ONLINE APPENDIX

The Effects of Youth Employment on Crime:
Evidence from New York City Lotteries

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TABLE A.I

2SLS ARRESTS AND CONVICTIONS OUTCOMES IN MONTHS OF PROGRAM
(WITH CONTROLS)

	(1)	(2)	(3)
Panel A: Arrests	All Youth	At-Risk Youth	Low-Risk Youth
Any Arrest	-0.132**	-2.659*	-0.0381
	(0.0558)	(1.506)	(0.0320)
	[0.766]	[12.047]	[0.340]
Any Felony Arrest	-0.0734**	-1.075	-0.0359
	(0.0345)	(1.039)	(0.0236)
	[0.310]	[4.856]	[0.138]
Any Misdemeanor Arrest	-0.0506	-1.042	-0.00886
	(0.0429)	(1.245)	(0.0268)
	[0.492]	[7.898]	[0.212]
Number of Arrests	-0.00126*	-0.0322	-0.000116
	(0.000700)	(0.0205)	(0.000416)
	[0.0087] (0.108)	[0.141] (0.418)	[0.0037] (0.0701)
Panel B: Convictions			
Any Conviction	-0.0761**	-2.045**	-0.0110
	(0.0339)	(0.798)	(0.0224)
	[0.241]	[4.057]	[0.0964]
Any Felony Conviction	-0.0365*	-0.477	-0.0203*
	(0.0217)	(0.547)	(0.0119)
	[0.095]	[1.537]	[0.0406]
Any Misdemeanor Conviction	-0.0342	-1.542**	0.0142
	(0.0268)	(0.622)	(0.0192)
	[0.151]	[2.612]	[0.0581]
Number of Convictions	-0.000722**	-0.0201**	-0.0000703
	(0.000362)	(0.00893)	(0.000234)
	[0.0026] (0.0542)	[0.0439] (0.225)	[0.0010] (0.0327)
First Stage Estimate	0.6906 (0.0113)	0.6151 (0.0143)	0.6931 (0.0115)
Number of Observations	163,447	5,092	158,355

Notes. This table shows the results of 2SLS regressions of SYEP participation and arrests (Panel A) and convictions (Panel B) in the program months among All Youth, At-Risk Youth (i.e., individuals who had an arrest prior to the program summer), and Low-Risk Youth (i.e., individuals who did not have a prior arrest), controlling for male (1 missing), white (733 missing), black (733 missing), latino (733 missing), citizen (1 missing), family members (2 missing), and age at SYEP start (0 missing). The number of missing observations are denoted in the parentheses. Control means are included in brackets below the standard errors. The binary outcomes in this table are presented in percentage points. This table shows marginal effects and robust standard errors on the SYEP participation dummy.

