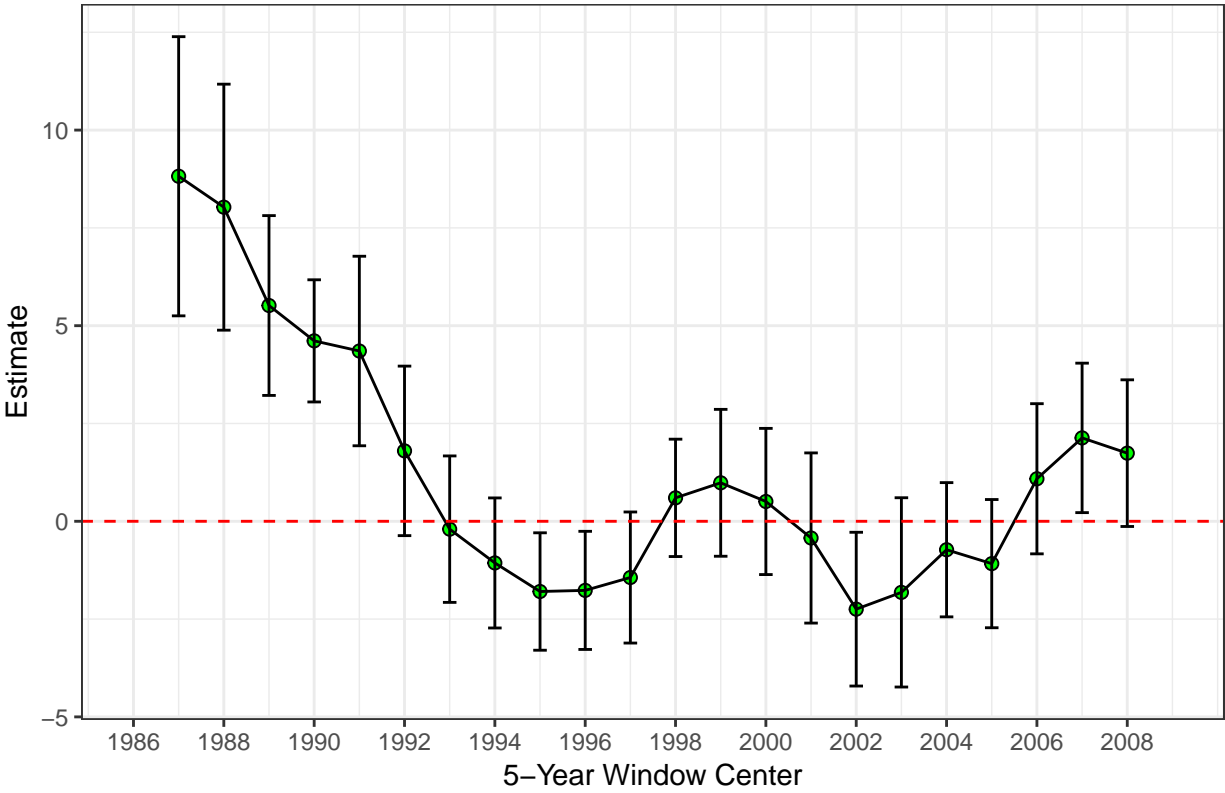
Alternative Specifications of Disabiility

Table 5: Alternative Specifications of Disability

	with SSI	Imputed	Imputed no SSI
	(1)	(2)	(3)
Prison History Pct.	−0.015 (0.199)	0.450* (0.187)	0.460* (0.191)
Pop. Share 26-35	0.048 (0.047)	0.070 (0.049)	0.073 (0.051)
Pop. Share 36-45	0.099 (0.053)	0.058 (0.054)	0.067 (0.054)
Pop. Share 46-55	−0.086 (0.057)	−0.149* (0.066)	−0.143* (0.067)
Pop. Share 56-65	0.161** (0.059)	0.115* (0.054)	0.156** (0.059)
Pop. Share 66+	0.018 (0.050)	−0.010 (0.051)	−0.022 (0.051)
Ovr. Unemp. Rate t	0.852*** (0.050)	0.923*** (0.043)	0.946*** (0.043)
Ovr. Unemp. Rate t-1	0.088* (0.038)	0.078** (0.029)	0.075** (0.029)
Ovr. Unemp. Rate t-2	−0.020 (0.037)	−0.007 (0.025)	−0.011 (0.025)
Ovr. Unemp. Rate t-3	0.226*** (0.037)	0.240*** (0.040)	0.243*** (0.041)
Disab.rate	0.124*** (0.031)	0.132*** (0.039)	0.118** (0.040)
SSI Rate	−0.583** (0.220)	−0.421 (0.232)	
Marriage Rate	0.032 (0.025)	0.041 (0.024)	0.036 (0.024)
Effective Wage	0.005 (0.096)	0.071 (0.103)	0.032 (0.105)
Mean TANF Maximum	−0.001 (0.002)	−0.000 (0.001)	−0.001 (0.002)
Unemployment Comp.	0.000 (0.001)	−0.001 (0.002)	−0.001 (0.001)
Degree Rate	−0.064** (0.024)	−0.053* (0.026)	−0.054* (0.027)
State FE	Yes	Yes	Yes
Year FE	Yes	Yes	Yes
Observations	1,150	1,400	1,400
R^2	0.572	0.594	0.594
Adjusted R^2	0.536	0.565	0.565