*** denotes significance at the 1% level; ** at the 5% level; and * at the 10% level.

TABLE A.II

OLS ARRESTS AND CONVICTIONS OUTCOMES IN MONTHS OF PROGRAM

	(1) All Youth		(2) At-Risk Youth		(3) Low-Risk Youth	
Panel A: Arrests	No Controls	Controls	No Controls	Controls	No Controls	Controls
Any Arrest	-0.0827**	-0.0838**	-1.887*	-1.796*	-0.0210	-0.0219
	(0.0373)	(0.0382)	(0.960)	(0.968)	(0.0224)	(0.0227)
	[0.766]	[0.766]	[12.047]	[12.047]	[0.340]	[0.340]
Any Felony Arrest	-0.0465*	-0.0471*	-0.614	-0.571	-0.0230	-0.0234
	(0.0235)	(0.0238)	(0.671)	(0.676)	(0.0164)	(0.0165)
	[0.310]	[0.310]	[4.856]	[4.856]	[0.138]	[0.138]
Any Misdemeanor Arrest	-0.0293	-0.0299	-0.895	-0.837	-0.00219	-0.00267
	(0.0291)	(0.0293)	(0.819)	(0.816)	(0.0816)	(0.0817)
	[0.492]	[0.492]	[7.898]	[7.898]	[0.212]	[0.212]
Number of Arrests	-0.000758	-0.000772	-0.0222	-0.0209	-0.0000118	-0.0000213
	(0.000479)	(0.000485)	(0.0136)	(0.0137)	(0.000300)	(0.000301)
	[0.0087] (0.108)	[0.0087] (0.108)	[0.141] (0.418)	[0.141] (0.418)	[0.0037] (0.0701)	[0.0037] (0.0701)
Panel B: Convictions						
Any Conviction	-0.0498**	-0.0503**	-1.180**	-1.135**	-0.00614	-0.00638
	(0.0235)	(0.0236)	(0.530)	(0.535)	(0.0158)	(0.0158)
	[0.241]	[0.241]	[4.057]	[4.057]	[0.0964]	[0.0964]
Any Felony Conviction	-0.0235	-0.0237	-0.360	-0.335	-0.0135	-0.0136
	(0.0150)	(0.0151)	(0.357)	(0.356)	(0.00845)	(0.00844)
	[0.095]	[0.095]	[1.537]	[1.537]	[0.0406]	[0.0406]
Any Misdemeanor Conviction	-0.0222	-0.0225	-0.789*	-0.767*	0.0108	0.0107
	(0.0190)	(0.0190)	(0.407)	(0.408)	(0.0136)	(0.0136)
	[0.151]	[0.151]	[2.612]	[2.612]	[0.0581]	[0.0581]
Number of Convictions	-0.000463*	-0.000469*	-0.0116*	-0.0110*	-0.0000318	-0.0000346
	(0.000254)	(0.000255)	(0.00583)	(0.00587)	(0.000165)	(0.000165)
	[0.0026] (0.0542)	[0.0026] (0.0542)	[0.0439] (0.225)	[0.0439] (0.225)	[0.00010] (0.0327)	[0.00010] (0.0327)
Number of Observations	163,447	163,447	5,902	5,902	158,355	158,355

Notes. This table shows the results of OLS regressions of SYEP participation and arrests (Panel A) and convictions (Panel B) in the program months among All youth, At-Risk Youth (i.e., individuals who had an arrest prior to the program summer), and Low-Risk Youth (i.e, individuals who did not have a prior arrest), controlling for male (1 missing), white (733 missing), black (733 missing), latino (733 missing), citizen (1 missing), family members (2 missing), and age at SYEP start (0 missing). The number of missing observations are denoted in the parentheses. Control means are included in brackets below the standard errors. The binary outcomes in this table are presented in percentage points. This table shows marginal effects and robust standard errors on the SYEP participation dummy.

*** denotes significance at the 1% level; ** at the 5% level; and * at the 10% level.

TABLE A.III

2SLS ARRESTS AND CONVICTIONS OUTCOMES OVER TIME FOR AT-RISK YOUTH
(WITH CONTROLS)

Panel A: Arrests	(1) 1 Year Post Program	(2) 3 Year Post Program	(3) 5 Year Post Program
Any Arrest	-0.332	-1.945	-1.609
	(2.361)	(2.867)	(2.531)
	[41.426]	[61.494]	[67.640]
Any Felony Arrest	-2.452	-4.225*	-2.455
	(2.098)	(2.521)	(2.281)
	[19.760]	[36.570]	[44.530]
Any Misdemeanor Arrest	1.967	0.856	-1.473
	(2.231)	(2.812)	(2.607)
	[31.961]	[53.534]	[61.955]
Number of Arrests	0.00188	0.0491	0.0811
	(0.0656)	(0.143)	(0.182)
	[0.803] (1.262)	[2.122] (2.630)	[3.216] (3.850)
Panel B: Convictions			
Any Conviction	-1.255	-2.582	-0.953
	(1.598)	(2.066)	(2.333)
	[14.843]	[29.164]	[35.126]
Any Felony Conviction	-0.731	-0.876	-1.487
	(1.117)	(1.484)	(1.657)
	[7.160]	[14.382]	[18.132]
Any Misdemeanor Conviction	-1.468	-2.500	-0.534
	(1.076)	(1.861)	(2.206)
	[9.158]	[19.760]	[25.230]
Number of Convictions	-0.0405	-0.00633	0.0327
	(0.0284)	(0.0574)	(0.0731)
	[0.216] (0.605)	[0.570] (1.239)	[0.867] (1.850)
Number of Observations	5,092	5,092	5,092