Notes: ***Significant at the 0.1 percent level.
          **Significant at the 1 percent level.
          *Significant at the 5 percent level.
          Clustered Standard Errors by State and Year.
          Weighted by State-Year total pop.

Time-Subset Models (Pre-Post 1997 PRWORA Enactment)

Table 6: Pre-Post PRWORA Subset Models

	Male Pre	Male Post	Female Pre	Female Post
	(1)	(2)	(3)	(4)
Prison History Pct.	0.369 (0.331)	−0.376 (0.236)	2.789*** (0.694)	0.231 (0.305)
Pop. Share 26-35	0.083 (0.069)	0.052 (0.069)	−0.123 (0.080)	0.031 (0.073)
Pop. Share 36-45	0.081 (0.080)	0.233*** (0.068)	−0.261* (0.116)	0.052 (0.079)
Pop. Share 46-55	0.001 (0.075)	0.166* (0.076)	0.034 (0.117)	−0.156 (0.086)
Pop. Share 56-65	0.078 (0.084)	0.142* (0.071)	0.189 (0.107)	−0.055 (0.091)
Pop. Share 66+	0.008 (0.059)	0.233** (0.080)	−0.223* (0.094)	−0.056 (0.087)
Ovr. Unemp. Rate t	1.010*** (0.053)	1.152*** (0.059)	0.751*** (0.070)	0.474*** (0.084)
Ovr. Unemp. Rate t-1	0.135* (0.059)	0.093 (0.070)	−0.027 (0.066)	0.227** (0.069)
Ovr. Unemp. Rate t-2	−0.033 (0.058)	0.045 (0.051)	0.134 (0.089)	−0.096 (0.078)
Ovr. Unemp. Rate t-3	0.099* (0.041)	0.075 (0.076)	0.289*** (0.070)	0.317*** (0.074)
Disab. Rate	0.120*** (0.022)	0.193*** (0.028)	0.085* (0.040)	0.152** (0.050)
Marriage Rate	−0.137*** (0.018)	−0.205*** (0.029)	0.013 (0.041)	0.070* (0.034)
Effective Wage	−0.328 (0.182)	0.343** (0.105)	−0.157 (0.446)	−0.208 (0.162)
Mean TANF Maximum	0.001 (0.002)	0.002 (0.001)	0.005* (0.002)	0.000 (0.003)
Unemployment Comp.	−0.003 (0.002)	0.001 (0.001)	0.001 (0.004)	0.002 (0.002)
Degree Rate	0.016 (0.029)	−0.007 (0.024)	−0.122** (0.039)	−0.051 (0.046)
State FE	Yes	Yes	Yes	Yes
Year FE	Yes	Yes	Yes	Yes
Observations	450	700	450	700
R^2	0.627	0.623	0.410	0.247
Adjusted R^2	0.554	0.576	0.296	0.152

Notes:
***Significant at the 0.1 percent level.
**Significant at the 1 percent level.
*Significant at the 5 percent level.
Clustered Standard Errors by State and Year.
Weighted by State-Year total pop.

P7 (19-40) and P8 (Working-Age) Models

Table 7: Ages 18-40 Models

	Overall	Male	Female
	(1)	(2)	(3)
Prison History Pct.	−0.096 (0.226)	0.049 (0.194)	−0.274 (0.394)
Pop. Share 26-35	−0.020 (0.060)	−0.030 (0.052)	0.034 (0.084)
Pop. Share 36-45	0.132* (0.067)	0.265*** (0.063)	0.020 (0.090)
Pop. Share 46-55	−0.014 (0.069)	0.005 (0.051)	−0.004 (0.112)
Pop. Share 56-65	0.141 (0.074)	0.086 (0.061)	0.231 (0.124)
Pop. Share 66+	0.018 (0.062)	0.165** (0.053)	−0.117 (0.098)
Ovr. Unemp. Rate t	0.937*** (0.064)	1.226*** (0.062)	0.666*** (0.094)
Ovr. Unemp. Rate t-1	0.087 (0.047)	0.094* (0.045)	0.068 (0.075)
Ovr. Unemp. Rate t-2	0.007 (0.047)	0.011 (0.047)	−0.003 (0.080)
Ovr. Unemp. Rate t-3	0.237*** (0.045)	0.096* (0.042)	0.395*** (0.079)
Disab. Rate	0.094** (0.034)	0.178*** (0.025)	0.043 (0.042)
Marriage Rate	0.031 (0.018)	−0.105*** (0.017)	0.131*** (0.023)
Effective Wage	−0.073 (0.095)	0.276** (0.096)	−0.409* (0.191)
Mean TANF Maximum	−0.002 (0.002)	0.000 (0.001)	−0.004 (0.003)
Unemployment Comp.	0.000 (0.002)	−0.003 (0.002)	0.002 (0.002)
Degree Rate	−0.117*** (0.025)	−0.039 (0.021)	−0.206*** (0.038)
State FE	Yes	Yes	Yes
Year FE	Yes	Yes	Yes
Observations	1,150	1,149	1,150
R^2	0.505	0.540	0.254
Adjusted R^2	0.465	0.502	0.193

Notes: ***Significant at the 0.1 percent level.
**Significant at the 1 percent level.
*Significant at the 5 percent level.
Clustered Standard Errors by State and Year.
Weighted by State-Year total pop.

Table 8: Working Age Models

	Overall	Male	Female
	(1)	(2)	(3)
Prison History Pct.	0.142 (0.193)	0.115 (0.142)	0.111 (0.335)
Pop. Share 26-35	0.128** (0.043)	0.145*** (0.039)	0.132* (0.064)
Pop. Share 36-45	0.148** (0.052)	0.263*** (0.049)	0.079 (0.079)
Pop. Share 46-55	−0.069 (0.058)	0.086* (0.043)	−0.189* (0.095)
Pop. Share 56-65	0.466*** (0.069)	0.445*** (0.056)	0.487*** (0.103)
Pop. Share 66+	0.110* (0.046)	0.270*** (0.043)	−0.038 (0.075)
Ovr. Unemp. Rate t	0.831*** (0.045)	1.047*** (0.052)	0.619*** (0.074)
Ovr. Unemp. Rate t-1	0.093** (0.033)	0.131*** (0.036)	0.064 (0.052)
Ovr. Unemp. Rate t-2	−0.008 (0.035)	−0.017 (0.036)	0.001 (0.054)
Ovr. Unemp. Rate t-3	0.233*** (0.039)	0.091** (0.035)	0.377*** (0.067)
Disab. Rate	0.074** (0.028)	0.154*** (0.019)	−0.028 (0.041)
Marriage Rate	0.014 (0.028)	−0.120*** (0.025)	0.097** (0.035)
Effective Wage	−0.007 (0.089)	0.179* (0.085)	−0.175 (0.155)
Mean TANF Maximum	−0.001 (0.001)	0.002* (0.001)	−0.002 (0.002)
Unemployment Comp.	0.001 (0.001)	−0.002 (0.001)	0.003 (0.002)
Degree Rate	−0.052 (0.027)	−0.027 (0.017)	−0.085 (0.045)
State FE	Yes	Yes	Yes
Year FE	Yes	Yes	Yes
Observations	1,150	1,150	1,150
R^2	0.566	0.588	0.330
Adjusted R^2	0.531	0.554	0.275