Notes. This table shows the results of 2SLS regressions of SYEP participation and arrests (Panel A) and convictions (Panel B) over time among the sample of At-Risk Youth (i.e., individuals who had an arrest prior to the program summer), controlling for male (0 missing), white (26 missing), black (26 missing), latino (26 missing), citizen (0 missing), family members (0 missing), and age at SYEP start (0 missing). The number of missing observations are denoted in the parentheses. Control means are included in brackets below the standard errors. The binary outcomes in this table are presented in percentage points. The first stage estimate is 0.6151 (0.0144). This table shows marginal effects and robust standard errors on the SYEP participation dummy.

*** denotes significance at the 1% level; ** at the 5% level; and * at the 10% level.

2SLS ARRESTS AND CONVICTIONS OUTCOMES OVER TIME FOR LOW-RISK YOUTH
(WITH CONTROLS)

Panel A: Arrests	(1) 1 Year Post Program	(2) 3 Year Post Program	(3) 5 Year Post Program
Any Arrest	-0.00383	-0.0693	0.119
	(0.111)	(0.166)	(0.209)
	[2.259]	[6.087]	[8.939]
Any Felony Arrest	-0.0773	-0.123	-0.0677
	(0.0663)	(0.107)	(0.133)
	[0.928]	[2.571]	[3.807]
Any Misdemeanor Arrest	0.0620	-0.111	0.0229
	(0.0996)	(0.163)	(0.212)
	[1.661]	[4.886]	[7.289]
Number of Arrests	-0.000820	-0.00404	-0.00113
	(0.00212)	(0.00608)	(0.00974)
	[0.0349] (0.279)	[0.131] (0.716)	[0.223] (1.100)

Panel B: Convictions			
Any Conviction	-0.0305	-0.0259	0.0395
	(0.0629)	(0.107)	(0.127)
	[0.700]	[1.924]	[2.770]
Any Felony Conviction	-0.0385	-0.0154	-0.0347
	(0.0442)	(0.0650)	(0.0747)
	[0.359]	[0.878]	[1.246]
Any Misdemeanor Conviction	0.00807	-0.0534	0.0418
	(0.0495)	(0.101)	(0.110)
	[0.373]	[1.225]	[1.847]
Number of Convictions	-0.000330	-0.000613	-0.000413
	(0.000795)	(0.00216)	(0.00335)
	[0.0082] (0.109)	[0.0272] (0.242)	[0.0453] (0.374)
Number of Observations	158,355	158,355	158,355

Notes. This table shows the results of 2SLS regressions of SYEP participation and arrests (Panel A) and convictions (Panel B) over time among the sample of Low-Risk Youth (i.e., individuals who did not have an arrest prior to the program summer), controlling for male (1 missing), white (707 missing), black (707 missing), latino (707 missing), citizen (1 missing), family members (2 missing), and age at SYEP start (0 missing). The number of missing observations are denoted in the parentheses. Control means are included in brackets below the standard errors. The binary outcomes in this table are presented in percentage points. The first stage estimate is 0.6923 (0.0116). This table shows marginal effects and robust standard errors on the SYEP participation dummy.