Notes: ***Significant at the 0.1 percent level.
**Significant at the 1 percent level.
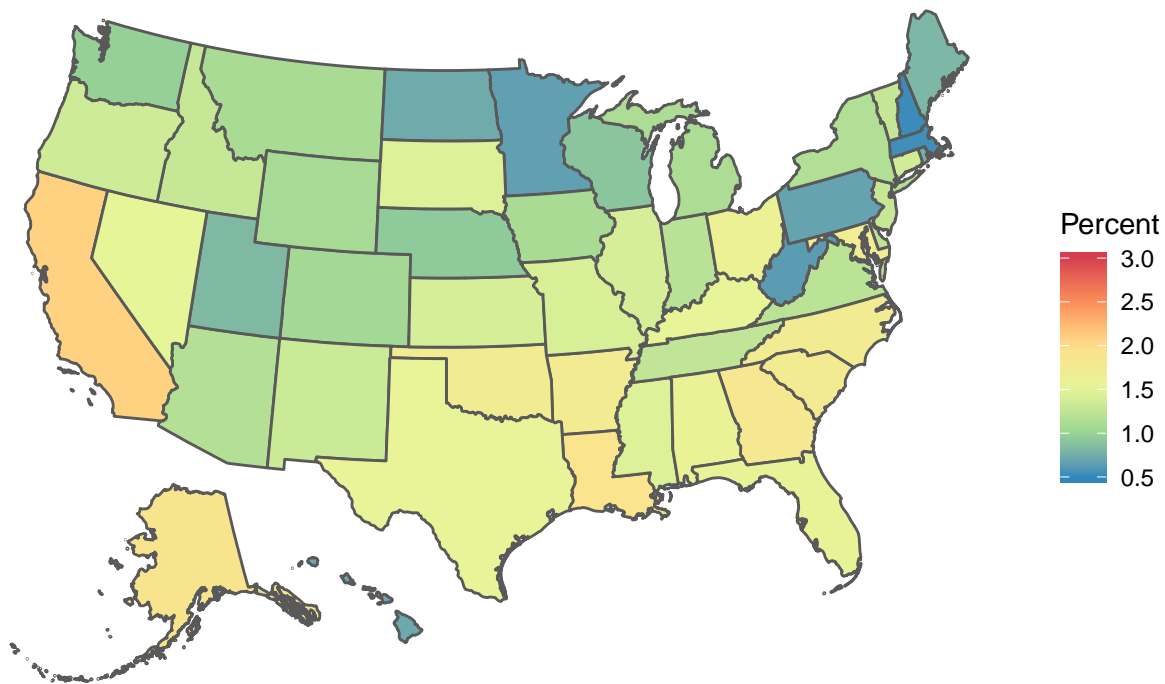*Significant at the 5 percent level.
Clustered Standard Errors by State and Year.
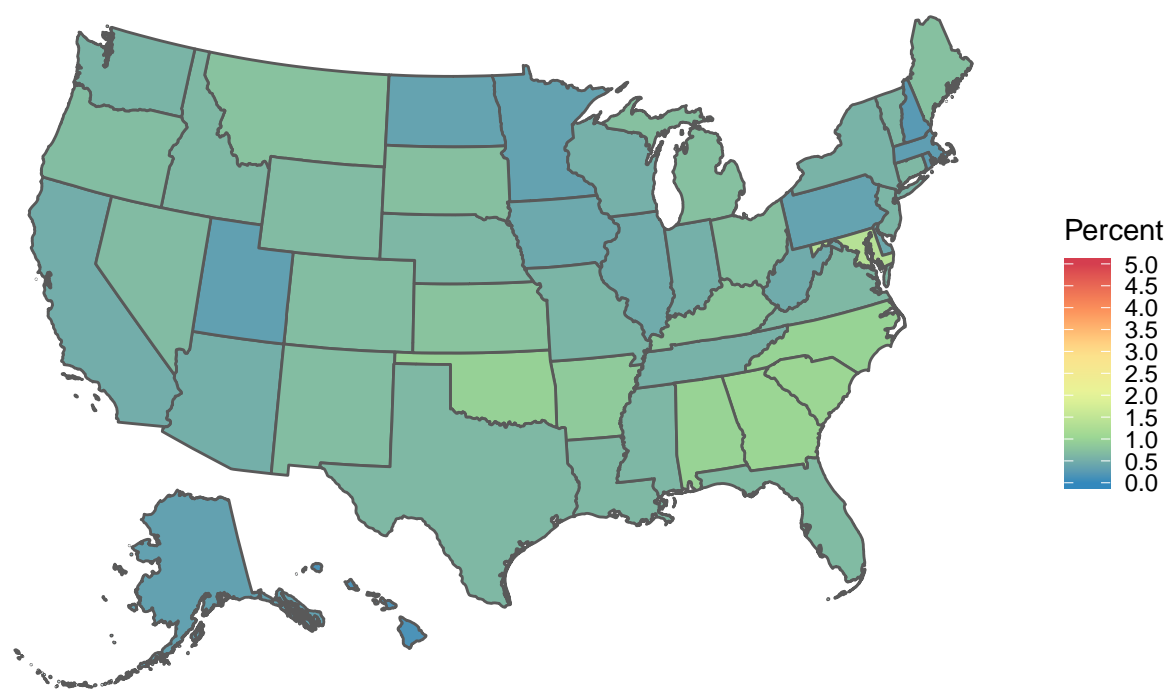Weighted by State-Year total pop.

Felon Density Maps

Prison History Pct. in the United States: 1980–2010
Shannon et al. 2017

Prison History Pct. in the United States: 1980
Shannon et al. 2017

Prison History Pct. in the United States: 2010

Shannon et al. 2017