*** denotes significance at the 1% level; ** at the 5% level; and * at the 10% level.

TABLE A.V
2SLS ARRESTS AND CONVICTIONS OUTCOMES OVER TIME FOR ALL YOUTH
(WITHOUT CONTROLS)

Panel A: Arrests	(1) 1 Year Post Program	(2) 3 Year Post Program	(3) 5 Year Post Program
Any Arrest	-0.0576	-0.169	0.0350
	(0.155)	(0.202)	(0.222)
	[3.685]	[8.104]	[11.076]
Any Felony Arrest	-0.167	-0.275*	-0.175
	(0.113)	(0.166)	(0.174)
	[1.613]	[3.808]	[5.289]
Any Misdemeanor Arrest	0.0799	-0.128	-0.0585
	(0.128)	(0.183)	(0.211)
	[2.764]	[6.657]	[9.279]
Number of Arrests	-0.00168	-0.00468	-0.00190
	(0.00351)	(0.00901)	(0.0133)
	[0.062] (0.391)	[0.203] (0.941)	[0.332] (1.421)

Panel B: Convictions			
Any Conviction	-0.0820	-0.127	-0.0218
	(0.0891)	(0.127)	(0.152)
	[1.216]	[2.917]	[3.950]
Any Felony Conviction	-0.0661	-0.0554	-0.0960
	(0.0599)	(0.0864)	(0.102)
	[0.607]	[1.371]	[1.862]
Any Misdemeanor Conviction	-0.0451	-0.143	0.00131
	(0.0669)	(0.110)	(0.122)
	[0.694]	[1.901]	[2.700]
Number of Convictions	-0.00174	-0.00138	-0.000411
	(0.00130)	(0.00313)	(0.00472)
	[0.016] (0.162)	[0.047] (0.350)	[0.0753] (0.532)
Number of Observations	163,447	163,447	163,447

Notes. This table shows the results of 2SLS regressions of SYEP participation and arrests (Panel A) and convictions (Panel B) over time among the sample of All Youth without controls. Control means are included in brackets below the standard errors. The binary outcomes in this table are presented in percentage points. The first stage estimate is 0.6899 (0.0114). This table shows marginal effects and robust standard errors on the SYEP participation dummy.

*** denotes significance at the 1% level; ** at the 5% level; and * at the 10% level.

TABLE A.VI
2SLS ARRESTS AND CONVICTIONS OUTCOMES OVER TIME FOR ALL YOUTH
(WITH CONTROLS)

Panel A: Arrests	(1) 1 Year Post Program	(2) 3 Year Post Program	(3) 5 Year Post Program
Any Arrest	-0.0743	-0.205	-0.0148
	(0.152)	(0.193)	(0.209)
	[3.685]	[8.104]	[11.076]
Any Felony Arrest	-0.174	-0.293*	-0.198
	(0.111)	(0.162)	(0.171)
	[1.613]	[3.808]	[5.289]
Any Misdemeanor Arrest	0.0674	-0.157	-0.0996
	(0.127)	(0.173)	(0.196)
	[2.764]	[6.657]	[9.279]
Number of Arrests	-0.00198	-0.00564	-0.00352
	(0.00346)	(0.00874)	(0.0128)
	[0.062] (0.391)	[0.203] (0.941)	[0.332] (1.421)
Panel B: Convictions			
Any Conviction	-0.0870	-0.139	-0.0382
	(0.0874)	(0.124)	(0.150)
	[1.216]	[2.917]	[3.950]
Any Felony Conviction	-0.0685	-0.0604	-0.103
	(0.0589)	(0.0847)	(0.0993)
	[0.607]	[1.371]	[1.862]
Any Misdemeanor Conviction	-0.0480	-0.151	-0.0106
	(0.0667)	(0.108)	(0.121)
	[0.694]	[1.901]	[2.700]
Number of Convictions	-0.00180	-0.00157	-0.000717
	(0.00127)	(0.00307)	(0.00462)
	[0.016] (0.162)	[0.047] (0.350)	[0.0753] (0.532)
Number of Observations	163,447	163,447	163,447

Notes. This table shows the results of 2SLS regressions of SYEP participation and arrests (Panel A) and convictions (Panel B) over time among the sample of All Youth, controlling for male (1 missing), white (707 missing), black (707 missing), latino (707 missing), citizen (1 missing), family members (2 missing), and age at SYEP start (0 missing). The number of missing observations are denoted in the parentheses. Control means are included in brackets below the standard errors. The binary outcomes in this table are presented in percentage points. The first stage estimate is 0.6899 (0.0114). This table shows marginal effects and robust standard errors on the SYEP participation dummy.
*** denotes significance at the 1% level; ** at the 5% level; and * at the 10% level.

TABLE A.VII
SUMMARY STATISTICS FOR AT-RISK YOUTH

	Control	Treatment	Difference p-value
Age at SYEP Start Date	17.931 (1.460)	17.849 (1.414)	0.714
Race/Ethnicity			
White	0.012	0.022	0.291
Black	0.677	0.657	0.553
Latino	0.261	0.442	0.959
Other	0.049	0.229	0.401
Male	0.780	0.779	0.357
US Citizenship	0.964	0.965	0.304
Family Members	3.925 (1.820)	3.792 (1.922)	0.604
Prior Arrest	1	1	-
Prior Conviction	0.539	0.539	0.915
Arrests (May 1 to April 30)			
Any Arrest	0.607	0.610	0.595
Any Felony Arrest	0.290	0.272	0.394
Any Misdemeanor Arrest	0.423	0.438	0.313
Arrest Count	0.961 (1.101)	0.935 (1.056)	0.757
Conviction (May 1 to April 30)			
Any Conviction	0.204	0.207	0.87
Any Felony Conviction	0.097	0.095	0.925
Any Misdemeanor Conviction	0.113	0.119	0.793
Conviction Count	0.239 (0.543)	0.237 (0.524)	0.885
Number of Observations	2,414	2,678	5,092

Notes. This table shows the summary statistics for the treatment and control group within individuals who were arrested prior to the program start across a host of demographic variables and crime outcomes. "Prior Arrest" and "Prior Conviction" are defined through program start date (July 1st). The "Arrests" and "Convictions" outcomes are for the year before randomization, May 1st through April 30th. The difference p-value column is the p-value of the difference between the treatment group and the control group..

*** denotes significance at the 1% level; ** at the 5% level; and * at the 10% level.

TABLE A.VIII
SUMMARY STATISTICS FOR LOW-RISK YOUTH

	Control	Treatment	Difference p-value
Age at SYEP Start Date	17.126 (1.250)	17.144 (1.257)	0.798
Race/Ethnicity			
White	0.075	0.201	0.482
Black	0.512	0.427	0.286
Latino	0.266	0.251	0.469
Other	0.147	0.122	0.055*
Male	0.439	0.437	0.930
US Citizenship	0.912	0.922	0.167
Family Members	4.137 (1.873)	4.512 (2.332)	0.807
Prior Arrest	0	0	-
Prior Conviction	0	0	-
Arrests (May 1 to April 30)			
Any Arrest	0	0	-
Any Felony Arrest	0	0	-
Any Misdemeanor Arrest	0	0	-
Arrest Count	0 (0)	0 (0)	-
Conviction (May 1 to April 30)			
Any Conviction	0	0	-
Any Felony Conviction	0	0	-
Any Misdemeanor Conviction	0	0	-
Conviction Count	0 (0)	0 (0)	-
Number of Observations	69,125	89,230	158,355

Notes. This table shows the summary statistics for the treatment and control group within individuals who were not arrested prior to the program start across a host of demographic variables and crime outcomes. The means are shown with the standard deviations in parentheses. The difference p-value column is the p-value of the difference between the treatment group and the control group. *** denotes significance at the 1% level; ** at the 5% level; and * at the 10% level.